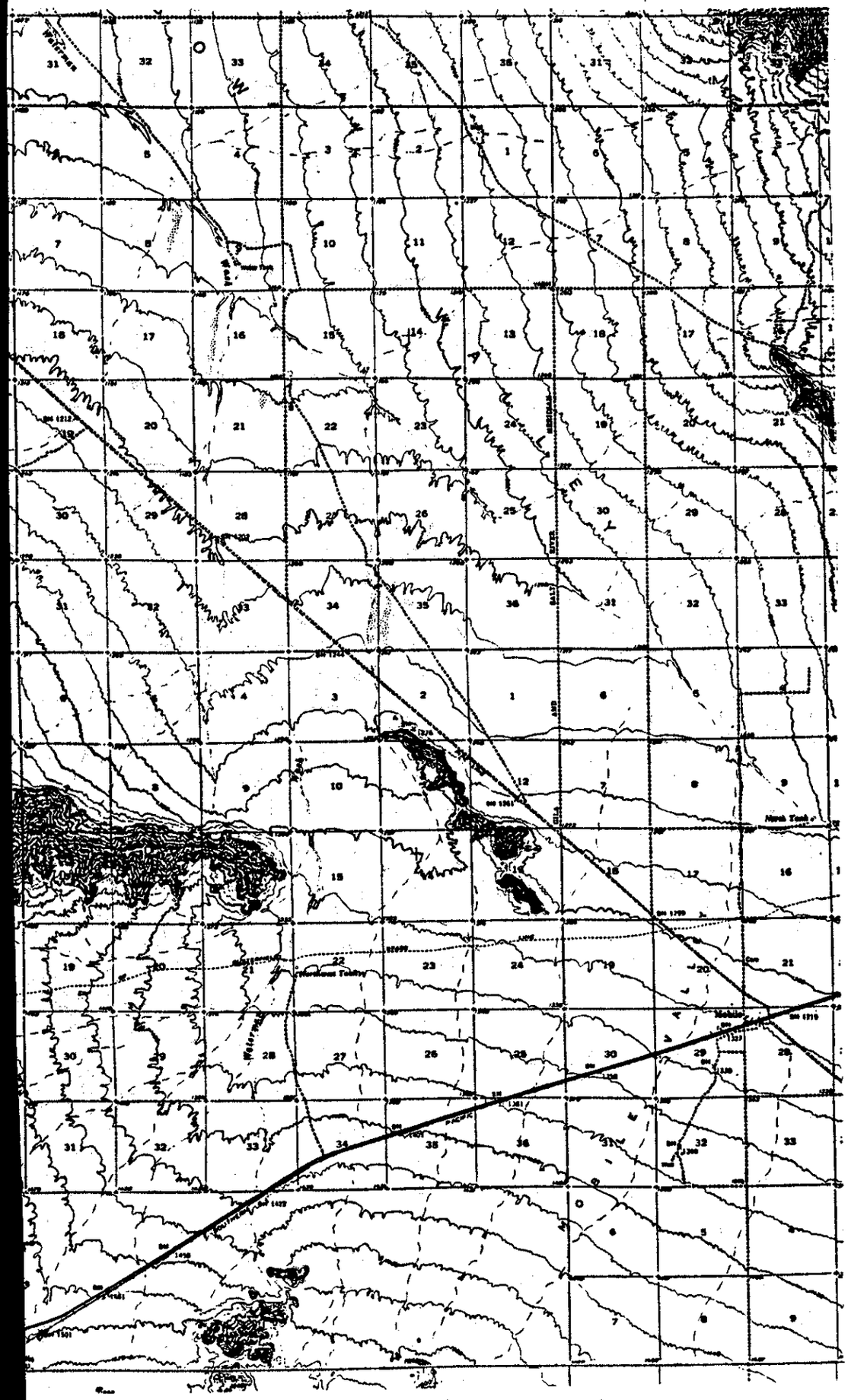

WATERMAN WASH FLOOD INSURANCE STUDY

Upper Watershed
East and West Prongs
And Southern Pacific Railroad

FLOOD CONTROL DISTRICT of Maricopa County

April 1990
Revised August 1991

STANLEY CONSULTANTS
Phoenix, Arizona

VOLUME 1 OF 2

WATERMAN WASH
FLOOD INSURANCE STUDY

Upper Watershed
East and West Prongs
And Southern Pacific Railroad

FLOOD CONTROL DISTRICT
of Maricopa County

Registered Professional Engineer (Civil)
CERTIFICATE NO.
26837
G. SCOTT
BUCHANAN
Date Signed 3-29-94
ARIZONA, U.S.A.

April 1990
Revised August 1991

STANLEY CONSULTANTS
Phoenix, Arizona

VOLUME 1 OF 2

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PREFACE

This draft Flood Insurance Study for upper Waterman Wash supersedes the first draft of April 1990. It contains revisions in hydrology suggested by the Flood Control District of Maricopa County and the Arizona Department of Water Resources. These revisions were intended to adjust the peak flow estimated in the initial draft so that it is more consistent with the observed gage record downstream at the Gila River and with the District's observations of recent flows.

The 1991 revision combines the previous Draft Flood Insurance Study, Hydrologic Analysis, HEC-2 Input and Output and Manning's Roughness Coefficient Analysis under one cover. Also, it expands the bibliography and summary information tables and includes technical calculations in support of the hydrologic and hydraulic analyses.

The principal flood problem areas in this study selected for detailed analysis were the Waterman Wash East and West Prongs and the Southern Pacific Railroad. Other flood hazards present within the study area were either considered isolated or would take a disproportionately large effort to study in relation to their impacts on existing and potential land use. They were, therefore, not included in the scope.

The "alluvial fan" term in the April 1990 Draft Flood Insurance Study was used in a descriptive context to characterize the drainage process occurring on a portion of the upper contributing areas. This has created some concern that the alluvial fan process may be occurring but is not being adequately addressed. The drainage process that occurs on these upper slopes may share some common characteristics with FEMA's alluvial fan. However, our primary concern with these upper areas is not in analyzing their particular flood hazards. It is simply to estimate runoff discharging from them to the selected principal flood problems.

Typically, in this study area, alluvial fans are not the well defined, diverging flow, cone segment features described in FEMA's "Guidelines and Specifications for Study Contractors". Where they do exist, they are typically ill-defined with no distinct apex or toe or they quickly converge with each other or they occur in conjunction with areas of valley-entrenched cross section. In addition, drainage from a portion of the upper contributing areas is eventually combined and concentrated at culverts under the Southern Pacific Railroad.

Distinct fan areas and their adjacent contributing mountain fronts are relatively small in relation to the overall study area. Generally, they are separated from the principal flood problem areas by several miles of lower drainage slope. These lower slopes have no perceptible flow divergence, no apex and no toe. Contours essentially parallel each other. Lower drainage slopes are the primary contributors of runoff to the principal flood problem areas.

Some type of modified FEMA methodology, combination of methods or specifically tailored approach would be required to study specific flood hazards of these contributing areas. But again, this is outside the scope of this Flood Insurance Study and is considered a significant but separate effort of study. Discharges to the designated principal flood problem areas can be estimated adequately with the use of HEC-1 without having to establish specific depth, velocity and flood zones of the contributing areas.

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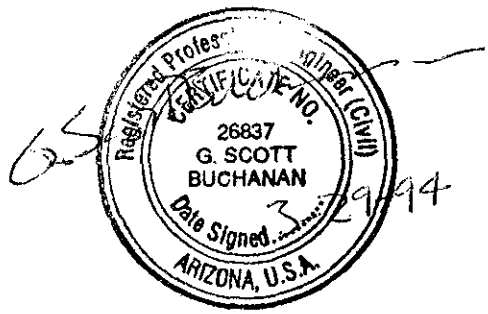

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1.0 INTRODUCTION

1.1 Purpose of Study

Community Name:	Mobile, Rainbow Valley
County:	Maricopa (Unincorporated)
State:	Arizona

1.2 Authority and Acknowledgements

The hydrology and hydraulic analysis for this study were prepared by Stanley Consultants, Inc., the study contractor, for the Flood Control District of Maricopa County (FCD), under Contract #88-55. This work was completed initially in April 1990. It was revised in August 1991 in accordance with review comments by FCD.

1.3 Coordination

In July 1989, an initial coordination meeting was held with the FCD and study contractor. Topics discussed at the meeting included proposed scope, coordination, schedule, study methods, assumptions and available information.

The National Geodetic Survey Branch of National Oceanic and Atmospheric Administration was contacted for data on horizontal and vertical control. Vertical control is based on National Geodetic Vertical Datum of 1929. Horizontal control is based on the North American Datum of 1983, State Plane Coordinate System, Arizona Central Zone.

Topography for the East and West Prongs of Waterman Wash and the Southern Pacific Railroad was provided by Cooper Aerial of Phoenix based on coverage limits established by Stanley Consultants and the FCD. Ground control for the aerial mapping was established by Stanley Consultants' field crews.

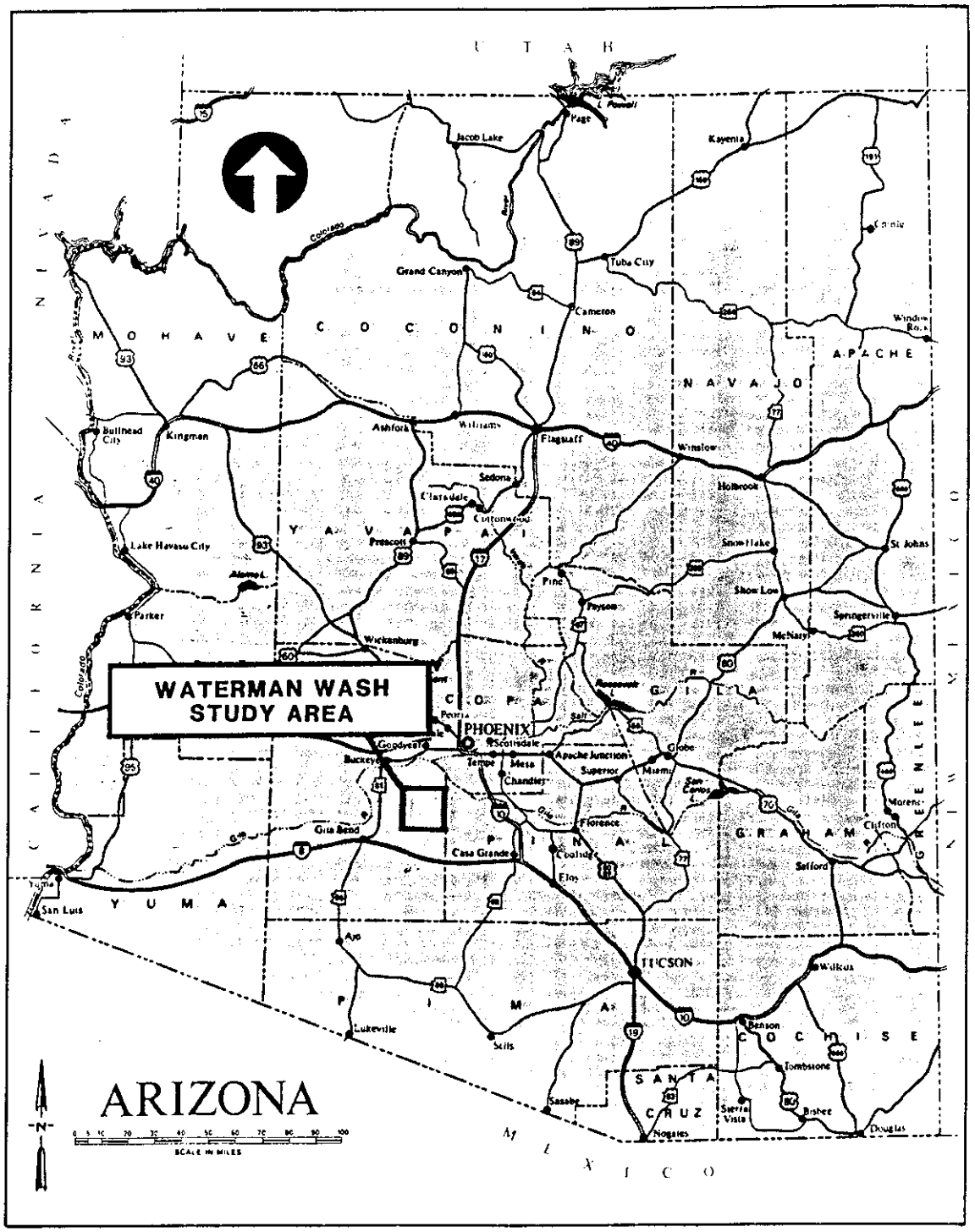
In addition to review by the FCD, the Waterman Wash Flood Insurance Study was also reviewed by the Arizona Department of Water Resources (ADWR).

2.0 AREA STUDIED

2.1 Scope of Study

This Flood Insurance Study covers an unincorporated area of Maricopa County in the upper watershed of Waterman Wash. In this area, Waterman Wash actually consists of two separate washes referred to as the East and West Prongs.

FIGURE 1


WATERMAN WASH
STUDY AREA
ARIZONA
UTAH
NEVADA
CALIFORNIA
NEW MEXICO
MOHAVE
COCONINO
NAVAJO
APACHE
YAVAPAI
MARICOPA
PINAL
GILA
GRAHAM
YUMA
PIMA
COCHISE
SANTA CRUZ
PHOENIX
TUCSON
Page
Jacob Lake
Kayenta
Tuba City
Grand Canyon
Cameron
Bullhead City
Kingman
Ashfork
Williams
Flagstaff
Winslow
Holbrook
Sedona
Clarkdale
Cottonwood
Prescott
Lake Havasu City
Parker
Wickenburg
Pine
Payson
Snow Flake
Show Low
St Johns
Springerville
McNary
Globe
Miami
Superior
Apache Junction
Mesa
Chandler
Tempe
Scottsdale
Goodyear
Buckeye
Gila Bend
Casa Grande
Coolidge
Florence
Eloy
Safford
Clifton
Morenci
San Luis
Ajo
Lukeville
Sells
Sasabe
Nogales
Benson
Tombstone
Sierra Vista
Bisbee
Douglas
Willcox
SCALE IN MILES

The confluence of these two prongs is the lower limit of the upper watershed and of this FIS. Hydrology and hydraulics are evaluated in this study along each of two prongs, and each is delineated to estimate 100-year floodplain and floodway limits. The limits of the detailed delineation study extend upstream (or south) about 10 miles on each prong from their confluence to a point just downstream from the Southern Pacific Railroad.

Also included in this FIS is hydrology and hydraulics of potential flood hazard areas along the upstream side of the Southern Pacific Railroad. This railroad is generally situated on a raised earth embankment with numerous cross culverts. Limits of ponding and flow diversion were estimated along the railroad embankment based on 100-year discharges for a length of about 12 1/2 miles. A total of 46 culverts are located in this study reach.

The above areas were selected for study using detailed methods based on field reconnaissance and discussions with the FCD. Although there are numerous washes, livestock water tanks and potential shallow flood zones within the study area, their flood evaluation is beyond the scope of this study. There were no flood hazards investigated in the study area using approximate methods.

A previous FIS was done by Cella-Barr Associates in 1988. It included hydrology for the entire Waterman Wash watershed and a detailed delineation study of the wash from the confluence of East and West Prongs downstream through the lower watershed to the Gila River. The Cella-Barr FIS is discussed in more detail in Section 7.0 of this study.

2.2 Community Description

The study area is located about 45 miles southwest of Phoenix, Arizona in a sparsely populated area of unincorporated Maricopa County. Waterman Wash drains an area known as Rainbow Valley. The small community of Mobile is located within the study area. It consists primarily of an elementary school and numerous scattered residences. It is located along the north side of the Southern Pacific Railroad near 99th Avenue.

Other land uses in the area consist of irrigated farming, range land, and some commercial/industrial uses. Most local roadways are unpaved with dip crossings at washes. State Highway 238 traverses the study area running parallel to and north of the railroad. An El Paso Natural Gas pipeline traverses the study area from northwest to southeast. This is a buried high pressure pipeline with little or no above ground features. It has no significant affect on drainage in the study area.

The study area is beginning to experience some additional commercial/industrial activity. Currently under development are a training airport and a sanitary landfill. This may result in some increase in population and residential construction in the area. The study area south of the railroad is essentially uninhabited natural desert.

The study area is situated in a semi-arid climatic zone characterized by hot summers and mild winters. Average annual precipitation is between six and nine inches. The study watershed is subject to three primary wet seasons. The first season, during the winter months, is characterized by Pacific storms producing widespread, generally low intensity showers. The second season, during the summer months, is characterized by thunderstorms produced by moist air from the Gulf of Mexico. The third season, from late summer to fall, is characterized by rain produced from tropical thunderstorms arising in the Pacific. Generally, the summer thunderstorms produce the greatest rainfall amounts and intensities.

The upper extent of the Waterman Wash drainage basin is located in the Maricopa Mountains east of Gila Bend. From there it drains northwesterly through Rainbow Valley to the Gila River. Cumulative contributing drainage areas are as follows:

To Southern Pacific Railroad	97 sq. mi.
To confluence of east and west prongs	247 sq. mi.
To Gila River	434 sq. mi.

Elevations in the study area range from a low of about 1,125 feet at the confluence of East and West Prongs to over 4,000 feet in the Estrella Mountains which form the eastern limits of the study area. The Maricopa Mountains, which form the west and south limits of the study area, peak at elevations ranging from 2,500 to 3,000 feet. Slopes range from a minimum of about 0.25% in the lower, flatter portions of the study area to well over 10% in the surrounding mountains. The predominant slope in the areas between the mountain fronts and the East and West Prongs is on the order of 1%.

A wide range of soils occur in the study area. Soils in the lower elevations are characterized as generally deep, fine textured alluviums and those in the upper elevations are generally shallow and rocky. Some bedrock outcrops occur throughout the study area but primarily in the upper elevations. These outcrops are the primary component of impervious surface in the study area. Because of its low intensity, current land use has relatively little affect on the rainfall-runoff process. Soils in the lower elevations are generally unconsolidated and subject to erosion, transport and deposition.

Natural vegetation in the study area consists of a variety of arid desert grass, brush and trees including creosote, cat claw, salt bush and brittle bush; palo verde, mesquite and ironwood trees, saguaro and a variety of other cacti. Agricultural land use only accounts for a small portion of the study area. Crop cover was considered insignificant in this study.

Runoff originating in the surrounding mountains flows out onto adjoining lower drainage slopes. It then travels, generally several miles, before reaching the East or West Prong of Waterman Wash or the Southern Pacific Railroad. The surrounding mountains comprise only about 10% of the total contributing area. The bulk of the runoff in the study area comes from the lower slopes themselves. The lower slopes are characterized by braided meandering wash systems. Wash channels vary in size but are typically shallow and not very wide. Concentrations of trees and brush are typically found along these washes.

The East Prong of Waterman Wash is a valley-entrenched water course with overbanks that rise more or less continuously up and away from the main channel. There is typically a single dominant main channel although some portions of the study reach contain multiple channels. Washes from the adjoining drainage slopes enter the East Prong from both sides and it continuously gains contributing area in the downstream direction.

Typically, the West Prong is made up of several wash channels with sometimes no dominant main channel. The West Prong is similar in nature to the East Prong although portions of its study reach do not have the same pronounced valley-entrenched cross section configuration. The West Prong generally has a steeper grade along its channel than the East Prong. None of the West Prong's channels permanently diverge from its floodplain.

The Southern Pacific Railroad is on a more or less continuous downhill grade from west to east cutting diagonally across one of the lower drainage slopes. Cross culverts are placed at major washes. A diversion channel exists along the upstream side of a significant portion of the railroad study reach. This channel picks up flow from minor washes between culverts and also carries overflow from one culvert to the next one down slope thus interconnecting the culverts into groups or systems. This channel is not continuous along the entire study reach.

2.3 Principal Flood Problems

Low-lying areas along the East and West Prongs of Waterman Wash are subject to flooding. Channel flow depths during extreme events can range from 6 to 12 feet and flow velocities can range from 5 to 10 feet per second. Overbank areas adjacent to the channels are subject to overflow and erosion potential.

Areas along the upstream side of the Southern Pacific Railroad are subject to some ponding and diverted flow along the raised embankment. The average maximum ponding depth is on the order of 3 feet. The possibility of overtopping of the railroad embankment was considered in this study.

2.4 Flood Protection Measures

No significant flood protection facilities exist nor are any flood control projects planned for the study area. There are a number of minor localized diversion channels and dikes evident in the study area. Primarily, this type of activity consists of training diversions for roadway and railroad culverts. Or, it is associated with agricultural activities to protect cultivated fields and irrigation facilities or collect runoff to livestock water tanks. Aside from the main railroad embankment, none of the existing diversions in the study area were significant enough to be considered in the analysis of hydrology and hydraulics for this FIS.

3.0 TECHNICAL ANALYSIS

3.1 Hydrology

The Corps of Engineer's HEC-1 computer hydrograph program version 4.0, September 1990, was used to evaluate hydrology at various concentration points along the East and West Prongs of Waterman Wash and along the Southern Pacific Railroad. Of the various hydrograph options available in HEC-1, the Soil Conservation Service dimensionless unit hydrograph method was chosen because of its ease of use and widespread acceptability. As directed by the FCD, only the 100-year flood event was evaluated. The railroad is the only physical improvement in the study limits assumed to have an impact on hydrograph peaks and times. It was included as a number of storage routing steps in the HEC-1 runoff model. None of the minor diversions and livestock water tanks in the study area were assumed to have any impact on peak flows. In the upper watershed, because of the sparse intensity, none of the existing land uses was assumed to have any significant affect on the rainfall-runoff process.

Drainage basin and sub-basin boundaries were delineated based on a combination of USGS quadrangle maps, aerial photographs, aerial topography and field reconnaissance. Square mile areas of each sub-basin were estimated with the use of a digital planimeter. Originally, a separate sub-basin was delineated for each of the 46 drainage culverts under the railroad. This was later modified to streamline efforts and HEC-1 output by grouping culverts into systems. Groupings of culverts were established based primarily on hydraulic interconnection via the existing channel which is prevalent over most of the upstream side of the railroad embankment. However, the culvert grouping concept also applies where culverts are not interconnected by a diversion channel.

The individual elevation discharge relationships for each culvert were summed to establish a single relationship for each group of culverts. Each culvert has its own datum beginning at its invert and increasing in one foot increments. Thus, each culvert in the group has an equal weight in terms of elevation head. Based on field reconnaissance, debris clogging does not appear to be a significant occurrence in the railroad culverts so no clogging factor assumption was used in culvert hydraulics. Capacities were estimated based on a combination of normal depth calculations and inlet control nomographs from "Hydraulic Engineering Circulars 5 and 10" and the "Handbook of Concrete Culvert Pipe Hydraulics", depending on the type of culvert and depth. The maximum assumed depth at all inlets was 7 feet.

The depth-area relationship required by HEC-1 for each group of culverts was estimated from the aerial topography assuming a triangular cross section with a maximum depth of 7 feet. This depth was projected up-slope and the intersect limits with existing ground were delineated. The area between the intersect limits and the railroad tracks was planimetered and the intermediate areas at 1 foot increments from 0 to 7 feet in depth were calculated proportionately.

The 100-year 24 hour rainfall was estimated using precipitation data from the NOAA Atlas 2, Precipitation Frequency Atlas of the Western United States, Volume VIII, Arizona. The procedure is based on the "Hydrologic Design for Highway Drainage in Arizona" drainage manual. The resulting 100-year, 24-hour point precipitation value was 4.40 inches. An SCS Type II storm distribution was used in the HEC-1 runoff model.Because of the size of the overall contributing drainage basin, aerial reduction factors were used. These were based on the NOAA publication "Depth-Area Ratios in the Semi-Arid Southwest United States".

Times of concentration and lag times were based on Soil Conservation Service methodologies. Times of concentration are estimated based on flow length, slope and ground cover/land use characteristics using Figure 15.2, Upland Method, "Soil Conservation Service National Engineering Handbook, Chapter 4, Hydrology". Lag time is 0.6 times the time of concentration. Sub-basins with more than one predominant slope were broken into sub-reaches with separate times calculated for each.

Rainfall losses were estimated based on the initial plus uniform loss rate option in HEC-1. The required input parameters are based on Tables 4.1 and 4.3 in the Flood Control District's "Hydrologic Design Manual". The initial and uniform losses are based on soil texture classifications which are derived from Soil Conservation Service soil surveys. Initial losses are selected assuming "normal" land values as opposed to "dry" to reflect the possibility of antecedent moisture in the watershed. Surface retention loss in the upper watershed assumes either the natural desert and rangeland or the hillslope values. The amount of agricultural land was not considered significant enough to affect the rainfall-runoff relationship.

The percent impervious input for HEC-1 was derived as a portion of the estimated rock outcrop, if any, for each sub-basin. Rock outcrop area was estimated based primarily on soil surveys and aerial photographs. Estimating what portion of the outcrop would actually be used in the HEC-1 model as impervious was based on judgement with consideration to the outcrop extent and location. Only that portion which, in theory, would be hydraulically connected to a runoff conveyance was used. The final estimated impervious area was subtracted from the total sub-basin area when weighing loss coefficients for the remaining soils. Sensitivity analysis showed that a large increase in percent impervious over what was used results in only a small increase in peak flows.

Hydrograph routing through downstream channel reaches is accomplished using the normal depth storage routing option of HEC-1. This routing, when done across the lower drainage slopes, is based on a theoretical cross section having a typically shallow channel and wide flat overbanks. This is intended to represent a typical section of drainage slope subject to a combination of concentrated flow and shallow overflow within the input limitations of HEC-1. Normal depth hydraulics of the typical section show a range of average flow velocity and depth that appear reasonable for the intended use.

Channel routing down the East and West Prongs of Waterman Wash is based on cross sections and Manning roughness coefficients derived directly from HEC-2 cross sections for the appropriate reach. An assumed infiltration/percolation loss of 10 cfs per wetted acre is used on all storage routing done in the HEC-1 model. This applies to both channel routing and railroad reservoir routing. Response runs using rates ranging from 5 to 20 cfs per acre indicate that the HEC-1 model is not particularly sensitive to changes in the percolation rate.

The computation time interval used in HEC-1 was first estimated based on a rule of thumb 13% of the average time of concentration for all of the sub-basins. This time interval proves too long, however, and a number of warning messages result advising a reduction in the computation interval. An interval of 10 minutes was assumed. This eliminates most of the warning messages without a significant affect on flow rates. Hydrographs where the remaining messages occur were evaluated to ensure reasonable results.

The number of routing steps for channel reaches were estimated using the reach length divided by an average flow velocity of five feet per second divided by the computation time interval of 10 minutes. The assumed flow velocity of 5 feet per second was derived from a review of calculated HEC-2 and normal depth velocities.

3.2 Hydraulics

The Corps of Engineers HEC-2 computer backwater program was used to delineate the 100-year floodplains of the East and West Prongs of Waterman Wash. HEC-2 assumes a fixed channel boundary. It is the most widely used of the two-dimensional hydraulic models for delineating floodplains. Hydraulic cross sections were laid out by Stanley Consultants on the aerial topography, then digitized by Cooper Aerial. The contour interval is 4 feet on the aerial mapping. Horizontal scale is 400 feet to the inch. Cross sections are spaced roughly 500 feet apart and oriented from left to right looking downstream. The zero station for each cross section corresponds to the left end of the cross section line on the mapping.

The backwater analysis begins about 3,500 feet downstream of the confluence of East and West Prongs based on the slope area option in HEC-2 using an estimated water surface and slope. The combined East and West Prong flow rate of 13,200 cfs was used for cross sections 1 thru 5 which are completely down stream from the confluence. Beginning at cross section 8 and going upstream on the East Prong, only the East Prong flow starting at 9,000 cfs is considered. Flow rates at cross section 6 and 7 on the East Prong are proportioned between 13,200 cfs and 9,000 cfs based on the channel flow length between cross sections 5 and 8. In addition, only the East Prong portions of sections 6 and 7 are considered in the East Prong backwater analysis.

The computed water surface elevations at cross sections 6 and 7 from the East Prong were carried across the floodplain to delineate limits on the west side. The West Prong backwater analysis begins at cross section 130 which corresponds in location to East Prong cross section 8. The West Prong starting water surface at cross section 130 uses the computed water surface from East Prong cross section 8 with the known water surface starting option of HEC-2. Upstream from cross section 10 on the East Prong and cross section 132 on the West Prong, the two analyses are considered completely independent of each other.

Flow rates are generally considered to decrease going in the upstream direction along each prong. Peak flows taken from HEC-1 are uniformly proportioned along each reach and rounded to the nearest 100 cfs for HEC-2. Flow rates are not necessarily reduced at each cross section proceeding upstream. Rather, the proportioned flow rates are grouped into sub-reaches, each consisting of a number of HEC-2 cross sections all using the same flow rate as the sub-reach's beginning downstream cross section. A sub-reach ends when there is more than about a 5% decrease in flow rate from its beginning.

Manning's roughness coefficients are derived based on a combination of field reconnaissance with the FCD, aerial photographs and references such as the Soil Conservation Service "NEH Section 4" and Chow's "Open Channel Hydraulics". Experience and judgement were used along with consideration of channel size and shape, alignment and uniformity, vegetation, bed and bank material and discharge stage.

Each final HEC-2 model has a natural and an encroached profile. The natural profile generally considers the entire unobstructed cross section (except in the case of cross sections 6 and 7 as explained earlier). The final encroachment run uses the Type 1 encroachment option in HEC-2. The Type 1 encroachment limits were based on a Type 4 encroachment run (equal conveyance loss on each side) with a target rise of 1 foot. The East Prong encroachment generally results in a very uniform rise in water surface very close to the 1 foot target. The West Prong encroachment is generally erratic, sometimes producing a drop in water surface instead of a rise. This is attributed to the irregular and multi-channel nature of the West Prong compared to the more uniform cross section configuration of the East Prong.

HEC-2 was not used to analyze hydraulics along the Southern Pacific Railroad. The hydraulic analysis for the railroad consists essentially of the culvert hydraulics discussed in Section 3.1.

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS

4.1 Floodplain Boundaries

Floodplain boundaries were established along Waterman Wash based on the HEC-2 natural water surface profiles and the aerial mapping. Along some portions of Waterman Wash, especially the West Prong, non-uniform and multiple channel cross sections resulted in a large variation in floodplain top widths from one section to the next. In many instances, floodplain limits required a significant amount of "smoothing" to maintain continuity and reflect a realistic floodplain.

In some instances, floodplain limits will follow along the outside of an adjoining wash channel to include potential overflow from the main channel upstream. In another case, floodplain limits were expanded on one side to include a livestock water tank. A considerable amount of judgement was necessary along most of the study reach. All of the Waterman Wash East and West Prong floodplain limits have been designated as Flood Insurance Zone AE on the work maps. Although there may be zones of shallow flooding within and adjacent to the delineated floodplains or on the surrounding drainage slopes, it is beyond the scope of this study to evaluate them.

Floodplain limits along the Southern Pacific Railroad were delineated in part based on results of the HEC-1 analysis. The grouping of culverts into single HEC-1 structures results in a maximum stage that is then considered as a representative average for the wide variety of culvert types and configurations found in the group.

Generally, the maximum stage calculated by HEC-1 was added to each estimated culvert invert and the high water intersect with up-slope ground was delineated on the aerial mapping to form the south floodplain limit. The north floodplain limit is located along the railroad embankment. The extent of flooding along the railroad in general is fairly limited to the immediate ponding at each culvert and along the interconnecting diversion channels along the railroad between culverts.
The railroad does not significantly impede, impound or divert flows to the point where overtopping is likely. In general, existing railroad culverts seem adequately sized and located to effectively discharge their flows to downstream washes. There is no historical or physical evidence of overtopping. This conclusion is supported by a railroad maintenance program which regularly maintains the tracks and embankment and keeps the culverts free of obstruction.

The railroad floodplain has been designated as Flood Insurance Zone AO on the work maps. The average maximum depth of ponding associated with the railroad AO Zone is 3 feet.

4.2 Floodways

Generally, floodway limits on the East and West Prongs were established not only based on the encroachment runs but on other considerations as well. Encroachment limits do not extend inside the main channel or channels. A smooth continuity in floodway limit was considered as important as hitting the target rise in water surface. Potential channel bank erosion and migration on the outside of bends was considered in locating floodway limits.

No floodway limit was delineated separately from the floodplain limit along the railroad embankment. However, because of the nature of the railroad flood zone, it may be advisable to consider the entire zone as floodway.

7.0 OTHER STUDIES

7.1 Cella-Barr Study

As mentioned previously, there is another flood insurance study that adjoins this one. It was done by Cella-Barr Associates in 1988 and included hydrology for the entire watershed and a detailed delineation study of Waterman Wash from the East/West Prong confluence downstream through the lower watershed to the Gila River. There are a number of differences between the Cella-Barr FIS and the Stanley FIS:

A. A comparison of the mapping ground control surveys between the two studies indicates a discrepancy in the horizontal direction. This occurs at more than one point that was checked. At one common point used in both studies, there was a difference of about 15 feet in horizontal location. This point is located on a traverse used in the Stanley FIS which closes with a relative error of 1/81,000. This is well within FEMA standards. We consider the Stanley location to be the more correct of the two. A discrepancy of this nature, although apparently large, is not significant in the overall scope and should not, in itself, result in any noticeable disagreement between the two studies.

B. No significant vertical discrepancies in mapping ground control were found between the two studies. However, there is an apparent difference in aerial topography and digitized cross sections in the overlapping portions of the two studies. Cella-Barr cross section 69 averages about 4 or 5 feet lower in elevation than corresponding Stanley cross section 1. A comparison of contours and spot elevations indicates that mapping for the Cella-Barr study is anywhere from 1 to 5 feet lower than mapping used in the Stanley study. Check profiles of the Stanley topography indicate that it is well within required FEMA mapping accuracy standards.

C. Cella-Barr hydrology indicates a peak 100 year flow at the East/West Prong confluence of 23,200 cfs. The corresponding Stanley flow rate is 13,200 cfs. The difference is attributed primarily to methodology, assumptions and level of study detail. The Stanley FIS considers the Southern Pacific Railroad culverts and their affect on peak flow attenuation. It also includes percolation losses in hydrograph routing and uses soil texture classes in estimating rainfall losses, both of which result in lower peak flows. Probably the largest single reason for the difference in flow rates between the two studies is in the estimation of lag times. Stanley times are significantly longer per unit of flow length.

The USGS estimates a 100 year peak flow of 7,800 cfs for Waterman Wash at its confluence with the Gila River. This was done using their "Guidelines for Determining Flood Flow Frequency, Bulletin 17B", based on a gage record of 25 years. This is significantly lower than either the Stanley or Cella-Barr flow rates yet includes almost 200 square miles of additional contributing area from the lower watershed. Although the USGS acknowledges potential error in their estimate because of the record data base, their estimate is more in line with the lower peak flow of 13,200 cfs from the Stanley FIS.

D. Manning's roughness coefficients used by Cella-Barr in their delineation study are slightly lower than those used in the Stanley FIS. This in itself is not a significant difference.

The last (most upstream) eleven cross sections from the Cella-Barr delineation were run for comparison to the Stanley FIS using Stanley roughness coefficients and flow rate. An adjustment was made for the difference in cross section elevations at Cella-Barr cross section 69 and the resulting water surface was within 0.3 feet of the starting water surface elevation at cross section 1 of the Stanley FIS. We conclude that with the differences between the two studies neutralized, there is substantial agreement in both profile and floodplain limits between the Stanley FIS and Cella-Barr FIS.

An adjusted Cella-Barr water surface profile is shown on the Stanley water surface profile in Appendix E. The proposed match of floodplain and floodway limits between the two studies is shown on the preliminary work maps.

7.2 Dibble Study

State Highway 238 is a recently improved roadway just north of the Southern Pacific Railroad. A hydrology report was completed by Dibble and Associates in conjunction with a roadway improvement design completed in 1987. Because the study was intended to be used for roadway drainage improvements and the methodology used was different from a FIS Report, comparison of results of this study with the State Highway 238 study is not applicable. None of the recent improvements to State Highway 238 was considered to have an impact on Waterman Wash hydrology.

7.3 Flood Insurance Rate Map

The 100-year floodplain of Waterman Wash has been partially shown on the Flood Insurance Rate Map (FIRM) for Maricopa County, Map Number 04013C2950E, revision date September 4, 1991. The Cella-Barr detailed study is reflected on this map extending from the confluence of the East and West Prongs downstream. This reach has been designated flood insurance Zone AE and includes a floodway district.

The West Prong has been delineated with an approximate Zone A floodplain from the confluence with the East Prong upstream to the natural gas pipeline. No floodway district has been designated in this reach. The East Prong of Waterman Wash has no floodplain or floodway designated. The Stanley upper watershed FIS will supersede the approximate West Prong Zone A. Revised floodplain and floodway limits from the Stanley FIS have been illustrated on the FIRM 2950E exhibit in Appendix A.

BIBLIOGRAPHY

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2. "Soil Survey of Maricopa County, Arizona, Central Part", Soil Conservation Service, September 1977.

3. Soil Conservation Service; Casa Grande, Chandler and Buckeye field offices, unpublished soils mapping in project area.

4. "National Engineering Handbook, Section 4, Hydrology", Soil Conservation Service, March 1985.

5. Aerial Topography - Cooper Aerial of Phoenix, Photo date 8/23/89, Scale 1" = 400', Contour Interval 4'.

6. United States Department of the Interior, Geological Survey; 15 Minute Series Topographic Maps (Scale - 1:62,500). Antelope Peak, Estrella, Maricopa, Mobile.

7. United States Department of the Interior, Geological Survey; 7.5 Minute Series Topographic Maps (Scale - 1:24000). Butterfield Pass, Cotton Center SE, Enid, Mobile, Mobile NE, Mobile NW, Montezuma Peak.

8. "Guidelines for Determining Flood Flow Frequency", U.S. Geological Survey, Bulletin 17B, Revised September 1981.

9. "Basin Characteristics and Streamflow Statistics in Arizona as of 1989", U.S. Geological Survey, Water - Resources Investigations Report 91-4041.

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13. "Flood Insurance Study Guidelines and Specifications for Study Contractors", Federal Emergency Management Agency, Federal Insurance Administration, September 1985.

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15. "HEC-2 Water Surface Profiles", U.S. Army Corps of Engineers, Hydrologic Engineering Center, IBM-PC-XT version, August 1985.

16. Hydraulic Engineering Circular #10, "Capacity Charts for the Hydraulic Design of Highway Culverts", FHWA, 1978.

17. Hydraulic Engineering Circular #5, "Hydraulic Charts for the Selection of Highway Culverts", FHWA, 1965.

18. "Hydrologic Design for Highway Drainage in Arizona", Arizona Highway Department -Bridge Division, December 1968.

19. "Final Hydraulic Report" - Eastern 20 miles, Maricopa - Mobile - Gila Bend Highway, State Route 238, Project S-987-301", Dibble and Associates Consulting Engineers, May 1987.

20. "Hydrologic Analysis of Waterman Wash in Maricopa County, Arizona", Cella-Barr Associates, September 1988.

21. "Approximate Flood Insurance Study For Waterman Wash", Harris-Toups Engineers, January 1979.

22. Flood Insurance Rate Map, Maricopa County, Arizona and Incorporated Areas, Map Number 04013C2950E, Revision Date September 4, 1991.

23. "Open Channel Hydraulics", Ven Te Chow, 1959.

24. "Handbook of Concrete Culvert Pipe Hydraulics", Portland Cement Association, 1964.

ELEVATION REFERENCE MARKS

ERM 1	1146.64	U.S. Department of Interior, Geological Survey brass cap in 8 inch conduit pipe, flush with ground, stamped 9 DOR elevation 1147, dated 1973. Brass Cap is approximately 100' East of corner Sections 8, 9, 16, 17, T.3 S. - R.1 W. at Bullard Avenue, and Northwest of an angle point of a power line running to the West and Southeast.
ERM 2	1144.77	1/2 inch rebar in concrete, 0.2' above ground, approximately 39' Southwest of corner Sections 9, 10, 15, 16, T.3 S. - R. 1 W. ERM is 21' South and 29' West of the intersection of two barbed wire fences.
ERM 3	1157.64	Top of 3/4 inch pipe, 0.5' above ground, 42' East of centerline of unnamed dirt road 1/4 corner Sections 15 & 22, T.3 S. - R. 1 W.
ERM 4	1184.70	G.L.O. brass cap on 1 inch pipe, 1.15' above ground, 1/4 corner Sections 25 & 26 T.3 S. - R. 1 W. dated 1916.
ERM 5	1190.65	G.L.O. brass cap on 1 inch pipe, 0.8' above ground, 1/4 corner Sections 25 & 26, T. 3 S. - R. 1 W., dated 1916.
ERM 6	1203.71	G.L.O. brass cap on 3 inch pipe, 1.2' above ground, corner of Section 25 & 36 T. 3 S. - R. 1 W. and Sections 30 & 31, T. 3 S. - R. 1 E., dated 1914.
ERM 7	1220.17	G.L.O. brass cap on 1 inch pipe, 0.7' above ground, 1/4 corner Sections 31 &O 32, T. 3 S. - R. 1 E., dated 1916.
ERM 8	1228.81	G.L.O. brass cap on 1" pipe, 0.75' above ground, 1/4 corner Section 32, T. 3 S. - R. 1 E. and Section 5, T. 4 S. - R. 1 E., dated 1916.
ERM 9	1240.82	Chiseled 2 inch by 2 inch square on top of the northwest corner of the west wingwall of an abandoned concrete cattle guard structure. ERM is 8' Northeast of a G.L.O. brass cap, 2' below ground, corner Sections 4, 5, 8, 9 T. 4 S. - R. 1 E., being 15' East of the centerline of 99th Avenue.
ERM 10	1260.56	1/2 inch rebar in concrete, 0.2' above ground, approximately 245' South of 1/4 corner Sections 9 & 16, T. 4 S. - R. 1 E. ERM is also 15' South of the centerline of an unnamed dirt road and 4' North of a 7' mesquite tree.
ERM 11	1277.45	G.L.O. brass cap on 1 inch pipe, 0.9' above ground, 1/4 corner Sections 10 & 15, T. 4 S. - R. 1 E., dated 1916.

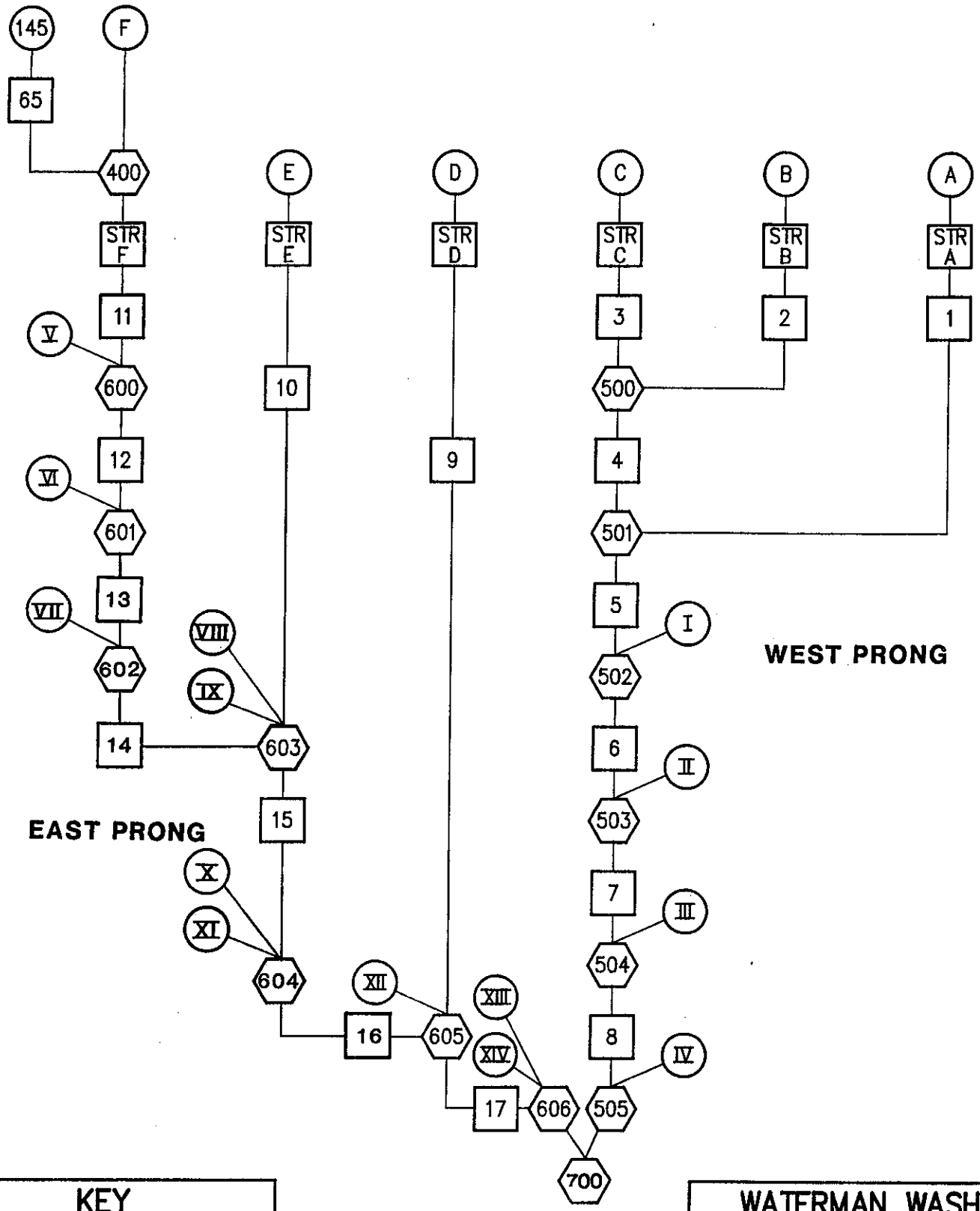
ERM 12	1284.72	War Department, Army Corps of Engineers brass cap set on top of a 6 inch diameter concrete pillar, 0.6' above ground. Brass cap is stamped benchmark A 30 1948. ERM is 1.3' South of a G.L.O. brass cap on 2" pipe, corner Sections 14, 15, 22, 23 T. 4 S. - R. 1 E.
ERM 13	1292.91	G.L.O. brass cap on 2 inch pipe, 1.1' above ground, corner Sections 13, 14, 23, 24 T. 4 S. - R. 1 E., dated 1916.
ERM 14	1287.49	War Department, Army Corps of Engineers brass cap on 6 inch diameter concrete pillar, 0.2' above ground. Brass cap is stamped benchmark C 30 1948. ERM is 91' North of the centerline of State Highway 238, 3' East of a barbed wire fence that marks the Maricopa-Pinal County line. ERM is also 136' South of a G.L.O. brass cap for the closing corner of Sections 13 &O 24, T. 4 S. - R. 1 E.
ERM 15	1301.21	U.S. Department of Interior Geological Survey benchmark brass cap set on top of a concrete post, 1.0' above ground. Brass cap is stamped WF 1948 1301, 1302 1939, with a metal witness post 2.2' East. ERM is 33' South of the Southern Pacific Railroad tracks at milepost 32.10 of State Highway 238, 1.2 miles East of Mobile Elementary School. ERM lies in the SW 1/4 of Section 22, T. 4 S. - R. 1 E.
ERM 16	1323.44	A.D.O.T. Highway Division aluminum cap in concrete, flush with ground, with a 3' high angle iron R.O.W. marker 2' to the East stenciled P.O.T. 1580 + 00. ERM is 45' South of the centerline of State Highway 238 at milepost 30.60, 900' West of Mobile Elementary School. ESRM lies in the Northeast 1/4 of Section 29, T. 4 S. - R. 1 E.
ERM 17	1350.40	U.S. Coast and Geodetic Survey benchmark brass cap set in the top of the NE corner of Southern Pacific Railroad bridge no. 882.91. Brass cap is stamped V 279 1948. ERM is 1.3 miles West of Mobile Elementary School at milepost 29.50 of State Highway 238. ERM lies in the East half of Section 30, T. 4 S. - R. 1 E.
ERM 18	1363.34	A.D.O.T. Highway Division aluminum cap in concrete, flush with ground, with a 3' high angle iron R.O.W. marker 2' to the East stenciled P.O.T. 1478 + 18.61. ERM is 45' South of the centerline of State Highway 238 at milepost 28.70; lying on the Gila and Salt River Meridian on the Section line of Sections 25 & 30, T. 4 S.
ERM 19	1382.25	G.L.O. brass cap on 2 inch pipe, 0.8' above ground, corner Sections 25, 26, 35, 36 T. 4 S. - R. 1 W., dated 1916.

ERM 20	1401.40	U.S. Coast and Geodetic Survey benchmark brass cap set in the bottom of a 1' deep drill hole, on the top of the NW corner of Southern Pacific Railroad bridge no. 880.29. Brass cap is stamped X 279 1948. ERM is 3.9 miles West of Mobile Elementary School at milepost 26.60 of State Highway 238. ERMl lies in the Northwest 1/4 Section 35, T. 4 S. - R. 1 W.
ERM 21	1416.97	A.D.O.T. Highway Division aluminum cap in concrete, flush with ground, with a 3' high angle iron R.O.W. marker 2' to the East stenciled PC 1330 + 97.75. Cap is also stamped PC 1330 + 97.75. ERM is 45' South of the centerline of State Highway 238, 350' West of milepost 26; lying in the SW 1/4 of Section 34, T. 4 S. - R. 1 W.
ERM 22	1430.95	A.D.O.T. Highway Division aluminum cap in concrete, flush with ground with a 3' angle iron R.O.W. marker 2' to the East stenciled P.O.C. 1258 + 41.28. ERM is at an angle point of an A.D.O.T. barbed wire fence that goes to the East and South, and is 40' South of the centerline of State Highway 238 at milepost 24.55; lying in the NW 1/4 of Section 4, T. 4 S. -R. 1 W.
ERM 23	1474.87	U.S. Department of Interior B.L.M. brass cap on 3 inch pipe, 0.3' above ground, corner Sections 5, 6, 7, 8 T. 4 S. - R. 1 W., dated 1970. ERML is 70' North of centerline of State Highway 238 (dirt) at milepost 23.35, and is 40' East of power pole no. 20.
ERM 24	1497.04	B.L.M. brass cap on 3 inch pipe 0.5' above ground, 1/4 corner Section 7, T. 4 S. - R. 1 W. and Section 12 T. 5 S. - R. 2 W., dated 1970. ERM is 105' North of centerline of State Highway 238 (dirt) at milepost 22.05.
ERM 25	1520.88	U.S. Coast and Geodetic Survey benchmark brass cap in 6 inch iron pipe, flush with ground, stamped G 360 1967,. ERM is 145' South of the centerline of State Highway 238 (dirt), 40' North of railroad tracks, approximately 2000' west of Estrella siding.
ERM 26	1390.56	G.L.O. brass cap on 2 inch pipe, 1.05' above ground, corner Sections 21, 22, 27, 28 T. 4 S. - R. 1 W., dated 1916.
ERM 27	1355.28	G.L.O. brass cap on 2 inch pipe, 1.6' above ground, corner Sections 21, 22, 27, 28 T. 4 S. - R. 1 W., dated 1916. ERM is 100' Est of unnamed dirt road.
ERM 28	1332.84	G.L.O. brass cap on 2 inch pipe, 1.1' above ground, corner Sections 15, 16, 21, 22 T. 4 S. - R. 2 W., dated 1916. ERM is approximately 320' West of the west bank of the West Prong of Waterman Wash.
ERM 29	1301.86	G.L.O. brass cap on 1 inch pipe, 0.75' above ground, 1/4 corner Sections 10 & 15, T. 4 S. - R. 1 W., dated 1916.

ERM 30	1268.96	G.L.O. brass cap on 2 inch pipe, 0.5' above ground, corner Sections 3, 4, 9, 10 T. 4 S. - R. 1 W., dated 1916.
ERM 31	1240.04	G.L.O. brass cap on 3 inch pipe, 0.5' above ground, corner Sections 33 and 34, T. 3 S. - R. 1 W. and Sections 3 and 4, T. 4 S. - R. 1 W., dated 1916. ERM is 20' South of the centerline of an unnamed dirt road, below a barbed wire fence.
ERM 32	1201.76	U.S. Department of Interior Geological Survey benchmark brass cap on top of a 9 inch diameter concrete pillar, 1.0' high. Brass cap is stamped 28 WF elevation 1202, dated 1948. ERM is approximately 1750' NW of 1/4 corner Sections 28 and 33, T. 3 S. - R. 1 W., and 40' SW of the centerline of a gas pipeline road. ERM is also 130' East of the centerline of the West Prong of Waterman Wash, and 12' West of a palo verde tree.
ERM 33	1183.87	U.S. Department of Interior Geological Survey brass cap in 8 inch conduit pipe, flush with ground, stamped 11 DOR elevation 1184, dated 1973. ERM is 70' Southwest of corner Sections 20, 21, 28, 29 T. 3 S. - R. 1 W. at the intersection of Bullard Avenue and an unnamed dirt road to the East.
ERM 34	1163.69	U.S. Department of Interior Geological Survey brass cap in 7 inch conduit pipe, flush with ground, stamped 10 DSOR 1973 elevation 1164. ERM is 21' North of a 6' railroad tie post, angle point of fence to the North and East, and Northeast of corner Sections 16, 17, 20, 21 T. 3 S. - R. 1 W. on Bullard Avenue.

APPENDIX B

HYDROLOGY SUMMARY AND HEC-1



KEY

- SUBBASIN
- COMBINED HYDROGRAPHS
- ROUTING

WATERMAN WASH

SCHEMATIC OF UPPER BASIN BASIN LOGIC USED IN HEC-1

FIGURE 2A

WATERMAN WASH FIS
UPPER WATERSHED

TABLE 1 - APPENDIX B

SUMMARY OF BASIC SUB-BASIN DATA

Drainage Sub-Basin	Drainage Area (Sq Mi)	Lag Time (Hrs)	Initial Rainfall Loss (Inches)	Uniform Rainfall Loss (In/Hr)	Percent Impervious
A	2.78	1.97	0.94	0.39	--
B	6.87	2.61	0.96	0.38	--
C	1.09	2.20	0.98	0.30	4
D	11.06	5.25	0.96	0.38	2
E	2.72	3.26	0.95	0.40	1
F	60.10	13.18	0.95	0.38	3
145	12.83	4.55	0.87	0.31	10
I	32.21	8.23	0.95	0.37	1
II	7.10	3.17	0.95	0.37	--
III	7.02	4.94	0.95	0.39	--
IV	10.54	9.11	0.95	0.39	--
V	2.45	2.58	0.95	0.40	--
VI	7.60	5.19	0.96	0.38	2
VII	4.08	5.40	0.95	0.40	1
VIII	10.07	3.94	0.97	0.36	5
IX	9.20	6.62	0.95	0.40	--
X	18.09	6.85	0.97	0.33	10
XI	4.78	4.62	0.96	0.39	2
XII	10.32	10.39	0.95	0.40	1
XIII	5.03	8.10	0.95	0.40	--
XIV	21.10	7.55	0.96	0.36	5

WATERMAN WASH FIS
UPPER WATERSHED

TABLE 2 - APPENDIX B

SUMMARY OF DISCHARGES

Flooding Source and Location	Drainage Area (Sq. Miles)	Peak Discharges (CFS 100-Year
Waterman Wash below confluence of East and West Prongs (downstream limit of detailed study)	247	13,200
Waterman Wash East Prong just upstream of confluence with West Prong	179	9,000
Waterman Wash East Prong at 115th Avenue alignment	116	4,500
Waterman Wash East Prong at 99th Avenue alignment	85	2,900
Waterman Wash East Prong at upstream limit of detailed study	60	2,700
Waterman Wash West Prong just upstream of confluence with East Prong	68	4,800
Waterman Wash West Prong at El Paso Natural Gas pipeline	53	4,000
Waterman Wash West Prong at upstream limit of detailed study	1	400

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1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*   RUN DATE  08/26/1991  TIME  15:14:22 *
*                                       *
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*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID
  2           ID        WATERMAN WASH HYDROLOGY - UPPER WATERSHED
  3           ID        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
  4           ID        STANLEY CONSULTANTS INC        JOB# 10512
  5           ID        FILE NAME IS 10512U        DATE: 08/24/91
  6           ID
  7           ID        100YR - 24HR RAINFALL FROM NOAA ATLAS 2   DEPTH = 4.40"
  8           ID        DEPTH - AREA RELATIONSHIP FROM NOAA TM NWS HYDRO-40
  9           ID        SCS DIMENSIONLESS UNIT HYDROGRAPH
 10           ID        INITIAL AND UNIFORM LOSS BASED ON SOIL TEXTURE
 11           ID        TC BASED ON UPLAND METHOD (SCS NEH SECT 4, CHAPT 15)
 12           ID        LAG TIME = 0.6 * TC
 13           ID        PERCOLATION LOSS INCORPORATED WITH ALL STORAGE ROUTING
 14           ID
              *DIAGRAM
 15           IT      10                    200
 16           IO       4
 17           IN      15
 18           JD     4.4     0.1
 19           PC       0   0.002   0.005   0.008   0.011   0.014   0.017   0.020   0.023   0.026
 20           PC   0.029   0.032   0.035   0.038   0.041   0.044   0.048   0.052   0.056   0.060
 21           PC   0.064   0.068   0.072   0.076   0.080   0.085   0.090   0.095   0.100   0.105
 22           PC   0.110   0.115   0.120   0.126   0.133   0.140   0.147   0.155   0.163   0.172
 23           PC   0.181   0.191   0.203   0.218   0.236   0.257   0.283   0.387   0.663   0.707
 24           PC   0.735   0.758   0.776   0.791   0.804   0.815   0.825   0.834   0.842   0.849
 25           PC   0.856   0.863   0.869   0.875   0.881   0.887   0.893   0.898   0.903   0.908
 26           PC   0.913   0.918   0.922   0.926   0.930   0.934   0.938   0.942   0.946   0.950
 27           PC   0.953   0.956   0.959   0.962   0.965   0.968   0.971   0.974   0.977   0.980
 28           PC   0.983   0.986   0.989   0.992   0.995   0.998   1.000
 29           JD    4.18      10
 30           JD    3.85      50
 31           JD    3.74     100
 32           JD    3.61     200
 33           JD    3.54     300
 34           JD    3.50     400
 35           JD    3.45     500

 36           KK   SUB A   RUNOFF FROM SUB-BASIN A
 37           BA    2.78
 38           LU    0.94    0.39
 39           UD    1.97
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 40          KK   STR A  ROUTE HYDROGRAPH SUB A THROUGH STRUCTURE A
 41          RS       2    STOR      -1
 42          RL                      10
 43          SA       0     8.5      17     25.5     34.1     42.6     51.1     59.6
 44          SE       0       1       2        3        4        5        6        7
 45          SQ       0     138     422      638      933     1218     1497     1846

 46          KK   RCH 1  ROUTE HYDROGRAPH STR A THROUGH REACH 1
 47          RS       9    FLOW      -1
 48          RL                      10
 49          RC    .070   0.035    .070    26000   0.0061
 50          RX     100     101     190      195      205      210      299      300
 51          RY      20      12      12       10       10       12       12       20
1                                          HEC-1 INPUT                                                    PAGE  2

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 52          KK   SUB B  RUNOFF FROM SUB-BASIN B
 53          BA    6.87
 54          LU    0.96    0.38
 55          UD    2.61

 56          KK   STR B  ROUTE HYDROGRAPH SUB B THROUGH STRUCTURE B
 57          RS       2    STOR      -1
 58          RL                      10
 59          SA       0    17.3    34.6     51.9     69.3     86.6    103.9    121.2
 60          SE       0       1       2        3        4        5        6        7
 61          SQ       0     290     766     1296     1756     2241     2723     3151

 62          KK   RCH 2  ROUTE HYDROGRAPH STR B THROUGH REACH 2
 63          RS       4    FLOW      -1
 64          RL                      10
 65          RC    .070   0.035    .070    11400   0.0063
 66          RX     100     101     190      195      205      210      299      300
 67          RY      20      12      12       10       10       12       12       20

 68          KK   SUB C  RUNOFF FROM SUB-BASIN C
 69          BA    1.09
 70          LU    0.98    0.30       4
 71          UD    2.20

 72          KK   STR C  ROUTE HYDROGRAPH SUB C THROUGH STRUCTURE C
 73          RS       1    STOR      -1
 74          RL                      10
 75          SA       0     0.6     1.1      1.7      2.3      2.9      3.4        4
 76          SE       0       1       2        3        4        5        6        7
 77          SQ       0      98     300      481      684      887     1078     1293

 78          KK   RCH 3  ROUTE HYDROGRAPH STR C THROUGH REACH 3
 79          RS       3    FLOW      -1
 80          RL                      10
 81          RC    .070   0.035    .070     6510   0.0061
 82          RX     100     101     190      195      205      210      299      300
 83          RY      20      12      12       10       10       12       12       20

 84          KK   CP500  COMBINE HYDROGRAPHS REACH 2 & REACH 3
 85          HC

 86          KK   RCH 4  ROUTE COMBINED HYDROGRAPH THROUGH REACH 4
 87          RS       3    FLOW      -1
 88          RL                      10
 89          RC    .070   0.035    .070     6510   0.0058
 90          RX     100     101     190      195      205      210      299      300
 91          RY      20      12      12       10       10       12       12       20

 92          KK   CP501  COMBINE HYDROGRAPHS REACH 1 & REACH 4
 93          HC
1                                          HEC-1 INPUT                                                    PAGE  3

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 94          KK   RCH 5  ROUTE HYDROGRAPH CP501 THROUGH REACH 5
 95          RS       3    STOR      -1
 96          RL                      10
 97          RC    .055    .045    .055     8500    .004
 98          RX       0     580     921      936     1012     1025     1554     2381
 99          RY  1336.5  1333.8  1330.9   1325.1   1326.6   1329.9   1333.4   1335.9
```

```
100          KK   SUB I  RUNOFF FROM SUB-BASIN I
101          BA   32.21
102          LU    0.95    0.37       1
103          UD    8.23

104          KK   CP502  COMBINE HYDROGRAPHS REACH 5 & SUB I
105          HC

106          KK   RCH 6  ROUTE HYDROGRAPH CP502 THROUGH REACH 6
107          RS       6    FLOW      -1
108          RL                      10
109          RC    .055   0.045    .055   17000   0.006
110          RX       0    1804    2973    2985    3043    3060    3096    3218
111          RY  1263.5  1262.2  1258.5  1256.3  1256.3  1260.7  1262.6  1262.9

112          KK  SUB II  RUNOFF FROM SUB-BASIN II
113          BA    7.10
114          LU    0.95    0.37
115          UD    3.17

116          KK   CP503  COMBINE HYDROGRAPHS REACH 6 & SUB II
117          HC

118          KK   RCH 7  ROUTE HYDROGRAPH 503 THROUGH REACH 7
119          RS       3    FLOW      -1
120          RL                      10
121          RC    .055   0.045    .055    9000   0.004
122          RX       0     711     922     940     999    1016    1293    1738
123          RY  1195.3  1193.4  1192.3  1187.8  1186.9  1192.1  1193.2  1195.3

124          KK  SUBIII  RUNOFF FROM SUB-BASIN III
125          BA    7.02
126          LU    0.95    0.39
127          UD    4.94

128          KK   CP504  COMBINE HYDROGRAPHS REACH 7 & SUB III
129          HC

130          KK   RCH 8  ROUTE HYDROGRAPH CP504 THROUGH REACH 8
131          RS       4    FLOW      -1
132          RL                      10
133          RC    .055    .045    .055    9500   0.004
134          RX       0     700     736     760     879     921    1012    2810
135          RY  1160.5  1160.6  1160.1  1156.2  1156.6  1159.0  1161.0  1160.0
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

136          KK   SUBIV  RUNOFF FROM SUB-BASIN IV
137          BA   10.54
138          LU    0.95    0.39
139          UD    9.11

140          KK   CP505  COMBINE HYDROGRAPHS REACH 8 & SUB IV
141          HC

142          KK   SUB D  RUNOFF FROM SUB-BASIN D
143          BA   11.06
144          LU    0.96    0.38       2
145          UD    5.25

146          KK   STR D  ROUTE HYDROGRAPH SUB-D THROUGH STRUCTURE D
147          RS       2    STOR      -1
148          RL                      10
149          SA       0    11.1    22.2    33.3    44.5    55.6    66.7    77.8
150          SE       0       1       2       3       4       5       6       7
151          SQ       0     202     578    1025    1513    1988    2474    2816

152          KK   RCH 9  ROUTE HYDROGRAPH STR D THROUGH REACH 9
153          RS      16    FLOW      -1
154          RL                      10
155          RC    .070   0.035    .070   45200  0.0051
156          RX     100     101     190     195     205     210     299     300
157          RY      20      12      12      10      10      12      12      20

158          KK  SUB145  RUNOFF FROM SUB-BASIN 145
159          BA   12.83
160          LU    0.87    0.31      10
161          UD    4.55
```

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162          KK   RCH65  ROUTE HYDROGRAPH SUB145 THROUGH REACH 65
163          RS      11    FLOW      -1
164          RL                      10
165          RC    .070   0.035    .070   32600  0.0071
166          RX     100     101     190     195     205     210     299     300
167          RY      20      12      12      10      10      12      12      20

168          KK   SUB F  RUNOFF FROM SUB-BASIN F
169          BA    60.1
170          LU    0.95     .38       3
171          UD   13.18

172          KK   CP400  COMBINE HYDROGRAPHS SUBF AND RCH65
173          HC

174          KK   STR F  ROUTE HYDROGRAPH  CP400 THROUGH STRUCTURE F
175          RS       1    STOR      -1
176          RL                      10
177          SA       0    46.2    92.3   138.5   184.7   230.9     277   323.2
178          SE       0       1       2       3       4       5       6     7.0
179          SQ       0     675    1967    3362    4898    6353    7861    8615
1                                          HEC-1 INPUT                                                    PAGE  5

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


180          KK   RCH11  ROUTE HYDROGRAPH STR F THROUGH REACH 11
181          RS       5    FLOW      -1
182          RL                      10
183          RC    .070   0.035    .070   12400  0.0050
184          RX     100     101     190     195     205     210     299     300
185          RY      20      12      12      10      10      12      12      20

186          KK   SUB V  RUNOFF FROM SUB-BASIN V
187          BA    2.45
188          LU    0.95    0.40
189          UD    2.58

190          KK   CP600  COMBINE HYDROGRAPHS SUB V & RCH11
191          HC

192          KK   RCH12  ROUTE HYDROGRAPH CP600 THROUGH REACH 12
193          RS       2    FLOW      -1
194          RL                      10
195          RC    .055   0.045    .055    5400   0.003
196          RX       0     754    1102    1112    1126    1138    1342    2306
197          RY  1253.5  1249.5  1248.4  1244.0  1244.1  1247.8  1249.8  1255.0

198          KK   SUBVI  RUNOFF FROM SUB-BASIN VI
199          BA    7.60
200          LU    0.96    0.38       2
201          UD    5.19

202          KK   CP601  COMBINE HYDROGRAPHS RCH12 & SUB VI
203          HC

204          KK   RCH13  ROUTE HYDROGRAPH CP601 THROUGH REACH 13
205          RS       1    FLOW      -1
206          RL                      10
207          RC    .055   0.045    .055    2000   0.003
208          RX       0     459     960     976    1014    1025    1374    2432
209          RY  1241.6  1238.9  1237.7  1233.3  1233.6  1236.7  1237.9  1241.8

210          KK  SUBVII  RUNOFF FROM SUB-BASIN VII
211          BA    4.08
212          LU    0.95    0.40       1
213          UD     5.4

214          KK   CP602  COMBINE HYDROGRAPHS RCH13 & 601 & SUB VII
215          HC

216          KK   RCH14  ROUTE HYDROGRAPH CP602 THROUGH REACH 14
217          RS       4    FLOW      -1
218          RL                      10
219          RC    .055   0.045    .055   11100   0.003
220          RX       0    1194    1486    1503    1526    1532    1791    2510
221          RY  1220.3  1216.8  1215.5  1211.9  1211.8  1217.3  1217.4  1220.3
1                                          HEC-1 INPUT                                                    PAGE  6
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 222          KK  SBVIII  RUNOFF FROM SUB-BASIN VIII
 223          BA   10.07
 224          LU    0.97    0.36       5
 225          UD    3.94

 226          KK   SUBIX   RUNOFF FROM SUB-BASIN IX
 227          BA    9.20
 228          LU    0.95    0.40
 229          UD    6.62

 230          KK   SUB E  RUNOFF FROM SUB-BASIN E
 231          BA    2.72
 232          LU    0.95    0.40       1
 233          UD    3.26

 234          KK   STR E  ROUTE HYDROGRAPH SUB-E THROUGH STRUCTURE E
 235          RS       1    STOR      -1
 236          RL                      10
 237          SA       0     7.6    15.3    22.9    30.6    38.2    45.9    53.5
 238          SE       0       1       2       3       4       5       6       7
 239          SQ       0     243     740    1154    1622    2067    2472    2766

 240          KK   RCH10  ROUTE HYDROGRAPH STR E THROUGH REACH 10
 241          RS       8    FLOW      -1
 242          RL                      10
 243          RC    .070   0.035    .070   21500  0.0056
 244          RX     100     101     190     195     205     210     299     300
 245          RY      20      12      12      10      10      12      12      20

 246          KK   CP603  COMBINE HYDROGRAPHS RCH14 & SUB VIII & SUB IX & RCH10
 247          HC       4

 248          KK   RCH15  ROUTE HYDROGRAPH CP603 THROUGH REACH 15
 249          RS       4    FLOW      -1
 250          RL                      10
 251          RC    .055   0.045    .055   10400   0.003
 252          RX       0     227    1232    1239    1255    1266    1799    2061
 253          RY  1200.1  1195.8  1194.7  1189.5  1189.5  1194.4  1196.9  1198.3

 254          KK   SUB X  RUNOFF FROM SUB-BASIN X
 255          BA   18.09
 256          LU    0.97    0.33      10
 257          UD    6.85

 258          KK   SUBXI  RUNOFF FROM SUB-BASIN XI
 259          BA    4.78
 260          LU    0.96    0.39       2
 261          UD    4.62
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 262          KK   CP604  COMBINE HYDROGRAPHS RCH15 & SUB X & SUB XI
 263          HC       3

 264          KK   RCH16  ROUTE HYDROGRAPH CP604 THROUGH REACH 16
 265          RS       3    FLOW      -1
 266          RL                      10
 267          RC    .055   0.045    .055    8200   0.003
 268          RX       0     478     966     976     994    1006    1381    1907
 269          RY  1181.2  1175.1  1173.3  1165.7  1165.7  1172.4  1175.8  1180.7

 270          KK  SUBXII  RUNOFF FROM SUB-BASIN XII
 271          BA   10.32
 272          LU    0.95    0.40       1
 273          UD   10.39

 274          KK   CP605  COMBINE HYDROGRAPHS RCH16 & SUB XII & RCH9
 275          HC       3

 276          KK   RCH17  ROUTE HYDROGRAPH CP605 THROUGH REACH 17
 277          RS       4    FLOW      -1
 278          RL                      10
 279          RC    .055   0.045    .055    9800   0.003
 280          RX       0    1401    1617    1637    1662    1694    1720    2801
 281          RY  1159.7  1153.3  1153.8  1147.1  1147.1  1151.8  1153.1  1158.6
```

```
282          KK  SBXIII  RUNOFF FROM SUB-BASIN XIII
283          BA    5.03
284          LU    0.95    0.40
285          UD    8.10

286          KK  SUBXIV  RUNOFF FROM SUB-BASIN XIV
287          BA   21.10
288          LU    0.96    0.36       5
289          UD    7.55

290          KK   CP606  COMBINE HYDROGRAPHS RCH17 & SUB XIII & SUB IV
291          HC       3

292          KK   CP700  COMBINE HYDROGRAPHS CP606 & CP505
293          HC
294          ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   36      SUB A
               V
               V
   40      STR A
               V
               V
   46      RCH 1
               .
               .
   52          .       SUB B
               .           V
               .           V
   56          .       STR B
               .           V
               .           V
   62          .       RCH 2
               .           .
               .           .
   68          .           .       SUB C
               .           .           V
               .           .           V
   72          .           .       STR C
               .           .           V
               .           .           V
   78          .           .       RCH 3
               .           .           .
               .           .           .
   84          .       CP500............
               .           V
               .           V
   86          .       RCH 4
               .           .
               .           .
   92      CP501............
               V
               V
   94      RCH 5
               .
               .
  100          .       SUB I
               .           .
               .           .
  104      CP502............
               V
               V
  106      RCH 6
               .
               .
  112          .      SUB II
               .           .
               .           .
  116      CP503............
               V
               V
  118      RCH 7
               .
```

```
124          .      SUBIII
             .          .
             .          .
128     CP504............
            V
            V
130     RCH 8
             .
             .
136          .      SUBIV
             .          .
             .          .
140     CP505............
             .
             .
142          .      SUB D
             .          V
             .          V
146          .      STR D
             .          V
             .          V
152          .      RCH 9
             .          .
             .          .
158          .          .     SUB145
             .          .         V
             .          .         V
162          .          .      RCH65
             .          .         .
             .          .         .
168          .          .         .      SUB F
             .          .         .          .
             .          .         .          .
172          .          .      CP400............
             .          .         V
             .          .         V
174          .          .      STR F
             .          .         V
             .          .         V
180          .          .      RCH11
             .          .         .
             .          .         .
186          .          .         .      SUB V
             .          .         .          .
             .          .         .          .
190          .          .      CP600............
             .          .         V
             .          .         V
192          .          .      RCH12
             .          .         .
             .          .         .
198          .          .         .      SUBVI
             .          .         .          .
             .          .         .          .
202          .          .      CP601............
             .          .         V
             .          .         V
204          .          .      RCH13
             .          .         .
             .          .         .
210          .          .         .     SUBVII
             .          .         .          .
             .          .         .          .
214          .          .      CP602............
             .          .         V
             .          .         V
216          .          .      RCH14
             .          .         .
             .          .         .
222          .          .         .     SBVIII
             .          .         .          .
             .          .         .          .
226          .          .         .          .      SUBIX
             .          .         .          .          .
             .          .         .          .          .
230          .          .         .          .          .      SUB E
             .          .         .          .          .          V
             .          .         .          .          .          V
234          .          .         .          .          .      STR E
```

```
                .         .         .         .         .         V
                .         .         .         .         .         V
  240           .         .         .         .         .      RCH10
                .         .         .         .         .         .
                .         .         .         .         .         .
  246           .         .      CP603.................................
                .         .         V
                .         .         V
  248           .         .      RCH15
                .         .         .
                .         .         .
  254           .         .         .      SUB X
                .         .         .         .
                .         .         .         .
  258           .         .         .         .      SUBXI
                .         .         .         .         .
                .         .         .         .         .
  262           .         .      CP604......................
                .         .         V
                .         .         V
  264           .         .      RCH16
                .         .         .
                .         .         .
  270           .         .         .     SUBXII
                .         .         .         .
                .         .         .         .
  274           .      CP605......................
                .         V
                .         V
  276           .      RCH17
                .         .
                .         .
  282           .         .     SBXIII
                .         .         .
                .         .         .
  286           .         .         .     SUBXIV
                .         .         .         .
                .         .         .         .
  290           .      CP606......................
                .         .
                .         .
  292       CP700............
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*          SEPTEMBER 1990              *
*           VERSION 4.0                *
*                                      *
*  RUN DATE  08/26/1991  TIME  15:14:22 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*   U.S. ARMY CORPS OF ENGINEERS       *
*   HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET            *
*      DAVIS, CALIFORNIA 95616         *
*          (916) 756-1104              *
*                                      *
****************************************
```

```
WATERMAN WASH HYDROLOGY - UPPER WATERSHED
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
STANLEY CONSULTANTS INC        JOB# 10512
FILE NAME IS 10512U        DATE: 08/24/91

100YR - 24HR RAINFALL FROM NOAA ATLAS 2   DEPTH = 4.40"
DEPTH - AREA RELATIONSHIP FROM NOAA TM NWS HYDRO-40
SCS DIMENSIONLESS UNIT HYDROGRAPH
INITIAL AND UNIFORM LOSS BASED ON SOIL TEXTURE
TC BASED ON UPLAND METHOD (SCS NEH SECT 4, CHAPT 15)
LAG TIME = 0.6 * TC
PERCOLATION LOSS INCORPORATED WITH ALL STORAGE ROUTING
```

```
 16 IO        OUTPUT CONTROL VARIABLES
                   IPRNT          4  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

 17 IN        TIME DATA FOR INPUT TIME SERIES
                   JXMIN         15  TIME INTERVAL IN MINUTES
```

```
                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

IT          HYDROGRAPH TIME DATA
                 NMIN          10  MINUTES IN COMPUTATION INTERVAL
                IDATE      1    0  STARTING DATE
                ITIME       0000  STARTING TIME
                   NQ        200  NUMBER OF HYDROGRAPH ORDINATES
               NDDATE      2    0  ENDING DATE
               NDTIME       0910  ENDING TIME
               ICENT          19  CENTURY MARK

          COMPUTATION INTERVAL     .17 HOURS
               TOTAL TIME BASE   33.17 HOURS

     ENGLISH UNITS
          DRAINAGE AREA          SQUARE MILES
          PRECIPITATION DEPTH    INCHES
          LENGTH, ELEVATION      FEET
          FLOW                   CUBIC FEET PER SECOND
          STORAGE VOLUME         ACRE-FEET
          SURFACE AREA           ACRES
          TEMPERATURE            DEGREES FAHRENHEIT

18 JD       INDEX STORM NO. 1
                 STRM        4.40  PRECIPITATION DEPTH
                 TRDA         .10  TRANSPOSITION DRAINAGE AREA

19 PI         PRECIPITATION PATTERN
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .01      .01      .01      .01      .01      .01
              .01      .01      .01      .01      .01      .01      .01      .02      .02      .07
              .13      .18      .03      .02      .02      .02      .01      .01      .01      .01
              .01      .01      .01      .01      .01      .01      .01      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00

29 JD       INDEX STORM NO. 2
                 STRM        4.18  PRECIPITATION DEPTH
                 TRDA       10.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .01      .01      .01      .01      .01      .01
              .01      .01      .01      .01      .01      .01      .01      .02      .02      .07
              .13      .18      .03      .02      .02      .02      .01      .01      .01      .01
              .01      .01      .01      .01      .01      .01      .01      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00

30 JD       INDEX STORM NO. 3
                 STRM        3.85  PRECIPITATION DEPTH
                 TRDA       50.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
              .00      .00      .00      .00      .01      .01      .01      .01      .01      .01
              .01      .01      .01      .01      .01      .01      .01      .02      .02      .07
              .13      .18      .03      .02      .02      .02      .01      .01      .01      .01
              .01      .01      .01      .01      .01      .01      .01      .00      .00      .00
```

```
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00

31 JD         INDEX STORM NO. 4
                STRM        3.74  PRECIPITATION DEPTH
                TRDA      100.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .02       .02       .07
                .13       .18       .03       .02       .02       .02       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00

32 JD         INDEX STORM NO. 5
                STRM        3.61  PRECIPITATION DEPTH
                TRDA      200.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .02       .02       .07
                .13       .18       .03       .02       .02       .02       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00

33 JD         INDEX STORM NO. 6
                STRM        3.54  PRECIPITATION DEPTH
                TRDA      300.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .02       .02       .07
                .13       .18       .03       .02       .02       .02       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00

34 JD         INDEX STORM NO. 7
                STRM        3.50  PRECIPITATION DEPTH
                TRDA      400.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00      .00      .00      .00      .01      .01      .01      .01      .01      .01
                .01      .01      .01      .01      .01      .01      .01      .02      .02      .07
                .13      .18      .03      .02      .02      .02      .01      .01      .01      .01
                .01      .01      .01      .01      .01      .01      .01      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00

 35 JD        INDEX STORM NO. 8
                STRM        3.45  PRECIPITATION DEPTH
                TRDA      500.00  TRANSPOSITION DRAINAGE AREA

  0 PI         PRECIPITATION PATTERN
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .01      .01      .01      .01      .01      .01
                .01      .01      .01      .01      .01      .01      .01      .02      .02      .07
                .13      .18      .03      .02      .02      .02      .01      .01      .01      .01
                .01      .01      .01      .01      .01      .01      .01      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00

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          *            *
 36 KK    *    SUB A   *        RUNOFF FROM SUB-BASIN A
          *            *
          **************

            SUBBASIN RUNOFF DATA

 37 BA        SUBBASIN CHARACTERISTICS
                TAREA        2.78  SUBBASIN AREA

 38 LU        UNIFORM LOSS RATE
                STRTL         .94  INITIAL LOSS
                CNSTL         .39  UNIFORM LOSS RATE
                RTIMP         .00  PERCENT IMPERVIOUS AREA

 39 UD        SCS DIMENSIONLESS UNITGRAPH
                TLAG        1.97  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         61 END-OF-PERIOD ORDINATES
            16.      48.      91.     144.     209.     294.     392.     483.     558.     613.
           645.     653.     651.     633.     600.     563.     521.     470.     412.     351.
           299.     262.     229.     200.     176.     157.     137.     121.     105.      92.
            81.      70.      62.      54.      47.      42.      36.      32.      28.      24.
            22.      19.      17.      14.      13.      11.      10.       9.       7.       7.
             6.       5.       5.       4.       4.       3.       2.       2.       1.       1.
             0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 KK       *    STR A   *        ROUTE HYDROGRAPH SUB A THROUGH STRUCTURE A
          *            *
          **************

            HYDROGRAPH ROUTING DATA
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 42 RL          ROUTING LOSSES
                     QLOSS        .00  INITIAL LOSS
                     CLOSS        .00  ADDITIONAL FRACTION LOST
                    PERCRT      10.00  CHANNEL PERCOLATION RATE
                    ELVINV        .00  INVERT ELEVATION

 41 RS          STORAGE ROUTING
                     NSTPS          2  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

 42 SA              AREA         .0      8.5      17.0      25.5      34.1      42.6      51.1      59.6

 44 SE          ELEVATION       .00     1.00      2.00      3.00      4.00      5.00      6.00      7.00

 45 SQ          DISCHARGE        0.     138.      422.      638.      933.     1218.     1497.     1846.
                                                           ***

                                                COMPUTED STORAGE-ELEVATION DATA

          STORAGE        .00     2.83     15.34     36.45     66.14    104.41    151.20    206.50
        ELEVATION        .00     1.00      2.00      3.00      4.00      5.00      6.00      7.00


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 46 KK    *     RCH 1  *       ROUTE HYDROGRAPH STR A THROUGH REACH 1
          *            *
          **************

             HYDROGRAPH ROUTING DATA

 48 RL          ROUTING LOSSES
                     QLOSS        .00  INITIAL LOSS
                     CLOSS        .00  ADDITIONAL FRACTION LOST
                    PERCRT      10.00  CHANNEL PERCOLATION RATE
                    ELVINV        .00  INVERT ELEVATION

 47 RS          STORAGE ROUTING
                     NSTPS          9  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

 49 RC          NORMAL DEPTH CHANNEL
                       ANL       .070  LEFT OVERBANK N-VALUE
                      ANCH       .035  MAIN CHANNEL N-VALUE
                       ANR       .070  RIGHT OVERBANK N-VALUE
                     RLNTH     26000.  REACH LENGTH
                       SEL      .0061  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                          CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 51 RY       ELEVATION     20.00     12.00     12.00     10.00     10.00     12.00     12.00     20.00
 50 RX       DISTANCE     100.00    101.00    190.00    195.00    205.00    210.00    299.00    300.00
                                                           ***

                                          COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      3.55      7.94     13.14     30.35     92.58    154.85    217.16    279.51    341.91
          OUTFLOW        .00     11.87     39.63     82.23    149.65    365.96    705.76   1144.95   1671.38   2277.02
        ELEVATION      10.00     10.53     11.05     11.58     12.11     12.63     13.16     13.68     14.21     14.74

          STORAGE     404.35    466.82    529.34    591.90    654.51    717.15    779.83    842.56    905.33    968.14
          OUTFLOW    2955.93   3703.39   4515.57   5389.20   6321.46   7309.89   8352.30   9446.70  10591.32  11784.53
        ELEVATION      15.26     15.79     16.32     16.84     17.37     17.89     18.42     18.95     19.47     20.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     7310. TO    11785.
               THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
               THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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              *            *
52 KK         *    SUB B   *      RUNOFF FROM SUB-BASIN B
              *            *
              **************

                 SUBBASIN RUNOFF DATA

53 BA              SUBBASIN CHARACTERISTICS
                        TAREA        6.87  SUBBASIN AREA

54 LU              UNIFORM LOSS RATE
                        STRTL         .96  INITIAL LOSS
                        CNSTL         .38  UNIFORM LOSS RATE
                        RTIMP         .00  PERCENT IMPERVIOUS AREA

55 UD              SCS DIMENSIONLESS UNITGRAPH
                         TLAG        2.61  LAG
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UNIT HYDROGRAPH
80 END-OF-PERIOD ORDINATES

23.	57.	111.	176.	248.	340.	447.	569.	712.	850.
972.	1068.	1149.	1195.	1223.	1231.	1226.	1210.	1164.	1114.
1060.	999.	932.	856.	768.	679.	603.	539.	485.	439.
395.	357.	326.	298.	270.	245.	222.	199.	178.	163.
147.	132.	121.	109.	98.	89.	80.	72.	65.	59.
53.	48.	44.	40.	36.	33.	29.	26.	24.	22.
19.	18.	16.	15.	13.	12.	11.	10.	10.	9.
8.	7.	6.	5.	4.	4.	3.	2.	1.	1.

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              **************
              *            *
56 KK         *    STR B   *      ROUTE HYDROGRAPH SUB B THROUGH STRUCTURE B
              *            *
              **************

                 HYDROGRAPH ROUTING DATA

58 RL              ROUTING LOSSES
                        QLOSS         .00  INITIAL LOSS
                        CLOSS         .00  ADDITIONAL FRACTION LOST
                       PERCRT       10.00  CHANNEL PERCOLATION RATE
                       ELVINV         .00  INVERT ELEVATION

57 RS              STORAGE ROUTING
                        NSTPS           2  NUMBER OF SUBREACHES
                         ITYP        STOR  TYPE OF INITIAL CONDITION
                       RSVRIC       -1.00  INITIAL CONDITION
                            X         .00 WORKING R AND D COEFFICIENT

58 SA                   AREA          .0      17.3      34.6      51.9      69.3      86.6     103.9     121.2

60 SE              ELEVATION         .00      1.00      2.00      3.00      4.00      5.00      6.00      7.00

61 SQ              DISCHARGE          0.      290.      766.     1296.     1756.     2241.     2723.     3151.
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***

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	5.77	31.22	74.18	134.57	212.36	307.48	419.92
ELEVATION	.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00

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          *            *
 62 KK    *    RCH 2   *       ROUTE HYDROGRAPH STR B THROUGH REACH 2
          *            *
          **************

             HYDROGRAPH ROUTING DATA

 64 RL          ROUTING LOSSES
                     QLOSS        .00  INITIAL LOSS
                     CLOSS        .00  ADDITIONAL FRACTION LOST
                    PERCRT      10.00  CHANNEL PERCOLATION RATE
                    ELVINV        .00  INVERT ELEVATION

 63 RS          STORAGE ROUTING
                     NSTPS          4  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

 65 RC          NORMAL DEPTH CHANNEL
                       ANL       .070  LEFT OVERBANK N-VALUE
                      ANCH       .035  MAIN CHANNEL N-VALUE
                       ANR       .070  RIGHT OVERBANK N-VALUE
                     RLNTH      11400.  REACH LENGTH
                       SEL      .0063  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                      CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 67 RY       ELEVATION    20.00    12.00    12.00    10.00    10.00    12.00    12.00    20.00
 66 RX       DISTANCE    100.00   101.00   190.00   195.00   205.00   210.00   299.00   300.00

                                                   ***

                                          COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00     1.56     3.48     5.76    13.31    40.59    67.90    95.22   122.56   149.91
          OUTFLOW        .00    12.06    40.27    83.57   152.08   371.91   717.24  1163.56  1698.56  2314.05
        ELEVATION      10.00    10.53    11.05    11.58    12.11    12.63    13.16    13.68    14.21    14.74

          STORAGE     177.29   204.68   232.10   259.53   286.98   314.44   341.93   369.43   396.95   424.49
          OUTFLOW    3003.99  3763.62  4589.00  5476.83  6424.25  7428.76  8488.11  9600.32 10763.55 11976.16
        ELEVATION      15.26    15.79    16.32    16.84    17.37    17.89    18.42    18.95    19.47    20.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     6424. TO    11976.
               THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
               THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)


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          **************
          *            *
 68 KK    *    SUB C   *       RUNOFF FROM SUB-BASIN C
          *            *
          **************

             SUBBASIN RUNOFF DATA

 69 BA          SUBBASIN CHARACTERISTICS
                     TAREA       1.09  SUBBASIN AREA

 70 LU          UNIFORM LOSS RATE
                     STRTL        .98  INITIAL LOSS
                     CNSTL        .30  UNIFORM LOSS RATE
                     RTIMP       4.00  PERCENT IMPERVIOUS AREA

 71 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG       2.20  LAG

                                                   ***

                                              UNIT HYDROGRAPH
                                          68 END-OF-PERIOD ORDINATES
             5.      14.      27.      42.      62.      85.     113.     145.     173.     197.
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215.    225.    229.    230.    228.    219.    208.    196.    182.    166.
148.    128.    111.    98.     86.     76.     68.     61.     55.     49.
43.     38.     33.     30.     27.     24.     21.     19.     17.     15.
13.     12.     10.     9.      8.      7.      6.      6.      5.      4.
4.      3.      3.      3.      2.      2.      2.      2.      2.      1.
1.      1.      1.      1.      1.      0.      0.      0.
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              **************
              *            *
72 KK         *    STR C   *      ROUTE HYDROGRAPH SUB C THROUGH STRUCTURE C
              *            *
              **************

                 HYDROGRAPH ROUTING DATA

74 RL              ROUTING LOSSES
                        QLOSS        .00  INITIAL LOSS
                        CLOSS        .00  ADDITIONAL FRACTION LOST
                       PERCRT      10.00  CHANNEL PERCOLATION RATE
                       ELVINV        .00  INVERT ELEVATION

73 RS              STORAGE ROUTING
                        NSTPS          1  NUMBER OF SUBREACHES
                         ITYP       STOR  TYPE OF INITIAL CONDITION
                       RSVRIC      -1.00  INITIAL CONDITION
                            X        .00 WORKING R AND D COEFFICIENT

74 SA                   AREA         .0       .6      1.1      1.7      2.3      2.9      3.4      4.0

76 SE              ELEVATION        .00     1.00     2.00     3.00     4.00     5.00     6.00     7.00

77 SQ              DISCHARGE         0.      98.     300.     481.     684.     887.    1078.    1293.
                                                              ***

                                                COMPUTED STORAGE-ELEVATION DATA

              STORAGE        .00      .20     1.04     2.43     4.42     7.01    10.16    13.86
            ELEVATION        .00     1.00     2.00     3.00     4.00     5.00     6.00     7.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO      300.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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              *            *
78 KK         *    RCH 3   *      ROUTE HYDROGRAPH STR C THROUGH REACH 3
              *            *
              **************

                 HYDROGRAPH ROUTING DATA

80 RL              ROUTING LOSSES
                        QLOSS        .00  INITIAL LOSS
                        CLOSS        .00  ADDITIONAL FRACTION LOST
                       PERCRT      10.00  CHANNEL PERCOLATION RATE
                       ELVINV        .00  INVERT ELEVATION

79 RS              STORAGE ROUTING
                        NSTPS          3  NUMBER OF SUBREACHES
                         ITYP       FLOW  TYPE OF INITIAL CONDITION
                       RSVRIC      -1.00  INITIAL CONDITION
                            X        .00 WORKING R AND D COEFFICIENT

RC                 NORMAL DEPTH CHANNEL
                          ANL       .070  LEFT OVERBANK N-VALUE
                         ANCH       .035  MAIN CHANNEL N-VALUE
                          ANR       .070  RIGHT OVERBANK N-VALUE
                        RLNTH      6510.  REACH LENGTH
                          SEL      .0061  ENERGY SLOPE
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                    ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 83 RY        ELEVATION     20.00     12.00     12.00     10.00     10.00     12.00     12.00     20.00
 82 RX        DISTANCE     100.00    101.00    190.00    195.00    205.00    210.00    299.00    300.00

                                                                  ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00       .89      1.99      3.29      7.60     23.18     38.77     54.37     69.99     85.61
          OUTFLOW        .00     11.87     39.63     82.23    149.65    365.96    705.76   1144.95   1671.38   2277.02
        ELEVATION      10.00     10.53     11.05     11.58     12.11     12.63     13.16     13.68     14.21     14.74

          STORAGE     101.24    116.89    132.54    148.20    163.88    179.56    195.26    210.96    226.68    242.41
          OUTFLOW    2955.93   3703.39   4515.57   5389.20   6321.46   7309.89   8352.30   9446.70  10591.32  11784.53
        ELEVATION      15.26     15.79     16.32     16.84     17.37     17.89     18.42     18.95     19.47     20.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     3703. TO    11785.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)


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          *            *
 84 KK    *     CP500  *       COMBINE HYDROGRAPHS REACH 2 & REACH 3
          *            *
          **************

 85 HC          HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
 86 KK    *     RCH 4  *       ROUTE COMBINED HYDROGRAPH THROUGH REACH 4
          *            *
          **************

             HYDROGRAPH ROUTING DATA

 88 RL          ROUTING LOSSES
                      QLOSS         .00  INITIAL LOSS
                      CLOSS         .00  ADDITIONAL FRACTION LOST
                     PERCRT       10.00  CHANNEL PERCOLATION RATE
                     ELVINV         .00  INVERT ELEVATION

 87 RS          STORAGE ROUTING
                      NSTPS           3  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC       -1.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL        .070  LEFT OVERBANK N-VALUE
                       ANCH        .035  MAIN CHANNEL N-VALUE
                        ANR        .070  RIGHT OVERBANK N-VALUE
                      RLNTH       6510.  REACH LENGTH
                        SEL       .0058  ENERGY SLOPE
                      ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY        ELEVATION     20.00     12.00     12.00     10.00     10.00     12.00     12.00     20.00
 90 RX        DISTANCE     100.00    101.00    190.00    195.00    205.00    210.00    299.00    300.00

                                                                  ***
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.89	1.99	3.29	7.60	23.18	38.77	54.37	69.99	85.61
OUTFLOW	.00	11.57	38.64	80.19	145.92	356.85	688.19	1116.44	1629.76	2220.32
ELEVATION	10.00	10.53	11.05	11.58	12.11	12.63	13.16	13.68	14.21	14.74
STORAGE	101.24	116.89	132.54	148.20	163.88	179.56	195.26	210.96	226.68	242.41
OUTFLOW	2882.32	3611.18	4403.13	5255.00	6164.05	7127.87	8144.32	9211.48	10327.60	11491.09
ELEVATION	15.26	15.79	16.32	16.84	17.37	17.89	18.42	18.95	19.47	20.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 3611. TO 11491.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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              **************
              *            *
92 KK         *    CP501   *      COMBINE HYDROGRAPHS REACH 1 & REACH 4
              *            *
              **************

93 HC            HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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              *            *
94 KK         *    RCH 5   *      ROUTE HYDROGRAPH CP501 THROUGH REACH 5
              *            *
              **************

                 HYDROGRAPH ROUTING DATA

96 RL            ROUTING LOSSES
                      QLOSS        .00  INITIAL LOSS
                      CLOSS        .00  ADDITIONAL FRACTION LOST
                     PERCRT      10.00  CHANNEL PERCOLATION RATE
                     ELVINV        .00  INVERT ELEVATION

95 RS            STORAGE ROUTING
                      NSTPS          3  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC      -1.00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

97 RC            NORMAL DEPTH CHANNEL
                        ANL       .055  LEFT OVERBANK N-VALUE
                       ANCH       .045  MAIN CHANNEL N-VALUE
                        ANR       .055  RIGHT OVERBANK N-VALUE
                      RLNTH      8500.  REACH LENGTH
                        SEL      .0040  ENERGY SLOPE
                      ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                         --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
99 RY        ELEVATION   1336.50   1333.80   1330.90   1325.10   1326.60   1329.90   1333.40   1335.90
98 RX        DISTANCE        .00    580.00    921.00    936.00   1012.00   1025.00   1554.00   2381.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.87	7.48	16.42	26.23	36.50	47.23	58.41	70.06	87.33
OUTFLOW	.00	8.97	56.97	179.00	378.24	635.96	948.58	1314.10	1731.39	2248.59
ELEVATION	1325.10	1325.70	1326.30	1326.90	1327.50	1328.10	1328.70	1329.30	1329.90	1330.50
STORAGE	115.84	161.43	225.90	309.24	411.64	541.99	709.81	915.96	1160.43	1431.63
OUTFLOW	2917.45	3835.41	5082.23	6737.20	8821.36	11254.69	14487.93	18696.88	23998.86	31460.73
ELEVATION	1331.10	1331.70	1332.30	1332.90	1333.50	1334.10	1334.70	1335.30	1335.90	1336.50

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          **************
          *            *
100 KK    *    SUB I   *      RUNOFF FROM SUB-BASIN I
          *            *
          **************

             SUBBASIN RUNOFF DATA

101 BA          SUBBASIN CHARACTERISTICS
                      TAREA       32.21  SUBBASIN AREA

102 LU          UNIFORM LOSS RATE
                      STRTL         .95  INITIAL LOSS
                      CNSTL         .37  UNIFORM LOSS RATE
                      RTIMP        1.00  PERCENT IMPERVIOUS AREA

103 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG        8.23  LAG
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UNIT HYDROGRAPH
249 END-OF-PERIOD ORDINATES

11.	23.	34.	45.	56.	83.	109.	135.	162.	188.
222.	256.	289.	323.	357.	402.	447.	492.	537.	583.
643.	703.	763.	823.	884.	955.	1027.	1098.	1169.	1240.
1300.	1360.	1420.	1480.	1538.	1579.	1621.	1662.	1703.	1743.
1765.	1788.	1810.	1833.	1853.	1857.	1861.	1865.	1868.	1871.
1867.	1864.	1860.	1856.	1850.	1827.	1805.	1782.	1760.	1737.
1711.	1684.	1658.	1632.	1605.	1575.	1545.	1515.	1485.	1454.
1416.	1378.	1341.	1303.	1265.	1220.	1175.	1129.	1084.	1041.
1003.	966.	928.	891.	856.	829.	803.	777.	751.	725.
703.	680.	658.	635.	613.	595.	576.	557.	538.	521.
507.	493.	480.	466.	452.	439.	425.	411.	397.	384.
373.	362.	351.	339.	328.	317.	306.	294.	283.	273.
265.	258.	250.	243.	235.	228.	220.	213.	205.	199.
193.	187.	182.	176.	170.	165.	159.	153.	148.	143.
139.	134.	130.	126.	122.	118.	114.	110.	106.	102.
99.	96.	93.	91.	88.	85.	82.	79.	77.	74.
72.	70.	68.	66.	64.	62.	60.	58.	55.	54.
52.	51.	49.	48.	46.	45.	43.	42.	40.	39.
38.	37.	35.	34.	33.	32.	31.	30.	29.	28.
27.	26.	25.	25.	24.	23.	22.	22.	21.	20.
20.	19.	19.	19.	18.	18.	17.	17.	16.	16.
15.	15.	15.	14.	14.	13.	13.	12.	12.	11.
11.	10.	10.	10.	9.	9.	8.	8.	8.	7.
7.	7.	6.	6.	5.	5.	5.	4.	4.	4.
3.	3.	2.	2.	2.	1.	1.	1.	0.	

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          **************
          *            *
104 KK    *    CP502   *      COMBINE HYDROGRAPHS REACH 5 & SUB I
          *            *
          **************

105 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE
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          **************
          *            *
106 KK    *    RCH 6   *      ROUTE HYDROGRAPH CP502 THROUGH REACH 6
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*            *
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   HYDROGRAPH ROUTING DATA

108 RL        ROUTING LOSSES
                   QLOSS        .00  INITIAL LOSS
                   CLOSS        .00  ADDITIONAL FRACTION LOST
                  PERCRT      10.00  CHANNEL PERCOLATION RATE
                  ELVINV        .00  INVERT ELEVATION

107 RS        STORAGE ROUTING
                   NSTPS          6  NUMBER OF SUBREACHES
                    ITYP       FLOW  TYPE OF INITIAL CONDITION
                  RSVRIC      -1.00  INITIAL CONDITION
                       X        .00 WORKING R AND D COEFFICIENT

109 RC        NORMAL DEPTH CHANNEL
                     ANL       .055  LEFT OVERBANK N-VALUE
                    ANCH       .045  MAIN CHANNEL N-VALUE
                     ANR       .055  RIGHT OVERBANK N-VALUE
                   RLNTH     17000.  REACH LENGTH
                     SEL      .0060  ENERGY SLOPE
                   ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                  CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
111 RY     ELEVATION   1263.50   1262.20   1258.50   1256.30   1256.30   1260.70   1262.60   1262.90
110 RX     DISTANCE        .00   1804.00   2973.00   2985.00   3043.00   3060.00   3096.00   3218.00

                                                  ***

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

       STORAGE        .00      8.84     18.20     28.08     38.48     49.41     61.19     85.23    127.19    187.07
       OUTFLOW        .00     29.80     95.61    190.05    310.60    456.04    628.01    857.39   1187.70   1658.15
     ELEVATION    1256.30   1256.68   1257.06   1257.44   1257.82   1258.19   1258.57   1258.95   1259.33   1259.71

       STORAGE     264.87    360.59    474.30    606.61    757.68    927.52   1121.65   1386.32   1743.41   2180.25
       OUTFLOW    2301.86   3148.61   4235.29   5595.92   7243.32   9202.78  10915.82  12751.08  15659.86  19627.03
     ELEVATION    1260.09   1260.47   1260.85   1261.23   1261.60   1261.98   1262.36   1262.74   1263.12   1263.50


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*            *
112 KK  *   SUB II  *      RUNOFF FROM SUB-BASIN II
*            *
**************

   SUBBASIN RUNOFF DATA

113 BA        SUBBASIN CHARACTERISTICS
                   TAREA       7.10  SUBBASIN AREA

114 LU        UNIFORM LOSS RATE
                   STRTL        .95  INITIAL LOSS
                   CNSTL        .37  UNIFORM LOSS RATE
                   RTIMP        .00  PERCENT IMPERVIOUS AREA

115 UD        SCS DIMENSIONLESS UNITGRAPH
                    TLAG       3.17  LAG

                                                  ***

                                        UNIT HYDROGRAPH
                                   97 END-OF-PERIOD ORDINATES
          16.       33.       71.      110.      159.      210.      275.      344.      430.      520.
         623.      721.      807.      885.      944.      993.     1026.     1046.     1052.     1052.
        1047.     1027.      995.      959.      921.      880.      837.      786.      732.      670.
         606.      549.      495.      454.      416.      383.      351.      323.      296.      276.
         257.      237.      217.      201.      185.      169.      153.      143.      132.      121.
         111.      103.       95.       87.       79.       73.       67.       61.       56.       52.
          48.       44.       41.       38.       35.       32.       29.       27.       25.       23.
          21.       19.       18.       16.       15.       14.       13.       12.       11.       10.
          10.        9.        8.        8.        7.        6.        6.        5.        5.        4.
```

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              4.        3.        2.        2.        1.        1.        0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 116 KK   *    CP503   *       COMBINE HYDROGRAPHS REACH 6 & SUB II
          *            *
          **************

 117 HC         HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                                  ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 118 KK   *    RCH 7   *       ROUTE HYDROGRAPH 503 THROUGH REACH 7
          *            *
          **************

             HYDROGRAPH ROUTING DATA

 120 RL         ROUTING LOSSES
                     QLOSS         .00  INITIAL LOSS
                     CLOSS         .00  ADDITIONAL FRACTION LOST
                    PERCRT       10.00  CHANNEL PERCOLATION RATE
                    ELVINV         .00  INVERT ELEVATION

 119 RS         STORAGE ROUTING
                     NSTPS           3  NUMBER OF SUBREACHES
                      ITYP        FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC       -1.00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

 121 RC         NORMAL DEPTH CHANNEL
                       ANL        .055  LEFT OVERBANK N-VALUE
                      ANCH        .045  MAIN CHANNEL N-VALUE
                       ANR        .055  RIGHT OVERBANK N-VALUE
                     RLNTH       9000.  REACH LENGTH
                       SEL       .0040  ENERGY SLOPE
                     ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 123 RY       ELEVATION   1195.30   1193.40   1192.30   1187.80   1186.90   1192.10   1193.20   1195.30
 122 RX       DISTANCE        .00    711.00    922.00    940.00    999.00   1016.00   1293.00   1738.00
                                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      1.39      5.56     11.35     17.44     23.82     30.50     37.47     44.73     52.29
          OUTFLOW        .00      5.14     32.65    102.56    202.93    330.61    484.18    662.87    866.26   1094.17
        ELEVATION    1186.90   1187.34   1187.78   1188.23   1188.67   1189.11   1189.55   1189.99   1190.44   1190.88

          STORAGE      60.14     68.28     77.01     95.50    131.75    185.78    261.73    361.35    484.64    631.61
          OUTFLOW    1346.58   1623.55   1930.31   2330.35   2882.52   3648.58   4695.60   6120.43   7989.88  10367.48
        ELEVATION    1191.32   1191.76   1192.21   1192.65   1193.09   1193.53   1193.97   1194.42   1194.86   1195.30

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          *            *
 124 KK   *   SUBIII   *       RUNOFF FROM SUB-BASIN III
          *            *
          **************
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            SUBBASIN RUNOFF DATA

125 BA        SUBBASIN CHARACTERISTICS
                TAREA        7.02  SUBBASIN AREA

126 LU        UNIFORM LOSS RATE
                STRTL         .95  INITIAL LOSS
                CNSTL         .39  UNIFORM LOSS RATE
                RTIMP         .00  PERCENT IMPERVIOUS AREA

127 UD        SCS DIMENSIONLESS UNITGRAPH
                TLAG        4.94  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         150 END-OF-PERIOD ORDINATES
          7.      13.      20.      36.      51.      67.      87.     107.     127.     154.
        181.     208.     243.     279.     315.     357.     399.     442.     478.     514.
        550.     576.     600.     625.     640.     653.     667.     670.     673.     675.
        673.     671.     669.     657.     644.     630.     615.     599.     583.     566.
        548.     530.     509.     486.     464.     438.     411.     384.     361.     338.
        316.     299.     283.     267.     253.     240.     226.     215.     203.     192.
        183.     175.     167.     159.     150.     142.     135.     128.     122.     115.
        108.     101.      96.      92.      87.      83.      78.      74.      70.      67.
         63.      60.      57.      53.      50.      48.      46.      43.      41.      38.
         36.      34.      33.      31.      29.      28.      26.      25.      24.      23.
         21.      20.      19.      18.      17.      16.      16.      15.      14.      13.
         12.      12.      11.      10.      10.       9.       9.       9.       8.       8.
          7.       7.       7.       7.       6.       6.       6.       5.       5.       5.
          5.       4.       4.       4.       4.       3.       3.       3.       3.       2.
          2.       2.       2.       2.       1.       1.       1.       1.       0.       0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
      KK    *    CP504   *      COMBINE HYDROGRAPHS REACH 7 & SUB III
            *            *
            **************

129 HC        HYDROGRAPH COMBINATION
                ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
130 KK      *    RCH 8   *      ROUTE HYDROGRAPH CP504 THROUGH REACH 8
            *            *
            **************

            HYDROGRAPH ROUTING DATA

132 RL        ROUTING LOSSES
               QLOSS         .00  INITIAL LOSS
               CLOSS         .00  ADDITIONAL FRACTION LOST
              PERCRT       10.00  CHANNEL PERCOLATION RATE
              ELVINV         .00  INVERT ELEVATION

131 RS        STORAGE ROUTING
               NSTPS           4  NUMBER OF SUBREACHES
                ITYP        FLOW  TYPE OF INITIAL CONDITION
              RSVRIC       -1.00  INITIAL CONDITION
                   X         .00 WORKING R AND D COEFFICIENT

      RC      NORMAL DEPTH CHANNEL
                 ANL        .055  LEFT OVERBANK N-VALUE
                ANCH        .045  MAIN CHANNEL N-VALUE
                 ANR        .055  RIGHT OVERBANK N-VALUE
               RLNTH       9500.  REACH LENGTH
                 SEL       .0040  ENERGY SLOPE
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                    ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
135 RY        ELEVATION   1160.50   1160.60   1160.10   1156.20   1156.60   1159.00   1161.00   1160.00
134 RX        DISTANCE        .00    700.00    736.00    760.00    879.00    921.00   1012.00   2810.00

                                                   ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      2.11      8.12     15.11     22.44     30.09     38.08     46.39     55.03     64.00
          OUTFLOW        .00      5.11     34.94     95.40    178.87    283.46    408.15    552.39    715.87    898.44
        ELEVATION    1156.20   1156.45   1156.71   1156.96   1157.21   1157.46   1157.72   1157.97   1158.22   1158.47

          STORAGE      73.30     82.93     93.06    103.90    115.46    127.74    152.46    203.75    311.81    453.92
          OUTFLOW    1100.06   1320.78   1581.71   1866.29   2173.97   2505.72   2875.30   3401.35   4212.29   5443.81
        ELEVATION    1158.73   1158.98   1159.23   1159.48   1159.74   1159.99   1160.24   1160.50   1160.75   1161.00


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          **************
          *            *
136 KK    *     SUBIV  *       RUNOFF FROM SUB-BASIN IV
          *            *
          **************

             SUBBASIN RUNOFF DATA

137 BA          SUBBASIN CHARACTERISTICS
                      TAREA       10.54  SUBBASIN AREA

138 LU          UNIFORM LOSS RATE
                      STRTL         .95  INITIAL LOSS
                      CNSTL         .39  UNIFORM LOSS RATE
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

139 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG        9.11  LAG

                                                   ***

                                                UNIT HYDROGRAPH
                                          275 END-OF-PERIOD ORDINATES
              3.        6.        9.       12.       15.       20.       27.       34.       41.       48.
             55.       64.       73.       82.       91.      100.      111.      123.      135.      147.
            159.      171.      187.      203.      219.      235.      251.      268.      287.      306.
            326.      345.      364.      380.      396.      412.      428.      444.      458.      469.
            481.      492.      503.      514.      520.      526.      532.      538.      544.      549.
            550.      551.      552.      553.      554.      553.      552.      551.      550.      549.
            546.      540.      534.      528.      522.      516.      509.      502.      495.      488.
            481.      474.      466.      458.      450.      442.      434.      424.      414.      404.
            394.      384.      373.      361.      349.      337.      325.      313.      303.      293.
            283.      273.      263.      253.      246.      239.      232.      225.      218.      212.
            206.      200.      194.      188.      182.      177.      172.      167.      162.      157.
            153.      149.      145.      142.      138.      134.      131.      127.      123.      120.
            116.      113.      110.      107.      104.      101.       98.       95.       92.       89.
             86.       83.       80.       78.       76.       74.       72.       70.       68.       66.
             64.       62.       60.       58.       57.       55.       54.       52.       51.       49.
             48.       46.       45.       43.       42.       41.       40.       39.       38.       37.
             35.       34.       33.       32.       31.       30.       29.       29.       28.       27.
             26.       26.       25.       24.       23.       23.       22.       21.       21.       20.
             20.       19.       19.       18.       17.       17.       16.       16.       15.       15.
             15.       14.       14.       13.       13.       13.       12.       12.       12.       11.
             11.       11.       10.       10.       10.        9.        9.        9.        8.        8.
              8.        8.        8.        7.        7.        7.        7.        7.        6.        6.
              6.        6.        6.        6.        6.        5.        5.        5.        5.        5.
              5.        5.        5.        4.        4.        4.        4.        4.        4.        4.
              4.        4.        3.        3.        3.        3.        3.        3.        3.        3.
              2.        2.        2.        2.        2.        2.        2.        2.        2.        2.
              1.        1.        1.        1.        1.        1.        1.        1.        1.        1.
              0.        0.        0.        0.        0.

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              **************
              *            *
140 KK        *    CP505   *      COMBINE HYDROGRAPHS REACH 8 & SUB IV
              *            *
              **************

141 HC            HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                          ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

              **************
              *            *
142 KK        *    SUB D   *      RUNOFF FROM SUB-BASIN D
              *            *
              **************

                SUBBASIN RUNOFF DATA

143 BA            SUBBASIN CHARACTERISTICS
                     TAREA      11.06  SUBBASIN AREA

144 LU            UNIFORM LOSS RATE
                     STRTL        .96  INITIAL LOSS
                     CNSTL        .38  UNIFORM LOSS RATE
                     RTIMP       2.00  PERCENT IMPERVIOUS AREA

145 UD            SCS DIMENSIONLESS UNITGRAPH
                      TLAG       5.25  LAG
                                                          ***

                                                UNIT HYDROGRAPH
                                          160 END-OF-PERIOD ORDINATES
          9.      19.     28.     48.     69.     91.    117.    145.    173.    205.
        243.     280.    321.    371.    421.    471.    530.    590.    649.    701.
        751.     801.    842.    877.    911.    939.    958.    977.    992.    995.
        999.    1002.    999.    995.    992.    977.    958.    939.    918.    897.
        875.     851.    826.    801.    775.    744.    712.    681.    644.    606.
        568.     536.    505.    473.    448.    426.    404.    383.    364.    346.
        327.     312.    296.    280.    269.    258.    246.    235.    223.    212.
        202.     192.    183.    174.    164.    155.    146.    140.    133.    127.
        121.     115.    108.    103.     99.     94.     89.     85.     80.     76.
         72.      69.     65.     62.     59.     55.     53.     50.     48.     46.
         43.      41.     39.     37.     36.     34.     32.     30.     29.     28.
         26.      25.     24.     23.     21.     20.     19.     18.     17.     17.
         16.      15.     14.     14.     13.     12.     12.     11.     11.     10.
         10.      10.      9.      9.      8.      8.      8.      7.      7.      7.
          6.       6.      5.      5.      5.      4.      4.      4.      3.      3.
          3.       3.      2.      2.      2.      1.      1.      1.      0.      0.

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              *            *
146 KK        *    STR D   *      ROUTE HYDROGRAPH SUB-D THROUGH STRUCTURE D
              *            *
              **************

                HYDROGRAPH ROUTING DATA

148 RL            ROUTING LOSSES
                     QLOSS        .00  INITIAL LOSS
                     CLOSS        .00  ADDITIONAL FRACTION LOST
                    PERCRT      10.00  CHANNEL PERCOLATION RATE
                    ELVINV        .00  INVERT ELEVATION

147 RS            STORAGE ROUTING
                     NSTPS          2  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
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                    RSVRIC       -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

148 SA              AREA          .0      11.1      22.2      33.3      44.5      55.6      66.7      77.8

150 SE         ELEVATION         .00      1.00      2.00      3.00      4.00      5.00      6.00      7.00

151 SQ         DISCHARGE          0.      202.      578.     1025.     1513.     1988.     2474.     2816.
                                                              ***

                                                COMPUTED STORAGE-ELEVATION DATA

          STORAGE        .00      3.70     20.03     47.60     86.36    136.31    197.37    269.55
        ELEVATION        .00      1.00      2.00      3.00      4.00      5.00      6.00      7.00


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          *            *
152 KK    *    RCH 9   *       ROUTE HYDROGRAPH STR D THROUGH REACH 9
          *            *
          **************

             HYDROGRAPH ROUTING DATA

154 RL         ROUTING LOSSES
                    QLOSS         .00  INITIAL LOSS
                    CLOSS         .00  ADDITIONAL FRACTION LOST
                   PERCRT       10.00  CHANNEL PERCOLATION RATE
                   ELVINV         .00  INVERT ELEVATION

153 RS         STORAGE ROUTING
                    NSTPS          16  NUMBER OF SUBREACHES
                     ITYP        FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC       -1.00  INITIAL CONDITION
                        X         .00 WORKING R AND D COEFFICIENT

155 RC         NORMAL DEPTH CHANNEL
                      ANL        .070  LEFT OVERBANK N-VALUE
                     ANCH        .035  MAIN CHANNEL N-VALUE
                      ANR        .070  RIGHT OVERBANK N-VALUE
                    RLNTH      45200.  REACH LENGTH
                      SEL       .0051  ENERGY SLOPE
                    ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                          CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
157 RY       ELEVATION     20.00     12.00     12.00     10.00     10.00     12.00     12.00     20.00
156 RX       DISTANCE     100.00    101.00    190.00    195.00    205.00    210.00    299.00    300.00
                                                              ***

                                          COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      6.18     13.80     22.85     52.76    160.94    269.20    377.53    485.93    594.40
          OUTFLOW        .00     10.85     36.23     75.19    136.83    334.62    645.33   1046.90   1528.25   2082.03
        ELEVATION      10.00     10.53     11.05     11.58     12.11     12.63     13.16     13.68     14.21     14.74

          STORAGE     702.94    811.56    920.24   1029.00   1137.83   1246.74   1355.71   1464.76   1573.88   1683.07
          OUTFLOW    2702.80   3386.26   4128.88   4927.70   5780.13   6683.92   7637.06   8637.75   9684.35  10775.37
        ELEVATION      15.26     15.79     16.32     16.84     17.37     17.89     18.42     18.95     19.47     20.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     7637. TO    10775.
               THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
               THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)


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          *            *
158 KK    *   SUB145   *       RUNOFF FROM SUB-BASIN 145
          *            *
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   SUBBASIN RUNOFF DATA

159 BA        SUBBASIN CHARACTERISTICS
                   TAREA       12.83  SUBBASIN AREA

    LU        UNIFORM LOSS RATE
                   STRTL         .87  INITIAL LOSS
                   CNSTL         .31  UNIFORM LOSS RATE
                   RTIMP       10.00  PERCENT IMPERVIOUS AREA

161 UD        SCS DIMENSIONLESS UNITGRAPH
                    TLAG        4.55  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         139 END-OF-PERIOD ORDINATES
      14.      29.      48.      81.     115.     153.     196.     239.     292.     350.
     408.     482.     559.     638.     729.     821.     907.     984.    1061.    1125.
    1178.    1231.    1266.    1295.    1324.    1329.    1334.    1337.    1332.    1327.
    1312.    1283.    1254.    1222.    1189.    1155.    1117.    1079.    1040.     991.
     943.     892.     835.     777.     724.     676.     628.     590.     557.     523.
     494.     465.     437.     413.     389.     368.     350.     332.     315.     297.
     280.     265.     250.     236.     221.     207.     194.     184.     175.     165.
     155.     146.     138.     131.     123.     116.     109.     102.      97.      92.
      86.      81.      76.      71.      68.      64.      61.      57.      53.      51.
      48.      45.      43.      40.      38.      36.      34.      32.      30.      28.
      27.      25.      24.      22.      21.      20.      19.      18.      17.      16.
      15.      14.      14.      13.      13.      12.      11.      11.      10.      10.
       9.       8.       8.       7.       7.       6.       6.       5.       5.       4.
       4.       3.       3.       2.       2.       1.       1.       0.       0.

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*            *
KK  *   RCH65  *      ROUTE HYDROGRAPH SUB145 THROUGH REACH 65
*            *
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   HYDROGRAPH ROUTING DATA

164 RL        ROUTING LOSSES
                   QLOSS         .00  INITIAL LOSS
                   CLOSS         .00  ADDITIONAL FRACTION LOST
                  PERCRT       10.00  CHANNEL PERCOLATION RATE
                  ELVINV         .00  INVERT ELEVATION

163 RS        STORAGE ROUTING
                   NSTPS          11  NUMBER OF SUBREACHES
                    ITYP        FLOW  TYPE OF INITIAL CONDITION
                  RSVRIC       -1.00  INITIAL CONDITION
                       X         .00 WORKING R AND D COEFFICIENT

165 RC        NORMAL DEPTH CHANNEL
                     ANL        .070  LEFT OVERBANK N-VALUE
                    ANCH        .035  MAIN CHANNEL N-VALUE
                     ANR        .070  RIGHT OVERBANK N-VALUE
                   RLNTH      32600.  REACH LENGTH
                     SEL       .0071  ENERGY SLOPE
                   ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
167 RY      ELEVATION    20.00    12.00    12.00    10.00    10.00    12.00    12.00    20.00
166 RX      DISTANCE    100.00   101.00   190.00   195.00   205.00   210.00   299.00   300.00

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

      STORAGE      .00     4.46     9.95    16.48    38.05   116.08   194.16   272.29   350.47   428.70
      OUTFLOW      .00    12.81    42.75    88.72   161.45   394.82   761.42  1235.23  1803.18  2456.58
    ELEVATION    10.00    10.53    11.05    11.58    12.11    12.63    13.16    13.68    14.21    14.74
```

STORAGE	506.99	585.33	663.72	742.16	820.65	899.20	977.79	1056.44	1135.14	1213.89
OUTFLOW	3189.02	3995.44	4871.66	5814.18	6819.96	7886.33	9010.94	10191.65	11426.53	12713.83
ELEVATION	15.26	15.79	16.32	16.84	17.37	17.89	18.42	18.95	19.47	20.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 6820. TO 12714.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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          *            *
168 KK    *    SUB F   *      RUNOFF FROM SUB-BASIN F
          *            *
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             SUBBASIN RUNOFF DATA

169 BA          SUBBASIN CHARACTERISTICS
                      TAREA       60.10  SUBBASIN AREA

170 LU          UNIFORM LOSS RATE
                      STRTL         .95  INITIAL LOSS
                      CNSTL         .38  UNIFORM LOSS RATE
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

171 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG       13.18  LAG
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*** WARNING *** UNIT HYDROGRAPH TRUNCATED FROM 397 TO 300 INTERVALS

UNIT HYDROGRAPH
300 END-OF-PERIOD ORDINATES
VOLUME = 1.00

8.	17.	25.	33.	42.	50.	58.	67.	86.	106.
125.	144.	164.	183.	202.	222.	247.	272.	297.	322.
347.	372.	397.	423.	456.	489.	522.	555.	589.	622.
655.	690.	734.	779.	823.	867.	912.	956.	1000.	1046.
1099.	1151.	1204.	1257.	1309.	1362.	1414.	1465.	1509.	1553.
1598.	1642.	1686.	1730.	1775.	1815.	1845.	1876.	1906.	1937.
1967.	1998.	2028.	2054.	2070.	2087.	2104.	2120.	2137.	2153.
2170.	2181.	2184.	2187.	2190.	2193.	2195.	2198.	2201.	2201.
2199.	2196.	2193.	2190.	2187.	2185.	2182.	2173.	2156.	2140.
2123.	2106.	2090.	2073.	2057.	2039.	2019.	2000.	1980.	1961.
1942.	1922.	1903.	1882.	1860.	1838.	1816.	1793.	1771.	1749.
1727.	1702.	1674.	1646.	1619.	1591.	1563.	1536.	1508.	1477.
1444.	1410.	1377.	1344.	1311.	1277.	1244.	1215.	1187.	1159.
1132.	1104.	1076.	1049.	1021.	999.	980.	961.	941.	922.
902.	883.	864.	846.	830.	813.	797.	780.	763.	747.
730.	716.	702.	688.	674.	660.	647.	633.	619.	608.
598.	588.	578.	568.	558.	548.	537.	527.	517.	507.
497.	487.	477.	467.	457.	448.	440.	432.	423.	415.
407.	398.	390.	382.	374.	365.	357.	349.	340.	332.
324.	318.	313.	307.	302.	296.	291.	285.	279.	274.
268.	263.	257.	252.	246.	241.	235.	231.	227.	223.
219.	215.	210.	206.	202.	198.	194.	190.	185.	181.
177.	173.	169.	166.	163.	160.	157.	154.	151.	148.
145.	142.	139.	136.	133.	129.	126.	123.	121.	119.
116.	114.	112.	110.	108.	106.	104.	102.	100.	98.
96.	94.	92.	89.	88.	86.	85.	83.	81.	80.
78.	77.	75.	74.	72.	71.	69.	68.	66.	65.
63.	62.	61.	60.	59.	58.	57.	56.	55.	53.
52.	51.	50.	49.	48.	47.	46.	45.	44.	43.
43.	42.	41.	40.	39.	38.	38.	37.	36.	35.

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          *            *
172 KK    *    CP400   *      COMBINE HYDROGRAPHS SUBF AND RCH65
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          *            *
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173 HC          HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***

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          *            *
174 KK    *     STR F  *       ROUTE HYDROGRAPH  CP400 THROUGH STRUCTURE F
          *            *
          **************

             HYDROGRAPH ROUTING DATA

176 RL          ROUTING LOSSES
                      QLOSS         .00  INITIAL LOSS
                      CLOSS         .00  ADDITIONAL FRACTION LOST
                     PERCRT       10.00  CHANNEL PERCOLATION RATE
                     ELVINV         .00  INVERT ELEVATION

175 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC       -1.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

176 SA               AREA          .0      46.2      92.3     138.5     184.7     230.9     277.0     323.2

178 SE          ELEVATION         .00      1.00      2.00      3.00      4.00      5.00      6.00      7.00

179 SQ          DISCHARGE          0.      675.     1967.     3362.     4898.     6353.     7861.     8615.

                                                                  ***

                                                   COMPUTED STORAGE-ELEVATION DATA

          STORAGE        .00     15.40     83.33    197.96    359.00    566.37    819.97   1119.78
        ELEVATION        .00      1.00      2.00      3.00      4.00      5.00      6.00      7.00


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          *            *
180 KK    *     RCH11  *       ROUTE HYDROGRAPH STR F THROUGH REACH 11
          *            *
          **************

             HYDROGRAPH ROUTING DATA

182 RL          ROUTING LOSSES
                      QLOSS         .00  INITIAL LOSS
                      CLOSS         .00  ADDITIONAL FRACTION LOST
                     PERCRT       10.00  CHANNEL PERCOLATION RATE
                     ELVINV         .00  INVERT ELEVATION

181 RS          STORAGE ROUTING
                      NSTPS           5  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC       -1.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

183 RC          NORMAL DEPTH CHANNEL
                        ANL        .070  LEFT OVERBANK N-VALUE
                       ANCH        .035  MAIN CHANNEL N-VALUE
                        ANR        .070  RIGHT OVERBANK N-VALUE
                      RLNTH      12400.  REACH LENGTH
                        SEL       .0050  ENERGY SLOPE
                      ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                          CROSS-SECTION DATA
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                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
185 RY        ELEVATION    20.00     12.00     12.00     10.00     10.00     12.00     12.00     20.00
184 RX        DISTANCE    100.00    101.00    190.00    195.00    205.00    210.00    299.00    300.00

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      1.70      3.79      6.27     14.47     44.15     73.85    103.57    133.31    163.06
          OUTFLOW        .00     10.75     35.88     74.45    135.48    331.32    638.97   1036.59   1513.20   2061.52
        ELEVATION      10.00     10.53     11.05     11.58     12.11     12.63     13.16     13.68     14.21     14.74

          STORAGE     192.84    222.64    252.46    282.29    312.15    342.03    371.92    401.84    431.77    461.73
          OUTFLOW    2676.17   3352.90   4088.20   4879.15   5723.18   6618.06   7561.81   8552.64   9588.93  10669.21
        ELEVATION      15.26     15.79     16.32     16.84     17.37     17.89     18.42     18.95     19.47     20.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     5723. TO    10669.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)


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          *            *
186 KK    *     SUB V  *       RUNOFF FROM SUB-BASIN V
          *            *
          **************

             SUBBASIN RUNOFF DATA

187 BA         SUBBASIN CHARACTERISTICS
                     TAREA        2.45  SUBBASIN AREA

188 LU         UNIFORM LOSS RATE
                     STRTL         .95  INITIAL LOSS
                     CNSTL         .40  UNIFORM LOSS RATE
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

189 UD         SCS DIMENSIONLESS UNITGRAPH
                      TLAG        2.58  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         79 END-OF-PERIOD ORDINATES
             8.       21.       41.       65.       91.      125.      165.      209.      262.      312.
           356.      389.      417.      434.      442.      444.      442.      433.      416.      397.
           377.      355.      329.      301.      268.      237.      209.      188.      169.      153.
           138.      124.      114.      104.       94.       85.       77.       68.       62.       56.
            51.       46.       41.       37.       33.       30.       27.       24.       22.       20.
            18.       16.       15.       13.       12.       11.       10.        9.        8.        7.
             7.        6.        5.        5.        5.        4.        4.        4.        3.        3.
             3.        2.        2.        2.        1.        1.        1.        1.        0.


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
190 KK    *     CP600  *       COMBINE HYDROGRAPHS SUB V & RCH11
          *            *
          **************

191 HC         HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *           *
192 KK    *    RCH12  *      ROUTE HYDROGRAPH CP600 THROUGH REACH 12
          *           *
          **************

            HYDROGRAPH ROUTING DATA

RL            ROUTING LOSSES
                  QLOSS        .00  INITIAL LOSS
                  CLOSS        .00  ADDITIONAL FRACTION LOST
                 PERCRT      10.00  CHANNEL PERCOLATION RATE
                 ELVINV        .00  INVERT ELEVATION

193 RS        STORAGE ROUTING
                  NSTPS          2  NUMBER OF SUBREACHES
                   ITYP       FLOW  TYPE OF INITIAL CONDITION
                 RSVRIC      -1.00  INITIAL CONDITION
                      X        .00 WORKING R AND D COEFFICIENT

195 RC        NORMAL DEPTH CHANNEL
                    ANL       .055  LEFT OVERBANK N-VALUE
                   ANCH       .045  MAIN CHANNEL N-VALUE
                    ANR       .055  RIGHT OVERBANK N-VALUE
                  RLNTH      5400.  REACH LENGTH
                    SEL      .0030  ENERGY SLOPE
                  ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
197 RY      ELEVATION   1253.50   1249.50   1248.40   1244.00   1244.10   1247.80   1249.80   1255.00
196 RX      DISTANCE        .00    754.00   1102.00   1112.00   1126.00   1138.00   1342.00   2306.00

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE        .00      1.01      2.34      3.89      5.68      7.69      9.93     12.79     20.38     43.01
        OUTFLOW        .00      9.05     32.36     68.34    117.27    179.84    256.85    355.17    509.15    825.95
      ELEVATION    1244.00   1244.58   1245.16   1245.74   1246.32   1246.89   1247.47   1248.05   1248.63   1249.21

        STORAGE      82.36    136.12    205.41    290.25    390.61    506.52    637.96    783.57    937.53   1099.20
        OUTFLOW    1446.96   2415.62   3844.93   5803.88   8359.62  11576.50  15516.16  20593.10  26726.11  33676.39
      ELEVATION    1249.79   1250.37   1250.95   1251.53   1252.11   1252.68   1253.26   1253.84   1254.42   1255.00


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          *           *
198 KK    *    SUBVI  *      RUNOFF FROM SUB-BASIN VI
          *           *
          **************

            SUBBASIN RUNOFF DATA

199 BA        SUBBASIN CHARACTERISTICS
                  TAREA       7.60  SUBBASIN AREA

200 LU        UNIFORM LOSS RATE
                  STRTL        .96  INITIAL LOSS
                  CNSTL        .38  UNIFORM LOSS RATE
                  RTIMP       2.00  PERCENT IMPERVIOUS AREA

201 UD        SCS DIMENSIONLESS UNITGRAPH
                   TLAG       5.19  LAG

                                                  ***

                                   UNIT HYDROGRAPH
                                 158 END-OF-PERIOD ORDINATES
          7.      13.      20.      34.      49.      65.      83.     103.     123.     146.
        172.     198.     228.     263.     298.     335.     377.     418.     460.     495.
        530.     566.     591.     616.     640.     657.     670.     683.     690.     693.
        695.     695.     693.     691.     687.     673.     660.     647.     632.     616.
        601.     583.     566.     548.     528.     506.     484.     459.     433.     406.
        382.     360.     338.     317.     302.     286.     271.     258.     244.     231.
        220.     209.     198.     189.     181.     173.     165.     157.     149.     142.
```

135.	128.	122.	115.	109.	102.	98.	93.	89.	84.
80.	76.	72.	69.	65.	62.	59.	56.	53.	50.
48.	45.	43.	41.	38.	37.	35.	33.	32.	30.
28.	27.	26.	25.	23.	22.	21.	20.	19.	18.
17.	16.	15.	15.	14.	13.	13.	12.	11.	11.
10.	10.	9.	9.	8.	8.	8.	7.	7.	7.
6.	6.	6.	6.	5.	5.	5.	5.	4.	4.
4.	4.	3.	3.	3.	3.	2.	2.	2.	2.
2.	1.	1.	1.	1.	0.	0.	0.		

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          **************
          *            *
202 KK    *     CP601  *       COMBINE HYDROGRAPHS RCH12 & SUB VI
          *            *
          **************

203 HC          HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE
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          **************
          *            *
204 KK    *     RCH13  *       ROUTE HYDROGRAPH CP601 THROUGH REACH 13
          *            *
          **************

             HYDROGRAPH ROUTING DATA

206 RL          ROUTING LOSSES
                     QLOSS         .00  INITIAL LOSS
                     CLOSS         .00  ADDITIONAL FRACTION LOST
                    PERCRT       10.00  CHANNEL PERCOLATION RATE
                    ELVINV         .00  INVERT ELEVATION

205 RS          STORAGE ROUTING
                     NSTPS           1  NUMBER OF SUBREACHES
                      ITYP        FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC       -1.00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

207 RC          NORMAL DEPTH CHANNEL
                       ANL        .055  LEFT OVERBANK N-VALUE
                      ANCH        .045  MAIN CHANNEL N-VALUE
                       ANR        .055  RIGHT OVERBANK N-VALUE
                     RLNTH       2000.  REACH LENGTH
                       SEL       .0030  ENERGY SLOPE
                     ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
209 RY       ELEVATION   1241.60   1238.90   1237.70   1233.30   1233.60   1236.70   1237.90   1241.80
208 RX       DISTANCE        .00    459.00    960.00    976.00   1014.00   1025.00   1374.00   2432.00
                                                          ***
```

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.54	1.40	2.32	3.31	4.36	5.49	6.67	8.14	11.84
OUTFLOW	.00	9.32	43.34	96.23	166.22	252.66	355.33	474.23	614.85	814.12
ELEVATION	1233.30	1233.75	1234.19	1234.64	1235.09	1235.54	1235.98	1236.43	1236.88	1237.33
STORAGE	18.29	29.89	47.82	71.81	100.16	132.57	169.04	209.56	254.13	302.61
OUTFLOW	1120.06	1617.98	2399.40	3568.66	5168.47	7200.61	9695.19	12683.36	16196.25	20407.32
ELEVATION	1237.77	1238.22	1238.67	1239.12	1239.56	1240.01	1240.46	1240.91	1241.35	1241.80

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          **************
          *            *
210 KK    *   SUBVII   *       RUNOFF FROM SUB-BASIN VII
          *            *
          **************

             SUBBASIN RUNOFF DATA

211 BA          SUBBASIN CHARACTERISTICS
                     TAREA        4.08  SUBBASIN AREA

212 LU          UNIFORM LOSS RATE
                     STRTL         .95  INITIAL LOSS
                     CNSTL         .40  UNIFORM LOSS RATE
                     RTIMP        1.00  PERCENT IMPERVIOUS AREA

213 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        5.40  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         164 END-OF-PERIOD ORDINATES
              3.       7.      10.      16.      24.      32.      40.      50.      60.      70.
             83.      96.     109.     126.     144.     161.     180.     201.     222.     242.
            259.     277.     294.     306.     318.     330.     339.     345.     352.     356.
            357.     358.     359.     358.     357.     356.     351.     344.     337.     330.
            323.     315.     307.     298.     290.     281.     270.     259.     248.     236.
            223.     210.     197.     186.     175.     165.     157.     150.     142.     135.
            129.     122.     116.     110.     105.     100.      96.      92.      88.      84.
             80.      76.      72.      69.      66.      63.      59.      56.      53.      51.
             48.      46.      44.      42.      40.      38.      36.      34.      33.      31.
             30.      28.      27.      25.      24.      23.      22.      21.      20.      19.
             18.      17.      16.      15.      15.      14.      13.      13.      12.      12.
             11.      10.      10.       9.       9.       9.       8.       8.       7.       7.
              7.       6.       6.       6.       5.       5.       5.       5.       5.       4.
              4.       4.       4.       4.       4.       3.       3.       3.       3.       3.
              3.       3.       2.       2.       2.       2.       2.       2.       2.       2.
              1.       1.       1.       1.       1.       1.       1.       1.       1.       0.
              0.       0.       0.       0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
214 KK    *    CP602   *       COMBINE HYDROGRAPHS RCH13 & 601 & SUB VII
          *            *
          **************

215 HC          HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
216 KK    *    RCH14   *       ROUTE HYDROGRAPH CP602 THROUGH REACH 14
          *            *
          **************

             HYDROGRAPH ROUTING DATA

218 RL          ROUTING LOSSES
                     QLOSS         .00  INITIAL LOSS
                     CLOSS         .00  ADDITIONAL FRACTION LOST
                    PERCRT       10.00  CHANNEL PERCOLATION RATE
                    ELVINV         .00  INVERT ELEVATION

217 RS          STORAGE ROUTING
                     NSTPS           4  NUMBER OF SUBREACHES
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                    ITYP        FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC       -1.00  INITIAL CONDITION
                       X         .00 WORKING R AND D COEFFICIENT

219 RC          NORMAL DEPTH CHANNEL
                     ANL        .055  LEFT OVERBANK N-VALUE
                    ANCH        .045  MAIN CHANNEL N-VALUE
                     ANR        .055  RIGHT OVERBANK N-VALUE
                   RLNTH      11100.  REACH LENGTH
                     SEL      .0030  ENERGY SLOPE
                   ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                         --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
221 RY        ELEVATION   1220.30   1216.80   1215.50   1211.90   1211.80   1217.30   1217.40   1220.30
220 RX        DISTANCE        .00   1194.00   1486.00   1503.00   1526.00   1532.00   1791.00   2510.00

                                                  ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      2.43      5.44      8.75     12.36     16.26     20.46     24.95     29.75     37.82
          OUTFLOW        .00      9.01     32.21     66.72    111.88    167.56    233.86    310.97    399.17    513.74
        ELEVATION    1211.80   1212.25   1212.69   1213.14   1213.59   1214.04   1214.48   1214.93   1215.38   1215.83

          STORAGE      57.00     87.69    131.91    212.51    333.44    484.41    665.43    876.49   1117.59   1388.75
          OUTFLOW     685.39    945.91   1310.72   1892.40   2843.37   4198.06   6006.23   8318.35  11183.48  14649.62
        ELEVATION    1216.27   1216.72   1217.17   1217.62   1218.06   1218.51   1218.96   1219.41   1219.85   1220.30


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
222 KK    *    SBVIII  *       RUNOFF FROM SUB-BASIN VIII
          *            *
          **************

             SUBBASIN RUNOFF DATA

223 BA          SUBBASIN CHARACTERISTICS
                     TAREA       10.07  SUBBASIN AREA

224 LU          UNIFORM LOSS RATE
                     STRTL         .97  INITIAL LOSS
                     CNSTL         .36  UNIFORM LOSS RATE
                     RTIMP        5.00  PERCENT IMPERVIOUS AREA

225 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        3.94  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                        120 END-OF-PERIOD ORDINATES
             15.       30.       57.       92.      129.      174.      219.      275.      335.      402.
            483.      563.      657.      752.      839.      920.      997.     1052.     1107.     1145.
           1175.     1198.     1203.     1208.     1205.     1200.     1184.     1154.     1123.     1088.
           1053.     1015.      975.      933.      883.      833.      775.      715.      658.      608.
            558.      522.      487.      455.      425.      396.      371.      346.      325.      307.
            289.      271.      252.      237.      222.      207.      192.      177.      167.      157.
            147.      137.      128.      120.      113.      105.       98.       91.       85.       80.
             74.       69.       64.       61.       57.       53.       49.       46.       44.       41.
             38.       35.       33.       31.       29.       27.       25.       24.       22.       21.
             19.       18.       17.       16.       15.       14.       13.       12.       12.       11.
             11.       10.        9.        9.        8.        8.        7.        6.        6.        5.
              5.        4.        4.        3.        3.        2.        2.        1.        1.        0.


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
226 KK    *     SUBIX  *       RUNOFF FROM SUB-BASIN IX
          *            *
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  SUBBASIN RUNOFF DATA

227 BA      SUBBASIN CHARACTERISTICS
                TAREA        9.20  SUBBASIN AREA

 LU         UNIFORM LOSS RATE
                STRTL         .95  INITIAL LOSS
                CNSTL         .40  UNIFORM LOSS RATE
                RTIMP         .00  PERCENT IMPERVIOUS AREA

229 UD      SCS DIMENSIONLESS UNITGRAPH
                TLAG        6.62  LAG

                                        ***

                                   UNIT HYDROGRAPH
                              201 END-OF-PERIOD ORDINATES
     5.      10.      15.      20.      31.      43.      54.      66.      80.      95.
   110.     125.     144.     164.     184.     204.     230.     256.     282.     309.
   339.     371.     402.     433.     460.     487.     513.     540.     559.     577.
   595.     613.     625.     635.     645.     654.     658.     659.     661.     663.
   662.     660.     658.     657.     649.     639.     629.     619.     608.     597.
   585.     573.     561.     548.     534.     521.     506.     489.     473.     456.
   438.     418.     398.     378.     361.     344.     328.     311.     298.     286.
   275.     263.     253.     243.     233.     223.     214.     206.     198.     189.
   182.     176.     170.     164.     158.     152.     146.     140.     135.     130.
   125.     120.     115.     110.     105.     100.      96.      93.      89.      86.
    83.      79.      76.      73.      70.      67.      65.      62.      60.      58.
    55.      53.      50.      49.      47.      45.      43.      41.      39.      38.
    36.      35.      34.      32.      31.      30.      29.      27.      26.      25.
    24.      24.      23.      22.      21.      20.      19.      18.      18.      17.
    16.      16.      15.      14.      14.      13.      13.      12.      12.      11.
    11.      10.      10.      10.       9.       9.       9.       8.       8.       8.
     7.       7.       7.       7.       6.       6.       6.       6.       6.       5.
     5.       5.       5.       5.       4.       4.       4.       4.       4.       4.
     3.       3.       3.       3.       3.       2.       2.       2.       2.       2.
     2.       2.       1.       1.       1.       1.       1.       1.       0.       0.
     0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

**************
*            *
230 KK  *  SUB E  *      RUNOFF FROM SUB-BASIN E
*            *
**************

  SUBBASIN RUNOFF DATA

231 BA      SUBBASIN CHARACTERISTICS
                TAREA        2.72  SUBBASIN AREA

232 LU      UNIFORM LOSS RATE
                STRTL         .95  INITIAL LOSS
                CNSTL         .40  UNIFORM LOSS RATE
                RTIMP        1.00  PERCENT IMPERVIOUS AREA

233 UD      SCS DIMENSIONLESS UNITGRAPH
                TLAG        3.26  LAG

                                        ***

                                   UNIT HYDROGRAPH
                              100 END-OF-PERIOD ORDINATES
     6.      12.      25.      39.      57.      74.      98.     121.     152.     184.
   221.     258.     290.     321.     343.     364.     377.     388.     391.     393.
   391.     389.     378.     366.     353.     339.     324.     308.     289.     269.
   246.     222.     202.     183.     168.     155.     143.     131.     121.     111.
   104.      97.      89.      82.      76.      70.      64.      59.      54.      50.
    47.      43.      40.      37.      34.      31.      28.      26.      24.      22.
    20.      19.      17.      16.      15.      14.      13.      12.      11.      10.
     9.       8.       8.       7.       7.       6.       6.       5.       5.       4.
     4.       4.       4.       3.       3.       3.       3.       2.       2.       2.
     2.       2.       1.       1.       1.       1.       1.       0.       0.       0.
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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
234 KK    *     STR E  *       ROUTE HYDROGRAPH SUB-E THROUGH STRUCTURE E
          *            *
          **************

             HYDROGRAPH ROUTING DATA

236 RL          ROUTING LOSSES
                      QLOSS         .00  INITIAL LOSS
                      CLOSS         .00  ADDITIONAL FRACTION LOST
                     PERCRT       10.00  CHANNEL PERCOLATION RATE
                     ELVINV         .00  INVERT ELEVATION

235 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC       -1.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

236 SA               AREA          .0      7.6      15.3      22.9      30.6      38.2      45.9      53.5

238 SE          ELEVATION         .00     1.00      2.00      3.00      4.00      5.00      6.00      7.00

239 SQ          DISCHARGE          0.     243.      740.     1154.     1622.     2067.     2472.     2766.

                                                                ***

                                                COMPUTED STORAGE-ELEVATION DATA

           STORAGE        .00      2.53     13.76     32.73     59.39     93.72    135.71    185.36
         ELEVATION        .00      1.00      2.00      3.00      4.00      5.00      6.00      7.00


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

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          *            *
240 KK    *     RCH10  *       ROUTE HYDROGRAPH STR E THROUGH REACH 10
          *            *
          **************

             HYDROGRAPH ROUTING DATA

242 RL          ROUTING LOSSES
                      QLOSS         .00  INITIAL LOSS
                      CLOSS         .00  ADDITIONAL FRACTION LOST
                     PERCRT       10.00  CHANNEL PERCOLATION RATE
                     ELVINV         .00  INVERT ELEVATION

241 RS          STORAGE ROUTING
                      NSTPS           8  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC       -1.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

243 RC          NORMAL DEPTH CHANNEL
                        ANL        .070  LEFT OVERBANK N-VALUE
                       ANCH        .035  MAIN CHANNEL N-VALUE
                        ANR        .070  RIGHT OVERBANK N-VALUE
                      RLNTH      21500.  REACH LENGTH
                        SEL       .0056  ENERGY SLOPE
                      ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                          CROSS-SECTION DATA
                            --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
245 RY        ELEVATION     20.00     12.00     12.00     10.00     10.00     12.00     12.00     20.00
244 RX        DISTANCE     100.00    101.00    190.00    195.00    205.00    210.00    299.00    300.00

                                                                ***

                                          COMPUTED STORAGE-OUTFLOW-ELEVATION DATA
```

STORAGE	.00	2.94	6.56	10.87	25.09	76.55	128.05	179.58	231.14	282.73
OUTFLOW	.00	11.37	37.97	78.79	143.38	350.64	676.22	1097.02	1601.42	2181.71
ELEVATION	10.00	10.53	11.05	11.58	12.11	12.63	13.16	13.68	14.21	14.74
STORAGE	334.36	386.03	437.73	489.46	541.23	593.03	644.86	696.73	748.64	800.57
OUTFLOW	2832.19	3548.37	4326.55	5163.61	6056.85	7003.90	8002.67	9051.27	10147.97	11291.23
ELEVATION	15.26	15.79	16.32	16.84	17.37	17.89	18.42	18.95	19.47	20.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 6057. TO 11291.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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          *            *
246 KK    *     CP603  *      COMBINE HYDROGRAPHS RCH14 & SUB VIII & SUB IX & RCH10
          *            *
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247 HC          HYDROGRAPH COMBINATION
                     ICOMP           4  NUMBER OF HYDROGRAPHS TO COMBINE
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          **************
          *            *
248 KK    *     RCH15  *      ROUTE HYDROGRAPH CP603 THROUGH REACH 15
          *            *
          **************

             HYDROGRAPH ROUTING DATA

250 RL          ROUTING LOSSES
                     QLOSS         .00  INITIAL LOSS
                     CLOSS         .00  ADDITIONAL FRACTION LOST
                    PERCRT       10.00  CHANNEL PERCOLATION RATE
                    ELVINV         .00  INVERT ELEVATION

249 RS          STORAGE ROUTING
                     NSTPS           4  NUMBER OF SUBREACHES
                      ITYP        FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC       -1.00  INITIAL CONDITION
                         X         .00  WORKING R AND D COEFFICIENT

251 RC          NORMAL DEPTH CHANNEL
                       ANL        .055  LEFT OVERBANK N-VALUE
                      ANCH        .045  MAIN CHANNEL N-VALUE
                       ANR        .055  RIGHT OVERBANK N-VALUE
                     RLNTH      10400.  REACH LENGTH
                       SEL       .0030  ENERGY SLOPE
                     ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
253 RY        ELEVATION   1200.10   1195.80   1194.70   1189.50   1189.50   1194.40   1196.90   1198.30
252 RX        DISTANCE        .00    227.00   1232.00   1239.00   1255.00   1266.00   1799.00   2061.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.26	4.80	7.59	10.66	13.99	17.59	21.45	25.59	30.35
OUTFLOW	.00	11.10	35.81	71.77	118.46	175.84	244.07	323.40	414.16	519.75
ELEVATION	1189.50	1190.06	1190.62	1191.17	1191.73	1192.29	1192.85	1193.41	1193.96	1194.52
STORAGE	61.86	173.59	353.07	555.06	776.29	1015.42	1272.02	1536.71	1805.33	2077.87
OUTFLOW	720.35	1335.80	2783.24	5030.15	8010.15	11703.84	16184.96	21632.93	27762.86	34548.63
ELEVATION	1195.08	1195.64	1196.19	1196.75	1197.31	1197.87	1198.43	1198.98	1199.54	1200.10

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              **************
              *            *
254 KK        *     SUB X  *       RUNOFF FROM SUB-BASIN X
              *            *
              **************

                 SUBBASIN RUNOFF DATA

255 BA             SUBBASIN CHARACTERISTICS
                        TAREA       18.09  SUBBASIN AREA

256 LU             UNIFORM LOSS RATE
                        STRTL         .97  INITIAL LOSS
                        CNSTL         .33  UNIFORM LOSS RATE
                        RTIMP       10.00  PERCENT IMPERVIOUS AREA

257 UD             SCS DIMENSIONLESS UNITGRAPH
                         TLAG        6.85  LAG
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UNIT HYDROGRAPH
207 END-OF-PERIOD ORDINATES

9.	18.	27.	36.	56.	77.	98.	119.	145.	172.
199.	226.	258.	295.	331.	367.	408.	457.	505.	554.
604.	661.	719.	777.	834.	882.	931.	979.	1028.	1063.
1096.	1129.	1163.	1185.	1203.	1222.	1240.	1249.	1252.	1256.
1259.	1259.	1256.	1253.	1250.	1243.	1225.	1207.	1189.	1170.
1149.	1128.	1107.	1086.	1062.	1037.	1013.	989.	960.	930.
899.	869.	835.	799.	763.	726.	692.	662.	632.	602.
574.	553.	531.	510.	489.	471.	453.	435.	417.	401.
386.	371.	356.	344.	333.	322.	311.	300.	289.	278.
267.	257.	247.	238.	229.	220.	211.	202.	193.	184.
178.	172.	166.	160.	154.	148.	142.	136.	131.	126.
122.	117.	113.	108.	104.	99.	95.	92.	89.	85.
82.	79.	75.	72.	69.	67.	64.	62.	60.	58.
55.	53.	51.	49.	47.	46.	44.	42.	41.	39.
37.	36.	35.	33.	32.	31.	30.	29.	27.	26.
25.	24.	24.	23.	22.	21.	20.	19.	18.	18.
17.	17.	16.	15.	15.	14.	14.	13.	13.	13.
12.	12.	11.	11.	11.	10.	10.	10.	9.	9.
9.	8.	8.	7.	7.	7.	6.	6.	6.	5.
5.	5.	5.	4.	4.	4.	3.	3.	3.	2.
2.	2.	2.	1.	1.	1.	0.			

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              **************
              *            *
258 KK        *     SUBXI  *       RUNOFF FROM SUB-BASIN XI
              *            *
              **************

                 SUBBASIN RUNOFF DATA

259 BA             SUBBASIN CHARACTERISTICS
                        TAREA        4.78  SUBBASIN AREA

260 LU             UNIFORM LOSS RATE
                        STRTL         .96  INITIAL LOSS
                        CNSTL         .39  UNIFORM LOSS RATE
                        RTIMP        2.00  PERCENT IMPERVIOUS AREA

261 UD             SCS DIMENSIONLESS UNITGRAPH
                         TLAG        4.62  LAG
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UNIT HYDROGRAPH
141 END-OF-PERIOD ORDINATES

5.	10.	17.	29.	41.	55.	70.	86.	104.	125.
146.	172.	200.	228.	260.	293.	326.	354.	382.	407.

426.	446.	461.	471.	482.	487.	489.	491.	490.	488.
486.	476.	466.	455.	443.	431.	418.	404.	390.	374.
357.	340.	320.	299.	278.	260.	243.	226.	213.	201.
189.	179.	168.	159.	150.	141.	134.	128.	121.	115.
109.	102.	97.	92.	86.	81.	76.	71.	68.	64.
61.	57.	54.	51.	48.	46.	43.	40.	38.	36.
34.	32.	30.	28.	27.	25.	24.	23.	21.	20.
19.	18.	17.	16.	15.	14.	14.	13.	12.	11.
11.	10.	10.	9.	9.	8.	7.	7.	7.	6.
6.	6.	5.	5.	5.	5.	5.	4.	4.	4.
4.	3.	3.	3.	3.	3.	2.	2.	2.	2.
2.	2.	1.	1.	1.	1.	1.	1.	0.	0.
0.									

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          **************
          *            *
262 KK    *    CP604   *      COMBINE HYDROGRAPHS RCH15 & SUB X & SUB XI
          *            *
          **************

263 HC          HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE
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          **************
          *            *
264 KK    *    RCH16   *      ROUTE HYDROGRAPH CP604 THROUGH REACH 16
          *            *
          **************

             HYDROGRAPH ROUTING DATA

266 RL          ROUTING LOSSES
                     QLOSS        .00  INITIAL LOSS
                     CLOSS        .00  ADDITIONAL FRACTION LOST
                    PERCRT      10.00  CHANNEL PERCOLATION RATE
                    ELVINV        .00  INVERT ELEVATION

265 RS          STORAGE ROUTING
                     NSTPS          3  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

267 RC          NORMAL DEPTH CHANNEL
                       ANL       .055  LEFT OVERBANK N-VALUE
                      ANCH       .045  MAIN CHANNEL N-VALUE
                       ANR       .055  RIGHT OVERBANK N-VALUE
                     RLNTH      8200.  REACH LENGTH
                       SEL      .0030  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                  CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
269 RY       ELEVATION   1181.20   1175.10   1173.30   1165.70   1165.70   1172.40   1175.80   1180.70
268 RX       DISTANCE        .00    478.00    966.00    976.00    994.00   1006.00   1381.00   1907.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.96	6.31	10.04	14.17	18.69	23.59	28.89	34.57	44.85
OUTFLOW	.00	23.48	75.81	152.14	251.62	374.33	520.81	691.78	888.08	1145.31
ELEVATION	1165.70	1166.52	1167.33	1168.15	1168.96	1169.78	1170.59	1171.41	1172.23	1173.04
STORAGE	76.71	154.67	277.66	427.50	600.65	797.05	1016.73	1259.67	1525.87	1812.82
OUTFLOW	1586.65	2499.79	4217.04	6857.55	10387.74	14859.89	20334.90	26875.64	34545.20	43978.84
ELEVATION	1173.86	1174.67	1175.49	1176.31	1177.12	1177.94	1178.75	1179.57	1180.38	1181.20

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          **************
          *            *
270 KK    *   SUBXII   *      RUNOFF FROM SUB-BASIN XII
          *            *
          **************

             SUBBASIN RUNOFF DATA

271 BA          SUBBASIN CHARACTERISTICS
                      TAREA      10.32  SUBBASIN AREA

272 LU          UNIFORM LOSS RATE
                      STRTL        .95  INITIAL LOSS
                      CNSTL        .40  UNIFORM LOSS RATE
                      RTIMP       1.00  PERCENT IMPERVIOUS AREA

273 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG      10.39  LAG

                                                    ***

   *** WARNING ***   UNIT HYDROGRAPH TRUNCATED FROM 314 TO 300 INTERVALS

                                          UNIT HYDROGRAPH
                                   300 END-OF-PERIOD ORDINATES
                                          VOLUME = 1.00
          2.      5.      7.      9.     11.     14.     18.     23.     29.     34.
         39.     45.     51.     57.     64.     71.     78.     85.     92.    101.
        110.    119.    128.    137.    146.    158.    170.    182.    194.    207.
        219.    232.    246.    261.    275.    290.    304.    318.    330.    342.
        354.    366.    378.    390.    399.    407.    415.    424.    432.    440.
        446.    451.    455.    460.    464.    469.    472.    472.    473.    474.
        475.    475.    476.    475.    474.    474.    473.    472.    471.    467.
        463.    458.    454.    449.    445.    440.    434.    429.    424.    418.
        413.    408.    401.    395.    389.    383.    377.    371.    364.    356.
        348.    341.    333.    326.    317.    308.    299.    290.    281.    272.
        263.    256.    248.    240.    233.    225.    218.    213.    207.    202.
        197.    192.    186.    182.    177.    173.    168.    163.    159.    155.
        151.    147.    143.    140.    136.    132.    130.    127.    124.    121.
        119.    116.    113.    110.    108.    105.    102.     99.     97.     95.
         92.     90.     88.     85.     83.     81.     79.     76.     74.     72.
         70.     68.     67.     65.     64.     62.     61.     59.     58.     56.
         55.     53.     52.     50.     49.     48.     47.     46.     45.     43.
         42.     41.     40.     39.     38.     37.     36.     35.     34.     33.
         32.     32.     31.     30.     29.     28.     27.     27.     26.     25.
         25.     24.     24.     23.     23.     22.     21.     21.     20.     20.
         19.     19.     18.     18.     17.     17.     17.     16.     16.     15.
         15.     14.     14.     14.     13.     13.     13.     12.     12.     12.
         12.     11.     11.     11.     10.     10.     10.     10.      9.      9.
          9.      9.      8.      8.      8.      8.      8.      7.      7.      7.
          7.      7.      7.      6.      6.      6.      6.      6.      6.      5.
          5.      5.      5.      5.      5.      5.      5.      5.      5.      4.
          4.      4.      4.      4.      4.      4.      4.      4.      4.      4.
          3.      3.      3.      3.      3.      3.      3.      3.      3.      3.
          3.      2.      2.      2.      2.      2.      2.      2.      2.      2.
          2.      2.      2.      2.      1.      1.      1.      1.      1.      1.
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          **************
          *            *
274 KK    *    CP605   *      COMBINE HYDROGRAPHS RCH16 & SUB XII & RCH9
          *            *
          **************

275 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
     KK   *    RCH17   *       ROUTE HYDROGRAPH CP605 THROUGH REACH 17
          *            *
          **************

             HYDROGRAPH ROUTING DATA

 278 RL         ROUTING LOSSES
                     QLOSS        .00  INITIAL LOSS
                     CLOSS        .00  ADDITIONAL FRACTION LOST
                    PERCRT      10.00  CHANNEL PERCOLATION RATE
                    ELVINV        .00  INVERT ELEVATION

 277 RS         STORAGE ROUTING
                     NSTPS          4  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

 279 RC         NORMAL DEPTH CHANNEL
                       ANL       .055  LEFT OVERBANK N-VALUE
                      ANCH       .045  MAIN CHANNEL N-VALUE
                       ANR       .055  RIGHT OVERBANK N-VALUE
                     RLNTH      9800.  REACH LENGTH
                       SEL      .0030  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 281 RY       ELEVATION   1159.70   1153.30   1153.80   1147.10   1147.10   1151.80   1153.10   1158.60
 280 RX       DISTANCE        .00   1401.00   1617.00   1637.00   1662.00   1694.00   1720.00   2801.00

                                                   ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      4.21      9.40     15.55     22.67     30.76     39.82     49.85     61.40     75.21
          OUTFLOW        .00     23.95     80.28    167.01    285.56    438.01    626.65    853.80   1157.03   1514.94
        ELEVATION    1147.10   1147.76   1148.43   1149.09   1149.75   1150.42   1151.08   1151.74   1152.41   1153.07

          STORAGE     112.90    213.47    355.38    538.40    762.54   1027.78   1334.14   1681.60   2065.95   2473.07
          OUTFLOW    1976.63   2958.29   4567.43   6910.99  10102.72  14250.89  19458.45  25823.72  33918.61  43550.56
        ELEVATION    1153.73   1154.40   1155.06   1155.72   1156.38   1157.05   1157.71   1158.37   1159.04   1159.70


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 282 KK   *   SBXIII   *       RUNOFF FROM SUB-BASIN XIII
          *            *
          **************

             SUBBASIN RUNOFF DATA

 283 BA         SUBBASIN CHARACTERISTICS
                     TAREA       5.03  SUBBASIN AREA

 284 LU         UNIFORM LOSS RATE
                     STRTL        .95  INITIAL LOSS
                     CNSTL        .40  UNIFORM LOSS RATE
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

 285 UD         SCS DIMENSIONLESS UNITGRAPH
                      TLAG       8.10  LAG

                                                   ***

                                              UNIT HYDROGRAPH
                                         245 END-OF-PERIOD ORDINATES
                2.       4.       5.       7.       9.      14.      18.      22.      26.      31.
```

36.	42.	47.	52.	58.	66.	73.	80.	87.	96.
105.	115.	125.	134.	145.	156.	168.	179.	191.	201.
211.	221.	230.	240.	248.	254.	261.	268.	274.	279.
282.	286.	290.	293.	294.	295.	296.	296.	297.	296.
296.	295.	295.	294.	290.	287.	283.	279.	276.	272.
267.	263.	259.	255.	250.	245.	240.	235.	230.	224.
218.	212.	206.	199.	192.	185.	178.	170.	164.	158.
152.	145.	139.	134.	130.	126.	122.	117.	114.	110.
106.	103.	99.	96.	93.	90.	87.	84.	81.	79.
77.	75.	73.	70.	68.	66.	64.	62.	60.	58.
56.	54.	52.	51.	49.	47.	45.	43.	42.	41.
40.	39.	37.	36.	35.	34.	33.	31.	31.	30.
29.	28.	27.	26.	25.	24.	23.	23.	22.	21.
21.	20.	19.	19.	18.	17.	17.	16.	16.	15.
15.	14.	14.	13.	13.	12.	12.	12.	11.	11.
11.	10.	10.	10.	9.	9.	9.	8.	8.	8.
8.	7.	7.	7.	7.	6.	6.	6.	6.	6.
5.	5.	5.	5.	5.	5.	4.	4.	4.	4.
4.	4.	4.	4.	3.	3.	3.	3.	3.	3.
3.	3.	3.	3.	3.	3.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
0.	0.	0.	0.	0.					

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          **************
          *            *
286 KK    *   SUBXIV   *      RUNOFF FROM SUB-BASIN XIV
          *            *
          **************

             SUBBASIN RUNOFF DATA

287 BA          SUBBASIN CHARACTERISTICS
                      TAREA       21.10  SUBBASIN AREA

288 LU          UNIFORM LOSS RATE
                      STRTL         .96  INITIAL LOSS
                      CNSTL         .36  UNIFORM LOSS RATE
                      RTIMP        5.00  PERCENT IMPERVIOUS AREA

289 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG        7.55  LAG
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UNIT HYDROGRAPH
229 END-OF-PERIOD ORDINATES

9.	17.	26.	35.	49.	69.	89.	110.	130.	156.
182.	208.	234.	263.	298.	333.	368.	403.	446.	492.
539.	586.	633.	689.	744.	799.	855.	906.	952.	999.
1045.	1092.	1125.	1157.	1189.	1221.	1248.	1266.	1283.	1301.
1318.	1324.	1327.	1330.	1333.	1335.	1332.	1329.	1326.	1323.
1311.	1294.	1276.	1259.	1241.	1221.	1200.	1180.	1159.	1138.
1114.	1091.	1068.	1044.	1016.	987.	958.	928.	897.	862.
828.	793.	758.	727.	698.	668.	639.	611.	591.	571.
550.	530.	511.	493.	476.	458.	441.	426.	412.	397.
383.	370.	359.	348.	338.	327.	316.	306.	295.	284.
274.	266.	257.	248.	239.	231.	222.	213.	204.	196.
190.	184.	178.	172.	167.	161.	155.	149.	143.	139.
134.	130.	126.	121.	117.	113.	108.	104.	100.	97.
94.	91.	88.	84.	81.	78.	75.	72.	70.	68.
66.	63.	61.	59.	57.	55.	53.	51.	49.	48.
46.	45.	43.	41.	40.	38.	37.	36.	35.	34.
33.	31.	30.	29.	28.	27.	26.	25.	24.	24.
23.	22.	21.	20.	19.	19.	18.	18.	17.	17.
16.	15.	15.	14.	14.	14.	13.	13.	13.	12.
12.	12.	11.	11.	11.	10.	10.	10.	9.	9.
8.	8.	8.	7.	7.	7.	6.	6.	6.	6.
5.	5.	5.	4.	4.	4.	3.	3.	3.	3.
2.	2.	2.	1.	1.	1.	1.	0.	0.	

*** ***

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                **************
                *            *
290 KK          *    CP606   *      COMBINE HYDROGRAPHS RCH17 & SUB XIII & SUB IV
                *            *
                **************

291 HC            HYDROGRAPH COMBINATION
                       ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE
                                                          ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

                **************
                *            *
292 KK          *    CP700   *      COMBINE HYDROGRAPHS CP606 & CP505
                *            *
                **************

293 HC            HYDROGRAPH COMBINATION
                       ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                          ***
1
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
+	HYDROGRAPH AT	SUB A	994.	13.83	448.	115.	83.	2.78		
	ROUTED TO	STR A	671.	14.83	363.	91.	66.	2.78		
+	ROUTED TO	RCH 1	474.	17.33	287.	76.	55.	2.78		
+	HYDROGRAPH AT	SUB B	1872.	14.50	1050.	283.	205.	6.87		
+	ROUTED TO	STR B	1302.	15.67	846.	221.	160.	6.87		
+	ROUTED TO	RCH 2	1214.	16.33	772.	207.	150.	6.87		
+	HYDROGRAPH AT	SUB C	396.	14.00	199.	53.	39.	1.09		
+	ROUTED TO	STR C	388.	14.17	195.	51.	37.	1.09		
+	ROUTED TO	RCH 3	340.	15.00	185.	49.	35.	1.09		
+	2 COMBINED AT	CP500	1449.	16.00	930.	254.	184.	7.96		
+	ROUTED TO	RCH 4	1392.	16.33	887.	244.	177.	7.96		
+	2 COMBINED AT	CP501	1759.	16.83	1158.	316.	229.	10.74		
	ROUTED TO	RCH 5	1740.	17.17	1151.	316.	229.	10.74		
+	HYDROGRAPH AT	SUB I	2684.	20.00	2485.	1187.	859.	32.21		
	2 COMBINED AT									

+	CP502	3702.	17.83	3260.	1448.	1049.	42.95
ROUTED TO +	RCH 6	3628.	19.33	3211.	1427.	1033.	42.95
HYDROGRAPH AT +	SUB II	1620.	15.00	1037.	295.	213.	7.10
2 COMBINED AT +	CP503	3856.	19.00	3394.	1674.	1211.	50.05
ROUTED TO +	RCH 7	3790.	20.00	3373.	1660.	1201.	50.05
HYDROGRAPH AT +	SUBIII	1021.	16.83	824.	286.	207.	7.02
2 COMBINED AT +	CP504	4282.	19.50	3815.	1901.	1376.	57.07
ROUTED TO +	RCH 8	4144.	21.17	3787.	1880.	1361.	57.07
HYDROGRAPH AT +	SUBIV	831.	21.00	780.	394.	285.	10.54
2 COMBINED AT +	CP505	4838.	21.17	4443.	2211.	1600.	67.61
HYDROGRAPH AT +	SUB D	1540.	17.17	1276.	462.	335.	11.06
ROUTED TO +	STR D	1287.	18.00	1076.	382.	276.	11.06
ROUTED TO +	RCH 9	954.	21.17	758.	281.	203.	11.06
HYDROGRAPH AT +	SUB145	2311.	16.50	1822.	637.	464.	12.83
ROUTED TO +	RCH65	2007.	17.83	1533.	543.	394.	12.83
HYDROGRAPH AT +	SUB F	2970.	25.00	2885.	1660.	1201.	60.10
2 COMBINED AT +	CP400	3444.	21.00	3400.	2125.	1538.	72.93
ROUTED TO +	STR F	2749.	23.67	2708.	1646.	1191.	72.93
ROUTED TO +	RCH11	2621.	24.00	2581.	1497.	1084.	72.93
HYDROGRAPH AT +	SUB V	674.	14.33	375.	101.	73.	2.45
2 COMBINED AT +	CP600	2621.	24.00	2582.	1582.	1145.	75.38
ROUTED TO +	RCH12	2615.	24.50	2576.	1534.	1110.	75.38
HYDROGRAPH AT +	SUBVI	1081.	17.00	892.	321.	233.	7.60
2 COMBINED AT +	CP601	2819.	22.00	2762.	1804.	1306.	82.98
ROUTED TO +	RCH13	2817.	22.33	2760.	1788.	1294.	82.98
HYDROGRAPH AT +	SUBVII	549.	17.33	459.	168.	122.	4.08
2 COMBINED AT +	CP602	2980.	21.50	2909.	1927.	1395.	87.06

+	ROUTED TO	RCH14	2963.	22.83	2884.	1819.	1317.	87.06
+	HYDROGRAPH AT	SBVIII	1942.	15.83	1421.	454.	329.	10.07
	HYDROGRAPH AT	SUBIX	991.	18.50	879.	364.	263.	9.20
+	HYDROGRAPH AT	SUB E	602.	15.17	392.	113.	82.	2.72
+	ROUTED TO	STR E	533.	15.33	348.	95.	69.	2.72
+	ROUTED TO	RCH10	404.	17.67	281.	81.	58.	2.72
+	4 COMBINED AT	CP603	4061.	17.50	3854.	2561.	1855.	109.05
+	ROUTED TO	RCH15	3983.	18.67	3828.	2421.	1753.	109.05
+	HYDROGRAPH AT	SUB X	2128.	18.67	1913.	845.	615.	18.09
+	HYDROGRAPH AT	SUBXI	760.	16.50	598.	202.	147.	4.78
+	3 COMBINED AT	CP604	6289.	18.33	5749.	3305.	2396.	131.92
+	ROUTED TO	RCH16	6234.	19.17	5714.	3229.	2339.	131.92
+	HYDROGRAPH AT	SUBXII	719.	22.17	685.	370.	268.	10.32
+	3 COMBINED AT	CP605	7091.	20.33	6685.	3738.	2708.	153.30
+	ROUTED TO	RCH17	7045.	21.33	6640.	3638.	2633.	153.30
+	HYDROGRAPH AT	SBXIII	448.	20.00	413.	195.	141.	5.03
+	HYDROGRAPH AT	SUBXIV	2075.	19.33	1897.	874.	634.	21.10
+	3 COMBINED AT	CP606	8985.	20.83	8405.	4522.	3274.	179.43
+	2 COMBINED AT	CP700	13220.	21.00	12308.	6461.	4678.	247.04

*** NORMAL END OF HEC-1 ***

APPENDIX C

HEC-2 PRINTOUT (East Prong)

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1*****************************************************
 *  WATER SURFACE PROFILES                           *
 *  VERSION OF NOVEMBER 1976                         *
 *  UPDATED MAY 1984                                 *
 *  IBM-PC-XT VERSION AUGUST 1985                    *
 *  RUN DATE  10-31-91   TIME  15:03:01              *
 *      !!! HAPPY HALLOWEEN !!!                      *
 *****************************************************
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****************************************
 *  U.S. ARMY CORPS OF ENGINEERS        *
 *  THE HYDROLOGIC ENGINEERING CENTER   *
 *  609 SECOND STREET, SUITE D          *
 *  DAVIS, CALIFORNIA 95616             *
     *  (916) 440-2105 (FTS) 448-2105
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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1
 10-31-91     15:03:02                                                                    PAGE    1
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                                                                    THIS RUN EXECUTED 10-31-91
*****************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
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C
T1      WATERMAN WASH FLOOD INSURANCE STUDY - STANLEY CONSULTANTS (SCI#10512)
T2      EAST PRONG - UPPER WATERSHED - 100 YR Q - NATURAL PROFILE
        WATERMAN WASH - EAST PRONG UPPER   FILE NAME IS: WWH2EPF  DATE: 8-24-91

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        2.        0.        0.   .002800      .00        .0        0.  1127.430      .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     .000      .000    -1.000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   110.000   150.000   200.000      .000      .000      .000      .000      .000      .000      .000


NC      .055      .060      .050      .100      .300      .000      .000      .000      .000      .000
QT     3.000 13200.000 13200.000 13200.000      .000      .000      .000      .000      .000      .000
ET      .000      .000    10.400     9.100      .000      .000      .000      .000  1540.000  1960.000

          CROSS SECTIONS ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM

          ZERO POINT FOR CROSS SECTION GR STATIONING CORRESPONDS TO LEFT
             END OF CROSS SECTION LINE

          STARTING WATER SURFACE ELEVATION BASED ON SLOPE-AREA METHOD
             USING ESTIMATED SLOPE OF 0.0028 FT/FT

          FINAL ENCROACHMENT STATIONS USE TYPE 1 ENCROACHMENT METHOD BASED
             ON RESULTS OF TYPE  4 ENCROACHMENT

X1      1.000    29.000  1540.100  1958.100      .000      .000      .000      .000      .000      .000
GR   1132.000      .000  1129.400   574.900  1128.500   640.000  1127.600  1089.400  1126.200  1540.100
GR   1118.500  1557.100  1119.900  1598.300  1121.100  1648.400  1122.000  1659.400  1121.900  1659.500
GR   1124.000  1699.000  1122.500  1854.800  1120.200  1873.100  1120.200  1942.800  1126.300  1958.100
GR   1126.900  1988.100  1124.400  2007.500  1125.100  2022.200  1126.400  2034.800  1125.700  2178.400
GR   1124.300  2188.400  1125.300  2203.100  1125.700  2248.700  1126.500  2476.600  1127.700  2740.400
GR   1129.300  3057.700  1131.100  3335.500  1132.600  3648.300  1132.600  3734.100      .000      .000
1
 10-31-91     15:03:02                                                                    PAGE    2
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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1270.000	2020.000
X1	2.000	42.000	1257.200	2027.500	1015.000	915.000	955.000	.000	.000	.000
GR	1137.500	.000	1137.300	245.700	1137.000	337.100	1135.400	481.600	1132.600	736.900
GR	1131.900	991.900	1127.400	1024.000	1131.700	1052.000	1130.300	1257.200	1130.000	1305.200
GR	1127.000	1317.000	1130.000	1329.700	1127.400	1344.500	1127.300	1373.100	1129.300	1387.900
GR	1128.800	1455.900	1126.400	1472.500	1126.400	1525.200	1121.000	1542.000	1121.000	1552.400
GR	1120.900	1552.500	1121.000	1576.900	1123.900	1590.800	1123.800	1630.900	1126.700	1677.900
GR	1126.400	1731.700	1129.500	1759.700	1130.000	1842.100	1122.200	1867.800	1130.000	1889.300
GR	1129.600	1933.500	1124.500	1978.200	1126.800	2027.500	1127.900	2186.900	1126.200	2198.000
GR	1127.700	2210.200	1129.600	2638.300	1130.900	2925.800	1132.300	3208.900	1134.900	3562.400
GR	1133.300	3598.700	1135.200	3837.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1380.000	2090.000
X1	3.000	40.000	1556.200	1841.200	1070.000	1010.000	1040.000	.000	.000	.000
GR	1137.500	.000	1134.700	470.900	1133.500	700.000	1131.400	726.700	1133.800	752.500
GR	1132.800	960.700	1132.100	1101.200	1129.100	1138.700	1132.300	1154.300	1132.300	1189.500
GR	1130.300	1206.600	1132.800	1237.400	1129.300	1251.600	1132.400	1265.100	1132.200	1281.200
GR	1131.400	1305.500	1128.700	1316.800	1131.600	1333.300	1131.700	1408.400	1129.200	1439.500
GR	1132.300	1469.500	1132.700	1556.200	1125.500	1578.600	1124.000	1634.500	1131.400	1655.600
GR	1126.200	1698.100	1125.900	1734.500	1128.700	1752.200	1126.600	1780.100	1130.200	1841.200
GR	1131.100	2030.000	1128.300	2058.700	1130.700	2074.500	1130.300	2134.700	1132.100	2220.700
GR	1132.300	2512.600	1130.400	2531.200	1132.900	2586.500	1135.900	3068.900	1136.300	3251.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1330.000	2040.000
X1	4.000	26.000	1328.400	1793.300	740.000	780.000	740.000	.000	.000	.000
GR	1138.800	.000	1136.700	539.200	1134.800	866.400	1134.200	1166.400	1133.200	1232.600
GR	1134.700	1275.200	1135.200	1328.400	1130.700	1347.400	1130.700	1414.500	1134.100	1456.200
GR	1134.800	1540.300	1127.100	1564.600	1126.600	1630.800	1133.600	1650.200	1129.600	1706.600
GR	1133.200	1793.300	1139.700	1825.400	1134.000	1858.800	1134.100	1918.500	1130.600	2010.900
GR	1134.400	2109.500	1130.300	2129.900	1133.300	2173.000	1134.900	2484.900	1138.100	3042.500
GR	1139.100	3237.200	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1050.000	1970.000
X1	5.000	26.000	1358.900	1529.400	705.000	725.000	705.000	.000	.000	.000
GR	1140.800	.000	1138.200	561.800	1136.500	579.400	1138.200	591.600	1137.200	852.700
GR	1137.200	1005.500	1136.500	1103.700	1137.700	1232.400	1137.600	1346.700	1138.800	1358.900
GR	1132.800	1376.200	1129.300	1413.600	1129.400	1465.000	1128.400	1501.600	1136.000	1529.400
GR	1136.300	1584.200	1136.000	1611.700	1133.700	1645.200	1135.200	1744.200	1135.400	2078.600
GR	1136.600	2100.100	1133.000	2121.700	1135.200	2155.200	1137.400	2562.800	1138.600	2885.500
GR	1139.300	3046.900	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	11800.000	11800.000	11800.000	.000	.000	.000	.000	.000	.000
ET	.000	7.100	.000	9.100	.000	.000	1551.900	3054.000	1551.900	2190.000
X1	6.000	30.000	1745.900	1828.100	490.000	520.000	500.000	.000	.000	.000
GR	1141.100	.000	1140.400	327.200	1138.000	343.800	1139.400	364.900	1139.200	588.500
GR	1138.100	609.400	1139.000	646.400	1138.300	1130.900	1132.900	1167.800	1130.900	1210.000
GR	1132.600	1231.200	1132.000	1310.300	1137.200	1322.700	1137.300	1551.800	1137.700	1551.900
GR	1136.200	1651.500	1132.300	1667.800	1136.600	1681.600	1137.800	1745.900	1127.700	1766.900
GR	1127.900	1786.800	1138.600	1828.100	1135.700	1841.500	1136.100	2236.500	1138.500	2250.300
GR	1135.600	2261.100	1136.200	2377.100	1137.100	2615.000	1138.800	2963.700	1139.300	3054.000

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QT	3.000	10400.000	10400.000	10400.000	.000	.000	.000	.000	.000	.000
ET	.000	7.100	.000	9.100	.000	.000	1730.600	3207.700	1730.600	2600.000
X1	7.000	58.000	2219.600	2289.200	500.000	500.000	500.000	.000	.000	.000
GR	1144.400	.000	1144.000	63.400	1141.900	80.000	1143.400	89.600	1143.100	195.200
GR	1140.900	208.100	1142.500	223.300	1141.600	439.200	1140.800	453.600	1141.800	471.500
GR	1140.800	679.500	1139.500	697.400	1140.400	829.400	1137.700	854.500	1141.000	905.400
GR	1131.800	941.200	1137.600	959.400	1140.400	984.100	1140.800	1033.100	1136.300	1061.200
GR	1136.700	1120.700	1140.000	1144.400	1140.100	1174.300	1136.900	1185.800	1137.800	1245.000
GR	1135.900	1261.200	1134.400	1383.900	1138.300	1395.400	1134.700	1410.600	1134.700	1442.300
GR	1138.500	1459.500	1137.700	1549.300	1142.300	1555.200	1142.000	1581.400	1139.800	1588.400
GR	1139.800	1730.600	1139.900	1730.700	1139.900	1959.300	1141.000	1995.900	1140.900	2038.300
GR	1136.100	2053.100	1136.100	2087.800	1138.100	2098.000	1133.300	2123.500	1137.400	2145.700
GR	1137.600	2201.200	1139.000	2219.600	1129.700	2242.500	1129.500	2276.000	1138.500	2289.200
GR	1138.500	2313.300	1137.300	2386.200	1137.600	2528.900	1135.700	2539.600	1137.600	2574.800
GR	1136.600	2595.300	1139.600	3114.300	1141.500	3207.700	.000	.000	.000	.000
QT	3.000	9000.000	9000.000	9000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	750.000	1450.000
X1	8.000	29.000	1046.300	1230.800	500.000	500.000	500.000	.000	.000	.000
GR	1142.800	.000	1142.800	224.700	1139.700	240.000	1139.700	467.900	1142.400	487.000
GR	1138.500	505.700	1138.700	954.600	1139.800	964.500	1139.800	978.700	1137.700	982.000
GR	1138.800	1046.300	1131.200	1079.000	1130.900	1107.200	1138.800	1132.600	1139.100	1182.000
GR	1134.200	1205.800	1138.400	1230.800	1138.100	1334.800	1138.000	1499.100	1139.300	1770.100

GR	1138.200	1779.400	1139.600	1795.600	1140.100	1950.800	1140.000	1950.900	1141.200	2106.100
GR	1142.100	2253.300	1142.900	2346.800	1143.800	2472.600	1143.900	2487.800	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1350.000	1920.000
X1	9.000	44.000	1556.200	1831.700	485.000	505.000	485.000	.000	.000	.000
GR	1144.600	.000	1145.100	333.500	1144.900	346.400	1143.700	633.900	1144.300	653.300
GR	1143.400	676.000	1144.400	698.300	1142.200	717.800	1142.400	1039.500	1143.200	1054.400
GR	1141.100	1067.500	1140.600	1349.300	1143.100	1373.100	1141.400	1398.400	1137.700	1465.400
GR	1137.300	1511.400	1140.100	1556.200	1132.400	1574.100	1132.400	1594.400	1139.800	1625.100
GR	1137.200	1727.200	1139.400	1743.300	1139.600	1806.000	1137.300	1815.700	1139.100	1831.700
GR	1139.200	1865.900	1138.400	1871.300	1139.400	1897.800	1140.000	2052.000	1139.600	2052.100
GR	1141.000	2350.000	1141.300	2405.100	1140.100	2414.500	1141.300	2424.400	1141.400	2451.200
GR	1140.700	2471.900	1141.600	2495.200	1141.700	2576.600	1140.500	2587.000	1142.300	2601.800
GR	1142.800	2714.100	1143.600	2837.800	1144.600	2995.800	1145.700	3090.800	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1120.000	1870.000
X1	10.000	46.000	1533.600	1788.100	465.000	475.000	490.000	.000	.000	.000
GR	1146.800	.000	1145.900	166.400	1146.800	205.600	1144.800	223.400	1145.200	324.600
GR	1146.800	344.600	1144.800	364.400	1145.000	582.100	1143.900	602.500	1143.400	955.300
GR	1144.600	969.200	1142.600	980.800	1142.800	1040.300	1144.800	1056.700	1139.200	1106.700
GR	1138.600	1145.200	1142.600	1185.300	1145.900	1225.900	1146.500	1296.700	1147.900	1471.400
GR	1148.200	1511.000	1148.400	1533.600	1133.900	1660.700	1136.700	1660.800	1133.300	1679.900
GR	1133.100	1703.200	1137.600	1743.000	1141.100	1788.100	1141.800	1835.100	1141.100	1982.200
GR	1141.200	2156.600	1139.400	2171.000	1141.400	2187.500	1142.100	2376.600	1143.400	2606.500
GR	1145.200	2856.200	1146.200	2871.400	1143.900	2888.300	1145.300	2911.000	1146.200	3076.300
GR	1145.500	3091.500	1146.400	3114.200	1147.300	3251.200	1145.600	3258.200	1147.700	3281.300
GR	1147.700	3316.500	.000	.000	.000	.000	.000	.000	.000	.000

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QT	3.000	8600.000	8600.000	8600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1010.000	1870.000
X1	11.000	33.000	1493.200	1700.000	460.000	465.000	460.000	.000	.000	.000
GR	1146.900	.000	1144.400	809.600	1145.000	941.000	1147.300	965.900	1140.100	1003.100
GR	1139.400	1118.500	1146.800	1152.000	1142.400	1246.000	1143.000	1323.800	1143.700	1323.900
GR	1143.700	1338.400	1146.700	1362.700	1147.100	1379.300	1138.700	1402.100	1138.700	1444.600
GR	1149.600	1464.800	1150.200	1493.200	1140.200	1573.300	1138.700	1599.400	1134.800	1627.000
GR	1135.100	1657.600	1139.400	1673.000	1142.100	1700.000	1142.400	1877.200	1142.500	2007.300
GR	1142.500	2138.400	1140.800	2159.000	1142.300	2192.500	1143.200	2415.300	1145.100	2688.100
GR	1146.000	2877.500	1147.300	3116.700	1146.400	3183.300	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1090.000	1740.000
X1	12.000	35.000	1347.900	1561.800	490.000	485.000	495.000	.000	.000	.000
GR	1148.000	.000	1147.000	438.300	1146.100	633.600	1145.300	891.100	1145.200	891.200
GR	1144.500	1048.000	1145.200	1101.700	1141.900	1118.100	1141.600	1131.000	1150.600	1177.700
GR	1150.800	1196.600	1143.200	1222.400	1144.100	1257.700	1143.500	1279.100	1147.800	1293.300
GR	1147.200	1326.300	1144.400	1333.600	1147.200	1347.900	1141.600	1398.800	1137.500	1413.800
GR	1136.700	1472.200	1139.500	1487.100	1138.000	1531.300	1142.900	1561.800	1144.000	1603.600
GR	1143.400	1873.800	1141.900	1883.500	1143.300	1900.200	1143.400	2003.400	1142.300	2034.800
GR	1143.600	2104.600	1145.500	2577.600	1147.200	2785.500	1149.300	3033.600	1150.200	3172.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1150.000	1720.000
X1	13.000	32.000	1339.900	1505.100	510.000	495.000	500.000	.000	.000	.000
GR	1148.600	.000	1148.800	115.100	1147.800	431.300	1147.900	431.400	1146.000	846.100
GR	1144.900	1102.300	1145.600	1111.900	1145.600	1145.300	1142.900	1157.500	1151.100	1206.500
GR	1151.100	1225.500	1143.400	1242.600	1143.000	1285.800	1144.900	1325.500	1149.600	1339.900
GR	1145.300	1379.600	1137.900	1435.000	1137.900	1476.200	1144.400	1505.100	1144.700	1645.500
GR	1143.200	1700.000	1144.600	1731.600	1143.900	1849.900	1144.600	2047.300	1143.400	2061.600
GR	1145.100	2076.400	1145.900	2288.100	1146.400	2544.900	1147.900	2785.000	1150.200	2990.800
GR	1150.800	3096.500	1152.100	3205.800	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1020.000	1570.000
X1	14.000	29.000	1108.600	1414.600	465.000	450.000	450.000	.000	.000	.000
GR	1149.900	.000	1149.300	18.600	1151.100	31.100	1151.100	46.700	1148.800	53.000
GR	1148.100	427.700	1145.700	1085.800	1148.400	1108.600	1144.500	1127.300	1144.600	1222.000
GR	1140.300	1248.300	1145.400	1262.200	1139.100	1298.300	1144.400	1313.600	1145.700	1359.500
GR	1138.400	1373.600	1138.400	1394.300	1145.600	1414.600	1146.100	1496.800	1145.600	1758.100
GR	1145.800	1987.400	1143.900	1997.000	1146.300	2011.400	1147.600	2262.300	1148.400	2563.100
GR	1149.700	2774.600	1151.100	2983.200	1150.300	3000.800	1151.100	3013.400	.000	.000
QT	3.000	8200.000	8200.000	8200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1300.000	1990.000
X1	15.000	34.000	1625.400	1673.600	600.000	485.000	510.000	.000	.000	.000
GR	1152.000	.000	1150.100	490.000	1151.200	513.200	1148.900	567.500	1148.600	657.900
GR	1147.200	675.600	1148.700	717.200	1148.700	774.200	1146.000	795.500	1150.100	811.200
GR	1147.900	818.200	1147.900	1008.900	1146.700	1289.100	1144.000	1328.600	1146.600	1376.700
GR	1143.800	1392.400	1146.500	1408.600	1146.500	1533.000	1147.400	1604.400	1146.600	1625.400
GR	1139.700	1632.600	1139.700	1656.300	1147.400	1673.600	1147.200	1769.200	1147.400	2047.500

GR	1147.100	2133.500	1147.400	2223.200	1145.200	2231.500	1147.500	2242.400	1148.300	2403.700
GR	1148.800	2746.600	1149.900	2966.000	1151.000	3150.900	1151.500	3268.700	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1360.000	2040.000
X1	16.000	49.000	1694.900	1760.800	495.000	505.000	500.000	.000	.000	.000
GR	1152.400	.000	1151.200	335.900	1152.400	352.600	1150.600	388.400	1151.500	415.900
GR	1149.900	426.800	1151.100	438.600	1149.600	447.500	1151.200	465.600	1149.600	481.400
GR	1151.000	498.600	1150.500	624.300	1149.200	642.900	1150.200	657.700	1149.200	1103.000
GR	1147.000	1123.500	1147.100	1141.400	1149.900	1153.100	1147.300	1202.000	1148.500	1229.700
GR	1148.100	1487.400	1148.100	1694.900	1141.300	1707.400	1141.100	1738.100	1148.600	1760.800
GR	1148.100	1814.900	1146.900	1829.500	1148.500	1859.900	1148.500	1936.800	1145.400	1949.600
GR	1145.400	1966.700	1147.700	2003.300	1147.800	2074.800	1144.300	2086.000	1147.800	2106.900
GR	1145.100	2132.000	1147.700	2158.000	1147.700	2203.600	1146.200	2216.500	1148.700	2240.000
GR	1149.200	2354.600	1147.800	2367.000	1149.600	2389.400	1150.700	2611.400	1149.700	2642.900
GR	1151.100	2715.300	1152.300	2918.400	1154.200	3184.900	1155.300	3362.200	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1320.000	1860.000
X1	17.000	27.000	1375.800	1637.300	550.000	495.000	500.000	.000	.000	.000
GR	1159.700	.000	1159.300	26.300	1153.700	81.500	1153.300	270.000	1152.200	486.200
GR	1151.500	784.700	1150.200	1159.600	1150.000	1375.800	1147.200	1397.500	1151.900	1420.400
GR	1145.800	1452.000	1148.700	1523.900	1146.600	1539.900	1150.400	1563.000	1141.900	1584.800
GR	1142.200	1612.400	1150.000	1637.300	1150.000	1818.000	1150.100	2240.000	1148.800	2259.000
GR	1150.500	2290.500	1148.800	2312.200	1150.500	2344.500	1152.700	2652.000	1156.100	3015.000
GR	1157.600	3335.900	1157.600	3336.000	.000	.000	.000	.000	.000	.000
QT	3.000	7800.000	7800.000	7800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1450.000	2020.000
X1	18.000	27.000	1673.000	1883.500	570.000	510.000	545.000	.000	.000	.000
GR	1157.500	.000	1157.700	175.200	1155.300	461.300	1152.700	766.800	1151.500	1197.600
GR	1150.700	1400.000	1148.500	1421.600	1150.800	1450.600	1151.000	1673.000	1147.800	1686.600
GR	1152.700	1711.400	1145.200	1792.200	1144.600	1866.100	1149.800	1883.500	1150.500	1976.900
GR	1148.900	2011.100	1150.900	2075.500	1150.900	2110.300	1148.600	2119.200	1151.500	2134.600
GR	1151.200	2302.300	1149.800	2313.700	1151.600	2335.900	1153.900	2715.900	1155.600	2972.900
GR	1157.700	3313.500	1157.800	3313.600	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1470.000	2100.000
X1	19.000	26.000	1852.800	1927.800	500.000	500.000	500.000	.000	.000	.000
GR	1159.000	.000	1158.800	143.700	1156.300	339.300	1154.100	654.000	1153.400	885.700
GR	1152.500	1398.600	1149.600	1417.300	1151.800	1454.700	1152.600	1600.100	1152.700	1768.300
GR	1151.400	1787.000	1152.700	1852.800	1144.900	1869.900	1145.300	1894.200	1152.400	1927.800
GR	1151.700	2044.100	1152.500	2269.700	1151.100	2281.700	1152.800	2293.200	1153.800	2538.400
GR	1152.900	2546.600	1153.100	2603.700	1154.700	2630.400	1156.900	2948.400	1157.900	3117.200
GR	1159.500	3292.500	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	7600.000	7600.000	7600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1260.000	1920.000
X1	20.000	32.000	1616.500	1694.000	490.000	510.000	500.000	.000	.000	.000
GR	1159.700	.000	1156.900	257.800	1155.200	444.300	1154.000	663.500	1154.500	826.300
GR	1153.900	1031.800	1152.400	1052.800	1152.200	1080.600	1153.800	1111.200	1153.700	1287.900
GR	1153.300	1400.700	1152.500	1448.900	1153.800	1486.200	1153.800	1616.500	1147.100	1637.600
GR	1147.100	1662.200	1151.800	1694.000	1153.100	1720.200	1153.600	1876.700	1151.600	1894.600
GR	1151.600	1938.700	1153.600	1968.700	1153.800	2226.600	1152.600	2234.200	1154.100	2247.200
GR	1154.100	2268.600	1153.000	2278.300	1154.300	2297.500	1154.700	2419.700	1156.600	2625.900
GR	1158.600	2800.500	1160.400	2942.400	.000	.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1170.000	1710.000
X1	21.000	25.000	1281.200	1412.000	530.000	500.000	520.000	.000	.000	.000
GR	1158.800	.000	1158.300	102.100	1157.200	269.600	1156.500	420.100	1157.300	420.200
GR	1156.600	459.200	1155.200	480.200	1156.500	518.300	1156.400	824.600	1155.300	1086.400
GR	1152.900	1281.200	1149.100	1357.300	1147.700	1381.700	1153.300	1412.000	1151.500	1437.800
GR	1154.300	1503.900	1154.900	1704.000	1154.300	1866.700	1155.100	2107.300	1154.300	2135.600
GR	1155.500	2175.000	1156.700	2432.800	1158.100	2597.200	1160.100	2759.300	1160.200	2759.400
NC	.060	.065	.050	.000	.000	.000	.000	.000	.000	.000
QT	3.000	7300.000	7300.000	7300.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	880.000	1430.000
X1	22.000	31.000	1004.800	1130.200	520.000	490.000	505.000	.000	.000	.000
GR	1159.800	.000	1158.800	111.200	1157.700	124.800	1157.800	177.000	1158.900	194.600
GR	1158.700	295.500	1157.800	372.200	1158.100	603.400	1158.300	603.500	1156.100	675.400
GR	1157.200	724.300	1156.500	1004.800	1155.000	1064.600	1149.300	1081.900	1149.300	1103.200
GR	1157.000	1130.200	1155.700	1376.900	1155.800	1547.900	1154.700	1562.000	1155.200	1597.600
GR	1156.200	1611.000	1156.600	1765.100	1154.900	1773.200	1156.700	1785.500	1156.700	1861.200

GR	1155.200	1878.000	1157.000	1906.200	1158.500	2221.000	1157.400	2234.600	1159.200	2256.900
GR	1160.800	2495.100	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1200.000	1750.000
X1	23.000	28.000	1363.400	1423.000	510.000	500.000	500.000	.000	.000	.000
	1163.000	.000	1162.400	127.100	1160.500	139.400	1162.100	156.400	1161.700	275.100
	1162.200	449.600	1159.600	692.100	1160.000	870.100	1158.000	1005.200	1157.400	1123.800
	1157.400	1133.000	1157.700	1133.100	1157.200	1326.000	1158.500	1363.400	1150.600	1375.300
GR	1150.900	1404.500	1157.900	1423.000	1158.700	1443.700	1157.500	1706.100	1158.500	1946.000
GR	1157.200	1961.600	1158.800	1977.200	1158.600	2148.100	1156.700	2154.300	1159.000	2178.400
GR	1159.800	2376.100	1161.300	2665.100	1163.600	3039.200	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1120.000	1600.000
X1	24.000	37.000	1306.400	1371.900	490.000	510.000	500.000	.000	.000	.000
GR	1163.400	.000	1162.700	24.500	1164.000	67.600	1164.100	165.000	1164.000	256.900
GR	1163.400	318.200	1162.400	449.500	1162.200	496.500	1162.300	652.200	1161.400	728.500
GR	1161.800	810.000	1158.900	948.500	1158.900	1068.600	1158.600	1199.400	1159.200	1250.300
GR	1159.300	1250.400	1159.300	1288.700	1161.000	1306.400	1152.600	1319.400	1152.300	1343.800
GR	1158.500	1371.900	1159.400	1631.200	1160.200	1756.000	1159.800	1756.100	1161.500	2070.700
GR	1162.000	2255.500	1163.600	2414.700	1162.300	2436.700	1163.900	2496.800	1162.400	2505.700
GR	1164.900	2522.200	1163.400	2540.600	1164.700	2600.300	1165.000	2674.800	1164.100	2677.700
GR	1165.300	2693.300	1165.400	2771.500	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1390.000	1860.000
X1	25.000	39.000	1542.200	1592.800	495.000	500.000	500.000	.000	.000	.000
GR	1165.600	.000	1165.700	97.500	1166.700	241.200	1166.300	357.500	1165.700	469.400
GR	1165.600	600.700	1166.100	714.000	1165.900	784.000	1164.300	932.600	1163.200	989.700
GR	1162.800	1059.000	1161.400	1170.000	1160.500	1290.800	1160.300	1492.300	1161.100	1542.200
GR	1153.400	1556.200	1153.100	1581.500	1160.800	1592.800	1159.600	1677.500	1159.300	1759.700
GR	1159.800	1815.500	1158.000	1823.500	1160.500	1836.900	1160.700	1868.700	1160.600	1868.800
GR	1160.600	1889.000	1159.500	1898.700	1160.700	1919.800	1160.700	2013.500	1159.300	2022.900
GR	1160.900	2044.600	1162.900	2362.400	1162.000	2370.200	1162.900	2388.800	1162.100	2398.100
GR	1163.600	2427.700	1166.500	2846.400	1165.700	2865.800	1165.900	2916.400	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1450.000	1890.000
	26.000	31.000	1622.900	1679.300	500.000	500.000	500.000	.000	.000	.000
	1169.000	.000	1169.000	186.200	1169.500	351.100	1169.000	537.700	1167.900	717.500
	1166.900	867.500	1165.200	983.400	1163.100	1218.700	1161.400	1250.200	1162.700	1264.100
GR	1161.800	1385.000	1161.700	1460.900	1162.100	1587.000	1162.700	1622.900	1154.500	1635.700
GR	1154.500	1661.800	1162.000	1679.300	1161.200	1724.300	1161.500	1876.900	1162.900	2099.000
GR	1162.000	2121.400	1163.000	2147.100	1164.200	2336.800	1164.400	2342.800	1164.300	2342.900
GR	1166.100	2488.500	1167.700	2677.100	1168.800	2844.700	1167.700	2855.400	1169.000	2871.300
GR	1169.100	2939.600	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	7000.000	7000.000	7000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1210.000	1620.000
X1	27.000	25.000	1400.600	1467.300	480.000	500.000	490.000	.000	.000	.000
GR	1169.600	.000	1169.900	205.700	1169.000	341.400	1167.200	434.000	1166.300	544.100
GR	1165.400	569.300	1165.500	705.300	1165.500	873.700	1165.100	976.600	1163.500	1087.500
GR	1162.800	1241.100	1163.300	1400.600	1156.100	1421.600	1156.100	1443.300	1162.700	1467.300
GR	1162.900	1491.900	1162.200	1583.600	1163.800	1753.900	1161.800	1771.000	1164.200	1791.500
GR	1165.200	1947.800	1166.100	2119.700	1168.100	2274.700	1169.400	2463.000	1170.400	2651.400
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1100.000	1540.000
X1	28.000	28.000	1305.600	1340.600	480.000	490.000	485.000	.000	.000	.000
GR	1171.100	.000	1171.300	170.300	1169.900	254.200	1168.800	353.100	1168.500	547.800
GR	1168.500	614.900	1165.400	818.800	1165.200	1068.900	1165.000	1178.200	1158.200	1187.500
GR	1158.200	1204.000	1163.300	1224.600	1164.300	1305.600	1156.500	1313.900	1156.800	1330.100
GR	1164.100	1340.600	1163.900	1385.500	1163.700	1474.500	1164.600	1631.500	1167.400	1912.300
GR	1168.300	2043.200	1169.000	2174.500	1167.400	2186.600	1169.200	2218.700	1169.700	2255.000
GR	1166.900	2265.700	1169.700	2289.700	1171.700	2503.400	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	710.000	1100.000
X1	29.000	26.000	855.600	936.600	540.000	510.000	540.000	.000	.000	.000
GR	1170.300	.000	1170.300	68.100	1170.300	278.300	1170.300	291.400	1170.300	318.900
GR	1168.500	404.500	1165.400	579.200	1163.400	593.900	1166.300	606.200	1165.200	673.100
GR	1162.400	688.200	1162.200	741.000	1164.600	784.100	1165.500	822.500	1160.400	841.100
GR	1164.700	855.600	1157.700	898.600	1157.600	919.800	1165.500	936.600	1166.100	1132.500
GR	1167.000	1251.900	1168.500	1517.300	1170.500	1756.400	1171.300	1911.600	1169.200	1929.700
	1172.000	2020.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	9.100	.000	.000	.000	.000	1050.000	1440.000
X1	30.000	28.000	1262.200	1309.400	530.000	515.000	520.000	.000	.000	.000
GR	1175.500	.000	1175.100	125.400	1173.900	292.200	1172.600	421.300	1173.000	506.400
GR	1171.600	529.700	1171.400	565.500	1172.100	622.100	1171.400	741.400	1167.400	884.200
GR	1166.500	1008.500	1164.400	1027.100	1166.500	1036.500	1166.000	1219.900	1166.900	1262.200

GR	1158.600	1273.600	1158.500	1294.900	1166.700	1309.400	1165.800	1360.700	1167.300	1521.000
GR	1169.400	1717.300	1168.000	1802.900	1169.700	1840.100	1169.700	1885.700	1168.500	1911.100
GR	1170.800	1988.400	1174.800	2496.500	1174.900	2496.600	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1350.000	1840.000
X1	31.000	23.000	1651.500	1692.200	470.000	480.000	475.000	.000	.000	.000
GR	1177.900	.000	1175.600	214.200	1173.200	509.200	1170.700	749.300	1169.100	810.000
GR	1170.100	842.700	1169.100	1058.200	1167.700	1298.500	1167.500	1424.600	1166.200	1437.700
GR	1167.000	1467.200	1168.200	1651.500	1159.700	1661.900	1159.700	1683.600	1167.600	1692.200
GR	1166.600	1739.600	1167.300	1872.500	1169.500	2106.400	1171.600	2354.600	1173.800	2554.700
GR	1175.000	2660.700	1176.300	2848.300	1177.700	3001.600	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1050.000	1500.000
X1	32.000	27.000	1234.800	1336.700	515.000	510.000	515.000	.000	.000	.000
GR	1173.900	.000	1173.700	134.000	1175.100	320.600	1172.200	480.000	1170.400	734.100
GR	1170.100	807.500	1168.400	832.700	1169.600	865.300	1169.200	940.300	1166.700	977.100
GR	1168.200	1022.500	1168.400	1152.600	1163.900	1165.100	1167.800	1187.000	1167.200	1234.800
GR	1162.400	1268.700	1161.000	1326.100	1168.400	1336.700	1168.200	1489.900	1168.700	1610.000
GR	1171.000	1859.200	1172.700	2081.100	1174.000	2307.200	1175.500	2530.300	1174.400	2569.000
GR	1176.400	2620.900	1176.400	2647.600	.000	.000	.000	.000	.000	.000
QT	3.000	6700.000	6700.000	6700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1250.000	1620.000
X1	33.000	34.000	1413.700	1457.400	500.000	500.000	500.000	.000	.000	.000
GR	1178.500	.000	1179.800	68.700	1180.200	128.600	1178.400	193.400	1173.200	446.100
GR	1173.200	477.000	1172.400	485.700	1174.100	496.100	1172.400	546.800	1173.600	589.800
GR	1173.400	747.000	1173.700	903.500	1171.200	1013.700	1170.600	1071.100	1168.900	1303.600
GR	1169.100	1394.400	1169.300	1413.700	1162.100	1424.900	1162.300	1448.500	1169.800	1457.400
GR	1169.100	1546.300	1169.000	1622.100	1170.500	1750.000	1172.100	1876.200	1174.800	2050.200
GR	1175.400	2148.500	1174.700	2294.800	1174.500	2414.800	1175.700	2456.200	1175.100	2456.300
GR	1176.600	2530.800	1178.300	2639.600	1179.500	2755.300	1179.500	2763.300	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	900.000	1290.000
X1	34.000	35.000	1055.500	1097.700	500.000	500.000	500.000	.000	.000	.000
GR	1178.000	.000	1179.300	82.900	1177.900	170.900	1176.100	260.200	1175.900	443.900
GR	1174.100	479.600	1173.500	647.600	1172.300	673.200	1171.100	841.400	1168.700	957.400
GR	1170.300	980.100	1167.300	991.800	1170.300	1011.500	1170.900	1055.500	1163.800	1067.300
GR	1163.900	1088.100	1171.000	1097.700	1170.000	1193.900	1167.600	1203.900	1170.100	1226.100
GR	1170.300	1301.300	1171.800	1429.900	1172.500	1521.600	1172.700	1544.900	1172.900	1545.000
GR	1173.400	1673.200	1172.600	1697.200	1174.300	1757.200	1176.000	1915.500	1177.000	2047.600
GR	1177.700	2143.000	1177.100	2154.700	1177.900	2169.800	1178.900	2323.800	1179.400	2375.600
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1200.000	1550.000
X1	35.000	30.000	1351.400	1396.300	490.000	490.000	490.000	.000	.000	.000
GR	1181.600	.000	1182.800	157.100	1182.800	225.900	1181.500	273.400	1181.500	349.300
GR	1179.900	389.700	1178.600	642.500	1178.100	750.900	1175.900	904.400	1174.200	972.800
GR	1173.400	1062.800	1171.300	1185.900	1170.500	1231.300	1170.800	1283.400	1170.800	1283.500
GR	1170.800	1332.600	1172.200	1351.400	1164.400	1368.300	1164.400	1384.400	1171.200	1396.300
GR	1171.300	1504.500	1172.500	1645.400	1173.700	1766.200	1175.000	1890.900	1176.700	2043.400
GR	1179.200	2200.800	1180.300	2303.700	1182.400	2412.000	1183.300	2512.900	1183.700	2616.700
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1300.000	1670.000
X1	36.000	44.000	1511.900	1552.100	500.000	500.000	500.000	.000	.000	.000
GR	1185.900	.000	1185.700	92.900	1184.200	176.400	1183.500	262.900	1182.400	283.300
GR	1180.300	499.700	1181.200	546.200	1179.600	640.200	1177.700	787.900	1177.600	852.600
GR	1177.700	852.700	1177.900	852.800	1176.700	915.300	1176.700	997.100	1175.100	1024.100
GR	1173.300	1232.800	1171.700	1263.400	1171.400	1329.300	1172.400	1370.500	1172.200	1455.300
GR	1172.500	1496.500	1173.300	1511.900	1165.700	1522.400	1165.700	1540.000	1172.400	1552.100
GR	1173.200	1567.900	1171.400	1614.400	1173.300	1644.800	1172.300	1675.800	1174.600	1806.900
GR	1175.800	1926.700	1177.100	2001.300	1177.900	2040.500	1177.000	2101.700	1178.100	2148.200
GR	1178.700	2268.600	1177.600	2294.700	1179.200	2334.600	1180.700	2453.100	1182.100	2522.200
GR	1184.200	2642.600	1185.300	2749.100	1186.200	2809.800	1186.800	2833.300	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1280.000	1660.000
X1	37.000	35.000	1432.500	1485.400	500.000	500.000	500.000	.000	.000	.000
GR	1185.000	.000	1185.700	37.400	1185.900	141.300	1183.200	334.300	1184.500	357.700
GR	1182.500	371.600	1183.000	371.700	1181.000	418.000	1182.200	536.100	1182.100	619.100
GR	1178.000	813.300	1176.700	966.600	1177.100	1060.400	1174.400	1166.300	1173.600	1258.500
GR	1173.100	1284.600	1173.200	1345.800	1174.800	1432.500	1166.700	1453.800	1166.700	1471.500
GR	1174.100	1485.400	1173.900	1524.500	1173.900	1561.700	1169.800	1572.400	1173.500	1585.300
GR	1173.100	1636.100	1173.500	1688.200	1175.300	1813.700	1179.100	2025.400	1182.100	2160.500
GR	1185.300	2324.600	1186.200	2442.300	1185.700	2466.300	1186.000	2518.700	1186.700	2550.700

ET	.000	.000	.000	9.100	.000	.000	.000	.000	1090.000	1510.000
X1	38.000	26.000	1232.800	1285.200	485.000	480.000	480.000	.000	.000	.000
GR	1186.700	.000	1183.100	240.400	1184.300	253.100	1182.100	438.700	1181.800	556.700
GR	1180.000	603.600	1179.100	728.900	1174.800	1052.100	1173.300	1076.100	1172.200	1119.300
GR	1173.800	1138.600	1172.100	1162.600	1171.900	1207.300	1175.400	1232.800	1167.800	1247.800
	1168.200	1267.400	1175.500	1285.200	1174.800	1333.900	1175.200	1556.300	1176.600	1756.900
	1178.300	1865.900	1184.900	2151.600	1184.600	2369.100	1185.500	2502.600	1186.300	2643.400
GR	1187.000	2684.400	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	6400.000	6400.000	6400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1320.000	1740.000
X1	39.000	34.000	1487.300	1533.700	505.000	495.000	500.000	.000	.000	.000
GR	1183.700	.000	1183.200	90.000	1179.400	478.700	1177.600	541.000	1179.400	570.600
GR	1178.000	820.000	1177.200	824.100	1177.600	836.100	1178.400	845.500	1178.200	997.000
GR	1177.900	1089.600	1176.400	1119.900	1177.100	1131.200	1176.900	1188.100	1175.300	1201.600
GR	1176.100	1215.200	1176.800	1296.100	1176.100	1402.400	1172.500	1421.300	1175.400	1449.400
GR	1176.300	1487.300	1169.200	1500.000	1169.300	1521.100	1175.700	1533.700	1176.600	1584.500
GR	1176.400	1646.800	1176.400	1800.000	1178.200	1986.500	1179.800	2153.600	1181.000	2319.000
GR	1182.100	2433.900	1183.200	2551.500	1184.100	2670.600	1184.800	2732.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1280.000	1710.000
X1	40.000	39.000	1525.700	1573.400	500.000	500.000	500.000	.000	.000	.000
GR	1182.800	.000	1180.700	91.800	1181.700	178.700	1181.600	424.100	1180.700	634.800
GR	1181.700	735.700	1179.400	895.200	1178.700	981.200	1178.000	1198.700	1177.200	1435.100
GR	1171.900	1449.000	1176.800	1461.200	1176.800	1525.700	1171.100	1537.400	1171.300	1558.200
GR	1176.200	1573.400	1177.300	1613.900	1172.400	1625.900	1177.400	1638.300	1177.200	1665.100
GR	1175.400	1671.500	1177.900	1681.600	1177.900	1709.800	1173.900	1733.600	1178.000	1770.100
GR	1178.000	1805.300	1175.500	1815.000	1178.300	1832.100	1179.000	1914.100	1180.100	2067.100
GR	1181.200	2249.600	1182.500	2386.900	1183.300	2468.500	1181.000	2475.900	1183.100	2482.700
GR	1184.000	2554.400	1181.800	2576.900	1183.900	2585.700	1183.900	2612.500	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1270.000	1730.000
X1	41.000	38.000	1509.700	1568.900	515.000	515.000	515.000	.000	.000	.000
GR	1186.500	.000	1184.900	263.500	1182.700	531.300	1181.400	658.300	1180.300	673.800
GR	1181.600	689.600	1181.800	783.900	1176.100	833.500	1180.900	851.700	1179.700	1005.600
GR	1176.900	1035.700	1179.800	1054.400	1178.200	1331.100	1174.400	1350.400	1178.700	1377.600
GR	1178.600	1429.100	1176.800	1439.800	1176.900	1459.100	1178.800	1468.500	1178.400	1509.700
GR	1172.600	1524.100	1172.600	1551.300	1178.400	1568.900	1178.300	1642.900	1175.500	1657.100
GR	1178.800	1665.000	1178.700	1691.700	1177.100	1700.400	1178.800	1712.700	1180.000	1965.100
	1178.400	1981.500	1180.500	2027.100	1179.300	2033.700	1179.300	2050.800	1180.500	2061.000
	1182.700	2224.600	1185.400	2486.200	1187.000	2721.100	.000	.000	.000	.000

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QT	3.000	6200.000	6200.000	6200.000	.000	.000	.000	.000	.000	.000
NC	.065	.065	.060	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1320.000	1720.000
X1	42.000	39.000	1580.300	1619.700	495.000	495.000	495.000	.000	.000	.000
GR	1186.400	.000	1184.400	236.700	1182.900	252.100	1183.900	272.500	1184.100	409.600
GR	1180.100	429.100	1183.800	441.400	1183.600	490.200	1181.400	509.500	1182.800	540.600
GR	1182.900	598.200	1181.600	621.500	1182.700	638.800	1183.200	774.300	1183.800	924.800
GR	1182.900	1002.500	1180.500	1188.600	1179.100	1311.300	1179.600	1360.400	1179.200	1445.000
GR	1180.100	1479.500	1180.300	1557.900	1180.600	1580.300	1173.400	1588.100	1173.500	1608.000
GR	1180.000	1619.700	1180.000	1647.700	1175.900	1659.800	1179.300	1681.400	1179.500	1745.500
GR	1181.900	1976.600	1182.500	2056.700	1181.000	2067.400	1182.600	2081.900	1183.900	2182.800
GR	1185.100	2310.400	1186.300	2470.100	1187.400	2643.500	1187.700	2702.800	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1130.000	1550.000
X1	43.000	43.000	1372.200	1424.800	500.000	490.000	500.000	.000	.000	.000
GR	1189.900	.000	1189.300	91.400	1188.500	260.300	1186.700	421.300	1186.500	586.500
GR	1185.200	668.400	1182.600	819.400	1182.100	876.000	1180.700	1061.900	1177.500	1108.200
GR	1180.600	1133.300	1180.400	1158.500	1177.200	1191.600	1180.300	1225.600	1180.000	1257.400
GR	1181.000	1295.800	1176.700	1316.900	1180.900	1335.600	1181.600	1372.200	1174.800	1382.000
GR	1174.100	1406.100	1180.700	1424.800	1177.300	1458.500	1179.800	1505.200	1182.500	1669.400
GR	1184.100	1718.600	1183.100	1801.700	1182.700	1829.800	1181.600	1837.300	1183.400	1858.400
GR	1184.400	2006.600	1182.900	2016.600	1183.600	2098.300	1185.200	2160.500	1185.600	2235.700
GR	1183.800	2254.900	1184.700	2297.900	1185.200	2329.100	1186.700	2364.600	1187.000	2446.300
GR	1188.200	2579.900	1190.800	2785.300	1191.100	2808.200	.000	.000	.000	.000
QT	3.000	6000.000	6000.000	6000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1410.000	1790.000
	44.000	27.000	1628.800	1671.600	505.000	505.000	505.000	.000	.000	.000
	1191.900	.000	1189.700	180.400	1188.300	368.100	1187.700	447.800	1186.600	566.800
GR	1184.900	574.800	1186.500	583.700	1185.600	687.700	1184.400	717.700	1185.500	750.200
GR	1185.700	893.200	1184.500	1079.700	1182.600	1304.500	1181.300	1424.600	1181.800	1567.800
GR	1182.700	1628.800	1175.600	1640.700	1175.600	1654.800	1181.800	1671.600	1181.300	1779.100
GR	1182.900	1939.700	1185.500	2107.000	1186.500	2256.700	1188.100	2396.600	1188.900	2603.000

GR	1189.700	2725.000	1191.500	2951.600	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1490.000	1870.000
X1	45.000	32.000	1661.100	1698.300	480.000	490.000	485.000	.000	.000	.000
GR	1191.500	.000	1190.000	181.900	1188.000	209.300	1189.900	229.800	1188.700	460.600
GR	1189.100	764.200	1188.100	907.700	1185.400	1123.300	1184.700	1227.100	1183.100	1237.700
GR	1184.900	1250.600	1183.100	1264.700	1184.600	1280.300	1184.300	1418.700	1183.300	1532.200
GR	1181.800	1552.600	1183.000	1569.200	1180.700	1597.600	1182.700	1621.500	1183.100	1661.100
GR	1176.600	1673.000	1176.600	1687.900	1183.100	1698.300	1181.500	1724.500	1182.600	1836.300
GR	1183.800	1969.600	1185.600	2152.600	1187.100	2364.900	1188.700	2551.200	1190.600	2758.400
GR	1192.700	2976.100	1192.700	2985.700	.000	.000	.000	.000	.000	.000
QT	3.000	5800.000	5800.000	5800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1430.000	1860.000
X1	46.000	25.000	1570.900	1620.400	510.000	510.000	510.000	.000	.000	.000
GR	1192.400	.000	1191.800	76.700	1191.200	336.600	1190.300	470.300	1188.500	752.200
GR	1187.800	857.300	1187.400	996.800	1186.500	1232.000	1184.900	1399.600	1183.800	1518.600
GR	1183.500	1570.900	1178.600	1586.500	1178.100	1608.400	1184.300	1620.400	1183.800	1766.000
GR	1184.000	1873.100	1182.600	1903.400	1184.700	1931.700	1186.000	2088.600	1187.900	2310.200
GR	1189.300	2482.000	1190.900	2620.700	1192.100	2772.100	1193.700	2931.600	1194.200	2990.700

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QT	3.000	5700.000	5700.000	5700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1220.000	1710.000
X1	47.000	32.000	1541.200	1582.200	500.000	500.000	500.000	.000	.000	.000
GR	1195.100	.000	1193.300	132.700	1192.300	303.900	1191.200	436.200	1189.400	639.100
GR	1186.500	699.300	1188.000	748.100	1186.000	803.400	1185.600	864.800	1187.800	895.400
GR	1188.000	942.800	1186.300	973.300	1187.300	1020.400	1182.500	1057.400	1187.000	1069.700
GR	1185.200	1108.200	1183.300	1115.500	1186.300	1129.900	1186.300	1285.700	1184.600	1460.700
GR	1185.200	1541.200	1179.000	1553.800	1179.000	1577.900	1184.500	1582.200	1184.700	1637.100
GR	1185.400	1726.500	1187.100	1907.800	1188.500	2098.200	1190.100	2270.900	1191.400	2473.700
GR	1193.400	2667.000	1194.200	2837.000	.000	.000	.000	.000	.000	.000
QT	3.000	5600.000	5600.000	5600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	950.000	1330.000
X1	48.000	27.000	1116.400	1150.700	490.000	500.000	495.000	.000	.000	.000
GR	1192.800	.000	1189.800	356.000	1187.800	373.700	1189.400	441.500	1189.500	507.800
GR	1189.800	507.900	1189.200	703.300	1186.500	943.300	1186.200	1093.000	1186.800	1116.400
GR	1180.400	1125.100	1180.400	1142.800	1187.100	1150.700	1184.200	1206.300	1184.900	1258.900
GR	1186.400	1310.900	1187.500	1463.300	1185.300	1504.600	1188.100	1559.800	1189.800	1747.100
GR	1190.700	1862.400	1188.600	1883.800	1191.400	1917.400	1189.400	1959.400	1191.700	2065.600
GR	1193.700	2250.900	1193.800	2258.000	.000	.000	.000	.000	.000	.000
QT	3.000	5400.000	5400.000	5400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	790.000	1150.000
X1	49.000	18.000	956.500	993.200	500.000	500.000	500.000	.000	.000	.000
GR	1194.000	.000	1191.500	354.300	1189.700	498.600	1187.500	793.200	1186.700	860.600
GR	1184.700	870.100	1187.500	884.100	1187.400	956.500	1181.200	962.600	1181.200	987.100
GR	1187.800	993.200	1185.500	1051.100	1187.300	1116.100	1186.400	1142.500	1188.900	1286.500
GR	1191.100	1527.100	1192.900	1743.900	1194.200	1872.900	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	850.000	1240.000
X1	50.000	18.000	1015.600	1058.700	510.000	500.000	505.000	.000	.000	.000
GR	1194.500	.000	1192.800	244.500	1191.800	457.000	1190.300	634.500	1188.000	655.400
GR	1189.900	693.800	1188.200	991.900	1188.900	1015.600	1182.100	1018.900	1182.100	1047.500
GR	1189.800	1058.700	1187.700	1140.400	1188.200	1281.600	1189.900	1408.500	1192.100	1586.900
GR	1192.900	1719.900	1193.800	1874.400	1194.200	1977.000	.000	.000	.000	.000
QT	3.000	5200.000	5200.000	5200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	810.000	1220.000
X1	51.000	20.000	1014.700	1126.000	490.000	520.000	500.000	.000	.000	.000
GR	1196.000	.000	1194.300	115.100	1193.400	381.300	1191.400	573.800	1189.300	784.500
GR	1188.900	898.000	1189.600	990.400	1189.800	1014.700	1184.100	1018.100	1183.400	1069.800
GR	1188.400	1126.000	1188.400	1185.800	1189.300	1270.100	1190.400	1369.000	1191.700	1498.300
GR	1192.700	1643.700	1193.200	1757.900	1193.800	1841.100	1194.400	1997.700	1195.200	2060.600
QT	3.000	5000.000	5000.000	5000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	780.000	1210.000
X1	52.000	23.000	880.000	910.000	500.000	500.000	500.000	.000	.000	.000
GR	1196.200	.000	1196.000	30.000	1192.000	350.000	1191.500	400.000	1192.000	440.000
GR	1191.500	470.000	1192.000	490.000	1192.500	520.000	1192.000	550.000	1191.500	575.000
GR	1192.000	600.000	1192.500	675.000	1192.000	720.000	1189.000	795.000	1188.000	880.000
GR	1184.500	890.000	1184.500	900.000	1188.000	910.000	1190.000	1035.000	1192.000	1125.000
GR	1193.200	1380.000	1194.200	1580.000	1196.000	1900.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	780.000	1170.000
X1	53.000	37.000	915.900	957.500	500.000	500.000	500.000	.000	.000	.000
GR	1197.700	.000	1197.700	56.700	1196.900	133.500	1195.900	238.900	1195.800	277.100
GR	1194.500	335.500	1194.000	476.000	1193.500	568.400	1192.400	568.500	1190.900	777.200
	1188.100	799.300	1190.600	828.200	1191.500	881.500	1186.400	892.700	1190.900	915.900
	1185.600	936.800	1191.200	957.500	1190.300	1028.000	1190.200	1066.600	1187.700	1075.100
GR	1191.100	1091.000	1191.200	1139.900	1188.200	1150.200	1189.600	1193.100	1191.700	1277.900
GR	1193.300	1472.400	1193.600	1509.900	1194.500	1510.000	1194.900	1617.600	1195.000	1711.900
GR	1195.500	1799.200	1196.100	1902.700	1195.400	1937.100	1196.600	1967.900	1195.400	1989.900
GR	1196.800	2037.700	1196.900	2075.500	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	930.000	1270.000
X1	54.000	35.000	1037.000	1064.100	500.000	500.000	500.000	.000	.000	.000
GR	1199.900	.000	1198.500	145.700	1197.300	277.000	1196.700	388.900	1195.800	512.600
GR	1194.900	623.500	1194.300	747.600	1192.600	972.300	1191.100	993.200	1194.300	1013.300
GR	1194.000	1037.000	1188.200	1039.700	1188.200	1055.600	1194.000	1064.100	1191.600	1091.900
GR	1191.700	1093.200	1192.700	1093.300	1190.800	1112.400	1193.300	1131.200	1193.100	1166.300
GR	1193.100	1166.400	1193.100	1268.200	1194.300	1397.800	1195.400	1610.100	1196.000	1783.400
GR	1197.200	1911.600	1197.300	2055.800	1197.600	2167.700	1196.500	2184.500	1198.100	2223.800
GR	1198.300	2337.400	1198.800	2409.900	1198.100	2424.300	1199.400	2456.400	1199.800	2574.900
QT	3.000	4800.000	4800.000	4800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1320.000	1690.000
X1	55.000	30.000	1484.600	1518.400	495.000	495.000	495.000	.000	.000	.000
GR	1201.500	.000	1200.100	252.900	1197.900	453.900	1195.800	480.200	1195.800	499.300
GR	1198.000	521.200	1198.200	675.600	1197.600	901.900	1197.000	973.800	1196.500	973.900
GR	1195.600	1196.800	1194.700	1306.800	1193.700	1474.700	1194.700	1484.600	1189.500	1492.300
GR	1189.500	1507.700	1194.400	1518.400	1193.300	1640.900	1194.200	1684.800	1195.200	1813.200
GR	1196.900	2051.400	1196.700	2051.500	1197.600	2178.000	1198.300	2313.500	1198.700	2434.600
GR	1199.200	2573.300	1200.100	2704.300	1200.800	2839.200	1202.100	3022.000	1202.100	3033.900
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1450.000	1880.000
X1	56.000	38.000	1676.000	1738.900	505.000	510.000	510.000	.000	.000	.000
GR	1202.700	.000	1202.100	131.600	1201.600	223.900	1201.100	367.100	1200.800	475.100
GR	1200.500	501.300	1200.500	501.400	1199.200	703.700	1198.200	868.000	1197.000	887.900
GR	1198.200	908.300	1195.900	932.200	1196.000	948.700	1198.500	964.300	1197.400	976.300
GR	1197.600	1177.900	1196.700	1338.100	1196.000	1390.100	1194.700	1430.500	1196.300	1443.900
GR	1196.700	1498.900	1195.800	1561.000	1195.300	1640.600	1193.800	1676.000	1191.000	1699.900
	1191.000	1718.100	1196.600	1738.900	1195.200	1780.100	1195.100	1886.700	1197.200	2117.300
	1199.300	2434.600	1200.500	2590.900	1200.500	2591.000	1200.600	2774.500	1201.100	2890.300
GR	1202.100	3010.700	1203.700	3157.500	1203.900	3186.000	.000	.000	.000	.000
QT	3.000	4600.000	4600.000	4600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1660.000	2070.000
X1	57.000	26.000	1838.700	1870.300	510.000	500.000	505.000	.000	.000	.000
GR	1204.100	.000	1203.200	255.100	1202.900	358.800	1201.600	538.800	1201.000	768.000
GR	1200.100	912.000	1199.400	1099.400	1198.500	1299.200	1198.000	1424.100	1197.300	1660.000
GR	1196.200	1759.300	1194.900	1806.100	1197.400	1838.700	1192.300	1853.000	1197.800	1870.300
GR	1196.400	1920.800	1196.500	2045.400	1198.100	2276.900	1198.800	2464.500	1199.500	2606.900
GR	1200.500	2723.100	1201.500	2877.800	1201.500	2877.900	1202.500	3018.800	1203.700	3197.900
GR	1204.000	3293.400	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1700.000	2060.000
X1	58.000	28.000	1851.700	1901.100	490.000	490.000	490.000	.000	.000	.000
GR	1204.500	.000	1203.600	279.200	1202.800	438.300	1202.100	628.800	1201.600	875.500
GR	1200.300	1136.400	1199.800	1398.000	1199.300	1536.700	1198.700	1653.300	1197.800	1804.500
GR	1196.900	1821.900	1198.000	1851.700	1193.700	1868.600	1193.000	1885.600	1198.400	1901.100
GR	1196.900	1924.000	1197.300	1986.500	1199.600	2351.700	1197.900	2380.500	1199.900	2410.200
GR	1201.200	2707.600	1203.200	3019.900	1203.700	3072.000	1203.700	3072.100	1204.200	3165.800
GR	1202.900	3178.900	1205.000	3199.800	1205.700	3351.100	.000	.000	.000	.000
QT	3.000	4400.000	4400.000	4400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1690.000	2120.000
X1	59.000	28.000	1892.300	1932.000	490.000	500.000	495.000	.000	.000	.000
GR	1204.700	.000	1204.200	245.500	1203.000	604.900	1202.100	840.600	1201.800	1062.200
GR	1201.400	1322.600	1200.000	1579.300	1198.400	1600.100	1199.800	1619.200	1199.300	1757.100
GR	1197.900	1775.600	1199.100	1803.500	1198.800	1865.000	1200.000	1892.300	1195.200	1904.900
GR	1195.200	1921.200	1200.000	1932.000	1198.900	1950.300	1198.900	1985.700	1197.700	1997.100
	1199.400	2031.300	1199.300	2138.900	1200.100	2290.700	1201.300	2500.300	1201.900	2679.900
	1203.300	2894.200	1204.500	3117.500	1205.900	3296.800	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1820.000	2220.000
X1	60.000	25.000	2004.600	2045.900	500.000	500.000	500.000	.000	.000	.000
GR	1206.400	.000	1205.600	317.700	1204.500	747.800	1203.800	1012.400	1203.600	1282.100

GR	1202.700	1465.000	1201.700	1584.800	1200.300	1602.000	1202.200	1618.800	1200.800	1741.400
GR	1200.500	1977.200	1201.900	2004.600	1196.500	2018.700	1196.500	2036.800	1201.700	2045.900
GR	1200.500	2088.300	1200.200	2141.400	1198.100	2152.700	1200.800	2167.600	1201.100	2280.100
GR	1201.900	2495.600	1203.600	2772.000	1204.300	2973.700	1205.700	3206.800	1206.400	3330.000
QT	3.000	4200.000	4200.000	4200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1710.000	2130.000
X1	61.000	28.000	1971.900	2013.300	500.000	500.000	500.000	.000	.000	.000
GR	1208.000	.000	1206.900	330.300	1206.300	529.400	1205.400	766.800	1204.300	1127.200
GR	1202.900	1367.600	1204.000	1382.100	1202.000	1394.300	1203.600	1412.600	1203.200	1445.100
GR	1202.000	1769.000	1201.800	1922.100	1202.800	1971.900	1197.500	1982.900	1197.300	2003.700
GR	1202.800	2013.300	1199.800	2052.500	1202.700	2068.000	1200.600	2087.400	1202.300	2107.600
GR	1200.600	2120.900	1202.200	2166.500	1202.500	2227.600	1203.500	2449.700	1204.500	2642.400
GR	1205.800	2897.400	1207.200	3202.100	1207.400	3202.200	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1700.000	2120.000
X1	62.000	28.000	1922.300	1964.200	500.000	500.000	500.000	.000	.000	.000
GR	1209.100	.000	1208.300	355.600	1207.000	691.200	1205.800	983.200	1204.500	1276.000
GR	1203.100	1288.100	1204.700	1317.700	1204.300	1536.300	1203.400	1705.900	1203.000	1877.400
GR	1204.100	1922.300	1199.200	1932.100	1199.300	1950.700	1204.100	1964.200	1199.800	1993.200
GR	1202.600	2015.600	1203.300	2060.600	1202.300	2073.800	1203.100	2098.600	1202.000	2113.000
GR	1202.000	2136.500	1203.800	2157.500	1203.400	2231.800	1204.600	2433.200	1205.900	2651.800
GR	1206.900	2848.600	1208.300	3143.000	1208.600	3235.100	.000	.000	.000	.000
QT	3.000	4000.000	4000.000	4000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1720.000	2130.000
X1	63.000	28.000	1844.400	1886.500	500.000	500.000	500.000	.000	.000	.000
GR	1210.700	.000	1209.500	423.400	1208.300	706.300	1207.000	1070.800	1206.900	1195.500
GR	1205.600	1210.900	1206.900	1233.100	1205.400	1566.600	1204.900	1631.500	1203.900	1639.300
GR	1204.900	1663.000	1204.300	1771.600	1203.200	1778.100	1204.600	1793.500	1204.500	1844.400
GR	1200.700	1853.500	1200.700	1877.600	1205.300	1886.500	1203.500	1947.900	1204.900	1975.200

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GR	1204.700	2027.500	1203.100	2036.000	1204.800	2047.700	1203.100	2068.900	1205.200	2213.900
GR	1206.500	2621.800	1208.100	2957.900	1209.600	3283.300	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1730.000	2130.000
X1	64.000	27.000	1837.000	1885.200	500.000	500.000	500.000	.000	.000	.000
GR	1212.100	.000	1211.100	213.500	1210.800	442.200	1210.000	659.600	1209.100	1096.000
GR	1207.100	1109.900	1209.200	1126.200	1207.400	1375.300	1206.200	1687.500	1204.400	1702.600
GR	1205.300	1718.000	1203.800	1727.100	1205.600	1741.200	1203.800	1761.600	1205.400	1782.800
GR	1205.600	1837.000	1201.100	1852.400	1201.800	1866.500	1206.800	1885.200	1203.300	1895.200
GR	1206.000	1912.100	1205.400	1989.700	1205.800	2218.300	1206.100	2317.800	1207.500	2507.300
GR	1209.000	2924.800	1210.300	3175.500	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1770.000	2150.000
X1	65.000	35.000	1921.800	1969.500	500.000	500.000	500.000	.000	.000	.000
GR	1213.300	.000	1212.400	266.200	1211.400	525.400	1211.100	706.200	1210.600	859.300
GR	1209.800	964.200	1210.400	991.700	1209.800	1030.400	1208.300	1039.000	1210.100	1061.600
GR	1208.900	1367.900	1207.500	1697.600	1206.900	1884.400	1206.300	1903.300	1207.400	1921.800
GR	1202.900	1935.100	1202.900	1953.400	1208.000	1969.500	1206.700	2058.000	1204.700	2067.300
GR	1207.800	2084.400	1204.700	2113.300	1207.100	2140.200	1208.000	2272.300	1208.300	2319.900
GR	1208.100	2320.000	1208.300	2455.800	1208.900	2601.600	1209.200	2658.000	1209.900	2823.100
GR	1210.300	2954.300	1211.000	3066.300	1211.200	3200.700	1211.900	3297.800	1211.900	3301.500
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1650.000	2060.000
X1	66.000	33.000	1851.800	1898.700	500.000	500.000	500.000	.000	.000	.000
GR	1214.100	.000	1212.900	380.600	1212.200	572.900	1211.600	793.100	1209.800	810.800
GR	1211.500	829.300	1210.800	945.500	1210.300	1028.000	1210.400	1269.900	1209.800	1420.100
GR	1209.200	1420.200	1208.500	1607.300	1208.300	1768.800	1207.800	1805.500	1209.700	1851.800
GR	1204.700	1863.300	1204.700	1886.600	1208.900	1898.700	1208.800	1936.000	1206.800	1955.600
GR	1208.600	1971.200	1207.000	1979.800	1208.900	2004.200	1206.900	2028.400	1207.100	2063.200
GR	1208.400	2078.500	1207.300	2097.900	1208.300	2120.000	1209.600	2292.500	1210.900	2594.500
GR	1212.100	2869.000	1213.400	3151.800	1214.100	3249.700	.000	.000	.000	.000
QT	3.000	3800.000	3800.000	3800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1620.000	2010.000
X1	67.000	41.000	1854.900	1889.300	495.000	495.000	495.000	.000	.000	.000
GR	1214.600	.000	1213.900	346.200	1213.200	592.100	1213.700	614.000	1211.500	634.800
GR	1213.400	663.400	1212.500	663.500	1211.800	973.000	1211.600	1111.900	1210.900	1316.900
GR	1210.600	1462.400	1210.400	1607.800	1209.600	1731.200	1209.000	1751.800	1208.900	1785.400
GR	1210.200	1795.700	1210.200	1846.900	1210.900	1854.900	1205.800	1859.300	1205.700	1878.000
GR	1210.500	1889.300	1207.600	1923.200	1209.700	1941.100	1207.500	1957.700	1210.100	1972.000
GR	1209.600	2014.400	1210.300	2119.900	1210.600	2170.300	1209.400	2185.700	1210.900	2204.100
GR	1210.900	2244.000	1209.700	2266.700	1211.200	2285.800	1211.600	2361.700	1212.500	2471.500
GR	1212.800	2563.600	1212.600	2675.100	1214.100	2853.000	1214.900	3034.000	1215.900	3201.400
GR	1215.900	3218.500	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	.000	9.100	.000	.000	.000	.000	1460.000	1860.000
X1	68.000	37.000	1708.700	1745.300	500.000	500.000	500.000	.000	.000	.000
GR	1215.100	.000	1214.700	267.000	1213.800	312.000	1214.600	377.800	1213.500	395.100
GR	1212.100	402.300	1214.900	419.200	1213.600	467.900	1213.700	655.800	1213.400	769.600
GR	1212.800	940.900	1212.600	1051.700	1212.300	1141.900	1212.300	1241.500	1211.700	1379.400
GR	1210.000	1617.000	1211.500	1633.500	1212.000	1708.700	1207.300	1718.900	1207.000	1733.800
[illegible]	1211.600	1745.300	1209.800	1758.200	1211.500	1774.200	1209.400	1784.800	1211.200	1798.400
[illegible]	1210.500	1862.000	1212.200	1872.400	1210.400	1885.900	1211.600	1917.400	1212.100	2024.900
GR	1212.300	2119.100	1212.900	2249.400	1213.600	2360.500	1214.000	2488.300	1214.600	2649.700

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GR	1216.100	2846.500	1216.600	2964.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1590.000	1960.000
X1	69.000	39.000	1787.100	1825.700	500.000	500.000	500.000	.000	.000	.000
GR	1217.000	.000	1216.400	216.000	1215.600	235.400	1215.500	248.800	1216.600	274.100
GR	1215.800	428.000	1213.800	447.800	1215.800	466.700	1215.800	578.900	1215.600	672.100
GR	1215.400	730.200	1214.500	909.800	1214.100	1121.500	1213.400	1371.900	1212.800	1544.000
GR	1212.800	1595.200	1211.900	1611.700	1212.600	1629.300	1212.500	1708.500	1211.200	1735.400
GR	1212.400	1787.100	1208.500	1796.200	1208.500	1812.400	1213.200	1825.700	1211.400	1844.000
GR	1213.400	1868.400	1210.000	1895.500	1211.800	1911.300	1211.800	1921.800	1210.400	1928.200
GR	1211.700	1946.100	1212.200	1982.800	1213.400	2091.000	1214.100	2413.300	1215.200	2607.500
GR	1216.000	2778.500	1216.700	2916.800	1217.900	3121.700	1218.400	3244.500	.000	.000
QT	3.000	3700.000	3700.000	3700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1520.000	1890.000
X1	70.000	46.000	1720.700	1763.500	500.000	500.000	500.000	.000	.000	.000
GR	1218.000	.000	1217.800	285.100	1215.600	306.600	1217.700	322.600	1217.000	389.300
GR	1217.000	491.700	1216.700	531.900	1215.600	541.300	1216.700	557.200	1216.300	696.000
GR	1215.900	870.600	1215.600	1034.900	1214.900	1241.500	1214.600	1383.900	1214.200	1537.700
GR	1214.100	1645.700	1212.900	1658.900	1213.900	1673.200	1212.500	1685.700	1214.200	1720.700
GR	1209.500	1730.100	1209.400	1748.400	1214.300	1763.500	1212.700	1777.000	1213.600	1795.100
GR	1209.100	1807.900	1214.100	1818.200	1213.300	1875.100	1212.900	1907.900	1214.300	1933.000
GR	1213.000	1946.200	1214.300	1959.200	1214.000	1990.400	1212.000	1996.700	1214.400	2013.800
GR	1215.100	2067.400	1214.900	2127.500	1214.800	2163.800	1215.400	2251.400	1216.100	2426.900
GR	1217.000	2606.700	1216.100	2625.900	1217.600	2659.300	1217.900	2865.900	1219.400	3113.300
GR	1220.100	3271.200	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	.000	.000	.000	9.100	.000	.000	.000	.000	1660.000	2020.000
[illegible]	71.000	47.000	1804.100	1856.800	500.000	500.000	500.000	.000	.000	.000
GR	1220.000	.000	1219.500	244.700	1219.300	363.000	1217.900	373.500	1217.800	382.500
GR	1219.400	391.000	1218.500	574.000	1218.500	723.800	1217.800	852.200	1217.200	1057.300
GR	1216.000	1069.900	1216.900	1102.500	1216.400	1290.100	1216.300	1422.900	1215.800	1529.100
GR	1216.200	1577.200	1215.400	1643.900	1214.800	1696.900	1214.300	1770.100	1215.900	1804.100
GR	1210.300	1815.700	1210.300	1833.800	1215.800	1856.800	1214.000	1912.100	1214.700	1986.900
GR	1213.000	2000.600	1215.300	2020.000	1215.400	2066.400	1215.400	2114.500	1214.400	2129.400
GR	1215.800	2162.900	1215.800	2198.200	1214.800	2206.600	1216.200	2225.800	1217.200	2497.600
GR	1217.500	2628.100	1217.200	2666.100	1217.800	2705.600	1216.800	2724.000	1218.000	2747.500
GR	1216.900	2768.500	1218.400	2872.800	1219.500	3022.500	1220.800	3251.000	1220.600	3344.600
GR	1219.400	3363.100	1219.700	3365.500	.000	.000	.000	.000	.000	.000
QT	3.000	3600.000	3600.000	3600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1680.000	2030.000
X1	72.000	41.000	1905.900	1952.400	500.000	500.000	500.000	.000	.000	.000
GR	1221.400	.000	1220.800	291.400	1219.400	302.900	1219.400	315.400	1220.500	326.700
GR	1220.300	419.300	1219.800	601.400	1219.300	736.400	1218.500	974.700	1217.600	1380.200
GR	1217.400	1426.800	1216.700	1439.900	1217.200	1469.200	1217.200	1529.100	1215.900	1552.200
GR	1217.300	1579.700	1216.800	1613.500	1216.400	1646.200	1216.000	1836.500	1216.600	1873.100
GR	1213.900	1888.400	1215.500	1905.900	1211.900	1922.300	1211.800	1945.600	1217.300	1952.400
GR	1216.500	2028.500	1216.900	2044.500	1214.500	2059.900	1217.200	2072.900	1216.000	2095.200
GR	1216.000	2109.400	1214.700	2117.200	1216.500	2130.300	1217.400	2210.900	1218.300	2440.700
GR	1218.900	2593.600	1219.600	2798.300	1220.300	2929.400	1221.000	3048.700	1222.100	3249.600
GR	1222.900	3387.200	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1620.000	2000.000
X1	73.000	46.000	1842.800	1905.400	500.000	500.000	500.000	.000	.000	.000
GR	1222.700	.000	1222.000	121.200	1222.200	185.500	1220.900	198.400	1222.200	211.700
GR	1221.900	321.300	1221.400	474.000	1220.800	626.300	1220.500	731.700	1219.900	923.700
[illegible]	1218.800	936.500	1220.100	958.400	1219.300	1027.300	1219.700	1082.800	1219.200	1228.400
[illegible]	1218.800	1369.400	1218.400	1524.700	1217.700	1562.800	1218.000	1588.100	1218.400	1644.800
GR	1216.500	1657.900	1218.500	1668.800	1218.100	1760.200	1216.600	1776.800	1217.800	1796.300
GR	1218.500	1842.800	1213.600	1865.300	1213.700	1888.500	1218.500	1905.400	1217.000	1932.800
GR	1217.800	1984.100	1215.900	1992.600	1218.200	2007.100	1218.300	2099.900	1217.800	2131.200
GR	1218.500	2146.700	1217.400	2206.900	1219.300	2264.700	1219.600	2377.000	1220.300	2529.400

GR	1221.100	2643.900	1221.600	2765.300	1222.300	2921.100	1223.000	3067.800	1223.700	3227.600
GR	1223.800	3310.800	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1640.000	2020.000
X1	74.000	50.000	1870.000	1919.000	505.000	505.000	505.000	.000	.000	.000
GR	1224.100	.000	1224.100	161.400	1222.800	169.100	1223.900	184.000	1223.900	299.600
GR	1222.800	313.200	1223.500	328.300	1222.700	545.300	1222.100	746.100	1221.500	896.300
GR	1220.700	1125.500	1220.200	1355.500	1220.200	1503.300	1218.900	1530.100	1220.500	1555.800
GR	1218.500	1573.200	1220.100	1594.000	1219.600	1622.700	1218.800	1636.200	1219.500	1651.100
GR	1219.800	1694.300	1218.900	1709.600	1220.600	1736.500	1219.100	1764.000	1218.500	1779.800
GR	1220.200	1793.600	1217.900	1810.800	1218.700	1828.400	1220.500	1870.000	1214.700	1885.200
GR	1214.800	1905.400	1219.800	1919.000	1220.200	1951.600	1219.100	1980.800	1218.300	2012.300
GR	1218.600	2027.400	1219.000	2056.100	1219.700	2076.400	1219.200	2104.800	1220.300	2119.500
GR	1220.300	2212.800	1218.400	2220.900	1220.200	2235.300	1220.900	2371.000	1221.800	2574.600
GR	1222.600	2732.000	1222.700	2845.300	1224.100	3077.100	1225.300	3347.200	1225.400	3353.200
QT	3.000	3500.000	3500.000	3500.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1470.000	1970.000
X1	75.000	38.000	1854.800	1907.000	490.000	490.000	490.000	.000	.000	.000
GR	1225.500	.000	1224.300	430.000	1222.700	680.800	1222.300	943.300	1221.700	1154.700
GR	1221.400	1365.400	1221.000	1550.800	1221.500	1656.000	1220.500	1668.500	1221.400	1719.800
GR	1221.000	1737.600	1220.700	1784.400	1221.300	1829.700	1220.300	1854.800	1216.500	1872.100
GR	1216.800	1900.000	1221.400	1907.000	1221.500	1921.400	1219.700	1933.800	1221.100	1951.000
GR	1219.600	1965.900	1221.400	1986.900	1221.400	2009.800	1220.200	2026.900	1221.400	2091.200
GR	1221.800	2169.000	1222.500	2309.600	1222.500	2400.200	1223.200	2539.600	1223.400	2630.800
GR	1222.400	2642.900	1223.400	2660.100	1224.600	2779.200	1225.100	2942.000	1225.500	3126.300
GR	1226.400	3238.100	1226.700	3314.400	1226.700	3314.500	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1620.000	2030.000
X1	76.000	41.000	1898.300	1934.100	490.000	490.000	490.000	.000	.000	.000
GR	1227.100	.000	1226.300	286.100	1226.000	323.300	1227.200	360.100	1226.600	389.100
GR	1225.100	454.300	1225.000	589.200	1224.700	740.100	1224.100	897.200	1223.200	1125.500
GR	1223.100	1242.300	1223.400	1355.200	1222.200	1380.600	1223.200	1402.000	1222.800	1489.400
GR	1221.600	1516.000	1222.800	1541.900	1222.700	1595.000	1221.700	1613.700	1222.900	1638.900
GR	1223.100	1730.100	1221.500	1750.600	1223.000	1787.700	1223.000	1798.800	1221.700	1821.100
GR	1221.800	1861.600	1222.500	1898.300	1217.500	1908.000	1217.700	1929.100	1222.600	1934.100
GR	1222.500	1955.600	1220.700	1995.300	1222.100	2047.000	1221.100	2065.800	1222.300	2103.900
GR	1223.300	2255.800	1224.400	2456.600	1226.100	2887.100	1227.500	3294.600	1226.300	3307.000
GR	1226.800	3311.000	.000	.000	.000	.000	.000	.000	.000	.000

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QT	3.000	3400.000	3400.000	3400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1400.000	1780.000
X1	77.000	45.000	1577.500	1660.000	510.000	505.000	510.000	.000	.000	.000
GR	1228.700	.000	1228.900	91.700	1227.900	150.300	1228.400	223.700	1227.700	275.700
GR	1227.400	371.000	1226.900	384.300	1227.000	439.500	1226.300	452.400	1225.600	675.600
GR	1225.400	741.200	1224.600	758.300	1225.400	773.400	1225.000	878.400	1223.900	1251.300
GR	1223.600	1277.800	1222.900	1285.300	1223.800	1306.500	1223.900	1459.800	1223.200	1531.400
GR	1224.300	1577.500	1219.000	1604.500	1218.800	1643.200	1224.300	1660.000	1223.700	1685.000
GR	1223.500	1705.000	1222.000	1716.800	1223.400	1730.600	1223.400	1773.200	1220.800	1778.900
GR	1223.900	1801.500	1222.700	1809.900	1223.800	1855.500	1224.000	1947.200	1224.900	2172.600
GR	1225.700	2393.000	1225.700	2414.300	1224.700	2424.000	1225.600	2438.400	1226.800	2635.400
GR	1227.200	2761.800	1228.000	3024.500	1229.000	3109.800	1229.300	3251.700	1229.300	3251.800
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1500.000	1880.000
X1	78.000	32.000	1703.700	1752.300	515.000	515.000	515.000	.000	.000	.000
GR	1231.700	.000	1231.200	122.900	1229.300	186.100	1229.400	318.600	1228.400	326.300
GR	1228.400	348.900	1229.300	358.100	1227.700	451.200	1227.200	701.400	1226.500	858.400
GR	1226.000	1079.900	1225.800	1270.300	1225.300	1413.800	1224.300	1427.100	1225.500	1447.800
GR	1225.200	1616.600	1224.500	1634.400	1225.200	1682.900	1225.800	1703.700	1219.700	1723.600
GR	1219.700	1741.600	1225.600	1752.300	1224.500	1866.100	1224.700	1919.800	1226.300	2196.500
GR	1226.900	2354.500	1225.700	2389.000	1226.900	2396.000	1227.100	2431.000	1227.900	2840.500
GR	1229.800	3263.200	1229.800	3312.100	.000	.000	.000	.000	.000	.000
QT	3.000	3300.000	3300.000	3300.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1460.000	1850.000
X1	79.000	39.000	1687.100	1723.000	505.000	520.000	510.000	.000	.000	.000
GR	1232.300	.000	1231.100	208.600	1229.700	214.800	1229.800	230.000	1231.000	236.500
GR	1230.200	322.800	1229.400	462.400	1228.700	549.500	1228.500	699.900	1227.900	848.500
GR	1227.400	886.800	1228.100	926.700	1227.200	1063.700	1226.700	1265.000	1226.800	1383.700
GR	1226.100	1505.400	1225.900	1590.400	1225.800	1687.100	1221.100	1693.500	1221.100	1713.500
GR	1226.500	1723.000	1225.600	1738.100	1226.000	1761.100	1226.300	1854.100	1227.100	1954.500
GR	1226.200	1985.900	1227.200	2011.500	1227.800	2145.900	1227.700	2247.600	1228.100	2329.200
GR	1228.900	2512.300	1229.700	2729.500	1230.600	2925.800	1229.500	2967.800	1231.900	3239.500
GR	1230.900	3243.400	1230.900	3260.500	1232.100	3272.100	1232.100	3312.300	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1380.000	1760.000

X1	80.000	30.000	1577.000	1620.400	490.000	495.000	495.000	.000	.000	.000
GR	1232.300	.000	1231.900	192.800	1230.800	223.900	1231.300	246.300	1230.400	489.500
GR	1229.400	690.000	1228.500	859.900	1227.800	1279.600	1226.900	1577.000	1221.700	1591.800
GR	1222.600	1610.400	1225.600	1620.400	1226.700	1642.600	1226.700	1671.000	1227.100	1707.900
GR	1225.300	1715.300	1227.100	1730.400	1226.900	1759.700	1227.500	1794.400	1228.000	1926.200
	1228.500	2033.500	1229.300	2300.100	1229.700	2390.400	1231.400	2664.500	1230.300	2685.300
	1230.500	2739.600	1230.000	2757.400	1232.300	2972.200	1232.500	3047.800	1232.600	3048.200
QT	3.000	3200.000	3200.000	3200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1580.000	1930.000
X1	81.000	45.000	1691.700	1739.600	510.000	500.000	505.000	.000	.000	.000
GR	1234.600	.000	1233.500	326.400	1232.800	331.500	1232.600	353.100	1233.700	372.200
GR	1233.700	387.200	1232.700	392.200	1232.900	446.300	1232.300	502.900	1231.600	656.900
GR	1230.800	965.000	1230.000	1215.800	1229.600	1358.300	1227.400	1378.200	1230.700	1395.100
GR	1228.700	1423.000	1228.900	1560.100	1226.700	1572.100	1228.900	1581.600	1228.600	1609.800
GR	1227.800	1629.200	1225.900	1638.100	1228.900	1651.300	1226.900	1668.300	1228.800	1691.700
GR	1223.700	1696.300	1223.700	1712.400	1229.200	1739.600	1228.800	1790.200	1227.100	1825.800

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GR	1228.700	1857.800	1228.900	1899.800	1226.400	1918.300	1228.800	1937.700	1227.100	1949.700
GR	1228.500	1966.500	1229.900	2306.700	1231.000	2583.400	1229.600	2589.600	1230.900	2599.300
GR	1231.000	2705.400	1232.000	2854.600	1233.000	3056.000	1232.900	3056.100	1233.400	3116.400
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1760.000	2070.000
X1	82.000	32.000	1905.500	1947.500	510.000	500.000	505.000	.000	.000	.000
GR	1235.700	.000	1235.200	253.500	1234.100	475.500	1232.900	762.600	1232.100	1042.200
GR	1231.300	1051.300	1232.200	1075.100	1232.200	1120.400	1230.700	1143.400	1233.000	1161.000
GR	1231.200	1186.800	1232.200	1201.800	1231.000	1535.100	1229.400	1789.000	1229.100	1868.100
GR	1229.900	1905.500	1223.400	1919.500	1223.500	1936.200	1230.800	1947.500	1229.400	1997.300
GR	1229.700	2090.800	1230.200	2235.100	1231.700	2420.100	1232.200	2650.700	1232.900	2756.000
GR	1233.500	2756.100	1233.600	2833.000	1234.300	2914.500	1234.600	2983.200	1235.200	3069.900
GR	1235.900	3148.700	1236.100	3227.700	.000	.000	.000	.000	.000	.000
QT	3.000	3100.000	3100.000	3100.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1660.000	1900.000
X1	83.000	29.000	1779.400	1821.200	505.000	510.000	505.000	.000	.000	.000
GR	1235.900	.000	1235.500	321.500	1234.700	616.000	1234.300	730.300	1232.100	746.200
	1235.600	767.900	1233.400	785.600	1234.800	807.700	1233.600	827.800	1233.600	1049.400
	1232.900	1265.800	1231.600	1563.900	1229.600	1779.400	1224.400	1805.400	1228.800	1821.200
	1229.100	1854.100	1230.600	1915.700	1232.500	2167.000	1232.900	2319.300	1233.000	2330.800
GR	1233.500	2330.900	1234.100	2463.100	1234.700	2583.600	1235.200	2695.000	1236.100	2860.600
GR	1236.300	2958.200	1236.700	3067.400	1237.400	3199.100	1237.600	3236.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1620.000	1850.000
X1	84.000	31.000	1728.900	1783.800	495.000	495.000	495.000	.000	.000	.000
GR	1237.700	.000	1236.800	180.600	1236.600	380.200	1234.700	406.000	1238.400	421.100
GR	1236.300	431.700	1235.500	751.300	1234.900	988.200	1234.000	1222.900	1232.900	1554.700
GR	1231.800	1728.900	1226.400	1750.200	1226.400	1770.600	1233.400	1783.800	1231.500	1795.600
GR	1231.700	1840.800	1232.400	1943.100	1232.800	1998.000	1233.600	1998.100	1234.300	2107.800
GR	1234.600	2223.900	1235.200	2366.200	1235.400	2515.600	1234.500	2537.600	1234.700	2559.600
GR	1235.800	2566.100	1236.200	2678.400	1237.100	2858.600	1238.100	2993.200	1238.800	3122.300
GR	1238.900	3218.600	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1600.000	1840.000
X1	85.000	41.000	1678.900	1746.300	500.000	500.000	500.000	.000	.000	.000
GR	1240.000	.000	1239.700	105.500	1239.200	160.500	1238.300	174.500	1239.400	209.300
GR	1239.400	209.700	1238.600	209.800	1238.100	316.800	1238.100	488.100	1237.800	641.300
GR	1236.700	680.800	1235.200	717.900	1238.600	756.300	1236.300	794.000	1236.500	827.900
GR	1236.300	1071.600	1234.900	1353.400	1233.900	1544.400	1233.400	1613.800	1233.700	1678.900
GR	1228.200	1694.000	1228.200	1725.900	1230.700	1726.000	1230.700	1735.500	1233.300	1746.300
GR	1233.500	1821.400	1233.800	1915.100	1234.500	1996.000	1235.200	2098.100	1235.600	2181.700
GR	1235.400	2265.200	1235.600	2375.200	1236.100	2506.000	1236.900	2574.000	1237.000	2684.400
GR	1237.400	2819.400	1238.900	2948.400	1239.300	3090.500	1239.900	3189.700	1238.900	3192.700
GR	1238.900	3198.400	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	3000.000	3000.000	3000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1310.000	1600.000
X1	86.000	45.000	1396.600	1428.200	500.000	500.000	500.000	.000	.000	.000
GR	1242.200	.000	1242.100	93.700	1241.400	199.700	1241.200	260.800	1240.500	308.900
GR	1240.500	374.800	1240.300	415.900	1240.200	469.400	1239.800	576.300	1239.100	666.700
GR	1238.500	771.400	1237.800	866.800	1236.800	883.400	1238.000	913.900	1237.800	933.000
	1236.700	933.100	1236.300	1017.600	1236.300	1082.400	1236.900	1082.500	1236.300	1230.000
	1235.800	1340.000	1234.300	1350.500	1234.300	1362.700	1235.200	1371.900	1235.200	1396.600

GR	1230.400	1406.700	1234.100	1428.200	1235.100	1478.500	1234.800	1567.300	1235.000	1634.200

GR	1235.800	1776.300	1236.500	1977.900	1236.900	2162.000	1237.600	2326.200	1237.900	2452.700
GR	1238.100	2548.300	1238.700	2645.600	1239.500	2815.900	1240.300	2822.900	1238.600	2829.000
GR	1238.700	2869.100	1240.600	2876.200	1239.900	2884.500	1241.000	3066.700	1241.700	3238.800
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1430.000	1770.000
X1	87.000	50.000	1539.700	1605.100	500.000	505.000	505.000	.000	.000	.000
GR	1243.800	.000	1243.300	137.400	1242.800	253.100	1241.200	292.900	1242.300	317.500
GR	1241.600	579.800	1240.000	603.600	1241.300	625.300	1240.700	783.500	1239.800	927.000
GR	1238.900	1038.400	1238.400	1154.200	1237.500	1166.000	1238.400	1206.600	1238.900	1250.800
GR	1238.300	1330.900	1238.300	1331.400	1238.500	1331.500	1237.500	1429.000	1238.000	1457.500
GR	1237.000	1473.500	1237.600	1492.300	1237.700	1539.700	1233.300	1555.500	1233.300	1561.000
GR	1236.700	1561.100	1233.700	1572.900	1233.600	1593.600	1236.700	1605.100	1236.900	1706.100
GR	1236.800	1778.100	1235.600	1795.300	1237.200	1820.100	1237.100	1876.900	1235.400	1889.600
GR	1236.700	1905.100	1237.900	1954.100	1237.000	1982.600	1237.600	2037.400	1238.500	2182.300
GR	1239.400	2430.200	1238.400	2436.100	1238.600	2473.600	1239.600	2482.000	1239.800	2645.000
GR	1241.000	2849.100	1241.800	3012.100	1242.900	3231.800	1243.400	3375.000	1243.600	3384.800
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1520.000	1940.000
X1	88.000	52.000	1695.600	1733.600	505.000	500.000	505.000	.000	.000	.000
GR	1245.400	.000	1244.800	148.500	1244.400	260.500	1244.100	358.600	1243.600	504.600
GR	1242.900	587.100	1242.700	683.800	1242.500	736.900	1242.100	815.400	1242.100	876.200
GR	1242.300	876.300	1241.800	967.400	1241.200	1046.000	1240.700	1096.900	1239.300	1272.800
GR	1238.200	1295.200	1239.300	1333.100	1239.300	1382.300	1239.300	1449.700	1238.700	1507.900
GR	1239.100	1600.500	1239.100	1695.600	1235.500	1701.200	1235.500	1719.100	1239.400	1733.600
GR	1239.400	1780.300	1238.700	1791.200	1239.300	1810.300	1239.100	1911.100	1239.300	1965.300
GR	1238.300	1973.200	1238.400	2013.400	1239.800	2033.200	1239.800	2075.600	1238.700	2075.700
GR	1238.700	2103.300	1239.600	2173.000	1240.000	2253.200	1240.100	2358.900	1240.600	2413.600
GR	1239.300	2418.500	1239.300	2441.900	1240.900	2447.300	1240.700	2484.200	1241.200	2547.000
GR	1240.000	2556.800	1241.400	2572.500	1242.100	2705.800	1242.800	2955.900	1243.500	3105.600
GR	1244.500	3248.500	1245.000	3331.200	.000	.000	.000	.000	.000	.000
QT	3.000	2900.000	2900.000	2900.000	.000	.000	.000	.000	.000	.000
NC	.065	.065	.055	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1560.000	1850.000
X1	89.000	54.000	1690.900	1722.900	490.000	490.000	490.000	.000	.000	.000
GR	1246.400	.000	1246.300	102.900	1245.900	248.300	1245.200	360.400	1243.700	420.900
GR	1243.200	446.900	1244.800	447.000	1244.200	499.600	1242.900	509.500	1244.300	523.500
GR	1243.700	644.800	1243.000	747.000	1242.900	836.100	1241.700	870.800	1243.200	888.400
GR	1242.500	924.200	1242.400	1064.300	1242.100	1159.400	1241.600	1299.200	1240.700	1320.700
GR	1241.700	1336.500	1241.200	1378.300	1241.400	1470.000	1242.100	1484.900	1240.400	1496.900
GR	1240.200	1537.500	1241.200	1548.100	1241.200	1571.000	1238.200	1584.300	1238.200	1595.200
GR	1240.700	1607.300	1240.400	1690.900	1237.100	1698.600	1236.800	1714.600	1240.200	1722.900
GR	1239.800	1767.700	1240.000	1857.500	1240.700	1959.200	1241.400	2102.500	1241.800	2177.400
GR	1242.600	2318.900	1243.100	2399.400	1244.100	2586.800	1244.100	2613.600	1243.400	2613.700
GR	1244.300	2875.200	1242.900	2881.400	1243.000	2908.200	1244.800	2917.600	1245.200	2990.500
GR	1244.100	2998.200	1245.200	3016.800	1245.900	3084.300	1246.300	3251.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1550.000	1840.000
X1	90.000	33.000	1666.300	1716.400	500.000	495.000	500.000	.000	.000	.000
GR	1248.000	.000	1246.900	239.000	1245.700	464.300	1245.700	629.300	1245.600	819.500
GR	1244.700	846.200	1244.500	914.700	1242.900	930.700	1244.700	939.900	1244.400	1044.700
GR	1242.700	1060.000	1244.400	1066.000	1244.400	1091.300	1242.600	1107.500	1243.400	1130.100
GR	1243.600	1184.000	1242.900	1254.900	1242.200	1431.200	1241.400	1666.300	1236.400	1681.700

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GR	1236.500	1700.400	1242.300	1716.400	1242.300	1826.300	1241.600	1867.200	1242.000	1903.800
GR	1242.400	2009.300	1244.100	2309.800	1245.500	2633.000	1247.300	2996.300	1248.100	3125.200
GR	1247.300	3125.300	1247.300	3173.100	1247.900	3255.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1690.000	1970.000
X1	91.000	41.000	1818.200	1863.300	500.000	500.000	500.000	.000	.000	.000
GR	1250.000	.000	1248.300	312.700	1247.400	509.100	1245.800	520.500	1247.500	539.100
GR	1248.100	571.800	1246.200	609.000	1247.200	613.300	1247.200	640.700	1245.500	658.300
GR	1245.300	664.300	1246.900	675.900	1246.800	763.500	1245.800	999.800	1245.200	1148.600
GR	1244.500	1347.700	1244.400	1468.400	1244.000	1545.200	1243.300	1687.600	1242.000	1707.800
GR	1243.200	1728.400	1243.100	1757.000	1242.400	1785.300	1242.800	1806.000	1242.800	1818.200
GR	1239.100	1833.000	1243.800	1863.300	1242.800	1916.600	1243.300	1956.200	1243.800	2074.200
GR	1244.200	2155.200	1242.900	2169.700	1244.300	2192.700	1245.700	2452.900	1244.300	2473.700
GR	1245.200	2559.200	1246.300	2575.300	1247.500	2747.600	1248.600	3014.100	1250.100	3234.600
GR	1250.300	3318.200	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1690.000	1990.000
X1	92.000	32.000	1869.700	1913.500	500.000	500.000	500.000	.000	.000	.000
GR	1251.300	.000	1250.900	106.900	1249.700	116.500	1250.700	131.100	1250.900	170.000
GR	1249.800	181.300	1250.300	215.100	1249.000	235.200	1250.600	250.800	1249.900	446.900
GR	1249.000	580.500	1248.000	786.800	1246.900	1021.000	1246.100	1176.200	1245.500	1470.500
GR	1244.500	1728.800	1243.100	1745.400	1243.900	1801.200	1244.700	1825.800	1244.700	1869.700
GR	1241.200	1883.600	1241.100	1895.400	1244.500	1913.500	1244.300	1967.300	1242.000	1981.600

GR	1244.300	1999.100	1243.300	2015.900	1244.400	2043.900	1246.500	2350.600	1248.300	2620.000
GR	1249.900	2949.100	1251.200	3252.800	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1600.000	1920.000
X1	93.000	30.000	1754.500	1789.300	500.000	500.000	500.000	.000	.000	.000
[illegible]	1252.300	.000	1251.500	291.000	1250.400	507.400	1249.400	733.300	1249.400	816.100
[illegible]	1247.400	1195.500	1246.800	1479.000	1245.500	1557.900	1245.800	1754.500	1242.300	1762.400
[illegible]	1242.400	1782.300	1246.000	1789.300	1244.700	1801.300	1245.900	1835.400	1246.100	1895.200
GR	1244.000	1919.600	1246.100	1945.500	1246.600	2053.100	1247.200	2174.400	1247.700	2262.000
GR	1246.800	2280.900	1247.800	2297.000	1248.800	2420.100	1246.700	2442.000	1248.900	2476.600
GR	1250.000	2726.100	1251.400	2970.100	1249.400	2982.000	1251.700	3001.700	1253.500	3270.600
QT	3.000	2800.000	2800.000	2800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1610.000	1890.000
X1	94.000	20.000	1729.400	1761.900	500.000	500.000	500.000	.000	.000	.000
GR	1254.600	.000	1252.600	427.500	1250.700	765.100	1248.100	1379.400	1246.700	1710.500
GR	1247.600	1729.400	1243.800	1738.500	1243.800	1751.300	1247.500	1761.900	1248.000	1792.700
GR	1246.000	1803.200	1247.800	1818.700	1248.000	1909.000	1247.800	1968.800	1249.200	2152.000
GR	1249.800	2361.200	1251.200	2575.700	1252.000	2725.500	1253.500	3019.200	1254.600	3214.700
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1720.000	1990.000
X1	95.000	33.000	1853.100	1888.700	500.000	500.000	500.000	.000	.000	.000
GR	1256.400	.000	1255.000	417.200	1253.500	750.900	1252.100	901.800	1252.500	995.100
GR	1251.400	1159.500	1250.500	1303.700	1249.500	1504.300	1247.000	1520.100	1249.600	1539.200
GR	1249.600	1656.900	1248.500	1718.200	1247.800	1733.800	1246.600	1741.100	1248.400	1771.600
GR	1244.800	1787.300	1248.700	1801.700	1248.400	1853.100	1244.000	1862.300	1244.100	1877.000
GR	1247.800	1888.700	1248.900	1926.700	1248.700	1960.200	1247.800	1990.300	1249.000	2013.100
GR	1249.800	2092.400	1250.600	2256.800	1252.800	2606.600	1252.800	2718.900	1251.700	2728.800
GR	1253.000	2745.100	1255.000	3057.000	1256.600	3320.400	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1700.000	1960.000
X1	96.000	44.000	1841.200	1873.800	505.000	505.000	505.000	.000	.000	.000
GR	1257.500	.000	1256.600	201.000	1255.800	351.500	1255.100	480.600	1254.200	602.200
GR	1254.900	686.300	1253.900	717.600	1253.600	774.900	1252.100	785.700	1253.400	794.700
GR	1253.200	875.500	1252.300	890.700	1252.900	914.600	1252.700	1063.800	1251.200	1083.100
[illegible]	1252.900	1097.900	1252.300	1125.400	1252.100	1274.800	1251.200	1357.200	1250.900	1560.000
[illegible]	1250.000	1574.300	1251.000	1587.000	1251.000	1614.300	1250.600	1634.600	1250.300	1690.200
[illegible]	1248.100	1707.000	1250.100	1720.900	1249.700	1756.700	1247.500	1767.000	1250.900	1794.200
GR	1250.900	1841.200	1247.000	1856.900	1250.500	1873.800	1251.000	1897.900	1248.300	1917.400
GR	1250.300	1959.200	1250.400	2001.600	1251.600	2170.900	1249.600	2183.200	1251.600	2205.100
GR	1253.600	2455.400	1255.400	2815.100	1256.700	3087.200	1257.800	3259.900	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1860.000	2120.000
X1	97.000	47.000	2006.600	2037.100	495.000	495.000	495.000	.000	.000	.000
GR	1259.000	.000	1257.700	159.400	1257.900	210.700	1256.500	246.600	1257.700	266.100
GR	1255.300	278.400	1257.800	294.000	1257.100	381.100	1256.800	592.300	1256.100	707.300
GR	1255.600	839.200	1254.500	850.200	1256.100	860.900	1254.800	1044.600	1253.700	1056.400
GR	1254.700	1076.100	1253.500	1456.600	1251.800	1467.500	1253.600	1481.900	1253.100	1566.900
GR	1252.100	1776.000	1251.700	1839.000	1251.700	1884.700	1249.900	1900.500	1251.100	1923.700
GR	1251.600	1958.500	1252.600	1991.000	1251.200	2006.600	1248.700	2013.700	1248.700	2027.800
GR	1252.600	2037.100	1250.500	2061.900	1251.900	2077.500	1252.300	2168.400	1253.400	2286.900
GR	1253.600	2393.200	1254.700	2550.700	1256.000	2734.100	1256.700	2970.300	1256.000	2982.900
GR	1256.900	3002.100	1257.500	3113.800	1257.900	3183.100	1257.300	3195.500	1258.100	3213.100
GR	1259.000	3316.700	1259.200	3350.900	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1910.000	2210.000
X1	98.000	52.000	2064.400	2090.300	500.000	500.000	500.000	.000	.000	.000
GR	1260.300	.000	1259.700	179.300	1258.500	480.600	1257.000	505.400	1258.300	545.500
GR	1258.200	626.600	1257.200	641.500	1258.300	656.900	1256.800	917.800	1256.800	993.400
GR	1255.600	1011.000	1256.800	1025.500	1255.500	1346.600	1254.700	1554.400	1253.800	1567.400
GR	1254.800	1589.500	1254.400	1749.900	1253.600	1829.400	1252.900	1834.500	1253.900	1847.400
GR	1253.000	1855.500	1253.700	1864.100	1253.700	1884.300	1252.900	1891.200	1252.700	1918.300
GR	1254.100	1931.400	1252.000	1945.600	1253.400	1960.100	1253.400	2019.300	1252.600	2028.800
GR	1253.700	2064.400	1249.400	2068.900	1249.400	2085.200	1253.500	2090.300	1253.600	2121.100
GR	1251.400	2132.200	1253.800	2147.700	1253.800	2192.500	1251.500	2203.100	1253.700	2217.800
GR	1253.900	2266.500	1254.400	2373.300	1252.700	2391.200	1254.600	2412.700	1254.800	2437.600
GR	1255.800	2556.100	1253.900	2571.000	1256.300	2628.600	1256.800	2724.300	1258.400	3011.500
GR	1259.700	3230.100	1259.800	3290.000	.000	.000	.000	.000	.000	.000
[illegible]	.000	.000	.000	9.100	.000	.000	.000	.000	1740.000	2040.000
[illegible]	99.000	52.000	1896.600	1925.100	505.000	510.000	510.000	.000	.000	.000
[illegible]	1260.900	.000	1260.700	144.500	1258.700	158.300	1260.300	175.200	1260.100	285.200
GR	1258.800	296.800	1259.900	319.900	1259.900	409.800	1258.500	425.200	1258.700	447.800
GR	1259.200	472.200	1258.400	859.400	1257.600	1080.100	1256.600	1094.200	1257.300	1112.700
GR	1257.100	1259.700	1256.400	1429.200	1255.800	1598.500	1254.400	1621.400	1255.300	1633.700
GR	1253.900	1643.800	1255.400	1656.500	1255.400	1692.100	1254.300	1700.700	1255.600	1712.300

GR	1255.600	1780.400	1254.000	1789.800	1255.700	1802.500	1255.700	1812.800	1253.000	1818.900
GR	1254.800	1830.300	1254.600	1858.400	1252.900	1867.200	1255.100	1881.000	1255.000	1896.600
GR	1250.800	1900.900	1251.400	1912.000	1255.700	1925.100	1255.400	1941.100	1253.000	1949.800
GR	1255.200	1961.400	1255.000	2029.400	1253.000	2036.500	1253.000	2059.900	1255.400	2076.400
GR	1255.300	2129.200	1256.800	2350.400	1258.900	2687.500	1260.400	3087.700	1259.700	3115.700
GR	1260.800	3158.000	1260.900	3166.100	.000	.000	.000	.000	.000	.000

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QT	3.000	2700.000	2700.000	2700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1860.000	2180.000
X1	100.000	39.000	2042.700	2079.800	510.000	500.000	505.000	.000	.000	.000
GR	1263.500	.000	1262.200	298.500	1260.800	622.100	1260.400	777.800	1258.700	794.500
GR	1260.300	813.300	1258.900	1157.400	1257.800	1167.400	1259.200	1178.500	1258.100	1383.100
GR	1257.500	1391.400	1257.300	1402.500	1257.800	1418.700	1257.600	1572.200	1255.900	1578.600
GR	1256.900	1589.900	1257.000	1729.500	1255.000	1743.000	1257.300	1766.100	1257.100	1844.700
GR	1255.200	1851.400	1257.300	1862.300	1257.200	1928.400	1255.100	1944.100	1256.700	1959.100
GR	1256.000	2004.800	1254.200	2029.900	1256.300	2042.700	1252.200	2051.900	1256.500	2079.800
GR	1256.300	2092.700	1254.000	2128.700	1255.900	2189.500	1254.600	2206.000	1256.500	2240.100
GR	1259.600	2817.600	1257.400	2830.900	1259.700	2867.300	1262.600	3347.500	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1900.000	2350.000
X1	101.000	47.000	2258.400	2289.100	490.000	490.000	490.000	.000	.000	.000
GR	1264.800	.000	1263.000	460.200	1261.400	810.300	1260.700	1024.400	1259.600	1043.400
GR	1260.700	1063.500	1260.300	1164.800	1259.600	1345.400	1259.200	1473.400	1257.600	1490.200
GR	1259.000	1510.800	1259.200	1624.300	1257.800	1756.700	1258.500	1833.800	1258.700	1851.900
GR	1257.800	1930.700	1262.300	1977.400	1262.800	2003.800	1262.600	2015.400	1254.200	2039.200
GR	1254.500	2059.500	1261.100	2108.200	1263.000	2147.000	1262.900	2158.600	1259.200	2176.200
GR	1257.100	2190.400	1258.300	2258.400	1253.600	2269.700	1253.600	2279.800	1258.700	2289.100
GR	1257.600	2321.300	1255.500	2346.300	1258.000	2355.800	1258.400	2368.400	1255.600	2380.600
GR	1258.700	2396.200	1258.000	2413.700	1259.600	2647.800	1260.100	2771.500	1258.100	2786.100
GR	1259.800	2806.700	1260.000	2858.600	1258.700	2874.800	1260.100	2920.600	1260.800	2968.300
GR	1263.200	3295.800	1263.700	3376.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1880.000	2330.000
X1	102.000	54.000	2232.900	2267.500	500.000	500.000	500.000	.000	.000	.000
GR	1264.900	.000	1264.500	335.600	1263.200	344.600	1264.000	360.000	1263.900	538.800
GR	1262.600	554.100	1263.400	598.900	1263.600	643.400	1263.100	686.300	1261.800	704.700
GR	1263.100	724.900	1263.000	823.900	1261.100	862.400	1262.300	891.300	1262.100	1020.600
GR	1261.500	1035.000	1262.100	1044.800	1261.400	1235.800	1260.500	1251.300	1260.900	1346.700
GR	1261.300	1492.100	1260.200	1502.600	1261.100	1517.500	1260.200	1814.900	1259.500	1921.200
GR	1257.400	1933.600	1257.400	1949.900	1258.700	1963.100	1259.200	1994.500	1259.900	2026.900
GR	1259.400	2105.100	1259.200	2141.000	1257.700	2160.200	1258.900	2203.500	1259.400	2232.900
GR	1256.100	2239.300	1256.300	2254.800	1259.600	2267.500	1257.400	2311.900	1259.300	2323.000
GR	1259.400	2350.300	1257.400	2359.400	1259.200	2380.100	1260.400	2470.300	1260.800	2628.000
GR	1259.500	2641.100	1261.400	2667.700	1262.500	2990.700	1261.000	3004.600	1262.300	3056.000
GR	1263.000	3056.100	1263.800	3154.000	1264.300	3279.400	1265.000	3348.300	.000	.000
NC	.060	.060	.060	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2050.000	2330.000
X1	103.000	45.000	2239.600	2297.500	495.000	495.000	495.000	.000	.000	.000
GR	1266.300	.000	1265.400	426.800	1263.300	446.600	1265.100	478.700	1264.400	593.700
GR	1263.400	1022.000	1262.800	1263.800	1262.400	1481.000	1261.600	1781.900	1261.300	1879.000
GR	1260.000	1892.100	1261.200	1915.300	1259.700	1926.000	1260.900	1944.400	1260.900	1974.300
GR	1259.800	1982.700	1261.000	2006.800	1260.900	2045.200	1259.800	2091.700	1261.100	2127.700
GR	1259.400	2135.700	1261.200	2149.400	1259.400	2185.600	1260.900	2239.600	1258.100	2256.100
GR	1258.000	2281.700	1261.600	2297.500	1259.800	2317.400	1259.800	2343.200	1261.200	2367.200
GR	1261.100	2431.800	1260.600	2431.900	1261.500	2457.300	1261.500	2478.300	1262.200	2662.700
GR	1261.300	2675.500	1262.500	2686.400	1263.700	2869.600	1264.000	3016.600	1264.000	3042.000
GR	1263.100	3053.000	1264.500	3073.400	1265.200	3202.800	1266.100	3336.000	1266.100	3351.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	2030.000	2350.000
X1	104.000	49.000	2186.500	2271.700	525.000	515.000	520.000	.000	.000	.000
GR	1268.000	.000	1267.400	195.000	1265.800	210.400	1267.200	253.500	1267.000	398.500
GR	1266.500	608.400	1265.100	633.600	1266.100	673.800	1266.100	787.400	1264.600	816.200
GR	1265.700	855.700	1264.900	1166.800	1264.200	1353.000	1262.900	1371.900	1263.700	1395.700
GR	1263.400	1729.500	1263.200	1729.600	1263.200	1753.200	1261.300	1769.200	1262.800	1785.700
GR	1262.800	1822.700	1261.600	1831.000	1263.200	1840.100	1262.900	1883.800	1262.000	1893.300
GR	1263.200	1912.700	1263.200	1953.700	1261.900	1965.400	1263.200	1982.600	1263.100	2007.200
GR	1262.500	2074.600	1262.100	2186.500	1261.900	2250.400	1259.800	2259.100	1262.100	2271.700
GR	1261.800	2325.100	1260.500	2339.600	1262.000	2358.400	1262.100	2406.100	1260.900	2427.500
GR	1262.700	2444.000	1264.400	2779.400	1262.800	2787.700	1264.500	2815.200	1266.600	3151.300
GR	1265.100	3179.100	1265.300	3203.900	1266.500	3237.700	1267.900	3383.400	.000	.000

ET	.000	.000	.000	9.100	.000	.000	.000	.000	2050.000	2390.000
X1	105.000	62.000	2093.100	2381.500	500.000	500.000	500.000	.000	.000	.000
GR	1269.000	.000	1268.200	364.900	1267.900	480.200	1266.700	501.900	1268.300	518.400
GR	1267.200	821.800	1266.100	831.900	1267.100	852.300	1266.900	1009.500	1266.900	1009.600
GR	1266.800	1052.900	1265.800	1058.200	1266.500	1082.700	1266.500	1212.000	1266.000	1370.900
GR	1264.900	1387.800	1265.800	1412.200	1265.400	1598.600	1263.800	1611.900	1265.100	1626.500
GR	1265.400	1713.900	1264.700	1755.400	1264.500	1954.200	1264.300	2049.200	1262.900	2061.300
GR	1264.300	2068.800	1264.100	2093.100	1262.400	2102.600	1263.800	2120.100	1261.800	2129.900
GR	1263.300	2141.300	1263.800	2173.000	1263.200	2205.600	1262.400	2232.300	1263.600	2239.000
GR	1262.000	2251.000	1263.000	2286.300	1263.100	2320.400	1261.800	2329.900	1262.000	2341.800
GR	1263.600	2359.300	1262.200	2368.700	1263.500	2381.500	1264.500	2482.900	1264.800	2570.800
GR	1264.100	2581.300	1265.200	2602.900	1265.500	2718.700	1266.200	2825.000	1264.500	2842.800
GR	1266.500	2869.100	1266.500	2892.800	1264.700	2906.400	1266.500	2927.200	1267.800	3107.600
GR	1266.600	3125.600	1268.200	3151.100	1268.900	3246.200	1269.400	3318.400	1267.800	3326.200
GR	1269.600	3341.700	1269.700	3390.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2100.000	2380.000
X1	106.000	52.000	2100.400	2390.900	495.000	500.000	500.000	.000	.000	.000
GR	1270.000	.000	1270.400	69.100	1269.800	286.300	1269.400	349.800	1270.000	349.900
GR	1269.800	520.700	1268.500	530.800	1269.400	542.700	1268.000	555.000	1269.200	570.100
GR	1268.700	705.200	1267.400	719.800	1268.400	751.300	1268.500	895.700	1268.100	1194.500
GR	1268.200	1305.000	1267.600	1414.300	1267.100	1614.300	1266.700	1774.000	1266.700	1844.400
GR	1265.400	1860.100	1266.300	1882.700	1266.200	1915.000	1265.400	1926.500	1266.500	1946.000
GR	1265.800	2003.300	1264.800	2016.300	1265.400	2036.100	1265.200	2074.600	1264.200	2084.100
GR	1265.400	2100.400	1263.700	2129.200	1263.700	2160.100	1265.400	2177.700	1265.400	2202.700
GR	1266.100	2227.800	1266.100	2251.800	1264.200	2311.600	1265.800	2332.300	1265.800	2350.900
GR	1264.300	2376.100	1266.000	2390.900	1266.000	2512.700	1266.500	2580.900	1266.800	2621.400
GR	1265.200	2632.500	1266.800	2658.800	1267.500	2726.900	1267.900	2840.100	1269.200	2970.400
GR	1270.200	3189.000	1270.600	3323.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1720.000	2100.000
X1	107.000	57.000	1864.700	2047.600	480.000	490.000	485.000	.000	.000	.000
GR	1272.000	.000	1271.400	107.400	1271.200	251.600	1270.600	368.900	1270.000	389.500
GR	1269.700	443.900	1269.800	547.800	1269.800	585.100	1270.300	608.300	1270.000	728.800
GR	1269.600	744.300	1270.100	783.900	1269.900	862.100	1270.300	937.800	1269.800	1185.200
GR	1268.900	1262.000	1268.300	1309.500	1268.600	1329.100	1268.400	1379.400	1267.800	1547.700
GR	1266.600	1585.600	1267.600	1612.200	1267.500	1673.000	1266.500	1692.900	1266.000	1709.100
GR	1266.800	1725.600	1266.000	1752.400	1267.000	1769.700	1266.200	1779.900	1267.400	1802.900
GR	1267.400	1864.700	1265.300	1878.800	1266.500	1891.300	1265.200	1904.800	1267.600	1920.100
GR	1265.600	1952.800	1266.900	1993.300	1266.100	2016.300	1267.600	2047.600	1265.700	2082.700

GR	1267.100	2098.400	1266.400	2140.500	1266.900	2210.400	1266.800	2262.300	1267.800	2384.100
GR	1268.100	2445.600	1266.800	2459.600	1268.200	2481.800	1268.700	2538.000	1267.900	2550.900
GR	1269.000	2568.300	1269.600	2712.800	1268.300	2725.000	1270.000	2755.900	1271.400	2953.600
GR	1272.700	3148.000	1273.000	3289.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1680.000	2030.000
X1	108.000	54.000	1670.300	1995.400	540.000	500.000	500.000	.000	.000	.000
GR	1274.000	.000	1273.400	125.300	1272.400	155.000	1273.000	213.800	1272.800	295.100
GR	1273.200	333.700	1272.700	504.500	1272.300	690.100	1271.900	854.500	1270.600	917.800
GR	1270.200	935.800	1270.900	949.200	1270.800	1054.300	1269.500	1062.100	1270.500	1085.000
GR	1270.400	1131.400	1270.100	1203.000	1269.200	1219.100	1269.800	1267.900	1269.800	1350.000
GR	1268.400	1367.100	1269.600	1394.800	1269.600	1451.200	1268.600	1497.300	1269.400	1525.800
GR	1269.200	1670.300	1267.400	1688.300	1268.300	1713.700	1268.900	1759.700	1268.500	1838.600
GR	1267.300	1856.100	1268.500	1878.800	1266.000	1891.700	1268.500	1913.300	1266.700	1926.500
GR	1268.200	1957.800	1268.600	1995.400	1267.300	2010.400	1268.400	2036.900	1268.600	2108.500
GR	1267.900	2118.000	1268.300	2135.300	1269.000	2152.400	1267.700	2164.900	1269.200	2176.300
GR	1268.900	2244.200	1269.600	2452.400	1268.800	2459.500	1269.800	2491.200	1273.000	2958.300
GR	1271.500	2967.000	1273.200	2989.300	1274.200	3250.800	1274.600	3294.400	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1840.000	2180.000
X1	109.000	48.000	1953.100	2145.100	530.000	505.000	505.000	.000	.000	.000
GR	1276.000	.000	1274.700	263.200	1274.300	323.100	1274.600	405.100	1273.400	745.700
GR	1271.600	754.500	1273.400	769.600	1272.100	785.600	1273.000	811.400	1272.900	872.700
GR	1271.300	891.900	1272.500	920.600	1272.500	971.900	1272.000	1053.700	1271.600	1108.400
GR	1271.500	1323.900	1270.500	1342.100	1271.200	1370.700	1270.600	1744.600	1269.700	1764.300
GR	1270.300	1795.900	1269.300	1812.800	1269.500	1861.600	1268.700	1867.900	1270.300	1881.200
GR	1270.000	1927.900	1270.000	1953.100	1268.200	1970.400	1269.800	1995.000	1269.000	2001.400
GR	1269.000	2030.800	1269.900	2049.500	1270.000	2076.600	1268.700	2089.300	1269.800	2110.000
GR	1270.000	2145.100	1269.000	2161.700	1270.300	2189.100	1270.500	2234.200	1268.700	2244.900
GR	1270.100	2268.100	1270.400	2334.100	1271.100	2528.600	1272.000	2656.000	1272.900	2810.200
GR	1274.200	3047.800	1276.300	3354.000	1276.600	3386.400	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1880.000	2290.000
X1	110.000	44.000	1990.500	2274.400	605.000	530.000	500.000	.000	.000	.000
GR	1276.700	.000	1275.700	279.600	1275.200	518.700	1274.500	826.700	1273.300	846.200
GR	1274.300	879.600	1273.500	1103.300	1272.500	1114.500	1273.700	1136.400	1272.200	1150.300

GR	1273.800	1172.500	1273.200	1231.700	1272.400	1244.400	1272.500	1496.000	1272.100	1678.400
GR	1270.300	1720.400	1271.400	1849.400	1270.000	1860.100	1271.100	1871.900	1271.200	1942.500
GR	1271.600	1990.500	1271.300	2052.900	1271.500	2138.900	1270.300	2159.300	1271.500	2176.700
GR	1271.800	2207.900	1270.500	2222.200	1271.700	2238.300	1270.000	2254.800	1271.700	2274.400
GR	1271.700	2308.100	1270.300	2318.500	1271.800	2333.600	1272.300	2409.400	1271.500	2416.900
GR	1271.400	2427.600	1272.100	2435.700	1273.500	2615.000	1274.400	2829.100	1275.700	3047.000
GR	1276.700	3192.300	1274.600	3204.300	1276.500	3220.600	1277.700	3369.900	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2000.000	2420.000
X1	111.000	38.000	2161.600	2393.500	505.000	500.000	500.000	.000	.000	.000
GR	1278.400	.000	1278.000	91.100	1275.800	104.900	1276.700	158.500	1277.700	219.900
GR	1277.600	300.400	1276.200	661.400	1275.300	917.600	1274.900	1204.300	1273.500	1214.100
GR	1274.300	1225.600	1274.200	1428.900	1273.900	1521.000	1273.200	1556.100	1272.300	1797.500
GR	1273.400	1819.600	1273.400	1842.700	1272.400	1865.200	1272.700	1911.700	1272.500	1952.100
GR	1272.800	2068.700	1272.700	2161.600	1272.500	2272.100	1271.500	2290.000	1272.400	2308.600
GR	1272.500	2349.000	1271.800	2360.000	1272.400	2393.500	1273.200	2454.400	1273.600	2564.600
GR	1272.500	2581.400	1273.700	2606.000	1273.900	2671.400	1275.100	2800.400	1276.200	2956.500
GR	1276.900	3152.200	1278.400	3343.400	1278.500	3370.200	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1920.000	2470.000
X1	112.000	46.000	1974.300	2473.700	480.000	480.000	500.000	.000	.000	.000
GR	1279.400	.000	1278.600	68.400	1278.300	125.100	1278.300	205.300	1278.100	400.300
GR	1277.400	525.900	1277.200	642.400	1276.700	825.500	1276.900	1017.900	1276.400	1160.900
GR	1275.000	1316.100	1274.900	1400.200	1274.200	1405.100	1275.400	1427.600	1274.300	1443.900
GR	1274.900	1517.500	1274.000	1523.500	1274.900	1540.200	1274.900	1568.300	1274.200	1574.900
GR	1274.400	1688.200	1273.000	1697.900	1274.100	1709.900	1274.000	1974.300	1272.500	1986.500
GR	1274.300	2004.800	1274.300	2129.200	1274.100	2197.000	1272.500	2205.500	1273.900	2224.800
GR	1272.900	2237.200	1273.900	2256.400	1273.900	2336.500	1274.600	2359.000	1273.200	2375.500
GR	1273.700	2421.600	1274.600	2473.700	1274.800	2564.900	1275.800	2606.400	1276.100	2657.100
GR	1274.600	2669.700	1276.100	2690.900	1278.100	3064.900	1276.800	3083.500	1278.100	3097.800
GR	1280.100	3351.500	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2030.000	2540.000
X1	113.000	30.000	2107.200	2529.000	500.000	500.000	495.000	.000	.000	.000
GR	1280.300	.000	1279.900	338.800	1279.400	380.600	1279.400	629.500	1279.000	901.900
GR	1278.200	932.600	1277.600	1030.100	1276.600	1236.400	1275.900	1463.000	1276.100	1523.600
GR	1275.300	1696.300	1273.700	1707.500	1275.300	1728.800	1275.600	1762.400	1274.300	1772.500
GR	1276.100	1812.600	1274.700	1823.800	1275.800	1839.600	1276.300	2107.200	1274.900	2124.500
GR	1276.300	2141.700	1275.900	2283.600	1275.600	2305.700	1274.500	2334.100	1275.600	2364.300
GR	1275.600	2421.400	1276.800	2529.000	1277.000	2673.500	1278.900	3008.300	1281.000	3295.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1920.000	2360.000
X1	114.000	37.000	1916.700	2340.300	540.000	480.000	510.000	.000	.000	.000
GR	1282.900	.000	1282.800	196.100	1282.200	462.400	1281.400	616.300	1281.100	735.800
GR	1279.600	944.900	1277.600	955.300	1279.000	978.500	1278.500	1265.200	1277.400	1287.900
GR	1278.700	1316.200	1277.800	1600.600	1277.500	1727.700	1276.000	1737.000	1277.200	1761.400
GR	1277.400	1916.700	1276.500	1946.700	1276.900	2066.200	1277.400	2114.800	1275.900	2130.300
GR	1277.400	2164.600	1277.300	2287.100	1276.000	2302.100	1277.400	2324.500	1277.600	2340.300
GR	1276.900	2367.400	1277.700	2454.700	1278.700	2678.000	1279.500	2800.000	1279.000	2809.200
GR	1278.800	2824.800	1279.400	2832.100	1281.000	3062.000	1281.000	3159.600	1280.100	3169.300
GR	1281.400	3189.100	1281.700	3259.600	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1850.000	2250.000
X1	115.000	36.000	1975.300	2233.300	580.000	500.000	515.000	.000	.000	.000
GR	1283.800	.000	1282.800	312.400	1281.400	664.600	1280.400	857.700	1279.600	1139.100
GR	1279.300	1541.500	1278.100	1556.900	1279.200	1593.400	1278.800	1775.500	1278.200	1796.800
GR	1278.900	1824.700	1278.800	1909.700	1278.300	1922.700	1278.300	1938.800	1278.900	1975.300
GR	1277.900	1987.200	1278.700	2008.300	1278.700	2028.700	1276.700	2039.900	1279.400	2063.100
GR	1279.400	2078.600	1277.600	2094.200	1278.800	2123.800	1278.700	2167.400	1278.700	2233.300
GR	1279.200	2301.800	1279.400	2369.100	1277.600	2378.300	1279.700	2396.700	1280.300	2544.100
GR	1278.700	2554.200	1280.300	2571.800	1282.800	3096.800	1281.400	3125.700	1283.000	3165.300
GR	1283.000	3188.900	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1960.000	2370.000
X1	116.000	40.000	2005.000	2363.400	500.000	500.000	500.000	.000	.000	.000
GR	1285.800	.000	1285.000	91.200	1283.400	397.000	1282.300	409.600	1283.300	435.200
GR	1282.600	630.400	1282.100	920.700	1281.500	1192.400	1280.900	1461.800	1280.600	1719.800
GR	1279.900	1746.300	1279.500	1806.100	1280.300	1848.700	1280.000	2005.000	1279.900	2152.100
GR	1280.400	2175.700	1280.200	2186.000	1278.700	2201.200	1279.800	2225.500	1280.100	2263.800
GR	1280.800	2363.400	1279.600	2373.000	1280.700	2388.000	1281.000	2421.200	1279.500	2429.900
GR	1281.100	2446.400	1280.600	2499.200	1281.600	2544.800	1280.500	2552.200	1281.600	2567.300
GR	1281.800	2633.900	1280.300	2648.100	1282.400	2667.600	1282.700	2693.400	1280.500	2703.100

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GR   1281.400   2725.600   1281.900   2826.200   1283.200   2995.100   1285.300   3289.400   1285.400   3289.500

ET       .000       .000       .000       9.100       .000       .000       .000       .000   2090.000   2500.000
X1    117.000     55.000   2164.900   2475.900     480.000     510.000     495.000       .000       .000       .000
GR   1286.500       .000   1284.800     417.700   1283.800     551.200   1283.400     559.600   1284.000     586.900
GR   1283.800     620.800   1283.200     636.200   1283.200     697.800   1284.200     744.100   1283.800     934.500
GR   1282.700   1275.100   1282.300   1449.200   1282.000   1538.400   1282.100   1713.100   1281.100   1746.900
GR   1281.500   1792.700   1281.900   1816.600   1281.800   1953.500   1281.500   2017.400   1281.400   2102.400
GR   1280.500   2118.600   1281.400   2141.900   1281.400   2164.900   1280.400   2173.500   1281.200   2195.000
GR   1281.200   2235.800   1279.600   2242.200   1279.800   2291.500   1280.900   2315.600   1280.900   2441.500
GR   1281.800   2475.900   1282.000   2584.200   1282.000   2618.600   1281.700   2618.700   1281.500   2699.100
GR   1282.500   2786.100   1282.800   2825.800   1282.100   2841.100   1283.200   2855.500   1283.200   2863.500
GR   1282.100   2867.000   1283.000   2877.600   1283.200   2906.800   1282.300   2913.900   1283.400   2928.100
GR   1283.900   3066.200   1282.600   3074.600   1284.500   3091.000   1284.600   3104.100   1282.900   3110.700
GR   1284.300   3123.600   1284.300   3144.200   1284.500   3191.300   1284.800   3290.000   1285.100   3301.900

ET       .000       .000       .000       9.100       .000       .000       .000       .000   2100.000   2530.000
X1    118.000     30.000   2403.800   2433.800     500.000     540.000     515.000       .000       .000       .000
GR   1287.400       .000   1285.800     416.700   1284.800     823.300   1284.400   1115.300   1284.300   1333.800
GR   1283.800   1398.100   1283.300   1425.500   1282.700   1461.500   1282.900   1479.000   1283.900   1507.200
GR   1284.100   1557.100   1284.100   1557.200   1283.000   1557.300   1282.600   1685.100   1282.500   1824.600
GR   1282.100   2015.900   1282.000   2108.700   1281.800   2192.300   1281.800   2288.000   1281.900   2403.800
GR   1279.800   2417.200   1281.700   2433.800   1281.900   2454.800   1281.900   2508.500   1282.300   2579.200
GR   1283.100   2713.300   1283.800   2876.700   1284.900   3033.200   1285.600   3168.100   1286.400   3293.000

ET       .000       .000       .000       9.100       .000       .000       .000       .000   2070.000   2400.000
X1    119.000     36.000   2253.000   2333.000     545.000     500.000     500.000       .000       .000       .000
GR   1288.000       .000   1287.200     278.000   1287.200     363.100   1286.900     363.200   1286.600     528.400
GR   1286.000     710.600   1285.800     893.100   1285.800   1002.400   1285.300   1056.200   1285.300   1117.100
GR   1284.700   1143.800   1285.000   1206.200   1284.700   1394.900   1284.400   1515.800   1284.400   1564.400
GR   1284.100   1774.400   1284.300   1872.800   1283.900   1971.800   1283.400   2100.900   1283.400   2225.900
GR   1283.400   2253.000   1281.600   2275.400   1282.900   2296.100   1281.600   2305.900   1283.200   2333.000
GR   1283.100   2352.700   1282.900   2386.000   1283.400   2482.200   1284.300   2655.800   1285.200   2832.500
GR   1286.100   3010.900   1287.600   3240.800   1288.500   3350.000   1286.800   3354.200   1288.100   3368.600
GR   1288.300   3374.100       .000       .000       .000       .000       .000       .000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
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   ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO 1.000

          CROSS SECTIONS ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM

          ZERO POINT FOR CROSS SECTION GR STATIONING CORRESPONDS TO LEFT
             END OF CROSS SECTION LINE

          STARTING WATER SURFACE ELEVATION BASED ON SLOPE-AREA METHOD
             USING ESTIMATED SLOPE OF 0.0028 FT/FT

          FINAL ENCROACHMENT STATIONS USE TYPE 1 ENCROACHMENT METHOD BASED
             ON RESULTS OF TYPE  4 ENCROACHMENT

    1.00     8.93  1127.43      .00  1127.43  1127.76      .33      .00      .00  1126.20
   13200.     250.   11516.    1434.     244.    2345.     867.       0.       0.  1126.30
     .00     1.03     4.91     1.65     .055     .050     .060     .000  1118.50  1144.10
  .002765      0.       0.       0.        0        0        0      .00  1536.96  2681.07
0
FLOW DISTRIBUTION FOR SECNO=      1.00          CWSEL=   1127.43

STA=    1144.    1540.    1958.    1988.    2008.    2022.    2035.    2178.    2188.    2203.    2249.    2477.    2681.
  PER Q=      1.9     87.2       .2       .5       .7       .3      2.4       .4       .7      1.3      3.6       .6
   AREA=    243.6   2345.2     24.9     34.5     39.4     21.2    198.2     24.3     38.7     88.0    303.1     95.1
    VEL=      1.0      4.9      1.2      1.9      2.5      1.8      1.6      2.3      2.5      2.0      1.6       .8

   NO 2.000

3265 DIVIDED FLOW

    2.00     9.53  1130.43      .00       .00  1130.62      .19     2.84      .01  1130.30
   13200.     127.    9709.    3365.      64.    2573.    1408.      81.      34.  1126.80
```

```
      .08      1.99      3.77      2.39      .055      .050      .060      .000  1120.90  1002.39
   .003258    1015.      955.      915.         2         0         0       .00  1624.70  2821.65
0
 FLOW DISTRIBUTION FOR SECNO=      2.00          CWSEL=   1130.43

 STA=    1002.    1024.    1044.    1257.    2028.    2187.    2198.    2210.    2638.    2822.
   PER Q=      .5       .5       .0     73.5     11.1       .9      1.0     12.0       .5
    AREA=    32.7     29.9      1.2   2573.2    490.8     37.5     42.4    761.6     76.0
     VEL=     2.0      2.0       .2      3.8      3.0      3.2      3.2      2.1       .8

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.000

 3265 DIVIDED FLOW

      3.00      9.29  1133.29       .00       .00  1133.53       .25      2.89       .02  1132.70
    13200.     1998.     8170.     3032.     1010.     1705.     1466.      179.       75.  1130.20
       .15      1.98      4.79      2.07      .055      .050      .060      .000  1124.00   702.68
   .002426     1070.     1040.     1010.         2         0         0       .00  1834.54  2649.08
0
 FLOW DISTRIBUTION FOR SECNO=      3.00          CWSEL=   1133.29

 STA=     703.    1139.    1265.    1408.    1470.    1556.    1841.    2030.    2075.    2135.    2513.    2649.
   PER Q=      3.5      3.6      4.3      3.2       .6     61.9      8.8      3.6      3.1      5.8      1.7
    AREA=    285.5    227.5    263.6    164.5     68.4   1705.5    498.3    162.9    167.9    497.6    138.9
     VEL=      1.6      2.1      2.1      2.6      1.1      4.8      2.3      2.9      2.4      1.5      1.6

 *SECNO 4.000

 3265 DIVIDED FLOW

      4.00      8.86  1135.46       .00       .00  1135.71       .24      2.18       .00  1135.20
    13200.      916.     8785.     3500.      534.     1933.     1355.      248.      107.  1133.20
       .21      1.72      4.54      2.58      .055      .050      .060      .000  1126.60   752.62
   .003529      740.      740.      780.         1         0         0       .00  1784.20  2582.60
0
 FLOW DISTRIBUTION FOR SECNO=      4.00          CWSEL=   1135.46

 STA=     753.    1166.    1275.    1328.    1793.    2011.    2110.    2173.    2485.    2583.
   PER Q=      3.6      3.1       .2     66.5      8.2      6.7      5.7      5.8       .1
    AREA=    325.8    180.9     27.2   1933.2    390.5    291.9    221.2    424.4     27.4
     VEL=      1.5      2.3      1.0      4.5      2.8      3.0      3.4      1.8       .6

 *SECNO 5.000

 3265 DIVIDED FLOW

      5.00      9.37  1137.77       .00       .00  1138.14       .37      2.40       .04  1138.80
    13200.      362.     7428.     5410.      327.     1197.     2216.      310.      137.  1136.00
       .25      1.11      6.20      2.44      .055      .050      .060      .000  1128.40   566.37
   .003216      705.      705.      725.         1         0         0       .00  1960.97  2659.28
0
1
  10-31-91     15:03:02                                                                          PAGE   29


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.00          CWSEL=   1137.77

 STA=     566.    1348.    1529.    1645.    1744.    2079.    2155.    2563.    2659.
   PER Q=      2.7     56.3      4.0      7.7     15.9      5.1      8.1       .1
    AREA=    326.7   1197.3    229.8    327.6    822.2    224.3    594.6     17.3
     VEL=      1.1      6.2      2.3      3.1      2.6      3.0      1.8       .4

 *SECNO 6.000
 3280 CROSS SECTION      6.00 EXTENDED       .05 FEET
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3470 ENCROACHMENT STATIONS=    1551.9    3054.0  TYPE=     1  TARGET=    1502.100
     6.00    11.65  1139.35      .00      .00  1139.54      .19     1.38      .02  1137.80
   11800.    1397.    3282.    7120.     528.     621.    3006.     357.     158.   1138.60
      .30     2.64     5.29     2.37     .055     .050     .060     .000  1127.70  1551.90
  .002266     490.     500.     520.        2        0        0      .00  1502.10  3054.00
0
 FLOW DISTRIBUTION FOR SECNO=      6.00          CWSEL=   1139.35

 STA=    1552.    1652.    1682.    1746.    1828.    2237.    2377.    2615.    2964.    3054.
   PER Q=      4.6      4.7      2.5     27.8     31.6     10.0     12.5      6.1       .1
    AREA=    239.3    150.8    138.4    620.6   1393.2    453.7    642.9    489.0     27.3
     VEL=      2.3      3.7      2.1      5.3      2.7      2.6      2.3      1.5       .5

 *SECNO 7.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1730.6    3207.7  TYPE=     1  TARGET=    1477.100
     7.00    10.97  1140.47      .00      .00  1140.69      .22     1.14      .01  1139.00
   10400.    2200.    3342.    4858.     789.     589.    2154.     401.     174.   1138.50
      .34     2.79     5.67     2.26     .055     .050     .060     .000  1129.50  1730.60
  .002298     500.     500.     500.        2        0        0      .00  1364.66  3156.81
0
 FLOW DISTRIBUTION FOR SECNO=      7.00          CWSEL=   1140.47

 STA=    1731.    2088.    2124.    2146.    2201.    2220.    2289.    2386.    2529.    2575.    3114.    3157.
   PER Q=      6.8      5.2      4.2      4.2       .8     32.1      4.8     10.2      4.9     26.6       .1
    AREA=    315.2    155.8    113.5    164.5     39.8    589.3    234.3    430.2    175.1   1296.3     18.4
     VEL=      2.2      3.5      3.8      2.7      2.2      5.7      2.2      2.5      2.9      2.1       .7

1
  10-31-91     15:03:02                                                                                          PAGE   30


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    LOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 8.000

 3265 DIVIDED FLOW

     8.00    10.48  1141.38      .00      .00  1141.45      .07      .74      .02  1138.80
    9000.    3011.    2965.    3024.    1919.    1025.    2036.     450.     193.   1138.40
      .41     1.57     2.89     1.49     .055     .050     .060     .000  1130.90   231.72
  .000983     500.     500.     500.        2        0        0      .00  1891.31  2135.17
0
 FLOW DISTRIBUTION FOR SECNO=      8.00          CWSEL=   1141.38

 STA=     232.     468.     955.    1046.    1231.    1335.    1499.    1770.    1951.    2135.
   PER Q=      5.1     23.5      4.8     32.9      6.0     10.5     12.5      3.7       .9
    AREA=    389.3   1276.7    253.2   1025.0    325.3    546.7    739.2    301.7    123.4
     VEL=      1.2      1.7      1.7      2.9      1.7      1.7      1.5      1.1       .6

 *SECNO 9.000

 3265 DIVIDED FLOW

     9.00     9.65  1142.05      .00      .00  1142.19      .15      .72      .02  1140.10
    9000.    2150.    4423.    2427.     879.    1161.    1270.     497.     212.   1139.10
      .45     2.45     3.81     1.91     .055     .050     .060     .000  1132.40  1061.59
  .002451     485.     485.     505.        2        0        0      .00  1512.42  2599.72
0
 FLOW DISTRIBUTION FOR SECNO=      9.00          CWSEL=   1142.05

 STA=    1062.    1349.    1465.    1511.    1556.    1832.    1871.    2052.    2350.    2600.
   PER Q=      5.7      4.7      8.5      5.0     49.1      3.3     11.1     10.3      2.3
    AREA=    340.0    180.3    209.1    149.9   1160.7    116.6    445.2    520.5    187.6
     VEL=      1.5      2.4      3.7      3.0      3.8      2.5      2.3      1.8      1.1

 SECNO 10.000

 3265 DIVIDED FLOW

    10.00    10.06  1143.16      .00      .00  1143.42      .27     1.19      .04  1148.40
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    9000.    1009.    6015.    1976.     367.    1246.    1132.     530.     227.   1141.10
      .49     2.75     4.83     1.75     .055     .050     .060     .000  1133.10   977.58
  .002492     465.     490.     475.        2        0        0      .00  1170.13  2563.30
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     10.00          CWSEL=   1143.16

 STA=     978.    1145.    1192.    1788.    1982.    2157.    2377.    2563.
   PER Q=      8.3      2.9     66.8      6.5      7.6      6.9       .9
    AREA=    262.2    104.4   1246.3    331.1    349.8    352.4     98.6
     VEL=      2.9      2.5      4.8      1.8      2.0      1.8       .8

 *SECNO 11.000

 3265 DIVIDED FLOW

    11.00     9.45  1144.25      .00      .00  1144.40      .15      .97      .01  1150.20
    8600.    3029.    3466.    2105.    1091.     885.    1378.     562.     241.   1142.10
      .53     2.78     3.91     1.53     .055     .050     .060     .000  1134.80   981.64
  .001779     460.     460.     465.        2        0        0      .00  1388.92  2566.57
0
 FLOW DISTRIBUTION FOR SECNO=     11.00          CWSEL=   1144.25

 STA=     982.    1119.    1324.    1445.    1455.    1700.    1877.    2007.    2138.    2193.    2415.    2567.
   PER Q=     19.7      3.9     10.9       .7     40.3      6.9      4.2      4.1      3.4      5.3       .6
    AREA=    564.3    210.9    287.2     28.6    885.4    355.0    234.6    229.9    144.2    335.0     79.7
     VEL=      3.0      1.6      3.3      2.1      3.9      1.7      1.5      1.5      2.0      1.4       .7

 *SECNO 12.000

 3265 DIVIDED FLOW

    12.00     8.53  1145.23      .00      .00  1145.51      .28     1.07      .04  1147.20
    8600.     504.    5813.    2283.     286.    1158.    1312.     597.     257.   1142.90
      .57     1.76     5.02     1.74     .055     .050     .060     .000  1136.70   891.17
  .002700     490.     495.     485.        2        0        0      .00  1477.82  2509.38
0
 FLOW DISTRIBUTION FOR SECNO=     12.00          CWSEL=   1145.23

 STA=     891.    1150.    1338.    1562.    1874.    2003.    2105.    2509.
   PER Q=      3.8      2.1     67.6      9.8      6.3      6.1      4.3
    AREA=    185.6    100.7   1157.5    486.5    262.4    233.5    329.1
     VEL=      1.8      1.8      5.0      1.7      2.1      2.2      1.1

 *SECNO 13.000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST



 3265 DIVIDED FLOW

    13.00     8.72  1146.62      .00      .00  1146.81      .19     1.29      .01  1149.60
    8600.    1439.    3826.    3335.     727.     803.    1701.     631.     275.   1144.40
      .61     1.98     4.76     1.96     .055     .050     .060     .000  1137.90   711.42
  .002477     510.     500.     495.        2        0        0      .00  1775.80  2579.64
0
 FLOW DISTRIBUTION FOR SECNO=     13.00          CWSEL=   1146.62

 STA=     711.    1102.    1286.    1326.    1331.    1505.    1646.    1700.    1850.    2047.    2288.    2580.
   PER Q=      5.5      8.0      3.2       .1     44.5      6.8      4.0      9.5     11.9      5.6      1.0
    AREA=    340.6    276.4    105.9      4.5    803.1    290.2    145.4    365.9    467.3    308.9    123.7
     VEL=      1.4      2.5      2.6      1.2      4.8      2.0      2.4      2.2      2.2      1.5       .7

 *SECNO 14.000
```

```
3265 DIVIDED FLOW

    14.00     9.36  1147.76      .00      .00  1147.92      .16     1.11      .00  1148.40
    8600.     813.    5249.    2538.     598.    1343.    1400.     665.     294.   1145.60
      .65     1.36     3.91     1.81     .055     .050     .060     .000  1138.40   521.76
  .002438     465.     450.     450.        2        0        0      .00  1791.05  2321.32
0
 FLOW DISTRIBUTION FOR SECNO=     14.00          CWSEL=   1147.76

 STA=     522.    1086.    1103.    1415.    1497.    1758.    1987.    1997.    2011.    2262.    2321.
   PER Q=      9.2       .3     61.0      3.4     10.9     10.8       .8      1.0      2.5       .0
    AREA=    580.1     17.9   1342.9    156.8    498.3    471.7     27.9     38.3    202.5      4.6
     VEL=      1.4      1.4      3.9      1.9      1.9      2.0      2.5      2.3      1.1       .2

 *SECNO 15.000

 3265 DIVIDED FLOW

    15.00     9.35  1149.05      .00      .00  1149.20      .15     1.27      .00  1146.60
    8200.    4110.    1873.    2217.    1843.     359.    1390.     707.     318.   1147.40
      .70     2.23     5.21     1.60     .055     .050     .060     .000  1139.70   563.88
  .002372     600.     510.     485.        1        0        0      .00  2225.88  2797.10
0
1
  10-31-91     15:03:02                                                                          PAGE   33


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     15.00          CWSEL=   1149.05

 STA=     564.    1009.    1289.    1329.    1377.    1409.    1533.    1604.    1625.    1674.    1769.    2048.    2134.
   PER Q=      6.6     11.5      5.6      7.0      4.9      9.5      4.0      1.1     22.8      3.6     10.4      3.4
    AREA=    390.3    491.3    146.3    180.5    123.7    317.6    150.2     43.1    359.4    167.6    487.9    155.1
     VEL=      1.4      1.9      3.1      3.2      3.2      2.5      2.2      2.1      5.2      1.8      1.8      1.8
 STA=    2134.    2223.    2404.    2797.
   PER Q=      3.5      4.5      1.6
    AREA=    161.7    238.3    178.9
     VEL=      1.8      1.5       .7

 *SECNO 16.000

 3265 DIVIDED FLOW

    16.00     9.07  1150.17      .00      .00  1150.33      .15     1.13      .00  1148.10
    8200.    2514.    2291.    3395.    1404.     465.    1550.     748.     342.   1148.60
      .75     1.79     4.93     2.19     .055     .050     .060     .000  1141.10   424.93
  .002154     495.     500.     505.        2        0        0      .00  1931.03  2667.42
0
 FLOW DISTRIBUTION FOR SECNO=     16.00          CWSEL=   1150.17

 STA=     425.    1124.    1202.    1487.    1695.    1761.    1830.    1937.    1967.    2003.    2075.    2107.    2132.
   PER Q=      3.2      3.8     12.9     10.7     27.9      3.1      4.5      4.5      4.4      4.4      4.7      3.1
    AREA=    274.7    152.5    545.9    430.4    464.8    137.7    203.9    122.9    132.6    173.3    132.4     93.5
     VEL=      1.0      2.1      1.9      2.0      4.9      1.9      1.8      3.0      2.7      2.1      2.9      2.8
 STA=    2132.    2158.    2217.    2355.    2667.
   PER Q=      3.3      4.2      4.0      1.3
    AREA=     98.1    154.4    204.3     96.4
     VEL=      2.8      2.2      1.6      1.1

 *SECNO 17.000

 3265 DIVIDED FLOW

    17.00     9.58  1151.48      .00      .00  1151.71      .23     1.36      .02  1150.00
    8200.     861.    5241.    2099.     535.    1136.    1134.     784.     364.   1150.00
      .79     1.61     4.62     1.85     .055     .050     .060     .000  1141.90   790.30
  .003408     550.     500.     495.        2        0        0      .00  1687.05  2481.56
0
  10-31-91     15:03:02                                                                          PAGE   34


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
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   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=     17.00          CWSEL=   1151.48

 STA=     790.    1160.    1376.    1637.    1818.    2240.    2259.    2291.    2312.    2345.    2482.
   PER Q=      3.4      7.1     63.9      6.1     13.5      1.1      1.5      1.0      1.6       .7
    AREA=    236.5    298.5   1135.5    267.5    603.7     38.6     57.7     39.7     59.1     67.2
     VEL=      1.2      2.0      4.6      1.9      1.8      2.3      2.2      2.2      2.2       .9

 *SECNO 18.000
     18.00     8.24  1152.84      .00      .00  1152.96      .12     1.24      .01  1151.00
     7800.    1937.    3986.    1877.    1261.    1109.    1133.     823.     386.  1149.80
       .85     1.54     3.59     1.66     .055     .050     .060     .000  1144.60   751.01
   .001615     570.     545.     510.        2        0        0      .00  1788.83  2539.84
0
 FLOW DISTRIBUTION FOR SECNO=     18.00          CWSEL=   1152.84

 STA=     751.    1198.    1400.    1451.    1673.    1884.    1977.    2076.    2135.    2302.    2540.
   PER Q=      3.6      7.1      4.9      9.3     51.1      6.2      7.9      3.1      4.1      2.8
    AREA=    317.4    351.0    162.2    430.2   1109.0    250.7    296.2    137.6    248.9    199.9
     VEL=       .9      1.6      2.4      1.7      3.6      1.9      2.1      1.8      1.3      1.1

 *SECNO 19.000
     19.00     9.03  1153.93      .00      .00  1154.21      .27     1.20      .05  1152.70
     7800.    2972.    2956.    1872.    1351.     473.     899.     859.     407.  1152.40
       .89     2.20     6.25     2.08     .055     .050     .060     .000  1144.90   709.68
   .003957     500.     500.     500.        2        0        0      .00  1907.90  2617.58
0
 FLOW DISTRIBUTION FOR SECNO=     19.00          CWSEL=   1153.93

 STA=     710.    1399.    1455.    1600.    1768.    1853.    1928.    2044.    2270.    2538.    2618.
   PER Q=     11.3      8.1      7.9      5.5      5.3     37.9      6.7     12.4      3.8      1.1
    AREA=    550.3    174.8    251.8    215.6    159.0    473.1    218.9    413.3    203.3     63.7
     VEL=      1.6      3.6      2.5      2.0      2.6      6.2      2.4      2.3      1.5      1.4

 *SECNO 20.000
     20.00     8.32  1155.42      .00      .00  1155.54      .12     1.32      .02  1153.80
     7600.    2905.    2208.    2488.    1764.     500.    1416.     896.     429.  1151.80
       .94     1.65     4.42     1.76     .055     .050     .060     .000  1147.10   419.87
   .001886     490.     500.     510.        1        0        0      .00  2078.25  2498.13
0
1
  10-31-91     15:03:02                                                                          PAGE   35


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=     20.00          CWSEL=   1155.42

 STA=     420.     826.    1032.    1081.    1288.    1401.    1449.    1617.    1694.    1877.    1939.    2227.    2420.
   PER Q=      5.7      4.4      4.1      8.5      5.2      3.5      6.8     29.0      9.7      7.3     11.4      4.1
    AREA=    373.9    251.2    134.5    369.7    216.9    121.6    296.2    499.6    402.2    219.1    528.9    237.1
     VEL=      1.2      1.3      2.3      1.7      1.8      2.2      1.7      4.4      1.8      2.5      1.6      1.3
 STA=    2420.    2498.
   PER Q=       .2
    AREA=     28.3
     VEL=       .5

 *SECNO 21.000

 3265 DIVIDED FLOW

     21.00     8.72  1156.42      .00      .00  1156.59      .17     1.03      .02  1152.90
     7600.    1132.    3547.    2921.     629.     786.    1600.     935.     451.  1153.30
       .99     1.80     4.51     1.83     .055     .050     .060     .000  1147.70   462.05
   .002122     530.     520.     500.        2        0        0      .00  1630.20  2370.51
0
 FLOW DISTRIBUTION FOR SECNO=     21.00          CWSEL=   1156.42

 STA=     462.    1281.    1412.    1438.    1504.    1704.    1867.    2107.    2371.
   PER Q=     14.9     46.7      3.9      8.0      8.1      6.6      8.8      3.0
    AREA=    629.2    786.2    103.5    232.0    362.2    294.5    411.4    196.9
     VEL=      1.8      4.5      2.9      2.6      1.7      1.7      1.6      1.2
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*SECNO 22.000

3265 DIVIDED FLOW

    22.00     8.62  1157.92      .00      .00  1158.17      .25     1.55      .02  1156.50
    7300.     779.    3011.    3510.     432.     542.    1479.     967.     470.   1157.00
     1.03     1.80     5.56     2.37     .060     .050     .065     .000  1149.30   122.08
 .005069     520.     505.     490.        3        0        0      .00  1656.09  2241.05
0
 FLOW DISTRIBUTION FOR SECNO=     22.00          CWSEL=   1157.92

 STA=     122.     724.    1005.    1130.    1377.    1548.    1598.    1765.    1861.    2099.    2241.
   PER Q=      3.1      7.6     41.2     11.7     13.9      6.5      8.0      4.0      4.0       .0
    AREA=    131.8    300.2    542.0    387.4    371.1    143.4    264.0    136.0    173.3      3.4
     VEL=      1.7      1.8      5.6      2.2      2.7      3.3      2.2      2.1      1.7       .7

1
  10-31-91     15:03:02                                                                          PAGE   36


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 23.000

3265 DIVIDED FLOW

    23.00     9.30  1159.90      .00      .00  1160.14      .24     1.97      .00  1158.50
    7300.    2214.    2597.    2489.     982.     433.    1394.     997.     490.   1157.90
     1.07     2.25     6.00     1.79     .060     .050     .065     .000  1150.60   663.80
  .003138     510.     500.     500.        2        0        0      .00  1682.74  2396.02
0
 FLOW DISTRIBUTION FOR SECNO=     23.00          CWSEL=   1159.90

 STA=     664.    1124.    1326.    1363.    1423.    1706.    1946.    2148.    2396.
   PER Q=     10.8     17.2      2.4     35.6     13.1     12.3      5.8      2.9
    AREA=    408.5    496.5     76.8    432.8    506.4    456.6    267.4    164.0
     VEL=      1.9      2.5      2.2      6.0      1.9      2.0      1.6      1.3

*SECNO 24.000

3265 DIVIDED FLOW

    24.00     9.16  1161.46      .00      .00  1161.69      .23     1.55      .00  1161.00
    7300.    2540.    2596.    2165.    1053.     450.    1110.    1028.     507.   1158.50
     1.11     2.41     5.76     1.95     .060     .050     .065     .000  1152.30   723.78
  .003061     490.     500.     510.        2        0        0      .00  1252.11  2062.50
0
 FLOW DISTRIBUTION FOR SECNO=     24.00          CWSEL=   1161.46

 STA=     724.     949.    1069.    1199.    1250.    1306.    1372.    1631.    1756.    2062.
   PER Q=      3.4     10.8     12.9      4.6      3.1     35.6     20.8      5.0      3.9
    AREA=    156.4    306.9    353.9    130.1    105.9    450.4    649.7    206.6    253.8
     VEL=      1.6      2.6      2.7      2.6      2.1      5.8      2.3      1.8      1.1

*SECNO 25.000

3265 DIVIDED FLOW

    25.00     9.78  1162.88      .00      .00  1163.06      .18     1.37      .01  1161.10
    7300.    1886.    2121.    3293.     929.     390.    1605.    1060.     521.   1160.80
     1.15     2.03     5.44     2.05     .060     .050     .065     .000  1153.10  1045.02
  .002465     495.     500.     500.        2        0        0      .00  1364.64  2413.51
0
1
  10-31-91     15:03:02                                                                          PAGE   37


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     25.00          CWSEL=   1162.88

 STA=    1045.    1291.    1492.    1542.    1593.    1678.    1760.    1816.    1869.    1920.    2014.    2359.    2414.
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  PER Q=      7.3     15.4      3.1     29.1      6.8     10.0      6.4      4.9      3.9      5.3      7.5       .2
   AREA=    320.5    499.9    108.8    389.5    227.1    282.0    185.9    153.0    132.4    204.3    399.1     20.9
    VEL=      1.7      2.3      2.1      5.4      2.2      2.6      2.5      2.4      2.1      1.9      1.4       .6

 *SECNO 26.000
    26.00     9.71  1164.21      .00      .00  1164.47      .26     1.38      .02  1162.70
    7300.    2087.    2640.    2573.     940.     429.    1198.    1091.     536.  1162.00
     1.19     2.22     6.15     2.15     .060     .050     .065     .000  1154.50  1094.59
  .003126     500.     500.     500.        2        0        0      .00  1242.44  2337.03
0
 FLOW DISTRIBUTION FOR SECNO=     26.00          CWSEL=   1164.21

 STA=    1095.    1264.    1385.    1461.    1587.    1623.    1679.    1724.    1877.    2099.    2337.
  PER Q=      3.7      7.0      6.4      9.6      1.8     36.2      3.9     15.4     12.4      3.5
   AREA=    160.4    236.7    186.5    291.0     64.9    429.4    117.3    436.1    445.9    198.5
    VEL=      1.7      2.2      2.5      2.4      2.1      6.1      2.4      2.6      2.0      1.3

 *SECNO 27.000
    27.00     9.54  1165.64      .00      .00  1165.86      .22     1.38      .00  1163.30
    7000.    2114.    2643.    2244.    1027.     481.    1069.    1120.     552.  1162.70
     1.23     2.06     5.49     2.10     .060     .050     .065     .000  1156.10   562.67
  .002550     480.     490.     500.        2        0        0      .00  1468.57  2031.24
0
 FLOW DISTRIBUTION FOR SECNO=     27.00          CWSEL=   1165.64

 STA=     563.    1088.    1241.    1401.    1467.    1584.    1754.    1792.    2031.
  PER Q=      3.8     12.5     13.9     37.8     12.2     14.1      3.3      2.4
   AREA=    232.2    382.0    412.6    481.3    352.9    449.1    102.6    164.7
    VEL=      1.1      2.3      2.4      5.5      2.4      2.2      2.2      1.0

 *SECNO 28.000

 3265 DIVIDED FLOW

    28.00    10.40  1166.90      .00      .00  1167.07      .17     1.21      .00  1164.30
    7000.    3176.    1568.    2255.    1242.     288.    1104.    1149.     566.  1164.10
     1.28     2.56     5.45     2.04     .060     .050     .065     .000  1156.50   720.03
  .002452     480.     485.     490.        2        0        0      .00  1142.30  2265.71
0
1
  10-31-91     15:03:02                                                                                PAGE   38


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     28.00          CWSEL=   1166.90

 STA=     720.    1069.    1178.    1204.    1225.    1306.    1341.    1386.    1475.    1632.    1862.
  PER Q=     10.7      5.1     12.9      7.3      9.4     22.4      4.3      9.5     13.7      4.7
   AREA=    474.7    196.9    192.9    126.7    251.2    287.8    130.3    276.0    432.0    265.6
    VEL=      1.6      1.8      4.7      4.0      2.6      5.5      2.3      2.4      2.2      1.2

 *SECNO 29.000
    29.00    10.38  1167.98      .00      .00  1168.17      .19     1.09      .01  1164.70
    7000.    3160.    2906.     934.    1271.     618.     680.    1181.     579.  1165.50
     1.32     2.49     4.70     1.37     .060     .050     .065     .000  1157.60   434.14
  .001730     540.     540.     510.        2        0        0      .00   990.12  1424.25
0
 FLOW DISTRIBUTION FOR SECNO=     29.00          CWSEL=   1167.98

 STA=     434.     579.     673.     741.     784.     823.     841.     856.     937.    1133.    1424.
  PER Q=      3.3      6.7     16.4      8.0      3.4      3.9      3.5     41.5      9.7      3.6
   AREA=    186.7    239.8    362.6    197.1    112.3     93.4     78.6    618.1    425.9    254.0
    VEL=      1.2      2.0      3.2      2.8      2.1      2.9      3.1      4.7      1.6      1.0

 *SECNO 30.000

 3265 DIVIDED FLOW

    30.00    10.61  1169.11      .00      .00  1169.41      .30     1.21      .03  1166.90
    7000.    2833.    2545.    1621.    1060.     392.     772.    1210.     591.  1166.70
     1.36     2.67     6.50     2.10     .060     .050     .065     .000  1158.50   823.14
  .003238     530.     520.     515.        2        0        0      .00   992.70  1931.61
0
 FLOW DISTRIBUTION FOR SECNO=     30.00          CWSEL=   1169.11
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STA=     823.    1009.    1027.    1220.    1262.    1309.    1361.    1521.    1803.    1932.
  PER Q=     10.0      3.2     22.9      4.3     36.4      5.5     14.3      3.1       .3
   AREA=    320.7     68.1    559.0    112.5    391.8    146.7    410.4    190.9     23.7
    VEL=      2.2      3.3      2.9      2.7      6.5      2.6      2.4      1.2       .8

*SECNO 31.000
    31.00    10.70  1170.40      .00      .00  1170.53      .13     1.11      .02  1168.20
    7000.    3192.    1728.    2080.    1742.     357.    1132.    1239.     604.  1167.60
     1.41     1.83     4.84     1.84     .060     .050     .065     .000  1159.70   760.57
  .001760     470.     475.     480.        2        0        0      .00  1452.55  2213.12
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     31.00          CWSEL=   1170.40

STA=     761.    1299.    1425.    1467.    1652.    1692.    1740.    1873.    2106.    2213.
  PER Q=     14.3     10.4      5.7     15.2     24.7      4.8     14.4     10.2       .4
   AREA=    712.8    353.5    158.7    516.6    357.4    156.6    458.9    468.5     48.2
    VEL=      1.4      2.1      2.5      2.1      4.8      2.1      2.2      1.5       .6

*SECNO 32.000
    32.00    10.12  1171.12      .00      .00  1171.26      .14      .72      .00  1167.20
    7000.    2302.    3272.    1426.    1343.     822.    1067.    1277.     620.  1168.40
     1.46     1.71     3.98     1.34     .060     .050     .065     .000  1161.00   633.22
  .001145     515.     515.     510.        2        0        0      .00  1240.94  1874.16
0
FLOW DISTRIBUTION FOR SECNO=     32.00          CWSEL=   1171.12

STA=     633.     865.     977.    1023.    1153.    1187.    1235.    1337.    1490.    1610.    1859.    1874.
  PER Q=      3.1      5.2      4.7      8.7      6.2      4.9     46.7      9.5      6.8      4.1       .0
   AREA=    215.4    245.1    166.4    366.2    177.4    172.8    822.5    431.2    320.0    315.2       .9
    VEL=      1.0      1.5      2.0      1.7      2.5      2.0      4.0      1.5      1.5       .9       .1

*SECNO 33.000
    33.00     9.83  1171.93      .00      .00  1172.25      .32      .94      .06  1169.30
    6700.    2373.    2398.    1929.     896.     352.     797.    1308.     632.  1169.80
     1.50     2.65     6.82     2.42     .060     .050     .065     .000  1162.10   981.61
  .003756     500.     500.     500.        2        0        0      .00   881.01  1862.62
0
FLOW DISTRIBUTION FOR SECNO=     33.00          CWSEL=   1171.93

STA=     982.    1014.    1071.    1304.    1394.    1414.    1457.    1546.    1622.    1750.    1863.
  PER Q=       .1      1.4     19.3     12.3      2.3     35.8      8.4      9.2      9.8      1.3
   AREA=     11.7     59.0    506.4    265.8     52.6    351.6    220.3    218.1    278.5     80.4
    VEL=       .8      1.5      2.6      3.1      3.0      6.8      2.6      2.8      2.4      1.1

*SECNO 34.000
    34.00     9.68  1173.48      .00      .00  1173.64      .15     1.37      .02  1170.90
    6700.    2617.    1660.    2423.    1094.     331.    1206.    1335.     644.  1171.00
     1.55     2.39     5.02     2.01     .060     .050     .065     .000  1163.80   647.99
  .002087     500.     500.     500.        2        0        0      .00  1080.33  1728.32
0
1
 10-31-91     15:03:02                                                                    PAGE   40

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     34.00          CWSEL=   1173.48

STA=     648.     841.     957.     980.    1012.    1056.    1098.    1194.    1226.    1301.    1430.    1697.    1728.
  PER Q=      7.6     16.4      3.8      6.9      4.3     24.8      9.3      6.4      8.5      8.8      3.0       .1
   AREA=    314.6    415.5     90.4    147.0    126.8    330.6    286.8    149.6    246.8    312.7    196.8     13.7
    VEL=      1.6      2.6      2.8      3.1      2.3      5.0      2.2      2.9      2.3      1.9      1.0       .6

*SECNO 35.000
    35.00    10.19  1174.59      .00      .00  1174.81      .22     1.15      .02  1172.20
    6700.    2575.    2013.    2112.     966.     351.     956.    1362.     655.  1171.20
```

```
     1.58     2.67     5.74     2.21     .060     .050     .065     .000  1164.40   957.28
   .002655    490.     490.     490.        2        0        0      .00   893.90  1851.17
0
 FLOW DISTRIBUTION FOR SECNO=     35.00          CWSEL=   1174.59

 STA=     957.    1186.    1231.    1283.    1333.    1351.    1396.    1505.    1645.    1766.    1851.
   PER Q=     10.1      7.6      9.7      8.6      2.3     30.1     14.2     12.9      4.1       .4
    AREA=    348.9    167.3    205.1    186.3     58.0    351.0    360.9    378.4    179.5     37.6
     VEL=      1.9      3.0      3.2      3.1      2.7      5.7      2.6      2.3      1.5       .7

 *SECNO 36.000
    36.00    10.13  1175.83      .00      .00  1176.00      .17     1.19      .01  1173.30
    6700.    3387.    1697.    1616.    1378.     327.     799.    1390.     665.  1172.40
     1.63     2.46     5.19     2.02     .060     .050     .065     .000  1165.70  1011.79
   .002132    500.     500.     500.        2        0        0      .00   916.58  1928.37
0
 FLOW DISTRIBUTION FOR SECNO=     36.00          CWSEL=   1175.83

 STA=    1012.    1233.    1263.    1329.    1371.    1455.    1497.    1512.    1552.    1614.    1645.    1676.    1807.
   PER Q=      8.1      3.9     12.7      6.9     11.8      5.6      1.6     25.3      7.6      3.8      3.1      8.8
    AREA=    344.5    101.9    282.0    161.9    299.3    143.3     45.1    326.8    212.0    105.8     93.9    311.9
     VEL=      1.6      2.5      3.0      2.8      2.7      2.6      2.3      5.2      2.4      2.4      2.2      1.9
 STA=    1807.    1928.
   PER Q=       .9
    AREA=     75.4
     VEL=       .8

 *SECNO 37.000

 3265 DIVIDED FLOW

1
  10-31-91     15:03:02                                                                                    PAGE   41


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


    37.00    10.19  1176.89      .00      .00  1177.07      .18     1.07      .00  1174.80
    6700.    2231.    2038.    2431.     964.     401.    1096.    1418.     675.  1174.10
     1.67     2.31     5.08     2.22     .060     .050     .065     .000  1166.70   944.68
   .002128    500.     500.     500.        2        0        0      .00   898.77  1902.05
0
 FLOW DISTRIBUTION FOR SECNO=     37.00          CWSEL=   1176.89

 STA=     945.    1259.    1285.    1346.    1433.    1485.    1525.    1562.    1585.    1636.    1688.    1814.    1902.
   PER Q=     11.6      3.7      9.4      8.6     30.4      3.6      3.6      5.5      6.7      6.9      9.0       .9
    AREA=    393.4     92.3    228.6    250.2    401.1    112.8    111.1    121.4    182.2    186.8    312.0     70.1
     VEL=      2.0      2.7      2.8      2.3      5.1      2.1      2.2      3.0      2.5      2.5      1.9       .9

 *SECNO 38.000
    38.00    10.03  1177.83      .00      .00  1177.96      .13      .89      .00  1175.40
    6700.    3019.    1719.    1962.    1231.     392.    1194.    1447.     686.  1175.50
     1.72     2.45     4.38     1.64     .060     .050     .065     .000  1167.80   824.63
   .001607    485.     480.     480.        2        0        0      .00  1010.91  1835.53
0
 FLOW DISTRIBUTION FOR SECNO=     38.00          CWSEL=   1177.83

 STA=     825.    1052.    1076.    1119.    1139.    1163.    1207.    1233.    1285.    1334.    1556.    1757.    1836.
   PER Q=      6.7      3.3      9.6      3.9      5.0     12.5      4.1     25.7      3.4     17.2      8.2       .5
    AREA=    344.2     90.6    219.3     93.1    117.0    260.4    106.5    392.4    130.3    628.6    386.4     48.2
     VEL=      1.3      2.4      2.9      2.8      2.9      3.2      2.6      4.4      1.8      1.8      1.4       .7

 *SECNO 39.000

 3265 DIVIDED FLOW

    39.00     9.57  1178.77      .00      .00  1178.96      .19      .99      .02  1176.30
    6400.    2710.    1970.    1720.    1268.     356.     928.    1478.     700.  1175.70
     1.77     2.14     5.53     1.85     .060     .050     .065     .000  1169.20   500.57
   .002509    505.     500.     495.        1        0        0      .00  1422.29  2045.83
0
 FLOW DISTRIBUTION FOR SECNO=     39.00          CWSEL=   1178.77

 STA=     501.    1090.    1188.    1215.    1296.    1402.    1421.    1449.    1487.    1534.    1585.    1647.    1800.
   PER Q=      3.5      4.9      3.0      6.4      8.4      4.4      7.5      4.4     30.8      4.5      4.4     11.5
    AREA=    253.2    172.4     77.7    187.5    246.4     84.4    135.4    110.6    356.2    133.0    141.3    362.8
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    VEL=       .9      1.8      2.5      2.2      2.2      3.3      3.5      2.5      5.5      2.2      2.0      2.0
 STA=    1800.    1987.    2046.
   PER Q=      6.3       .1
    AREA=    273.8     16.9
     VEL=      1.5       .5
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 40.000
    40.00     8.84  1179.94      .00      .00  1180.09      .14     1.12      .00  1176.80
    6400.    2644.    1677.    2079.    1333.     346.     999.    1508.     715.   1176.20
     1.82     1.98     4.85     2.08     .060     .050     .065     .000  1171.10   857.55
  .002003     500.     500.     500.        2        0        0      .00  1187.72  2045.26
0
 FLOW DISTRIBUTION FOR SECNO=     40.00          CWSEL=   1179.94

 STA=     858.    1199.    1435.    1449.    1461.    1526.    1573.    1614.    1638.    1672.    1734.    1770.    1832.
   PER Q=      9.5     16.9      3.8      3.5      7.5     26.2      4.5      5.5      3.0      6.5      5.8      4.5
    AREA=    433.5    553.9     75.0     68.2    202.7    346.1    129.3    123.6     94.1    187.1    145.7    151.4
     VEL=      1.4      2.0      3.3      3.3      2.4      4.8      2.2      2.9      2.1      2.2      2.6      1.9
 STA=    1832.    2045.
   PER Q=      2.6
    AREA=    167.9
     VEL=      1.0

 *SECNO 41.000

 3265 DIVIDED FLOW

    41.00     8.37  1180.97      .00      .00  1181.10      .13     1.02      .00  1178.40
    6400.    2993.    1850.    1557.    1502.     403.     953.    1541.     730.   1178.40
     1.87     1.99     4.59     1.63     .060     .050     .065     .000  1172.60   664.39
   .001941     515.     515.     515.        2        0        0      .00  1322.21  2095.81
0
 FLOW DISTRIBUTION FOR SECNO=     41.00          CWSEL=   1180.97

 STA=     664.     834.    1036.    1331.    1350.    1378.    1429.    1459.    1510.    1569.    1643.    1665.    1713.
   PER Q=      3.2      5.3     16.2      4.2      5.5      3.6      4.8      4.0     28.9      5.8      3.4      3.7
    AREA=    109.0    228.1    593.5     90.1    120.2    119.4    114.4    126.9    402.6    193.7     87.9    123.0
     VEL=      1.9      1.5      1.7      3.0      2.9      1.9      2.7      2.0      4.6      1.9      2.5      1.9
 STA=    1713.    1965.    2061.    2096.
   PER Q=      8.4      3.0       .0
    AREA=    395.8    144.7      8.1
     VEL=      1.4      1.3       .4

 *SECNO 42.000

 3265 DIVIDED FLOW

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


    42.00     8.85  1182.25      .00      .00  1182.42      .18     1.31      .01  1180.60
    6200.    2761.    1485.    1953.    1129.     280.     776.    1570.     743.   1180.00
     1.92     2.45     5.30     2.52     .065     .060     .065     .000  1173.40   418.63
  .003864     495.     495.     495.        2        0        0      .00  1055.66  2078.70
0
 FLOW DISTRIBUTION FOR SECNO=     42.00          CWSEL=   1182.25

 STA=     419.    1189.    1311.    1360.    1445.    1480.    1558.    1580.    1620.    1660.    1681.    1746.    1977.
   PER Q=      3.1     12.5      6.6     11.1      3.9      5.9      1.4     24.0      5.5      6.4      8.4     11.0
    AREA=    155.4    300.3    142.3    240.9     89.6    160.5     40.3    280.3    114.9    100.4    182.5    357.6
     VEL=      1.3      2.6      2.9      2.9      2.7      2.3      2.1      5.3      3.0      3.9      2.9      1.9
 STA=    1977.    2079.
   PER Q=       .3
```

```
   AREA=     20.6
    VEL=       .8

 *SECNO 43.000

 3265 DIVIDED FLOW

    43.00     9.38  1183.48      .00      .00  1183.56      .09     1.13      .01  1181.60
    6200.    3278.    1323.    1599.    1663.     383.     851.    1598.     756.   1180.70
     1.98     1.97     3.46     1.88     .065     .060     .065     .000  1174.10   768.49
  .001496     500.     500.     490.        2        0        0      .00  1101.42  2083.90
0
 FLOW DISTRIBUTION FOR SECNO=     43.00          CWSEL=   1183.48

 STA=     768.    1062.    1108.    1133.    1192.    1226.    1257.    1296.    1317.    1336.    1372.    1425.    1459.
   PER Q=     10.1      7.7      4.3      8.4      6.4      3.4      3.4      3.8      3.4      2.0     21.3      5.8
    AREA=    472.1    202.6    111.1    229.8    160.7    105.8    114.3     97.6     87.5     81.5    382.9    150.9
     VEL=      1.3      2.4      2.4      2.3      2.5      2.0      1.8      2.4      2.4      1.5      3.5      2.4
 STA=    1459.    1505.    1669.    2084.
   PER Q=      9.5      9.6       .9
    AREA=    230.1    382.0     88.3
     VEL=      2.6      1.6       .6

 *SECNO 44.000

 3265 DIVIDED FLOW

    44.00     8.93  1184.53      .00      .00  1184.69      .16     1.10      .02  1182.70
    6000.    2606.    1440.    1954.    1094.     288.     794.    1628.     768.   1181.80
     2.02     2.38     5.01     2.46     .065     .060     .065     .000  1175.60   714.58
  .003532     505.     505.     505.        2        0        0      .00   975.24  2044.26
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     44.00          CWSEL=   1184.53

 STA=     715.    1305.    1425.    1568.    1629.    1672.    1779.    1940.    2044.
   PER Q=      4.9     13.2     20.0      5.4     24.0     15.0     15.9      1.7
    AREA=    219.6    309.2    426.0    138.8    287.7    319.8    389.4     84.9
     VEL=      1.3      2.6      2.8      2.4      5.0      2.8      2.5      1.2

 *SECNO 45.000
    45.00     9.36  1185.96      .00      .00  1186.07      .11     1.38      .00  1183.10
    6000.    2276.    1180.    2544.    1135.     276.    1139.    1654.     779.   1183.10
     2.08     2.01     4.28     2.23     .065     .060     .065     .000  1176.60  1078.86
  .002334     480.     485.     490.        2        0        0      .00  1124.21  2203.07
0
 FLOW DISTRIBUTION FOR SECNO=     45.00          CWSEL=   1185.96

 STA=    1079.    1251.    1419.    1532.    1569.    1598.    1622.    1661.    1698.    1725.    1836.    1970.    2153.
   PER Q=      3.1      6.8      7.5      5.4      5.5      4.9      4.7     19.7      4.2     19.9     13.3      4.9
    AREA=    153.5    269.0    244.8    128.5    116.6    101.7    121.0    275.6     95.8    436.8    367.4    229.9
     VEL=      1.2      1.5      1.8      2.5      2.8      2.9      2.3      4.3      2.6      2.7      2.2      1.3
 STA=    2153.    2203.
   PER Q=       .1
    AREA=      9.0
     VEL=       .3

 *SECNO 46.000
    46.00     9.01  1187.11      .00      .00  1187.23      .12     1.16      .00  1183.50
    5800.    1473.    1503.    2825.     792.     357.    1348.    1684.     793.   1184.30
     2.13     1.86     4.21     2.10     .065     .060     .065     .000  1178.10  1073.97
  .002199     510.     510.     510.        2        0        0      .00  1143.48  2217.45
0
 FLOW DISTRIBUTION FOR SECNO=     46.00          CWSEL=   1187.11

 STA=    1074.    1232.    1400.    1519.    1571.    1620.    1766.    1873.    1903.    1932.    2089.    2217.
   PER Q=       .4      5.5     11.9      7.6     25.9     17.3     13.8      5.2      4.1      7.4       .9
    AREA=     47.8    235.4    327.8    180.7    357.0    444.8    343.2    115.3     97.8    275.3     71.2
     VEL=       .5      1.3      2.1      2.4      4.2      2.3      2.3      2.6      2.4      1.6       .7

 *SECNO 47.000
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    47.00     9.12  1188.12      .00      .00  1188.21      .09      .98      .00  1185.20
    5700.    2940.    1242.    1518.    1746.     323.     879.    1715.     807.   1184.50
     2.20     1.68     3.84     1.73     .065     .060     .065     .000  1179.00   665.63
  .001745     500.     500.     500.        2        0        0      .00  1381.19  2046.82
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     47.00          CWSEL=   1188.12

 STA=     666.     865.    1057.    1108.    1286.    1461.    1541.    1582.    1637.    1727.    1908.    2047.
   PER Q=      6.4      7.1      3.6     10.0     15.1      9.5     21.8      7.5      9.7      8.6       .8
    AREA=    274.5    265.2    119.3    360.0    467.6    259.4    323.1    193.4    274.7    339.4     71.1
     VEL=      1.3      1.5      1.7      1.6      1.8      2.1      3.8      2.2      2.0      1.5       .6

 *SECNO 48.000

 3265 DIVIDED FLOW

    48.00     8.74  1189.14      .00      .00  1189.25      .12     1.03      .01  1186.80
    5600.    1558.    1049.    2993.     833.     245.    1259.    1745.     821.   1187.10
     2.25     1.87     4.27     2.38     .065     .060     .065     .000  1180.40   361.88
  .002553     490.     495.     500.        2        0        0      .00  1045.12  1890.22
0
 FLOW DISTRIBUTION FOR SECNO=     48.00          CWSEL=   1189.14

 STA=     362.     943.    1093.    1116.    1151.    1206.    1259.    1311.    1463.    1505.    1560.    1890.
   PER Q=      8.4     17.0      2.4     18.7      9.2     13.7      8.6     11.6      4.6      5.0       .8
    AREA=    354.4    417.0     61.7    245.3    193.8    241.2    181.2    333.0    113.0    134.4     62.2
     VEL=      1.3      2.3      2.2      4.3      2.7      3.2      2.7      1.9      2.3      2.1       .7

 *SECNO 49.000
    49.00     9.09  1190.29      .00      .00  1190.40      .11     1.15      .00  1187.40
    5400.    1946.    1217.    2237.    1037.     295.    1042.    1772.     833.   1187.80
     2.30     1.88     4.13     2.15     .065     .060     .065     .000  1181.20   451.01
  .002083     500.     500.     500.        2        0        0      .00   987.90  1438.91
0
 FLOW DISTRIBUTION FOR SECNO=     49.00          CWSEL=   1190.29

 STA=     451.     499.     793.     861.     870.     884.     957.     993.    1051.    1116.    1143.    1287.    1439.
   PER Q=       .1     13.7      9.0      2.3      2.9      8.0     22.5      9.6     12.1      4.0     14.1      1.6
    AREA=     14.1    498.9    215.2     43.6     58.7    205.9    294.7    211.0    253.1     90.9    380.7    106.2
     VEL=       .5      1.5      2.3      2.8      2.7      2.1      4.1      2.5      2.6      2.4      2.0       .8

 *SECNO 50.000
    50.00     9.26  1191.36      .00      .00  1191.48      .12     1.07      .00  1188.90
    5400.    1734.    1448.    2218.     961.     345.    1075.    1800.     844.   1189.80
     2.36     1.80     4.20     2.06     .065     .060     .065     .000  1182.10   508.83
  .002175     510.     505.     500.        2        0        0      .00  1018.23  1527.06
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     50.00          CWSEL=   1191.36

 STA=     509.     635.     655.     694.     992.    1016.    1059.    1140.    1282.    1409.    1527.
   PER Q=       .9      1.5      3.3     23.8      2.6     26.8      8.0     21.6     10.1      1.4
    AREA=     66.7     46.2     92.6    689.2     66.6    344.9    213.4    481.8    293.4     86.7
     VEL=       .7      1.8      1.9      1.9      2.1      4.2      2.0      2.4      1.9       .9

 *SECNO 51.000
    51.00     8.76  1192.16      .00      .00  1192.24      .08      .76      .00  1189.80
    5200.    1488.    2411.    1301.    1085.     804.     891.    1829.     856.   1188.40
     2.42     1.37     3.00     1.46     .065     .060     .065     .000  1183.40   500.75
  .001093     490.     500.     520.        2        0        0      .00  1064.28  1565.04
0
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 FLOW DISTRIBUTION FOR SECNO=     51.00          CWSEL=   1192.16

 STA=     501.     574.     785.     898.     990.    1015.    1126.    1186.    1270.    1369.    1498.    1565.
   PER Q=       .2      8.2     10.6      8.0      1.6     46.4      7.9      9.0      5.8      2.2       .1
    AREA=     27.7    381.1    347.2    268.8     59.8    804.2    224.8    278.9    228.4    143.4     15.3
     VEL=       .4      1.1      1.6      1.5      1.4      3.0      1.8      1.7      1.3       .8       .3

 *SECNO 52.000
     52.00     8.44  1192.94      .00      .00  1193.08      .14      .82      .02  1188.00
     5000.    2078.    1044.    1878.     945.     218.     760.    1856.     868.  1188.00
      2.47     2.20     4.78     2.47     .065     .060     .065     .000  1184.50   274.94
   .002790     500.     500.     500.        2        0        0      .00  1049.44  1324.38
0
 FLOW DISTRIBUTION FOR SECNO=     52.00          CWSEL=   1192.94

 STA=     275.     440.     575.     795.     880.     910.    1035.    1125.    1324.
   PER Q=      3.4      3.2     10.4     24.6     20.9     29.6      6.5      1.4
    AREA=    142.2    130.4    295.2    377.2    218.1    492.3    174.4     93.5
     VEL=      1.2      1.2      1.8      3.3      4.8      3.0      1.9       .7

 *SECNO 53.000
     53.00     8.33  1193.93      .00      .00  1193.99      .06      .90      .01  1190.90
     5000.    1844.     630.    2525.    1052.     233.    1447.    1883.     880.  1191.20
      2.55     1.75     2.71     1.75     .065     .060     .065     .000  1185.60   490.08
   .001255     500.     500.     500.        1        0        0      .00  1019.86  1509.94
0
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     53.00          CWSEL=   1193.93

 STA=     490.     777.     799.     828.     882.     916.     958.    1028.    1067.    1091.    1140.    1193.    1278.
   PER Q=     13.3      4.2      5.9      5.0      8.4     12.6      7.8      5.5      5.1      4.3     12.0      9.9
    AREA=    491.2     97.8    132.2    153.2    178.1    232.9    223.8    141.8    114.2    135.6    259.0    277.6
     VEL=      1.4      2.2      2.2      1.6      2.4      2.7      1.7      1.9      2.2      1.6      2.3      1.8
 STA=    1278.    1472.    1510.
   PER Q=      5.7       .2
    AREA=    276.9     17.8
     VEL=      1.0       .5

 *SECNO 54.000
     54.00     6.91  1195.11      .00      .00  1195.36      .25     1.31      .06  1194.00
     5000.    1729.     998.    2273.     577.     155.     708.    1907.     892.  1194.00
      2.58     2.99     6.45     3.21     .065     .060     .065     .000  1188.20   597.88
   .008502     500.     500.     500.        2        0        0      .00   955.84  1553.72
0
 FLOW DISTRIBUTION FOR SECNO=     54.00          CWSEL=   1195.11

 STA=     598.     972.     993.    1013.    1037.    1064.    1092.    1112.    1131.    1166.    1268.    1398.    1554.
   PER Q=     23.7      6.3      3.6       .9     20.0      4.7      6.5      5.1      4.3     13.7      9.7      1.5
    AREA=    438.2     68.1     48.4     22.7    154.7     64.2     68.9     57.5     67.0    204.6    182.5     63.0
     VEL=      2.7      4.6      3.8      2.0      6.5      3.7      4.7      4.4      3.2      3.4      2.6      1.2

 *SECNO 55.000

 3265 DIVIDED FLOW

     55.00     7.66  1197.16      .00      .00  1197.24      .08     1.87      .02  1194.70
     4800.    1826.     778.    2195.    1044.     213.    1152.    1929.     904.  1194.40
      2.65     1.75     3.66     1.91     .065     .060     .065     .000  1189.50   463.14
   .002076     495.     495.     495.        3        0        0      .00  1211.80  2116.46
0
 FLOW DISTRIBUTION FOR SECNO=     55.00          CWSEL=   1197.16

 STA=     463.    1197.    1307.    1475.    1485.    1518.    1641.    1685.    1813.    2051.    2116.
   PER Q=      6.8      7.7     22.3      1.3     16.2     19.6      7.4     12.5      6.2       .1
    AREA=    296.4    221.3    497.3     29.3    212.7    405.7    149.8    316.1    264.9     15.0
     VEL=      1.1      1.7      2.1      2.1      3.7      2.3      2.4      1.9      1.1       .4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 NO 56.000

3265 DIVIDED FLOW

    56.00     7.18  1198.18      .00      .00  1198.26      .08     1.02      .00  1193.80
    4800.    1891.    1249.    1660.    1211.     361.     963.    1958.     919.  1196.60
     2.72     1.56     3.46     1.72     .065     .060     .065     .000  1191.00   868.16
  .001943     505.     510.     510.        3        0        0      .00  1393.20  2266.93
0
 FLOW DISTRIBUTION FOR SECNO=     56.00          CWSEL=   1198.18

 STA=     868.    1178.    1338.    1390.    1431.    1499.    1561.    1641.    1676.    1739.    1780.    1887.    2117.
   PER Q=      5.0      3.6      3.0      4.8      4.2      3.9      8.4      6.4     26.0      3.4     14.3     15.9
    AREA=    245.6    166.7     95.7    114.7    129.0    120.5    210.2    128.9    360.6     94.4    324.1    470.5
     VEL=      1.0      1.0      1.5      2.0      1.6      1.6      1.9      2.4      3.5      1.8      2.1      1.6
 STA=    2117.    2267.
   PER Q=      1.0
    AREA=     74.1
     VEL=       .6

 *SECNO 57.000
    57.00     7.01  1199.31      .00      .00  1199.37      .06     1.11      .00  1197.40
    4600.    2107.     437.    2056.    1126.     137.    1118.    1986.     936.  1197.80
     2.79     1.87     3.18     1.84     .065     .060     .065     .000  1192.30  1120.48
  .002504     510.     505.     500.        2        0        0      .00  1446.76  2567.24
0
 FLOW DISTRIBUTION FOR SECNO=     57.00          CWSEL=   1199.31

 STA=    1120.    1299.    1424.    1660.    1759.    1806.    1839.    1870.    1921.    2045.    2277.    2465.    2567.
   PER Q=      1.0      3.4     13.6     11.8     10.6      5.5      9.5      4.7     17.8     18.4      3.6       .3
    AREA=     71.9    131.8    390.4    253.7    175.7    102.9    137.3    111.4    355.7    464.2    160.4     25.9
     VEL=       .6      1.2      1.6      2.1      2.8      2.5      3.2      1.9      2.3      1.8      1.0       .5

 *SECNO 58.000
    58.00     7.48  1200.48      .00      .00  1200.56      .08     1.19      .01  1198.00
    4600.    1433.    1009.    2158.     899.     274.    1152.    2013.     952.  1198.40
     2.85     1.59     3.69     1.87     .065     .060     .065     .000  1193.00  1100.34
  .002354     490.     490.     490.        2        0        0      .00  1442.49  2542.83
0
1
  10-31-91     15:03:02                                                                                    PAGE   49


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     58.00          CWSEL=   1200.48

 STA=    1100.    1537.    1653.    1805.    1852.    1901.    1924.    1987.    2352.    2410.    2543.
   PER Q=      4.5      5.4     13.9      7.4     21.9      3.1     11.5     28.7      3.3       .4
    AREA=    244.6    172.5    337.1    144.7    273.5     64.8    211.2    741.3     96.7     38.4
     VEL=       .9      1.4      1.9      2.3      3.7      2.2      2.5      1.8      1.6       .5

 *SECNO 59.000
    59.00     6.46  1201.66      .00      .00  1201.73      .07     1.17      .00  1200.00
    4400.    1840.     689.    1871.    1037.     201.    1054.    2039.     968.  1200.00
     2.92     1.77     3.43     1.78     .065     .060     .065     .000  1195.20  1149.05
  .002360     490.     495.     500.        1        0        0      .00  1460.98  2610.03
0
 FLOW DISTRIBUTION FOR SECNO=     59.00          CWSEL=   1201.66

 STA=    1149.    1579.    1619.    1757.    1776.    1804.    1865.    1892.    1932.    1986.    2031.    2139.    2291.
   PER Q=      6.3      4.7     12.1      3.0      4.8      8.2      2.7     15.7      6.6      7.9     11.0     11.8
    AREA=    271.3    100.3    291.9     56.7     88.3    167.1     61.9    200.6    138.5    145.0    249.3    298.5
     VEL=      1.0      2.1      1.8      2.3      2.4      2.2      1.9      3.4      2.1      2.4      1.9      1.7
       2291.    2500.    2610.
   ER Q=      5.0       .2
    AREA=    202.6     20.1
     VEL=      1.1       .4

 *SECNO 60.000
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    60.00     6.48  1202.98      .00      .00  1203.07      .09     1.33      .01  1201.90
    4400.    1804.     784.    1812.     939.     206.     952.    2064.     984.   1201.70
     2.98     1.92     3.82     1.90     .065     .060     .065     .000  1196.50  1409.83
  .003009     500.     500.     500.        1        0        0      .00  1259.97  2669.80
0
 FLOW DISTRIBUTION FOR SECNO=     60.00          CWSEL=   1202.98

 STA=    1410.    1602.    1741.    1977.    2005.    2046.    2088.    2141.    2168.    2280.    2496.    2670.
   PER Q=      3.8      7.8     27.4      2.0     17.8      3.4      7.5      6.4     10.4     11.7      1.8
    AREA=    133.8    209.3    547.4     48.5    205.5     79.3    139.2     95.7    227.4    317.1     93.3
     VEL=      1.2      1.6      2.2      1.8      3.8      1.9      2.4      2.9      2.0      1.6       .8

 *SECNO 61.000
    61.00     6.97  1204.27      .00      .00  1204.34      .07     1.27      .00  1202.80
    4200.    1890.     790.    1520.    1248.     229.     898.    2090.    1000.   1202.80
     3.05     1.51     3.45     1.69     .065     .060     .065     .000  1197.30  1131.83
  .002158     500.     500.     500.        1        0        0      .00  1466.84  2598.67
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     61.00          CWSEL=   1204.27

 STA=    1132.    1368.    1769.    1922.    1972.    2013.    2053.    2087.    2121.    2167.    2228.    2450.    2599.
   PER Q=      3.2     21.6     16.3      3.9     18.8      6.1      4.9      4.8      6.7      4.6      8.4       .8
    AREA=    161.9    624.7    363.3     98.3    228.9    116.5     97.7     94.6    131.0    117.5    282.7     57.6
     VEL=       .8      1.5      1.9      1.7      3.5      2.2      2.1      2.1      2.1      1.6      1.2       .6

 *SECNO 62.000
    62.00     6.19  1205.39      .00      .00  1205.46      .06     1.12      .00  1204.10
    4200.    1567.     660.    1974.    1067.     201.    1043.    2117.    1017.   1204.10
     3.12     1.47     3.29     1.89     .065     .060     .065     .000  1199.20  1075.33
  .002320     500.     500.     500.        2        0        0      .00  1490.88  2566.21
0
 FLOW DISTRIBUTION FOR SECNO=     62.00          CWSEL=   1205.39

 STA=    1075.    1318.    1536.    1706.    1877.    1922.    1964.    1993.    2016.    2061.    2099.    2137.    2232.
   PER Q=      3.6      4.7      9.1     16.6      3.3     15.7      5.9      6.4      5.2      5.1      6.9      7.7
    AREA=    152.8    194.8    261.3    375.8     82.7    200.7     99.8     93.9    109.8    100.9    120.6    185.4
     VEL=      1.0      1.0      1.5      1.9      1.7      3.3      2.5      2.8      2.0      2.1      2.4      1.7
 STA=    2232.    2433.    2566.
   PER Q=      9.2       .7
    AREA=    280.1     52.6
     VEL=      1.4       .6

 *SECNO 63.000

 3265 DIVIDED FLOW

    63.00     5.94  1206.64      .00      .00  1206.72      .08     1.26      .00  1204.50
    4000.    1233.     789.    1979.     739.     212.    1092.    2142.    1033.   1205.30
     3.19     1.67     3.72     1.81     .065     .060     .065     .000  1200.70  1198.66
  .002769     500.     500.     500.        1        0        0      .00  1387.29  2649.80
0
 FLOW DISTRIBUTION FOR SECNO=     63.00          CWSEL=   1206.64

 STA=    1199.    1567.    1632.    1663.    1772.    1794.    1844.    1887.    1948.    1975.    2028.    2048.    2069.
   PER Q=      4.0      3.8      3.6     10.7      3.6      5.2     19.7      7.0      3.6      4.3      3.2      3.3
    AREA=    184.5     96.3     70.3    220.8     60.8    106.0    212.0    137.1     66.4     95.9     54.6     56.9
     VEL=       .9      1.6      2.1      1.9      2.4      2.0      3.7      2.1      2.2      1.8      2.3      2.3
 STA=    2069.    2214.    2622.    2650.
   PER Q=     19.9      8.2       .0
    AREA=    360.1    319.5      1.9
     VEL=      2.2      1.0       .2

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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*SECNO 64.000

3265 DIVIDED FLOW

   64.00     6.78  1207.88      .00      .00  1207.94      .06     1.21      .00  1205.60
    4000.    1291.     720.    1989.     781.     227.    1189.    2166.    1049.   1206.80
     3.26     1.65     3.17     1.67     .065     .060     .065     .000  1201.10  1104.49
  .002145     500.     500.     500.        1        0        0      .00  1315.20  2612.76
0
 FLOW DISTRIBUTION FOR SECNO=     64.00          CWSEL=   1207.88

 STA=    1104.    1688.    1718.    1741.    1762.    1783.    1837.    1885.    1912.    1990.    2218.    2318.    2507.
   PER Q=      9.6      4.5      4.3      3.7      4.1      6.1     18.0      4.6      7.5     23.9      7.9      5.7
    AREA=    357.2     85.6     75.1     64.8     69.5    128.9    227.3     82.9    169.1    520.9    191.9    204.5
     VEL=      1.1      2.1      2.3      2.3      2.3      1.9      3.2      2.2      1.8      1.8      1.6      1.1
 STA=    2507.    2613.
   PER Q=       .2
    AREA=     20.0
     VEL=       .3

*SECNO 65.000

3265 DIVIDED FLOW

    65.00     6.27  1209.17      .00      .00  1209.26      .10     1.31      .01  1207.40
    4000.    1388.     900.    1712.     792.     228.     896.    2190.    1064.   1208.00
     3.32     1.75     3.95     1.91     .065     .060     .065     .000  1202.90  1034.04
  .003297     500.     500.     500.        1        0        0      .00  1366.66  2651.30
0
 FLOW DISTRIBUTION FOR SECNO=     65.00          CWSEL=   1209.17

 STA=    1034.    1698.    1884.    1922.    1970.    2058.    2084.    2113.    2140.    2272.    2456.    2651.
   PER Q=     10.4     18.9      5.4     22.5      7.8      5.7      5.6      6.3      9.6      5.8      1.9
    AREA=    333.7    366.9     91.3    227.8    160.6     82.1     84.2     87.8    213.3    179.3     88.8
     VEL=      1.2      2.1      2.4      3.9      2.0      2.8      2.7      2.9      1.8      1.3       .9

*SECNO 66.000

   DIVIDED FLOW

    66.00     5.86  1210.56      .00      .00  1210.62      .07     1.36      .00  1209.70
    4000.    1523.     713.    1764.     976.     221.     979.    2213.    1081.   1208.90
     3.39     1.56     3.23     1.80     .065     .060     .065     .000  1204.70   803.33
  .002270     500.     500.     500.        1        0        0      .00  1545.92  2515.38
0
1
  10-31-91     15:03:02                                                                                    PAGE   52


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=     66.00          CWSEL=   1210.56

 STA=     803.    1607.    1769.    1806.    1852.    1899.    1956.    1980.    2004.    2028.    2063.    2098.    2120.
   PER Q=     14.2     15.9      4.6      3.4     17.8      5.4      3.7      3.3      3.4      7.9      5.1      3.3
    AREA=    451.1    348.7     92.1     83.8    220.6    117.8     68.3     63.7     64.4    123.9     95.5     61.0
     VEL=      1.3      1.8      2.0      1.6      3.2      1.8      2.2      2.1      2.1      2.5      2.1      2.1
 STA=    2120.    2293.    2515.
   PER Q=     10.4      1.8
    AREA=    277.6    106.9
     VEL=      1.5       .7

*SECNO 67.000

3265 DIVIDED FLOW

    67.00     6.12  1211.82      .00      .00  1211.90      .08     1.28      .00  1210.90
    3800.    1603.     634.    1564.     981.     171.     793.    2237.    1098.   1210.50
     3.45     1.63     3.70     1.97     .065     .060     .065     .000  1205.70   631.68
  .002971     495.     495.     495.        1        0        0      .00  1438.28  2389.80
0
 FLOW DISTRIBUTION FOR SECNO=     67.00          CWSEL=   1211.82

 STA=     632.    1462.    1608.    1731.    1752.    1785.    1847.    1855.    1889.    1923.    1941.    1958.    2014.
```

```
  PER Q=      8.3      7.7     11.1      3.2      6.4      5.1       .4     16.7      6.1      4.0      3.8      7.3
   AREA=    295.8    193.4    225.9     52.1     96.8    107.0     10.2    171.2     94.3     56.9     53.6    127.3
    VEL=      1.1      1.5      1.9      2.3      2.5      1.8      1.5      3.7      2.5      2.7      2.7      2.2
STA=    2014.    2120.    2186.    2267.    2390.
  PER Q=      9.9      4.2      4.1      1.7
   AREA=    198.4     97.8    102.8     62.3
    VEL=      1.9      1.6      1.5      1.0

*SECNO 68.000

3265 DIVIDED FLOW

    68.00     6.24  1213.24      .00      .00  1213.30      .07     1.40      .00  1212.00
    3800.    1922.     597.    1281.    1149.     173.     750.    2260.    1114.   1211.60
     3.52     1.67     3.46     1.71     .065     .060     .065     .000  1207.00   396.45
  .002646     500.     500.     500.        2        0        0      .00  1499.48  2302.90
0
1
 10-31-91     15:03:02                                                                                    PAGE   53

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     68.00          CWSEL=   1213.24

STA=     396.    1142.    1379.    1617.    1709.    1745.    1774.    1798.    1862.    1917.    2025.    2119.    2303.
  PER Q=      3.5      8.8     31.4      6.8     15.7      4.3      4.3      8.4      5.9      5.7      3.1      2.0
   AREA=    165.0    263.9    567.2    152.9    172.6     74.1     69.5    151.8    116.2    149.1     97.7     92.0
    VEL=       .8      1.3      2.1      1.7      3.5      2.2      2.4      2.1      1.9      1.5      1.2       .8

*SECNO 69.000

3265 DIVIDED FLOW

    69.00     6.03  1214.53      .00      .00  1214.59      .07     1.29      .00  1212.40
    3800.    1620.     628.    1552.    1026.     184.     886.    2284.    1132.   1213.20
     3.59     1.58     3.42     1.75     .065     .060     .065     .000  1208.50   440.62
  .002520     500.     500.     500.        1        0        0      .00  1597.81  2488.45
0
FLOW DISTRIBUTION FOR SECNO=     69.00          CWSEL=   1214.53

STA=     441.    1372.    1544.    1595.    1629.    1709.    1735.    1787.    1826.    1868.    1896.    1911.    1928.
  PER Q=      5.6      9.4      3.8      3.9      7.4      4.2      8.3     16.5      4.7      4.6      4.1      3.2
   AREA=    247.1    245.3     88.3     75.9    156.5     72.0    140.9    183.6     92.6     76.6     57.3     50.5
    VEL=       .9      1.5      1.7      2.0      1.8      2.2      2.2      3.4      1.9      2.3      2.7      2.4
STA=    1928.    1946.    1983.    2091.    2413.    2488.
  PER Q=      4.3      5.4      8.1      6.4       .2
   AREA=     62.2     94.5    186.7    250.0     16.0
    VEL=      2.6      2.2      1.7      1.0       .4

*SECNO 70.000

3265 DIVIDED FLOW

    70.00     6.72  1215.82      .00      .00  1215.90      .08     1.30      .00  1214.20
    3700.    1315.     780.    1605.     867.     214.     844.    2307.    1150.   1214.30
     3.66     1.52     3.65     1.90     .065     .060     .065     .000  1209.10   304.46
  .002692     500.     500.     500.        0        0        0      .00  1450.71  2356.57
0
FLOW DISTRIBUTION FOR SECNO=     70.00          CWSEL=   1215.82

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

STA=     304.    1384.    1538.    1646.    1673.    1721.    1764.    1795.    1808.    1818.    1875.    1908.    1933.
  PER Q=      7.8      8.8      8.1      3.7      7.0     21.1      4.7      4.8      3.4      6.4      5.6      3.0
   AREA=    284.1    218.3    180.3     65.2    119.2    213.8     79.6     57.2     43.5    120.6     89.2     55.7
    VEL=      1.0      1.5      1.7      2.1      2.2      3.6      2.2      3.1      2.9      2.0      2.3      2.0
STA=    1933.    1959.    1997.    2067.    2251.    2357.
```

```
  PER Q=      3.0      3.5      4.6      4.1       .2
   AREA=     56.8     69.8    102.1    147.5     22.1
    VEL=      2.0      1.8      1.7      1.0       .4

*SECNO 71.000

    DIVIDED FLOW

    71.00     6.80  1217.10      .00      .00  1217.18      .08     1.28      .00  1215.90
    3700.    1193.     916.    1591.     826.     263.     900.    2329.    1166.  1215.80
     3.73     1.44     3.49     1.77     .065     .060     .065     .000  1210.30  1058.31
  .002440     500.     500.     500.        1        0        0      .00  1442.74  2782.67
0
 FLOW DISTRIBUTION FOR SECNO=     71.00          CWSEL=   1217.10

 STA=    1058.    1423.    1529.    1644.    1697.    1770.    1804.    1857.    1912.    1987.    2020.    2066.    2115.
  PER Q=      4.7      3.5      4.9      5.2     10.7      3.3     24.8      6.3     12.4      6.6      3.6      3.6
   AREA=    212.9    111.9    140.1    106.2    186.9     68.1    262.8    121.9    206.0    101.9     81.4     81.9
    VEL=       .8      1.2      1.3      1.8      2.1      1.8      3.5      1.9      2.2      2.4      1.6      1.6
 STA=    2115.    2163.    2226.    2783.
  PER Q=      4.9      3.6      2.0
   AREA=    100.0     92.0    114.6
    VEL=      1.8      1.5       .7

*SECNO 72.000
    72.00     6.54  1218.34      .00      .00  1218.42      .09     1.24      .00  1215.50
    3600.    1788.     944.     868.    1073.     253.     566.    2351.    1183.  1217.30
     3.79     1.67     3.73     1.53     .065     .060     .065     .000  1211.80  1045.98
  .002526     500.     500.     500.        1        0        0      .00  1405.36  2451.34
0
 FLOW DISTRIBUTION FOR SECNO=     72.00          CWSEL=   1218.34

 STA=    1046.    1427.    1529.    1580.    1646.    1837.    1873.    1888.    1906.    1952.    2029.    2060.    2095.
  PER Q=      3.2      4.6      4.2      4.3     21.6      3.8      3.2      4.8     26.2      4.5      3.6      3.7
   AREA=    163.2    126.1     89.3    100.6    407.6     74.7     47.3     63.7    253.2    109.7     67.0     71.2
    VEL=       .7      1.3      1.7      1.5      1.9      1.8      2.4      2.7      3.7      1.5      2.0      1.9
 STA=    2095.    2117.    2211.    2451.
  PER Q=      3.4      6.7      2.2
   AREA=     56.6    148.1    113.2
    VEL=      2.2      1.6       .7
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 73.000

 3265 DIVIDED FLOW

    73.00     6.11  1219.71      .00      .00  1219.80      .09     1.38      .00  1218.50
    3600.    1353.     1045.    1201.     881.     284.     662.    2373.    1199.  1218.50
     3.85     1.54     3.68     1.81     .065     .060     .065     .000  1213.60   925.89
  .003015     500.     500.     500.        2        0        0      .00  1435.35  2401.26
0
 FLOW DISTRIBUTION FOR SECNO=     73.00          CWSEL=   1219.71

 STA=     926.    1369.    1525.    1563.    1645.    1669.    1760.    1796.    1843.    1905.    1984.    2007.    2100.
  PER Q=      3.8      6.5      3.1      6.4      3.2      5.7      5.6      3.4     29.0     10.2      4.2      6.1
   AREA=    169.2    172.6     63.3    132.8     53.7    129.0     88.2     72.6    284.0    172.3     62.9    135.6
    VEL=       .8      1.3      1.8      1.7      2.1      1.6      2.3      1.7      3.7      2.1      2.4      1.6
 STA=    2100.    2147.    2207.    2265.    2401.
  PER Q=      3.7      5.4      3.4       .4
   AREA=     76.2    106.0     78.7     30.7
    VEL=      1.7      1.8      1.5       .5

 *SECNO 74.000
    74.00     6.53  1221.23      .00      .00  1221.32      .09     1.52      .00  1220.50
    3600.    1624.     911.    1065.    1024.     240.     624.    2394.    1216.  1219.80
     3.92     1.59     3.80     1.71     .065     .060     .065     .000  1214.70   972.68
  .002988     505.     505.     505.        2        0        0      .00  1473.74  2446.41
0
 FLOW DISTRIBUTION FOR SECNO=     74.00          CWSEL=   1221.23

 STA=     973.    1356.    1503.    1556.    1594.    1636.    1694.    1737.    1780.    1811.    1828.    1870.    1919.
```

```
  PER Q=      5.9      5.4      4.0      3.7      3.2      5.0      3.3      4.1      3.6      3.7      3.3     25.3
   AREA=    221.0    152.7     84.5     70.4     67.2     99.4     68.7     76.5     63.5     51.6     68.0    239.7
    VEL=      1.0      1.3      1.7      1.9      1.7      1.8      1.7      1.9      2.0      2.6      1.7      3.8
STA=    1919.    1981.    2012.    2056.    2105.    2213.    2371.    2446.
  PER Q=      3.8      5.1      7.3      4.6      3.9      4.8       .1
   AREA=     86.4     79.8    111.9     88.9    108.9    135.8     12.6
    VEL=      1.6      2.3      2.3      1.9      1.3      1.3       .4

*SECNO 75.000

3265 DIVIDED FLOW

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


    75.00     6.15  1222.65      .00      .00  1222.74      .09     1.42      .00  1220.30
    3500.    1685.    1015.     800.    1170.     266.     511.    2416.    1234.   1221.40
     3.98     1.44     3.81     1.57     .065     .060     .065     .000  1216.50   710.29
  .002829     490.     490.     490.        2        0        0      .00  1728.26  2647.29
0
 FLOW DISTRIBUTION FOR SECNO=     75.00          CWSEL=   1222.65

 STA=     710.    1155.    1365.    1551.    1656.    1720.    1784.    1830.    1855.    1907.    1951.    1987.    2091.
  PER Q=      4.1      8.6     12.0      6.4      5.3      5.5      3.6      2.4     29.0      4.4      4.7      9.1
   AREA=    179.8    232.8    269.8    147.8    108.2    110.4     75.0     46.6    266.0     81.6     79.6    179.7
    VEL=       .8      1.3      1.6      1.5      1.7      1.7      1.7      1.8      3.8      1.9      2.1      1.8
 STA=    2091.    2310.    2647.
  PER Q=      4.5       .2
   AREA=    153.1     17.4
    VEL=      1.0       .3

 *SECNO 76.000
    76.00     6.55  1224.05      .00      .00  1224.13      .08     1.38      .00  1222.50
    3500.    1587.     746.    1167.    1087.     195.     639.    2438.    1252.   1222.60
     4.04     1.46     3.83     1.82     .065     .060     .065     .000  1217.50   912.09
  .002812     490.     490.     490.        1        0        0      .00  1479.01  2391.11
0
 FLOW DISTRIBUTION FOR SECNO=     76.00          CWSEL=   1224.05

 STA=     912.    1242.    1381.    1489.    1542.    1614.    1730.    1788.    1862.    1898.    1934.    1995.    2047.
  PER Q=      5.1      3.9      4.4      5.0      4.6      5.6      5.2      7.9      3.7     21.3      7.5      9.0
   AREA=    193.9    120.9    119.7     96.7    103.0    138.8    102.2    142.1     69.4    194.6    129.0    136.6
    VEL=       .9      1.1      1.3      1.8      1.6      1.4      1.8      1.9      1.9      3.8      2.0      2.3
 STA=    2047.    2104.    2256.    2391.
  PER Q=      8.3      7.5       .9
   AREA=    135.1    188.5     50.1
    VEL=      2.2      1.4       .6

 *SECNO 77.000

 3265 DIVIDED FLOW

    77.00     6.48  1225.28      .00      .00  1225.36      .08     1.23      .00  1224.30
    3400.    1019.    1328.    1053.     839.     407.     742.    2460.    1269.   1224.30
     4.11     1.21     3.26     1.42     .065     .060     .065     .000  1218.80   743.79
  .002105     510.     510.     505.        2        0        0      .00  1514.02  2433.26
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     77.00          CWSEL=   1225.28

 STA=     744.    1251.    1307.    1460.    1531.    1578.    1660.    1717.    1773.    1802.    1856.    1947.    2173.
  PER Q=      8.6      4.4      8.6      5.5      2.9     39.1      4.3      5.8      5.3      5.4      4.8      5.1
   AREA=    328.6     96.6    219.0    123.8     70.5    407.5     95.4    115.6     84.3    109.1    126.4    186.8
    VEL=       .9      1.5      1.3      1.5      1.4      3.3      1.5      1.7      2.1      1.7      1.3       .9
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 STA=    2173.    2433.
   PER Q=       .3
    AREA=     24.1
     VEL=       .4

 *SECNO 78.000

 3265 DIVIDED FLOW

    78.00     6.96  1226.66      .00      .00  1226.77      .12     1.40      .01  1225.80
    3400.    1244.    1051.    1105.     822.     246.     647.    2482.    1287.   1225.60
     4.17     1.51     4.28     1.71     .065     .060     .065     .000  1219.70   822.97
  .003663     515.     515.     515.        2        0        0      .00  1500.91  2394.59
0
 FLOW DISTRIBUTION FOR SECNO=     78.00          CWSEL=   1226.66

 STA=     823.    1270.    1414.    1448.    1617.    1683.    1704.    1752.    1866.    1920.    2197.    2395.
   PER Q=      6.9      6.9      3.7     10.7      7.2      1.1     30.9     10.2      7.3     14.4       .6
    AREA=    237.5    159.0     61.1    220.8    119.9     24.1    245.9    183.0    110.5    320.4     32.7
     VEL=      1.0      1.5      2.0      1.7      2.1      1.5      4.3      1.9      2.2      1.5       .6

 *SECNO 79.000
    79.00     7.04  1228.14      .00      .00  1228.21      .07     1.44      .00  1225.80
    3300.    1641.     766.     893.    1128.     212.     648.    2504.    1305.   1226.50
     4.24     1.45     3.61     1.38     .065     .060     .065     .000  1221.10   787.46
  .002209     505.     510.     520.        1        0        0      .00  1552.39  2339.84
0
 FLOW DISTRIBUTION FOR SECNO=     79.00          CWSEL=   1228.14

 STA=     787.    1265.    1384.    1505.    1590.    1687.    1723.    1761.    1854.    1955.    2012.    2329.    2340.
   PER Q=     11.0      6.7      9.6      9.9     12.6     23.2      4.8      9.6      6.0      3.5      3.1       .0
    AREA=    351.2    165.8    206.5    182.5    222.1    212.3     85.6    185.7    145.2     84.0    147.3       .2
     VEL=      1.0      1.3      1.5      1.8      1.9      3.6      1.8      1.7      1.4      1.4       .7       .1

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 80.000
    80.00     7.47  1229.17      .00      .00  1229.24      .07     1.03      .00  1226.90
    3300.    1273.     885.    1142.    1007.     253.     777.    2527.    1322.   1225.60
     4.32     1.26     3.50     1.47     .065     .060     .065     .000  1221.70   734.50
  .001977     490.     495.     495.        2        0        0      .00  1520.37  2254.87
0
 FLOW DISTRIBUTION FOR SECNO=     80.00          CWSEL=   1229.17

 STA=     734.    1280.    1577.    1620.    1643.    1671.    1708.    1730.    1760.    1794.    1926.    2255.
   PER Q=     13.9     24.7     26.8      4.3      3.9      4.4      4.2      3.3      3.3      7.2      3.9
    AREA=    467.3    539.6    253.1     66.9     70.0     83.6     66.7     63.4     68.2    186.4    171.6
     VEL=      1.0      1.5      3.5      2.1      1.9      1.8      2.1      1.7      1.6      1.3       .8

 *SECNO 81.000

 3265 DIVIDED FLOW

    81.00     6.59  1230.29      .00      .00  1230.37      .07     1.13      .00  1228.80
    3200.    1088.     780.    1331.     663.     229.     848.    2549.    1339.   1229.20
     4.38     1.64     3.41     1.57     .065     .060     .065     .000  1223.70  1126.52
  .002540     510.     505.     500.        1        0        0      .00  1277.19  2594.71
0
 FLOW DISTRIBUTION FOR SECNO=     81.00          CWSEL=   1230.29

 STA=    1127.    1378.    1560.    1582.    1629.    1651.    1692.    1740.    1826.    1858.    1918.    1938.    1967.
   PER Q=      3.5     11.0      3.5      4.4      5.2      6.3     24.4      8.0      4.9      6.3      3.6      4.5
    AREA=    117.3    242.4     53.4     83.7     68.6     97.5    228.9    148.1     76.3    111.1     52.1     69.8
     VEL=      1.0      1.5      2.1      1.7      2.4      2.1      3.4      1.7      2.1      1.8      2.2      2.1
 STA=    1967.    2307.    2595.
   PER Q=     14.0       .3
    AREA=    369.0     21.4
     VEL=      1.2       .4

 *SECNO 82.000

 3265 DIVIDED FLOW
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    82.00     8.21  1231.61      .00      .00  1231.73      .12     1.35      .01  1229.90
    3200.    1129.    1059.    1012.     684.     256.     626.    2568.    1352.   1230.80
     4.44     1.65     4.14     1.62     .065     .060     .065     .000  1223.40  1047.87
  .002802     510.     505.     500.        1        0        0      .00  1083.92  2407.98
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     82.00          CWSEL=   1231.61

 STA=    1048.    1789.    1868.    1906.    1948.    1997.    2091.    2235.    2408.
   PER Q=     18.0     12.4      4.9     33.1      3.7     11.7     12.6      3.6
    AREA=    419.6    186.0     78.6    255.8     74.8    191.8    238.3    121.2
     VEL=      1.4      2.1      2.0      4.1      1.6      2.0      1.7      1.0

 *SECNO 83.000

 3265 DIVIDED FLOW

    83.00     8.46  1232.86      .00      .00  1232.95      .09     1.22      .00  1229.60
    3100.    1018.     924.    1158.     673.     251.     668.    2586.    1365.   1228.80
     4.50     1.51     3.68     1.73     .065     .060     .065     .000  1224.40   740.71
  .002089     505.     505.     510.        2        0        0      .00  1039.43  2304.15
0
 FLOW DISTRIBUTION FOR SECNO=     83.00          CWSEL=   1232.86

 STA=     741.     746.     751.    1564.    1779.    1821.    1854.    1916.    2167.    2304.
   PER Q=       .0       .0      4.5     28.3     29.8     10.8     13.0     13.3       .3
    AREA=      2.1      1.8    182.1    487.1    251.3    128.6    185.4    329.3     24.7
     VEL=       .5       .5       .8      1.8      3.7      2.6      2.2      1.3       .3

 *SECNO 84.000
    84.00     7.69  1234.09      .00      .00  1234.26      .17     1.29      .02  1231.80
    3100.     780.    1424.     896.     514.     318.     440.    2602.    1376.   1233.40
     4.55     1.52     4.47     2.04     .065     .060     .065     .000  1226.40  1200.62
  .003318     495.     495.     495.        1        0        0      .00   873.56  2074.17
0
 FLOW DISTRIBUTION FOR SECNO=     84.00          CWSEL=   1234.09

 STA=    1201.    1555.    1729.    1784.    1796.    1841.    1943.    1998.    2074.
   PER Q=      6.6     18.5     45.9      1.1      8.8     14.2      4.5       .3
    AREA=    211.8    302.3    318.2     19.3    112.3    208.2     81.5     18.5
     VEL=      1.0      1.9      4.5      1.8      2.4      2.1      1.7       .5

 *SECNO 85.000

 3265 DIVIDED FLOW

    85.00     7.36  1235.56      .00      .00  1235.68      .13     1.42      .00  1233.70
    3100.     765.    1484.     851.     530.     389.     552.    2618.    1387.   1233.30
     4.60     1.44     3.81     1.54     .065     .060     .065     .000  1228.20   709.07
  .002450     500.     500.     500.        2        0        0      .00  1116.34  2351.56
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     85.00          CWSEL=   1235.56

 STA=     709.    1544.    1614.    1679.    1746.    1821.    1915.    1996.    2352.
   PER Q=      9.7      7.4      7.6     47.9      9.9     10.0      5.2      2.3
    AREA=    266.7    132.3    130.7    389.4    162.0    178.7    113.8     97.4
     VEL=      1.1      1.7      1.8      3.8      1.9      1.7      1.4       .7

 *SECNO 86.000
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3265 DIVIDED FLOW

    86.00     6.66  1237.06      .00      .00  1237.16      .09     1.47      .00  1235.20
    3000.     598.     590.    1812.     401.     147.     948.    2635.    1401.   1234.10
     4.66     1.49     4.02     1.91     .065     .060     .065     .000  1230.40   879.00
  .003612     500.     500.     500.        2        0        0      .00  1278.75  2200.69

FLOW DISTRIBUTION FOR SECNO=     86.00          CWSEL=   1237.06

STA=     879.    1082.    1340.    1363.    1397.    1428.    1479.    1567.    1634.    1776.    1978.    2201.
  PER Q=      3.4      7.0      4.6      4.9     19.7     10.4     14.2     11.1     15.2      8.0      1.6
   AREA=     98.8    180.2     54.9     67.4    146.6    124.0    187.8    144.8    236.6    184.4     70.4
    VEL=      1.0      1.2      2.5      2.2      4.0      2.5      2.3      2.3      1.9      1.3       .7

*SECNO 87.000

3265 DIVIDED FLOW

    87.00     5.47  1238.77      .00      .00  1238.86      .09     1.71      .00  1237.70
    3000.     342.     943.    1715.     290.     273.     929.    2652.    1415.   1236.70
     4.73     1.18     3.46     1.85     .065     .060     .065     .000  1233.30  1066.02
   .003187     500.     505.     505.        2        0        0      .00  1208.41  2475.12
0
FLOW DISTRIBUTION FOR SECNO=     87.00          CWSEL=   1238.77

STA=    1066.    1429.    1492.    1540.    1605.    1706.    1778.    1795.    1820.    1877.    1905.    1954.    2037.
  PER Q=      5.0      3.9      2.5     31.4     13.6      9.3      3.6      4.5      5.5      6.1      4.1      6.5
   AREA=    158.6     77.7     53.6    272.6    200.1    139.0     44.4     59.0     92.6     74.5     72.6    119.1
    VEL=      1.0      1.5      1.4      3.5      2.0      2.0      2.4      2.3      1.8      2.5      1.7      1.6
STA=    2037.    2182.    2475.
  PER Q=      3.7       .3
   AREA=    105.9     21.9
    VEL=      1.0       .4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 88.000

3265 DIVIDED FLOW

    88.00     5.01  1240.51      .00      .00  1240.59      .07     1.72      .00  1239.10
    3000.    1210.     561.    1229.     711.     152.     755.    2670.    1430.   1239.40
     4.79     1.70     3.69     1.63     .065     .060     .065     .000  1235.50  1120.52
   .003685     505.     505.     500.        2        0        0      .00  1325.43  2562.54
0
FLOW DISTRIBUTION FOR SECNO=     88.00          CWSEL=   1240.51

STA=    1121.    1273.    1333.    1382.    1450.    1508.    1601.    1696.    1734.    1791.    1911.    1965.    2013.
  PER Q=      3.1      7.2      3.1      4.3      5.4      9.5      7.8     18.7      3.5      9.1      3.9      7.6
   AREA=     92.3    106.2     59.6     81.7     88.0    149.3    134.3    152.1     67.9    161.1     71.1    100.4
    VEL=      1.0      2.0      1.6      1.6      1.8      1.9      1.7      3.7      1.6      1.7      1.7      2.3
STA=    2013.    2103.    2173.    2359.    2563.
  PER Q=      6.1      5.4      3.5      1.9
   AREA=    108.3     94.9    105.9     45.4
    VEL=      1.7      1.7      1.0      1.2

*SECNO 89.000

3265 DIVIDED FLOW

    89.00     5.40  1242.20      .00      .00  1242.28      .09     1.69      .00  1240.40
    2900.    1000.     568.    1332.     587.     141.     715.    2688.    1444.   1240.20
     4.86     1.70     4.03     1.86     .065     .055     .065     .000  1236.80   856.47
   .003242     490.     490.     490.        0        0        0      .00  1138.34  2247.34
0
FLOW DISTRIBUTION FOR SECNO=     89.00          CWSEL=   1242.20

STA=     856.    1378.    1470.    1538.    1584.    1595.    1691.    1723.    1768.    1858.    1959.    2103.    2247.
  PER Q=      4.1      3.4      6.0      4.6      4.9     11.5     19.6      7.5     16.1     12.7      8.1      1.6
   AREA=    124.1     82.1     94.9     71.8     43.6    170.8    141.1     98.4    206.1    187.7    164.1     58.4
    VEL=       .9      1.2      1.8      1.9      3.3      2.0      4.0      2.2      2.3      2.0      1.4       .8
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*SECNO 90.000

3265 DIVIDED FLOW

    90.00     7.22  1243.62      .00      .00  1243.74      .13     1.45      .01  1241.40
    2900.    1001.    1146.     753.     670.     274.     555.    2704.    1457.   1242.30
     4.91     1.49     4.19     1.36     .065     .055     .065     .000  1236.40   923.62
  .002617     500.     500.     495.        1        0        0      .00  1146.46  2222.82
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     90.00          CWSEL=   1243.62

STA=     924.    1431.    1666.    1716.    1826.    1867.    1904.    2009.    2223.
  PER Q=      9.1      25.4     39.5      6.9      3.8      4.0      7.5      3.7
   AREA=    245.0    425.0    273.7    143.7     67.8     66.2    148.5    129.0
    VEL=      1.1      1.7      4.2      1.4      1.6      1.7      1.5       .8

*SECNO 91.000

3265 DIVIDED FLOW

    91.00     6.02  1245.12      .00      .00  1245.20      .08     1.45      .00  1242.80
    2900.    1263.     645.     992.     725.     173.     615.    2722.    1470.   1243.80
     4.98     1.74     3.72     1.61     .065     .055     .065     .000  1239.10  1169.78
  .003237     500.     500.     500.        1        0        0      .00  1267.03  2552.13
0
FLOW DISTRIBUTION FOR SECNO=     91.00          CWSEL=   1245.12

STA=    1170.    1468.    1545.    1688.    1708.    1728.    1757.    1785.    1806.    1818.    1863.    1917.    1956.
  PER Q=      4.0      3.0     12.2      4.1      4.3      4.0      5.4      4.3      2.2     22.2      6.5      6.0
   AREA=    137.2     71.1    210.1     50.0     52.0     56.5     67.2     52.3     28.4    173.2     97.3     82.2
    VEL=       .8      1.2      1.7      2.4      2.4      2.0      2.3      2.4      2.3      3.7      1.9      2.1
STA=    1956.    2074.    2155.    2193.    2552.
  PER Q=     11.3      4.4      3.5      2.5
   AREA=    185.9     91.2     57.9    100.8
    VEL=      1.8      1.4      1.7       .7

*SECNO 92.000
    92.00     5.35  1246.45      .00      .00  1246.51      .06     1.31      .00  1244.70
    2900.    1333.     560.    1006.     918.     177.     641.    2740.    1485.   1244.50
     5.05     1.45     3.16     1.57     .065     .055     .065     .000  1241.10  1107.72
  .002165     500.     500.     500.        2        0        0      .00  1236.02  2343.74
0
FLOW DISTRIBUTION FOR SECNO=     92.00          CWSEL=   1246.45

STA=    1108.    1471.    1729.    1745.    1801.    1826.    1870.    1914.    1967.    1982.    1999.    2016.    2044.
  PER Q=      5.4     17.7      3.1     12.4      3.2      4.1     19.3      6.5      3.8      4.7      3.1      5.1
   AREA=    204.3    375.3     44.0    164.8     53.0     77.0    177.4    110.5     47.2     57.8     44.6     72.9
    VEL=       .8      1.4      2.0      2.2      1.8      1.5      3.2      1.7      2.3      2.3      2.0      2.0
STA=    2044.    2344.
  PER Q=     11.5
   AREA=    307.8
    VEL=      1.1

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 93.000

3265 DIVIDED FLOW

    93.00     5.39  1247.69      .00      .00  1247.78      .09     1.26      .01  1245.80
    2900.    1168.     632.    1100.     703.     160.     637.    2759.    1499.   1246.00
     5.11     1.66     3.95     1.73     .065     .055     .065     .000  1242.30  1138.84
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  .002980     500.     500.     500.       1        0        0      .00  1182.42  2457.71
0
 FLOW DISTRIBUTION FOR SECNO=     93.00          CWSEL=   1247.69

 STA=    1139.    1479.    1558.    1755.    1789.    1835.    1895.    1920.    1946.    2053.    2174.    2458.
  PER Q=      5.3      7.0     28.0     21.8      8.4      6.2      5.3      5.6      7.6      3.6      1.1
   AREA=    178.2    122.2    402.8    159.8    110.0    101.6     64.6     68.6    145.1     96.9     49.8
    VEL=       .9      1.7      2.0      4.0      2.2      1.8      2.4      2.4      1.5      1.1       .6

 *SECNO 94.000
    94.00     5.47  1249.27      .00      .00  1249.36      .09     1.58      .00  1247.60
    2800.    1501.     573.     726.     828.     141.     460.    2776.    1512.  1247.50
     5.18     1.81     4.06     1.58     .065     .055     .065     .000  1243.80  1100.33
  .003363     500.     500.     500.        2        0        0      .00  1079.97  2180.30
0
 FLOW DISTRIBUTION FOR SECNO=     94.00          CWSEL=   1249.27

 STA=    1100.    1379.    1711.    1729.    1762.    1793.    1803.    1819.    1909.    1969.    2152.    2180.
  PER Q=      5.5     44.9      3.2     20.5      3.0      1.9      3.1      7.3      4.8      5.7       .0
   AREA=    164.8    622.9     40.3    141.2     47.2     24.0     36.9    124.7     82.6    143.1      1.1
    VEL=       .9      2.0      2.2      4.1      1.8      2.3      2.4      1.6      1.6      1.1       .2

 *SECNO 95.000
    95.00     6.63  1250.63      .00      .00  1250.72      .09     1.36      .00  1248.40
    2800.    1402.     737.     661.     814.     192.     440.    2792.    1524.  1247.80
     5.24     1.72     3.83     1.50     .065     .055     .065     .000  1244.00  1282.54
  .002250     500.     500.     500.        2        0        0      .00   979.37  2261.90
0
 FLOW DISTRIBUTION FOR SECNO=     95.00          CWSEL=   1250.63

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  10-31-91     15:03:02                                                                                    PAGE   64


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


     1283.    1504.    1539.    1657.    1718.    1741.    1772.    1787.    1802.    1853.    1889.    1927.    1960.
  PER Q=      3.6      5.6      4.8      5.1      4.9      7.9      6.1      5.2      6.8     26.3      5.8      3.6
   AREA=    128.2     82.2    121.5     97.0     63.8     95.5     63.3     55.9    107.0    192.3     86.7     61.4
    VEL=       .8      1.9      1.1      1.5      2.2      2.3      2.7      2.6      1.8      3.8      1.9      1.6
 STA=    1960.    1990.    2013.    2092.    2262.
  PER Q=      5.0      3.4      4.3      1.6
   AREA=     71.7     50.9     97.7     71.1
    VEL=      1.9      1.9      1.2       .6

 *SECNO 96.000

 3265 DIVIDED FLOW

    96.00     5.06  1252.06      .00      .00  1252.13      .07     1.41      .00  1250.90
    2800.    1472.     362.     967.     770.     105.     510.    2809.    1535.  1250.50
     5.31     1.91     3.45     1.90     .065     .055     .065     .000  1247.00  1072.00
  .003549     505.     505.     505.        1        0        0      .00  1003.45  2263.03
0
 FLOW DISTRIBUTION FOR SECNO=     96.00          CWSEL=   1252.06

 STA=    1072.    1560.    1614.    1690.    1707.    1721.    1757.    1767.    1794.    1841.    1874.    1917.    1959.
  PER Q=     11.2      4.3      7.5      4.7      4.1      6.3      3.9      7.6      2.9     12.9      5.9     11.1
   AREA=    247.5     71.9    115.3     48.1     41.2     77.4     35.7     77.9     54.7    104.9     78.7    115.5
    VEL=      1.3      1.7      1.8      2.7      2.8      2.3      3.1      2.7      1.5      3.4      2.1      2.7
 STA=    1959.    2002.    2171.    2205.    2263.
  PER Q=      5.1      9.1      3.1       .2
   AREA=     72.6    179.9     50.0     13.4
    VEL=      1.9      1.4      1.7       .5

 *SECNO 97.000

 3265 DIVIDED FLOW

    97.00     5.08  1253.78      .00      .00  1253.87      .09     1.73      .01  1251.20
    2800.    1612.     514.     674.     828.     128.     390.    2824.    1547.  1252.60
     5.37     1.95     4.02     1.73     .065     .055     .065     .000  1248.70  1055.56
  .003440     495.     495.     495.        3        0        0      .00  1052.90  2418.77
0
 FLOW DISTRIBUTION FOR SECNO=     97.00          CWSEL=   1253.78
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 STA=    1056.    1776.    1839.    1885.    1901.    1924.    1959.    1991.    2007.    2037.    2062.    2078.    2168.
   PER Q=     15.7      8.6      7.4      4.6      8.0      7.3      3.7      2.1     18.3      4.5      3.6     10.3
   AREA=     323.0    118.4     95.0     47.1     76.1     84.5     54.6     29.3    127.9     55.3     40.2    152.6
    VEL=       1.4      2.0      2.2      2.8      3.0      2.4      1.9      2.0      4.0      2.3      2.5      1.9
 STA=    2168.    2287.    2419.
   PER Q=      5.0       .6
   AREA=     110.0     31.9
    VEL=       1.3       .6

 *SECNO 98.000

 3265 DIVIDED FLOW

     98.00     5.92  1255.32      .00      .00  1255.40      .08     1.53      .00  1253.70
     2800.    1300.     519.     981.     799.     133.     595.    2841.    1559.  1253.50
      5.43     1.63     3.89     1.65     .065     .055     .065     .000  1249.40  1392.86
   .002725     500.     500.     500.        2        0        0      .00  1151.86  2605.12
0
 FLOW DISTRIBUTION FOR SECNO=     98.00          CWSEL=   1255.32

 STA=    1393.    1750.    1829.    1856.    1884.    1918.    1946.    1960.    2019.    2064.    2090.    2121.    2148.
   PER Q=      6.6      5.4      3.3      3.1      6.3      4.0      3.1      7.5      7.2     18.5      3.4      6.1
   AREA=     202.5    105.1     50.5     49.7     82.3     57.4     38.0    113.8     99.4    133.2     54.6     73.5
    VEL=        .9      1.4      1.8      1.7      2.2      2.0      2.3      1.8      2.0      3.9      1.7      2.3
 STA=    2148.    2193.    2218.    2267.    2373.    2413.    2605.
   PER Q=      3.8      5.6      4.2      5.9      4.1      1.9
   AREA=      68.2     68.3     74.1    125.2     67.7     63.8
    VEL=       1.6      2.3      1.6      1.3      1.7       .8

 *SECNO 99.000

 3265 DIVIDED FLOW

     99.00     6.01  1256.81      .00      .00  1256.89      .08     1.49      .00  1255.00
     2800.    1210.     470.    1120.     681.     123.     588.    2858.    1572.  1255.70
      5.50     1.78     3.82     1.91     .065     .055     .065     .000  1250.80  1091.25
   .003182     505.     510.     510.        2        0        0      .00  1030.34  2351.91
0
 FLOW DISTRIBUTION FOR SECNO=     99.00          CWSEL=   1256.81
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 STA=    1091.    1599.    1634.    1657.    1701.    1780.    1803.    1830.    1858.    1881.    1897.    1925.    1950.
   PER Q=      4.7      4.3      3.8      4.1      5.8      3.2      4.8      4.5      6.1      1.8     16.8      3.0
   AREA=     141.3     63.2     49.7     67.0    103.9     43.8     59.6     59.3     65.7     27.4    122.9     42.9
    VEL=        .9      1.9      2.2      1.7      1.6      2.0      2.3      2.1      2.6      1.9      3.8      2.0
 STA=    1950.    2029.    2060.    2076.    2129.    2350.
   PER Q=     10.4     11.8      3.7      4.6      6.4
   AREA=     147.7    109.1     43.1     77.1    168.0
    VEL=       2.0      3.0      2.4      1.7      1.1

 *SECNO 100.000

 3265 DIVIDED FLOW

    100.00     5.93  1258.13      .00      .00  1258.19      .05     1.29      .00  1256.30
     2700.    1077.     416.    1207.     781.     141.     714.    2875.    1585.  1256.50
      5.58     1.38     2.95     1.69     .065     .055     .065     .000  1252.20  1164.37
   .002087     510.     505.     500.        2        0        0      .00  1189.38  2842.51
0
 FLOW DISTRIBUTION FOR SECNO=    100.00          CWSEL=   1258.13
```

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STA=    1164.    1590.    1730.    1766.    1851.    1928.    1959.    2005.    2030.    2043.    2080.    2129.    2190.
  PER Q=      3.6      7.2      4.6      3.5      3.3      4.1      4.6      6.2      2.9     15.4      9.8     16.2
   AREA=    116.5    165.3     74.6     86.7     79.0     64.7     81.5     76.1     36.9    141.3    129.8    193.6
    VEL=       .8      1.2      1.7      1.1      1.1      1.7      1.5      2.2      2.1      2.9      2.0      2.3
STA=    2190.    2206.    2240.    2544.    2843.
  PER Q=      3.7      6.4      8.4       .1
   AREA=     47.6     88.1    248.6      5.9
    VEL=      2.1      2.0       .9       .5

*SECNO 101.000

3265 DIVIDED FLOW

   101.00     5.80  1259.40      .00      .00  1259.49      .09     1.29      .01  1258.30
    2700.    1507.     501.     692.     779.     128.     407.    2892.    1598.   1258.70
     5.64     1.94     3.92     1.70     .065     .055     .065     .000  1253.60  1408.48
  .003442     490.     490.     490.        1        0        0      .00  1110.84  2897.79
0
 FLOW DISTRIBUTION FOR SECNO=    101.00          CWSEL=   1259.40

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


STA=    1408.    1757.    1834.    1931.    2039.    2060.    2096.    2258.    2289.    2346.    2368.    2396.    2619.
  PER Q=      8.4      5.6      5.6      4.0     15.0      8.0      9.2     18.5      9.4      3.2      5.5      6.6
   AREA=    200.1     96.6    105.4     51.7    102.6     88.7    133.6    127.9    111.7     40.4     64.5    162.4
    VEL=      1.1      1.6      1.4      2.1      3.9      2.4      1.9      3.9      2.3      2.1      2.3      1.1
STA=    2619.    2898.
  PER Q=       .9
   AREA=     27.6
    VEL=       .9

*SECNO 102.000

3265 DIVIDED FLOW

   102.00     4.87  1260.97      .00      .00  1261.03      .07     1.54      .00  1259.40
    2700.    1481.     454.     765.     872.     133.     452.    2908.    1611.   1259.60
     5.71     1.70     3.42     1.69     .065     .055     .065     .000  1256.10  1243.20
  .002783     500.     500.     500.        2        0        0      .00  1250.51  2661.68
0
 FLOW DISTRIBUTION FOR SECNO=    102.00          CWSEL=   1260.97

STA=    1243.    1815.    1921.    1950.    1963.    1995.    2105.    2141.    2160.    2204.    2233.    2268.    2312.
  PER Q=      3.0      5.7      8.6      3.5      4.5      8.1      3.8      4.0      9.9      3.6     16.8      8.9
   AREA=    134.4    119.1     89.4     38.5     63.4    149.3     60.0     48.4    115.6     53.5    132.9    109.7
    VEL=       .6      1.3      2.6      2.5      1.9      1.5      1.7      2.2      2.3      1.8      3.4      2.2
STA=    2312.    2350.    2380.    2470.    2662.
  PER Q=      5.2      6.7      5.2      2.3
   AREA=     73.3     78.7    105.6     84.3
    VEL=      1.9      2.3      1.3       .7

*SECNO 103.000
   103.00     4.35  1262.35      .00      .00  1262.41      .06     1.38      .00  1260.90
    2700.    1543.     578.     578.     872.     197.     375.    2924.    1625.   1261.60
     5.78     1.77     2.93     1.54     .060     .060     .060     .000  1258.00  1500.88
  .002774     495.     495.     495.        2        0        0      .00  1184.13  2685.01
0
 FLOW DISTRIBUTION FOR SECNO=    103.00          CWSEL=   1262.35

STA=    1501.    1879.    1915.    1944.    1983.    2007.    2045.    2092.    2128.    2149.    2186.    2240.    2298.
  PER Q=      6.5      4.4      4.4      4.0      3.5      3.2      7.1      5.1      3.5      5.8      9.7     21.4
   AREA=    192.1     62.8     58.0     60.0     46.9     53.7     92.9     68.3     44.8     74.1    118.6    197.2
    VEL=       .9      1.9      2.1      1.8      2.0      1.6      2.1      2.0      2.1      2.1      2.2      2.9
STA=    2298.    2343.    2367.    2432.    2663.    2685.
  PER Q=      8.1      3.2      4.2      5.4       .4
   AREA=     98.5     44.3     77.3    142.6     12.6
    VEL=      2.2      2.0      1.5      1.0       .9

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 104.000

 3265 DIVIDED FLOW

   104.00     4.14  1263.94      .00      .00  1264.00      .06     1.59      .00  1262.10
    2700.    1145.     461.    1094.     736.     189.     544.    2942.    1640.   1262.10
     5.86     1.56     2.43     2.01     .060     .060     .060     .000  1259.80  1356.66
  .003358     525.     520.     515.        2        0        0      .00  1358.17  2806.28
0
 FLOW DISTRIBUTION FOR SECNO=    104.00          CWSEL=   1263.94

 STA=    1357.    1730.    1786.    1831.    1893.    1954.    2007.    2075.    2187.    2272.    2325.    2340.    2358.
   PER Q=      4.7      5.4      3.6      3.9      3.0      3.6      4.5     13.7     17.1      9.0      4.3      5.2
    AREA=    156.4     76.2     57.0     67.6     56.8     60.1     77.4    184.5    189.2    106.7     40.6     50.7
     VEL=       .8      1.9      1.7      1.6      1.4      1.6      1.6      2.0      2.4      2.3      2.8      2.8
 STA=    2358.    2406.    2428.    2444.    2690.    2806.
   PER Q=      7.4      5.1      3.1      6.0       .5
    AREA=     90.6     52.4     35.4    153.7     14.1
     VEL=      2.2      2.6      2.4      1.0      1.0

 *SECNO 105.000

 3265 DIVIDED FLOW

   105.00     3.66  1265.46      .00      .00  1265.53      .07     1.53      .00  1264.10
    2700.     530.    1780.     390.     415.     731.     282.    2958.    1655.   1263.50
     5.92     1.28     2.44     1.39     .060     .060     .060     .000  1261.80  1378.99
  .002811     500.     500.     500.        0        0        0      .00  1206.26  2915.34
0
 FLOW DISTRIBUTION FOR SECNO=    105.00          CWSEL=   1265.46

 STA=    1379.    1954.    2049.    2093.    2382.    2483.    2571.    2915.
   PER Q=     10.0      5.2      4.5     65.9      9.4      3.1      2.0
    AREA=    245.6    102.0     67.7    730.9    149.4     72.4     59.9
     VEL=      1.1      1.4      1.8      2.4      1.7      1.2       .9

 *SECNO 106.000
   106.00     3.42  1267.12      .00      .00  1267.19      .08     1.66      .00  1265.40
    2700.     803.    1493.     404.     426.     594.     261.    2974.    1668.   1266.00
     5.99     1.89     2.51     1.55     .060     .060     .060     .000  1263.70  1606.98
  .003979     495.     500.     500.        2        0        0      .00  1082.79  2689.76
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    106.00          CWSEL=   1267.12

 STA=    1607.    1883.    1946.    2003.    2036.    2075.    2100.    2391.    2513.    2581.    2659.    2690.
   PER Q=      4.6      4.0      3.1      5.7      6.0      6.2     55.3      8.5      3.1      3.3       .1
    AREA=    109.8     66.0     55.5     63.6     70.0     60.8    593.9    136.2     59.2     60.8      4.9
     VEL=      1.1      1.6      1.5      2.4      2.3      2.8      2.5      1.7      1.4      1.4       .5

 *SECNO 107.000

 3265 DIVIDED FLOW

   107.00     3.38  1268.58      .00      .00  1268.62      .04     1.43      .00  1267.40
    2700.     871.     786.    1044.     583.     398.     658.    2990.    1681.   1267.60
     6.07     1.49     1.98     1.58     .060     .060     .060     .000  1265.20  1286.75
  .002271     480.     485.     490.        2        0        0      .00  1264.49  2730.22
0
 FLOW DISTRIBUTION FOR SECNO=    107.00          CWSEL=   1268.58

 STA=    1287.    1586.    1673.    1709.    1752.    1780.    1865.    2048.    2083.    2141.    2210.    2262.    2384.
   PER Q=      5.2      5.1      4.8      7.0      4.0      6.2     29.1      4.6      7.6      9.2      5.7      8.1
    AREA=    145.0    102.6     69.5     94.7     56.4    114.5    397.6     68.0    111.7    135.4     90.2    156.8
     VEL=      1.0      1.3      1.9      2.0      1.9      1.5      2.0      1.8      1.8      1.8      1.7      1.4
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 STA=    2384.    2482.    2730.
   PER Q=      3.1       .3
    AREA=     79.3     17.1
     VEL=      1.1       .5

 *SECNO 108.000

 3265 DIVIDED FLOW

    108.00     4.01  1270.01      .00      .00  1270.07      .06     1.44      .00  1269.20
     2700.     346.    1366.     988.     292.     607.     563.    3008.    1697.   1268.60
      6.14     1.18     2.25     1.75     .060     .060     .060     .000  1266.00  1059.03
   .003609     540.     500.     500.        2        0        0      .00  1332.14  2521.97
0
 FLOW DISTRIBUTION FOR SECNO=    108.00          CWSEL=   1270.01

 STA=    1059.    1395.    1526.    1670.    1995.    2037.    2109.    2135.    2165.    2244.    2452.    2522.
   PER Q=      3.8      4.5      4.5     50.6      8.0      7.8      4.1      3.2      4.8      7.3      1.3
    AREA=     95.5     94.0    102.7    606.7     88.2    108.2     49.8     44.0     83.0    158.4     31.5
     VEL=      1.1      1.3      1.2      2.3      2.5      2.0      2.2      1.9      1.6      1.2      1.1

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 109.000

 3265 DIVIDED FLOW

    109.00     3.41  1271.61      .00      .00  1271.66      .05     1.59      .00  1270.00
     2700.    1021.     915.     764.     684.     422.     492.    3026.    1714.   1270.00
      6.22     1.49     2.17     1.55     .060     .060     .060     .000  1268.20   754.45
   .002698     530.     505.     505.        2        0        0      .00  1505.15  2600.84
0
 FLOW DISTRIBUTION FOR SECNO=    109.00          CWSEL=   1271.61

 STA=     754.    1745.    1796.    1862.    1881.    1928.    1953.    2145.    2189.    2245.    2268.    2334.    2529.
   PER Q=     11.4      5.1     10.9      3.6      4.2      2.7     33.9      6.7      4.6      4.1      5.3      7.2
    AREA=    313.2     79.7    138.5     43.9     68.2     40.6    421.5     88.7     76.1     51.3     89.8    167.3
     VEL=      1.0      1.7      2.1      2.2      1.7      1.8      2.2      2.1      1.6      2.2      1.6      1.2
 STA=    2529.    2601.
   PER Q=       .4
    AREA=     18.4
     VEL=       .5

 *SECNO 110.000

 3265 DIVIDED FLOW

    110.00     3.03  1273.03      .00      .00  1273.07      .04     1.41      .00  1271.60
     2700.    1472.     882.     347.     916.     499.     261.    3047.    1732.   1271.70
      6.32     1.61     1.77     1.33     .060     .060     .060     .000  1270.00  1108.58
   .002411     605.     500.     530.        3        0        0      .00  1354.92  2554.61
0
 FLOW DISTRIBUTION FOR SECNO=    110.00          CWSEL=   1273.03

 STA=    1109.    1496.    1678.    1720.    1849.    1872.    1943.    1991.    2274.    2319.    2409.    2555.
   PER Q=      4.9      4.8      5.2     21.3      4.4      9.1      4.9     32.7      4.0      5.4      3.5
    AREA=    160.7    132.9     76.8    281.0     54.2    132.6     78.2    498.6     65.9    104.0     90.9
     VEL=       .8      1.0      1.8      2.0      2.2      1.9      1.7      1.8      1.6      1.4      1.0

 *SECNO 111.000

 3265 DIVIDED FLOW

    111.00     2.76  1274.26      .00      .00  1274.30      .04     1.23      .00  1272.70
     2700.    1545.     817.     338.     973.     435.     269.    3067.    1748.   1272.40
      6.40     1.59     1.88     1.26     .060     .060     .060     .000  1271.50  1208.79
   .002482     505.     500.     500.        2        0        0      .00  1415.47  2709.90
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    111.00          CWSEL=   1274.26

 STA=    1209.    1798.    1865.    1912.    1952.    2069.    2162.    2394.    2454.    2565.    2671.    2710.
   PER Q=     23.3      4.3      5.2      4.3     11.8      8.4     30.2      5.2      3.9      3.3       .1
    AREA=    417.7     81.5     79.4     67.0    187.5    140.1    435.1     88.8     94.6     78.8      6.9
     VEL=      1.5      1.4      1.8      1.7      1.7      1.6      1.9      1.6      1.1      1.1       .4

 *SECNO 112.000

 3265 DIVIDED FLOW

    112.00     3.03  1275.53      .00      .00  1275.57      .04     1.27      .00  1274.00
     2700.    1186.    1412.     102.     789.     797.      97.    3085.    1764.  1274.60
      6.49     1.50     1.77     1.06     .060     .060     .060     .000  1272.50  1256.91
   .002744     480.     500.     480.        2        0        0      .00  1359.49  2682.90
0
 FLOW DISTRIBUTION FOR SECNO=    112.00          CWSEL=   1275.53

 STA=    1257.    1444.    1518.    1688.    1710.    1974.    2474.    2565.    2683.
   PER Q=      3.3      3.2      9.9      3.1     24.5     52.3      3.2       .6
    AREA=     97.4     68.7    188.7     41.6    392.4    797.2     76.1     21.0
     VEL=       .9      1.2      1.4      2.0      1.7      1.8      1.1       .7

 *SECNO 113.000
    113.00     3.37  1277.07      .00      .00  1277.11      .05     1.54      .00  1276.30
     2700.    1835.     854.      11.    1061.     512.      24.    3104.    1780.  1276.80
      6.57     1.73     1.67      .44     .060     .060     .060     .000  1273.70  1140.20
   .003510     500.     495.     500.        3        0        0      .00  1544.98  2685.18
0
 FLOW DISTRIBUTION FOR SECNO=    113.00          CWSEL=   1277.07

 STA=    1140.    1463.    1524.    1696.    1729.    1762.    1813.    1840.    2107.    2529.    2685.
   PER Q=      9.2      3.7     15.8      8.5      4.1      8.1      3.7     14.9     31.6       .4
    AREA=    207.4     64.6    236.0     83.4     54.3     96.2     47.4    271.9    511.9     24.4
     VEL=      1.2      1.5      1.8      2.7      2.0      2.3      2.1      1.5      1.7       .4

 *SECNO 114.000

 3265 DIVIDED FLOW

    114.00     2.83  1278.73      .00      .00  1278.77      .04     1.66      .00  1277.40
     2700.     887.    1430.     383.     632.     741.     283.    3124.    1799.  1277.60
      6.65     1.40     1.93     1.35     .060     .060     .060     .000  1275.90   949.42
   .002878     540.     510.     480.        2        0        0      .00  1573.76  2682.56
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    114.00          CWSEL=   1278.73

 STA=     949.    1601.    1728.    1761.    1917.    2340.    2455.    2678.
   PER Q=      6.2      7.1      5.6     13.9     53.0     10.4      3.8
    AREA=    202.5    137.2     70.4    222.1    741.4    164.9    118.3
     VEL=       .8      1.4      2.2      1.7      1.9      1.7       .9

 *SECNO 115.000

 3265 DIVIDED FLOW

    115.00     3.57  1280.27      .00      .00  1280.31      .04     1.53      .00  1278.90
     2700.    1503.     842.     354.    1041.     447.     262.    3145.    1819.  1278.70
      6.75     1.44     1.88     1.35     .060     .060     .060     .000  1276.70   904.67
   .002782     580.     515.     500.        3        0        0      .00  1658.30  2571.43
0
 FLOW DISTRIBUTION FOR SECNO=    115.00          CWSEL=   1280.27

 STA=     905.    1542.    1593.    1776.    1825.    1910.    1939.    1975.    2233.    2302.    2369.    2397.    2571.
```

```
  PER Q=     15.7      5.5     13.1      6.0      7.3      4.0      4.1     31.2      5.2      3.1      3.1      1.7
   AREA=    406.7     83.1    230.6     85.5    120.4     54.0     60.8    447.3     90.2     65.0     46.0     60.7
    VEL=      1.0      1.8      1.5      1.9      1.6      2.0      1.8      1.9      1.6      1.3      1.8       .8

*SECNO 116.000

 DIVIDED FLOW

   116.00     2.98  1281.68      .00      .00  1281.73      .04     1.42      .00  1280.00
    2700.    1313.    1095.     292.     856.     590.     234.    3165.    1838.   1280.80
     6.84     1.53     1.86     1.25     .060     .060     .060     .000  1278.70  1106.94
  .002895     500.     500.     500.        1        0        0      .00  1601.77  2783.69
0
 FLOW DISTRIBUTION FOR SECNO=    116.00          CWSEL=   1281.68

 STA=    1107.    1462.    1720.    1806.    1849.    2005.    2363.    2421.    2499.    2784.
  PER Q=      4.1     11.5     11.7      5.5     15.8     40.6      3.7      4.1      3.1
   AREA=    139.7    242.2    157.1     76.2    240.5    589.6     65.2     79.7     88.7
    VEL=       .8      1.3      2.0      2.0      1.8      1.9      1.5      1.4       .9

*SECNO 117.000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST



 3265 DIVIDED FLOW

   117.00     3.28  1282.88      .00      .00  1282.91      .04     1.19      .00  1281.40
    2700.    1072.    1246.     382.     880.     667.     346.    3185.    1856.   1281.80
     6.93     1.22     1.87     1.10     .060     .060     .060     .000  1279.60  1218.18
  .002060     480.     495.     510.        2        0        0      .00  1661.33  3077.05
0
 FLOW DISTRIBUTION FOR SECNO=    117.00          CWSEL=   1282.88

 STA=    1218.    1538.    1713.    1793.    1954.    2017.    2102.    2142.    2165.    2476.    2584.    2699.    2826.
  PER Q=      3.7      5.4      6.2      7.3      3.8      6.5      4.9      1.8     46.2      4.4      6.2      3.1
   AREA=    137.5    145.7    115.9    169.8     78.8    121.9     76.4     34.1    667.0    106.5    133.7     86.2
    VEL=       .7      1.0      1.5      1.2      1.3      1.4      1.7      1.5      1.9      1.1      1.3      1.0
 STA=    2826.    3077.
  PER Q=       .4
   AREA=     19.4
    VEL=       .6

*SECNO 118.000

 3265 DIVIDED FLOW

   118.00     4.02  1283.82      .00      .00  1283.85      .03      .93      .00  1281.90
    2700.    1922.     188.     590.    1405.      91.     475.    3207.    1875.   1281.70
     7.03     1.37     2.08     1.24     .060     .060     .060     .000  1279.80  1396.39
  .001633     500.     515.     540.        2        0        0      .00  1429.73  2878.59
0
 FLOW DISTRIBUTION FOR SECNO=    118.00          CWSEL=   1283.82

 STA=    1396.    1685.    1825.    2016.    2109.    2192.    2288.    2404.    2434.    2509.    2579.    2713.    2879.
  PER Q=      6.8      7.6     14.1      8.9      9.1     11.4     13.2      7.0      8.4      6.4      5.9      1.1
   AREA=    195.5    176.2    289.5    163.6    160.0    192.7    227.4     90.6    145.0    121.1    149.3     59.4
    VEL=       .9      1.2      1.3      1.5      1.5      1.6      1.6      2.1      1.6      1.4      1.1       .5

*SECNO 119.000

 3265 DIVIDED FLOW

   119.00     3.38  1284.98      .00      .00  1285.03      .05     1.18      .01  1283.40
    2700.    1216.     557.     926.     844.     209.     520.    3229.    1893.   1283.20
     7.11     1.44     2.67     1.78     .060     .060     .060     .000  1281.60  1131.33
  .003247     545.     500.     500.        2        0        0      .00  1641.48  2789.36


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
```

```
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=    119.00          CWSEL=   1284.98

STA=    1131.    1564.    1774.    1873.    1972.    2101.    2226.    2253.    2333.    2386.    2482.    2656.    2789.
  PER Q=      3.1      6.5      3.4      4.2     10.9     14.0      3.0     20.6      8.3     13.8     11.1      1.2
   AREA=    114.8    153.3     76.8     87.1    171.7    197.5     42.8    208.8    102.0    176.1    196.2     45.4
    VEL=       .7      1.1      1.2      1.3      1.7      1.9      1.9      2.7      2.2      2.1      1.5       .7

1
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                                                                                    THIS RUN EXECUTED 10-31-91
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
**************************************************


T1      WATERMAN WASH FLOOD INSURANCE STUDY - STANLEY CONSULTANTS (SCI#10512)
T2      EAST PRONG - UPPER WATERSHED - 100 YR Q - ENCROACHED PROFILE
T3      WATERMAN WASH - EAST PRONG UPPER   FILE NAME IS: WWH2EPF  DATE: 8-24-91

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.        4.        0.        0.   .000000       .00        .0        0.  1128.430      .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15.000      .000    -1.000      .000      .000      .000      .000      .000      .000    15.000

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*PROF 2

CCHV=    .100 CEHV=    .300
*SECNO 1.000

3470 ENCROACHMENT STATIONS=    1540.0    1960.0  TYPE=     1  TARGET=     420.000

          CROSS SECTIONS ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM

          ZERO POINT FOR CROSS SECTION GR STATIONING CORRESPONDS TO LEFT
             END OF CROSS SECTION LINE

          STARTING WATER SURFACE ELEVATION BASED ON SLOPE-AREA METHOD
             USING ESTIMATED SLOPE OF 0.0028 FT/FT

          FINAL ENCROACHMENT STATIONS USE TYPE 1 ENCROACHMENT METHOD BASED
             ON RESULTS OF TYPE  4 ENCROACHMENT

     1.00     9.93  1128.43      .00  1127.43  1128.78      .35      .00      .00  1126.20
   13200.       0.   13195.       5.       0.    2763.       4.       0.       0.  1126.30
      .00      .26     4.78     1.14     .055     .050     .060     .000  1118.50  1540.00
  .002102       0.       0.       0.        0        0        0      .00   420.00  1960.00
0
FLOW DISTRIBUTION FOR SECNO=      1.00          CWSEL=   1128.43

STA=    1540.    1540.    1958.    1960.
  PER Q=       .0    100.0       .0
   AREA=       .2   2763.2      4.0
    VEL=       .3      4.8      1.1

*SECNO 2.000
```

```
3470 ENCROACHMENT STATIONS=    1270.0    2020.0  TYPE=     1  TARGET=     750.000
     2.00    10.14  1131.04      .00  1130.43  1131.34      .30     2.55      .01100000.00
   13200.       0.   13200.       0.       0.    3000.       0.      63.      13. 100000.00
      .06      .00     4.40      .00     .055     .050     .060     .000  1120.90  1270.00
  .003519    1015.     955.     915.        2        0        0      .00   750.00  2020.00

FLOW DISTRIBUTION FOR SECNO=      2.00          CWSEL=   1131.04

STA=    1270.    2028.
  PER Q=    100.0
   AREA=   3000.0
    VEL=      4.4

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3.000

3470 ENCROACHMENT STATIONS=    1380.0    2090.0  TYPE=     1  TARGET=     710.000
     3.00    10.00  1134.00      .00  1133.29  1134.33      .33     2.98      .01  1132.70
   13200.     987.    9755.    2458.     404.    1908.     879.     137.      30.  1130.20
      .12     2.45     5.11     2.80     .055     .050     .060     .000  1124.00  1380.00
  .002381    1070.    1040.    1010.        1        0        0      .00   710.00  2090.00
0
FLOW DISTRIBUTION FOR SECNO=      3.00          CWSEL=   1134.00

STA=    1380.    1408.    1440.    1470.    1556.    1841.    2030.    2059.    2075.    2090.
  PER Q=      1.1      2.6      2.1      1.7     73.9     13.0      3.0      1.8       .9
   AREA=     65.8    110.4     97.4    129.9   1907.6    632.2    123.4     71.1     51.9
    VEL=      2.2      3.1      2.9      1.7      5.1      2.7      3.2      3.3      2.4

*SECNO 4.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1330.0    2040.0  TYPE=     1  TARGET=     710.000
     4.00     9.51  1136.11      .00  1135.46  1136.46      .35     2.12      .01100000.00
   13200.       0.   11073.    2127.       0.    2234.     649.     189.      42.  1133.20
      .17      .00     4.96     3.28     .055     .050     .060     .000  1126.60  1330.00
  .003456     740.     740.     780.        2        0        0      .00   671.26  2040.00
0
FLOW DISTRIBUTION FOR SECNO=      4.00          CWSEL=   1136.11

STA=    1330.    1793.    1808.    1859.    1919.    2011.    2040.
  PER Q=     83.9       .3       .1      2.2      9.3      4.2
   AREA=   2234.5     20.9     13.1    123.1    347.7    144.1
    VEL=      5.0      1.8      1.5      2.4      3.5      3.9

*SECNO 5.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1050.0    1970.0  TYPE=     1  TARGET=     920.000
     5.00     9.98  1138.38      .00  1137.77  1138.83      .46     2.34      .03  1138.80
   13200.     588.    8390.    4222.     341.    1301.    1392.     238.      55.  1136.00
      .21     1.73     6.45     3.03     .055     .050     .060     .000  1128.40  1050.00
  .003154     705.     705.     725.        2        0        0      .00   914.47  1970.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      5.00          CWSEL=   1138.38
```

```
 STA=    1050.    1104.    1232.    1347.    1355.    1529.    1584.    1612.    1645.    1744.    1970.
   PER Q=      1.4      2.2       .8       .0     63.6      2.2      1.1      2.9     10.2     15.6
    AREA=     90.5    164.3     83.0      3.1   1301.3    122.0     61.2    118.1    388.7    702.0
     VEL=      2.1      1.8      1.2       .8      6.4      2.4      2.4      3.2      3.5      2.9

 *SECNO 6.000
 3280 CROSS SECTION      6.00 EXTENDED       .74 FEET


 3470 ENCROACHMENT STATIONS=    1551.9    2190.0  TYPE=     1  TARGET=     638.100
      6.00    12.35  1140.05      .00  1139.35  1140.40      .36     1.56      .01  1137.80
    11800.    2282.    4363.    5156.     662.     677.    1490.     272.      64.  1138.60
       .24     3.45     6.44     3.46     .055     .050     .060     .000  1127.70  1551.90
   .002994     490.     500.     520.        0        0        0      .00   638.10  2190.00
0
 FLOW DISTRIBUTION FOR SECNO=      6.00          CWSEL=   1140.05

 STA=    1552.    1652.    1668.    1682.    1746.    1828.    1842.    2190.
   PER Q=      8.1      3.7      3.0      4.6     37.0       .9     42.8
    AREA=    307.8     94.4     77.1    182.6    677.1     38.7   1451.0
     VEL=      3.1      4.7      4.5      3.0      6.4      2.7      3.5

 *SECNO 7.000

 3470 ENCROACHMENT STATIONS=    1730.6    2600.0  TYPE=     1  TARGET=     869.400
      7.00    11.89  1141.39      .00  1140.47  1141.64      .25     1.23      .01  1139.00
    10400.    3368.    3702.    3330.    1214.     653.    1213.     306.      73.  1138.50
       .27     2.78     5.67     2.75     .055     .050     .060     .000  1129.50  1730.60
   .001998     500.     500.     500.        2        0        0      .00   869.40  2600.00
0
 FLOW DISTRIBUTION FOR SECNO=      7.00          CWSEL=   1141.39

 STA=    1731.    1959.    2088.    2124.    2146.    2201.    2220.    2289.    2386.    2529.    2575.    2600.
   PER Q=      5.1      7.9      6.6      5.1      6.2      1.4     35.6      7.7     14.9      6.5      2.9
    AREA=    339.7    278.8    188.7    134.0    215.6     56.8    653.4    323.6    561.6    217.4    110.3
     VEL=      1.6      3.0      3.7      4.0      3.0      2.6      5.7      2.5      2.8      3.1      2.7

 *SECNO 8.000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=     750.0    1450.0  TYPE=     1  TARGET=     700.000
      8.00    11.41  1142.31      .00  1141.38  1142.46      .15      .81      .01  1138.80
     9000.    2507.    4416.    2078.    1087.    1197.     912.     342.      82.  1138.40
       .32     2.31     3.69     2.28     .055     .050     .060     .000  1130.90   750.00
   .001298     500.     500.     500.        2        0        0      .00   700.00  1450.00
0
 FLOW DISTRIBUTION FOR SECNO=      8.00          CWSEL=   1142.31

 STA=     750.     955.     965.     979.     982.    1046.    1231.    1335.    1450.
   PER Q=     19.0       .7       .7       .3      7.2     49.1     10.7     12.4
    AREA=    748.4     30.3     35.7     11.8    261.2   1197.4    422.5    489.3
     VEL=      2.3      2.0      1.8      2.0      2.5      3.7      2.3      2.3

 *SECNO 9.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1350.0    1920.0  TYPE=     1  TARGET=     570.000
      9.00    10.65  1143.05      .00  1142.05  1143.26      .21      .78      .02  1140.10
     9000.    2317.    5741.     942.     732.    1437.     346.     374.      89.  1139.10
       .36     3.17     3.99     2.72     .055     .050     .060     .000  1132.40  1350.00
   .002026     485.     485.     505.        2        0        0      .00   568.79  1920.00
0
 FLOW DISTRIBUTION FOR SECNO=      9.00          CWSEL=   1143.05

 STA=    1350.    1373.    1398.    1465.    1511.    1556.    1832.    1866.    1871.    1898.    1920.
   PER Q=       .4       .2      7.3     10.8      7.0     63.8      4.1       .7      3.5      2.1
    AREA=     26.9     20.3    234.5    255.3    194.9   1437.2    133.4     23.0    110.0     80.1
     VEL=      1.3      1.1      2.8      3.8      3.2      4.0      2.8      2.9      2.9      2.4
```

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*SECNO 10.000

3265 DIVIDED FLOW


[illegible]0 ENCROACHMENT STATIONS=    1120.0    1870.0  TYPE=     1  TARGET=     750.000
[illegible]10.00    10.94  1144.04      .00  1143.16  1144.43      .39     1.11      .05  1148.40
[illegible]9000.     934.    7603.     462.     282.    1433.     202.     398.      94.  1141.10
      .39     3.31     5.31     2.28     .055     .050     .060     .000  1133.10  1120.00
   .002622     465.     490.     475.        2        0        0      .00   381.10  1870.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     10.00          CWSEL=   1144.04

STA=    1120.    1145.    1185.    1203.    1788.    1835.    1870.
  PER Q=      5.4      4.8       .2     84.5      3.2      1.9
   AREA=    132.0    137.8     12.7   1433.1    121.5     80.9
    VEL=      3.7      3.1      1.1      5.3      2.4      2.1

*SECNO 11.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1010.0    1870.0  TYPE=     1  TARGET=     860.000
    11.00    10.38  1145.18      .00  1144.25  1145.34      .16      .89      .02  1150.20
    8600.    3686.    3957.     957.    1343.    1036.     499.     424.     100.  1142.10
      .43     2.74     3.82     1.92     .055     .050     .060     .000  1134.80  1010.00
   .001461     460.     460.     465.        2        0        0      .00   706.97  1870.00
0
[illegible]W DISTRIBUTION FOR SECNO=     11.00          CWSEL=   1145.18

[illegible]=    1010.    1119.    1145.    1246.    1324.    1338.    1350.    1402.    1445.    1457.    1700.    1870.
  PER Q=     21.3      1.8      1.2      4.2       .3       .1      1.4     11.5       .9     46.0     11.1
   AREA=    591.1     75.5     82.4    192.7     21.6      8.8     56.9    275.3     38.9   1035.8    498.6
    VEL=      3.1      2.1      1.3      1.9      1.3       .8      2.2      3.6      2.1      3.8      1.9

*SECNO 12.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1090.0    1740.0  TYPE=     1  TARGET=     650.000
    12.00     9.28  1145.98      .00  1145.23  1146.35      .37      .95      .06  1147.20
    8600.     790.    6945.     865.     317.    1309.     397.     451.     107.  1142.90
      .46     2.50     5.31     2.18     .055     .050     .060     .000  1136.70  1090.00
   .002681     490.     495.     485.        2        0        0      .00   531.36  1740.00
0
FLOW DISTRIBUTION FOR SECNO=     12.00          CWSEL=   1145.98

STA=    1090.    1131.    1258.    1342.    1562.    1740.
  PER Q=      3.6      4.0      1.6     80.8     10.1
   AREA=    104.6    145.4     66.6   1308.6    397.1
    VEL=      3.0      2.3      2.1      5.3      2.2

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


[illegible]NO 13.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1150.0    1720.0  TYPE=     1  TARGET=     570.000
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    13.00     9.54  1147.44      .00  1146.62  1147.79      .35     1.44      .00  1149.60
    8600.    1489.    5156.    1956.     438.     918.     670.     475.     113.   1144.40
      .49     3.40     5.61     2.92     .055     .050     .060     .000  1137.90  1150.00
  .003087     510.     500.     495.        2        0        0      .00   494.27  1720.00
0
 FLOW DISTRIBUTION FOR SECNO=     13.00          CWSEL=   1147.44

 STA=    1150.    1158.    1185.    1243.    1286.    1326.    1333.    1505.    1646.    1700.    1720.
   PER Q=       .9      1.8       .5      8.3      5.5       .2     59.9     13.1      7.0      2.7
    AREA=     27.8     61.4     18.0    182.8    138.2      9.8    918.3    404.6    189.8     75.8
     VEL=      2.9      2.6      2.3      3.9      3.4      1.7      5.6      2.8      3.2      3.0

 *SECNO 14.000

 3470 ENCROACHMENT STATIONS=    1020.0    1570.0  TYPE=     1  TARGET=     550.000
    14.00    10.34  1148.74      .00  1147.76  1148.99      .25     1.19      .01  1148.40
    8600.     561.    7026.    1012.     231.    1644.     437.     497.     118.   1145.60
      .52     2.43     4.27     2.32     .055     .050     .060     .000  1138.40  1020.00
  .002256     465.     450.     450.        1        0        0      .00   550.00  1570.00
0
 FLOW DISTRIBUTION FOR SECNO=     14.00          CWSEL=   1148.74

 STA=    1020.    1086.    1109.    1415.    1497.    1570.
   PER Q=      5.7       .8     81.7      6.6      5.2
    AREA=    192.4     38.6   1644.1    237.9    198.7
     VEL=      2.6      1.8      4.3      2.4      2.2

 *SECNO 15.000

 3470 ENCROACHMENT STATIONS=    1300.0    1990.0  TYPE=     1  TARGET=     690.000
    15.00    10.28  1149.98      .00  1149.05  1150.21      .23     1.22      .00  1146.60
    8200.    3960.    2269.    1972.    1233.     404.     852.     526.     126.   1147.40
      .56     3.21     5.62     2.31     .055     .050     .060     .000  1139.70  1300.00
  .002356     600.     510.     485.        2        0        0      .00   690.00  1990.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     15.00          CWSEL=   1149.98

 STA=    1300.    1329.    1377.    1392.    1409.    1533.    1604.    1625.    1674.    1769.    1990.
   PER Q=      6.1     10.1      3.4      3.5     15.9      7.2      2.1     27.7      7.2     16.8
    AREA=    143.0    225.0     75.0     78.2    432.7    216.2     62.5    404.0    256.1    596.0
     VEL=      3.5      3.7      3.7      3.7      3.0      2.7      2.7      5.6      2.3      2.3

 *SECNO 16.000

 3470 ENCROACHMENT STATIONS=    1360.0    2040.0  TYPE=     1  TARGET=     680.000
    16.00    10.03  1151.13      .00  1150.17  1151.37      .24     1.15      .00  1148.10
    8200.    2668.    2907.    2625.    1003.     528.     954.     555.     134.   1148.60
      .60     2.66     5.51     2.75     .055     .050     .060     .000  1141.10  1360.00
  .002270     495.     500.     505.        0        0        0      .00   680.00  2040.00
0
 FLOW DISTRIBUTION FOR SECNO=     16.00          CWSEL=   1151.13

 STA=    1360.    1487.    1695.    1761.    1815.    1830.    1860.    1937.    1950.    1967.    2003.    2040.
   PER Q=     11.8     20.7     35.5      4.3      1.8      3.4      5.6      2.0      4.5      6.6      3.8
    AREA=    373.6    629.1    527.9    150.5     53.0    104.3    202.4     53.5     98.0    167.7    125.0
     VEL=      2.6      2.7      5.5      2.3      2.8      2.7      2.2      3.0      3.8      3.3      2.5

 *SECNO 17.000

 3470 ENCROACHMENT STATIONS=    1320.0    1860.0  TYPE=     1  TARGET=     540.000
    17.00    10.49  1152.39      .00  1151.48  1152.70      .31     1.31      .02  1150.00
    8200.     333.    6600.    1267.     132.    1372.     532.     581.     141.   1150.00
      .63     2.53     4.81     2.38     .055     .050     .060     .000  1141.90  1320.00
  .002939     550.     500.     495.        2        0        0      .00   540.00  1860.00
0
 FLOW DISTRIBUTION FOR SECNO=     17.00          CWSEL=   1152.39

 STA=    1320.    1376.    1637.    1818.    1860.
   PER Q=      4.1     80.5     12.6      2.8
    AREA=    131.8   1372.1    431.6    100.1
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    VEL=      2.5      4.8      2.4      2.3

 *SECNO 18.000

 3470 ENCROACHMENT STATIONS=    1450.0    2020.0  TYPE=     1  TARGET=     570.000
    18.00     9.10  1153.70      .00  1152.84  1153.89      .20     1.19      .01  1151.00
    7800.    1364.    5219.    1217.     624.    1290.     509.     609.     148.  1149.80
      .67     2.19     4.04     2.39     .055     .050     .060     .000  1144.60  1450.00
  .001671     570.     545.     510.        2        0        0      .00   570.00  2020.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     18.00          CWSEL=   1153.70

 STA=    1450.    1451.    1673.    1884.    1977.    2011.    2020.
   PER Q=       .0     17.5     66.9     10.0      4.5      1.1
    AREA=      1.8    621.8   1290.4    331.2    136.7     41.5
     VEL=       .7      2.2      4.0      2.4      2.5      2.1

 *SECNO 19.000

 3470 ENCROACHMENT STATIONS=    1470.0    2100.0  TYPE=     1  TARGET=     630.000
    19.00     9.87  1154.77      .00  1153.93  1155.17      .40     1.21      .06  1152.70
    7800.    2749.    3592.    1459.     916.     536.     483.     634.     155.  1152.40
      .70     3.00     6.70     3.02     .055     .050     .060     .000  1144.90  1470.00
  .003854     500.     500.     500.        2        0        0      .00   630.00  2100.00
0
 FLOW DISTRIBUTION FOR SECNO=     19.00          CWSEL=   1154.77

 STA=    1470.    1600.    1768.    1787.    1853.    1928.    2044.    2100.
   PER Q=      12.9     12.7      2.1      7.5     46.1     12.2      6.5
    AREA=     329.0    356.8     50.9    179.0    536.1    316.5    166.1
     VEL=       3.1      2.8      3.3      3.3      6.7      3.0      3.1

 *SECNO 20.000

 3470 ENCROACHMENT STATIONS=    1260.0    1920.0  TYPE=     1  TARGET=     660.000
    20.00     9.28  1156.38      .00  1155.42  1156.61      .23     1.42      .02  1153.80
    7600.    2617.    2992.    1990.    1023.     574.     766.     659.     162.  1151.80
      .74     2.56     5.22     2.60     .055     .050     .060     .000  1147.10  1260.00
  .002186     490.     500.     510.        2        0        0      .00   660.00  1920.00
0
 FLOW DISTRIBUTION FOR SECNO=     20.00          CWSEL=   1156.38

 STA=    1260.    1288.    1401.    1449.    1486.    1617.    1694.    1720.    1877.    1895.    1920.
   PER Q=       2.2     10.9      6.4      4.4     10.5     39.4      3.9     15.1      2.5      4.7
    AREA=      74.5    324.7    167.7    120.4    336.0    573.7    102.9    474.0     67.6    121.4
     VEL=       2.3      2.6      2.9      2.8      2.4      5.2      2.9      2.4      2.8      2.9

 *SECNO 21.000

 3470 ENCROACHMENT STATIONS=    1170.0    1710.0  TYPE=     1  TARGET=     540.000
    21.00     9.69  1157.39      .00  1156.42  1157.61      .21     1.00      .00  1152.90
    7600.    1132.    4099.    2369.     423.     915.     999.     687.     169.  1153.30
      .78     2.68     4.48     2.37     .055     .050     .060     .000  1147.70  1170.00
  .001712     530.     520.     500.        2        0        0      .00   540.00  1710.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 W DISTRIBUTION FOR SECNO=     21.00          CWSEL=   1157.39

 STA=    1170.    1281.    1412.    1438.    1504.    1704.    1710.
   PER Q=      14.9     53.9      5.1     10.9     14.9       .3
    AREA=     423.2    914.5    128.8    296.8    558.4     15.0
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    VEL=      2.7      4.5      3.0      2.8      2.0      1.5

 *SECNO 22.000

 3470 ENCROACHMENT STATIONS=     880.0    1430.0  TYPE=     1  TARGET=     550.000
    22.00     9.35  1158.66      .00  1157.92  1159.12      .47     1.44      .08  1156.50
    7300.     752.    4246.    2302.     250.     635.     726.     709.     175.   1157.00
      .81     3.01     6.69     3.17     .060     .050     .065     .000  1149.30   880.00
  .005957     520.     505.     490.        2        0        0      .00   550.00  1430.00
0
 FLOW DISTRIBUTION FOR SECNO=     22.00          CWSEL=   1158.66

 STA=     880.    1005.    1130.    1377.    1430.
   PER Q=     10.3     58.2     24.0      7.5
    AREA=    250.0    634.6    569.6    156.3
     VEL=      3.0      6.7      3.1      3.5

 *SECNO 23.000

 3470 ENCROACHMENT STATIONS=    1200.0    1750.0  TYPE=     1  TARGET=     550.000
    23.00    10.29  1160.89      .00  1159.90  1161.24      .36     2.11      .01  1158.50
    7300.    1728.    3203.    2369.     557.     491.     929.     730.     182.   1157.90
      .84     3.10     6.52     2.55     .060     .050     .065     .000  1150.60  1200.00
  .003127     510.     500.     500.        2        0        0      .00   550.00  1750.00
0
 FLOW DISTRIBUTION FOR SECNO=     23.00          CWSEL=   1160.89

 STA=    1200.    1326.    1363.    1423.    1444.    1706.    1750.
   PER Q=     19.2      4.5     43.9      1.8     25.3      5.3
    AREA=    443.8    113.5    491.3     53.5    731.0    144.6
     VEL=      3.2      2.9      6.5      2.4      2.5      2.7

 *SECNO 24.000

 3470 ENCROACHMENT STATIONS=    1120.0    1600.0  TYPE=     1  TARGET=     480.000
    24.00    10.13  1162.43      .00  1161.46  1162.75      .32     1.50      .00  1161.00
    7300.    1902.    3134.    2264.     635.     514.     804.     753.     188.   1158.50
      .87     2.99     6.10     2.82     .060     .050     .065     .000  1152.30  1120.00
  .002879     490.     500.     510.        2        0        0      .00   480.00  1600.00
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=     24.00          CWSEL=   1162.43

 STA=    1120.    1199.    1250.    1289.    1306.    1372.    1600.
   PER Q=     12.6      7.6      4.7      1.3     42.9     31.0
    AREA=    296.2    179.2    119.9     40.2    513.7    804.1
     VEL=      3.1      3.1      2.8      2.3      6.1      2.8

 *SECNO 25.000

 3470 ENCROACHMENT STATIONS=    1390.0    1860.0  TYPE=     1  TARGET=     470.000
    25.00    10.73  1163.83      .00  1162.88  1164.12      .29     1.37      .00  1161.10
    7300.    1435.    2651.    3214.     512.     437.    1082.     775.     193.   1160.80
      .90     2.80     6.06     2.97     .060     .050     .065     .000  1153.10  1390.00
  .002614     495.     500.     500.        2        0        0      .00   470.00  1860.00
0
 FLOW DISTRIBUTION FOR SECNO=     25.00          CWSEL=   1163.83

 STA=    1390.    1492.    1542.    1593.    1678.    1760.    1816.    1824.    1837.    1860.
   PER Q=     13.9      5.8     36.3     11.6     15.4     10.1      1.8      2.7      2.4
    AREA=    355.8    156.1    437.5    307.4    360.0    238.8     39.4     61.4     75.2
     VEL=      2.8      2.7      6.1      2.8      3.1      3.1      3.3      3.2      2.4

 *SECNO 26.000

 3470 ENCROACHMENT STATIONS=    1450.0    1890.0  TYPE=     1  TARGET=     440.000
    26.00    10.69  1165.19      .00  1164.21  1165.57      .38     1.42      .03  1162.70
    7300.    1642.    3221.    2437.     554.     485.     796.     798.     198.   1162.00
      .93     2.97     6.64     3.06     .060     .050     .065     .000  1154.50  1450.00
  .003100     500.     500.     500.        1        0        0      .00   440.00  1890.00
0
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FLOW DISTRIBUTION FOR SECNO=     26.00          CWSEL=   1165.19

STA=    1450.    1461.    1587.    1623.    1679.    1724.    1877.    1890.
  PER Q=      1.4     17.4      3.8     44.1      6.6     25.1      1.7
   AREA=     38.0    415.3    100.3    485.0    161.7    586.5     47.8
    VEL=      2.6      3.1      2.7      6.6      3.0      3.1      2.6

*SECNO 27.000

3470 ENCROACHMENT STATIONS=    1210.0    1620.0  TYPE=     1  TARGET=     410.000
    27.00    10.52  1166.62      .00  1165.64  1166.94      .32     1.37      .01  1163.30
    7000.    1973.    3242.    1785.     686.     547.     622.     818.     203.   1162.70
      .97     2.88     5.93     2.87     .060     .050     .065     .000  1156.10  1210.00
  .002508     480.     490.     500.        2        0        0      .00   410.00  1620.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     27.00          CWSEL=   1166.62

STA=    1210.    1241.    1401.    1467.    1492.    1584.    1620.
  PER Q=      4.6     23.6     46.3      3.8     15.6      6.2
   AREA=    116.6    569.3    546.8     94.0    373.2    154.6
    VEL=      2.8      2.9      5.9      2.8      2.9      2.8

*SECNO 28.000

3470 ENCROACHMENT STATIONS=    1100.0    1540.0  TYPE=     1  TARGET=     440.000
    28.00    11.35  1167.85      .00  1166.90  1168.09      .24     1.14      .01  1164.30
    7000.    3109.    1782.    2109.     909.     321.     793.     840.     208.   1164.10
     1.00     3.42     5.55     2.66     .060     .050     .065     .000  1156.50  1100.00
  .002199     480.     485.     490.        2        0        0      .00   440.00  1540.00
0
FLOW DISTRIBUTION FOR SECNO=     28.00          CWSEL=   1167.85

STA=    1100.    1178.    1188.    1204.    1225.    1306.    1341.    1386.    1475.    1540.
  PER Q=      7.0      2.8     12.0      8.8     13.8     25.5      6.5     14.0      9.6
   AREA=    217.4     58.1    159.2    146.3    328.1    321.0    172.9    360.5    259.6
    VEL=      2.2      3.4      5.3      4.2      3.0      5.6      2.6      2.7      2.6

*SECNO 29.000

3470 ENCROACHMENT STATIONS=     710.0    1100.0  TYPE=     1  TARGET=     390.000
    29.00    11.27  1168.87      .00  1167.98  1169.14      .26     1.04      .01  1164.70
    7000.    2463.    3510.    1027.     789.     691.     510.     864.     213.   1165.50
     1.04     3.12     5.08     2.01     .060     .050     .065     .000  1157.60   710.00
  .001742     540.     540.     510.        2        0        0      .00   390.00  1100.00
0
FLOW DISTRIBUTION FOR SECNO=     29.00          CWSEL=   1168.87

STA=     710.     741.     784.     823.     841.     856.     937.    1100.
  PER Q=      9.4     10.8      5.3      5.2      4.5     50.1     14.7
   AREA=    205.0    235.8    146.7    110.1     91.7    690.8    510.0
    VEL=      3.2      3.2      2.5      3.3      3.4      5.1      2.0

*SECNO 30.000

3470 ENCROACHMENT STATIONS=    1050.0    1440.0  TYPE=     1  TARGET=     390.000
    30.00    11.47  1169.97      .00  1169.11  1170.37      .39     1.19      .04  1166.90
    7000.    2564.    2941.    1495.     785.     433.     492.     886.     218.   1166.70
     1.07     3.27     6.80     3.04     .060     .050     .065     .000  1158.50  1050.00
  .003110     530.     520.     515.        2        0        0      .00   390.00  1440.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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 FLOW DISTRIBUTION FOR SECNO=     30.00          CWSEL=   1169.97

 STA=    1050.    1220.    1262.    1309.    1361.    1440.
   PER Q=     29.8      6.8     42.0      8.4     13.0
    AREA=    635.6    149.0    432.6    191.0    301.5
     VEL=      3.3      3.2      6.8      3.1      3.0

 *SECNO 31.000

 3470 ENCROACHMENT STATIONS=    1350.0    1840.0  TYPE=     1  TARGET=     490.000
     31.00    11.62  1171.32      .00  1170.40  1171.54      .22     1.16      .02  1168.20
     7000.    3127.    2152.    1721.    1164.     395.     647.     908.     222.   1167.60
      1.11     2.69     5.45     2.66     .060     .050     .065     .000  1159.70  1350.00
   .001960     470.     475.     480.        2        0        0      .00   490.00  1840.00
0
 FLOW DISTRIBUTION FOR SECNO=     31.00          CWSEL=   1171.32

 STA=    1350.    1425.    1438.    1467.    1652.    1692.    1740.    1840.
   PER Q=     10.3      2.5      6.1     25.8     30.7      7.5     17.0
    AREA=    280.5     58.5    139.2    685.4    394.7    200.0    447.2
     VEL=      2.6      3.0      3.1      2.6      5.5      2.6      2.7

 *SECNO 32.000

 3470 ENCROACHMENT STATIONS=    1050.0    1500.0  TYPE=     1  TARGET=     450.000
     32.00    11.10  1172.10      .00  1171.12  1172.30      .19      .76      .00  1167.20
     7000.    1866.    3973.    1161.     820.     923.     622.     935.     228.   1168.40
      1.15     2.28     4.30     1.87     .060     .050     .065     .000  1161.00  1050.00
   .001149     515.     515.     510.        2        0        0      .00   450.00  1500.00
0
 FLOW DISTRIBUTION FOR SECNO=     32.00          CWSEL=   1172.10

 STA=    1050.    1153.    1165.    1187.    1235.    1337.    1490.    1500.
   PER Q=     11.0      2.8      5.5      7.3     56.8     15.7       .9
    AREA=    388.1     74.4    137.0    220.1    923.2    582.7     39.2
     VEL=      2.0      2.6      2.8      2.3      4.3      1.9      1.5

 *SECNO 33.000

 3470 ENCROACHMENT STATIONS=    1250.0    1620.0  TYPE=     1  TARGET=     370.000
     33.00    10.76  1172.86      .00  1171.93  1173.27      .41      .91      .06  1169.30
     6700.    2166.    2734.    1800.     625.     393.     586.     958.     233.   1169.80
      1.18     3.47     6.96     3.07     .060     .050     .065     .000  1162.10  1250.00
   .003374     500.     500.     500.        1        0        0      .00   370.00  1620.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     33.00          CWSEL=   1172.86

 STA=    1250.    1304.    1394.    1414.    1457.    1546.    1620.
   PER Q=     10.1     18.6      3.6     40.8     13.7     13.2
    AREA=    202.4    351.6     70.9    392.9    304.2    281.6
     VEL=      3.3      3.5      3.4      7.0      3.0      3.1

 *SECNO 34.000

 3470 ENCROACHMENT STATIONS=     900.0    1290.0  TYPE=     1  TARGET=     390.000
     34.00    10.58  1174.38      .00  1173.48  1174.62      .24     1.33      .02  1170.90
     6700.    2400.    2022.    2277.     744.     368.     819.     978.     237.   1171.00
      1.22     3.23     5.49     2.78     .060     .050     .065     .000  1163.80   900.00
   .002162     500.     500.     500.        2        0        0      .00   390.00  1290.00
0
 FLOW DISTRIBUTION FOR SECNO=     34.00          CWSEL=   1174.38

 STA=     900.     957.     980.     992.    1012.    1056.    1098.    1194.    1204.    1226.    1290.
   PER Q=     14.1      5.5      3.5      5.9      6.9     30.2     14.6      2.7      6.1     10.6
    AREA=    291.8    110.7     65.2    109.9    166.2    368.4    372.9     55.8    122.7    267.8
     VEL=      3.2      3.3      3.5      3.6      2.8      5.5      2.6      3.3      3.3      2.7

 *SECNO 35.000

 3470 ENCROACHMENT STATIONS=    1200.0    1550.0  TYPE=     1  TARGET=     350.000
```

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    35.00    11.08  1175.48      .00  1174.59  1175.79      .31     1.15      .02  1172.20
    6700.    2429.    2377.    1894.     705.     391.     640.     998.     241.   1171.20
     1.25     3.45     6.08     2.96     .060     .050     .065     .000  1164.40  1200.00
  .002576     490.     490.     490.        2        0        0      .00   350.00  1550.00
0
 FLOW DISTRIBUTION FOR SECNO=     35.00          CWSEL=   1175.48

 STA=    1200.    1231.    1283.    1284.    1333.    1351.    1396.    1505.    1550.
   PER Q=      7.1     13.5       .0     12.1      3.5     35.5     20.8      7.5
    AREA=    147.4    251.9       .5    230.0     74.9    391.3    458.1    181.6
     VEL=      3.2      3.6      3.5      3.5      3.2      6.1      3.0      2.8

 *SECNO 36.000

 3470 ENCROACHMENT STATIONS=    1300.0    1670.0  TYPE=     1  TARGET=     370.000
    36.00    11.05  1176.75      .00  1175.83  1177.02      .27     1.22      .00  1173.30
    6700.    3160.    2119.    1421.     972.     364.     500.    1019.     245.   1172.40
     1.28     3.25     5.82     2.84     .060     .050     .065     .000  1165.70  1300.00
  .002325     500.     500.     500.        2        0        0      .00   370.00  1670.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     36.00          CWSEL=   1176.75

 STA=    1300.    1329.    1371.    1455.    1497.    1512.    1552.    1568.    1614.    1645.    1670.
   PER Q=      7.5     10.2     18.2      8.7      2.6     31.6      2.6      9.2      5.9      3.5
    AREA=    154.8    199.8    377.3    181.3     59.3    363.8     62.4    206.9    133.7     97.2
     VEL=      3.2      3.4      3.2      3.2      2.9      5.8      2.8      3.0      3.0      2.4

 *SECNO 37.000

 [illegible] ENCROACHMENT STATIONS=    1280.0    1660.0  TYPE=     1  TARGET=     380.000
    [illegible]37.00    11.18  1177.88      .00  1176.89  1178.14      .26     1.12      .00  1174.80
    6700.    1930.    2511.    2259.     647.     454.     789.    1040.     249.   1174.10
     1.32     2.98     5.54     2.86     .060     .050     .065     .000  1166.70  1280.00
  .002146     500.     500.     500.        2        0        0      .00   380.00  1660.00
0
 FLOW DISTRIBUTION FOR SECNO=     37.00          CWSEL=   1177.88

 STA=    1280.    1285.    1346.    1433.    1485.    1525.    1562.    1572.    1585.    1636.    1660.
   PER Q=       .7     13.9     14.2     37.5      5.9      5.9      3.2      4.2     10.1      4.4
    AREA=     21.8    289.2    336.1    453.5    151.6    147.9     64.5     80.3    232.5    112.0
     VEL=      2.0      3.2      2.8      5.5      2.6      2.7      3.4      3.5      2.9      2.6

 *SECNO 38.000

 3470 ENCROACHMENT STATIONS=    1090.0    1510.0  TYPE=     1  TARGET=     420.000
    38.00    11.02  1178.82      .00  1177.83  1179.01      .19      .87      .01  1175.40
    6700.    2773.    2067.    1860.     873.     445.     859.    1063.     254.   1175.50
     1.36     3.17     4.65     2.16     .060     .050     .065     .000  1167.80  1090.00
  .001532     485.     480.     480.        2        0        0      .00   420.00  1510.00
0
 FLOW DISTRIBUTION FOR SECNO=     38.00          CWSEL=   1178.82

 STA=    1090.    1119.    1139.    1163.    1207.    1233.    1285.    1334.    1510.
   PER Q=      8.0      5.3      6.6     15.9      5.7     30.8      5.7     22.1
    AREA=    183.1    112.4    141.0    305.0    131.9    444.6    178.9    680.6
     VEL=      2.9      3.1      3.2      3.5      2.9      4.6      2.1      2.2

 *SECNO 39.000

 3470 ENCROACHMENT STATIONS=    1320.0    1740.0  TYPE=     1  TARGET=     420.000
    39.00    10.51  1179.71      .00  1178.77  1180.01      .30      .97      .03  1176.30
    6400.    2236.    2404.    1761.     686.     400.     690.    1085.     259.   1175.70
     1.39     3.26     6.01     2.55     .060     .050     .065     .000  1169.20  1320.00
  [illegible]002537     505.     500.     495.        2        0        0      .00   420.00  1740.00
[illegible]
1
  10-31-91     15:03:02                                                                          PAGE   90


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
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   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     39.00          CWSEL=   1179.71

 STA=    1320.    1402.    1421.    1449.    1487.    1534.    1585.    1647.    1740.
   PER Q=     11.7      6.1     10.1      7.0     37.6      7.6      7.8     12.1
    AREA=    275.4    102.3    162.0    146.4    400.1    181.0    200.2    308.8
     VEL=      2.7      3.8      4.0      3.1      6.0      2.7      2.5      2.5

 *SECNO 40.000

 3470 ENCROACHMENT STATIONS=    1280.0    1710.0  TYPE=     1  TARGET=     430.000
     40.00     9.83  1180.93      .00  1179.94  1181.15      .23     1.14      .01  1176.80
     6400.    2751.    2094.    1555.     972.     393.     573.    1107.     264.  1176.20
      1.43     2.83     5.33     2.71     .060     .050     .065     .000  1171.10  1280.00
   .002044     500.     500.     500.        2        0        0      .00   430.00  1710.00
0
 FLOW DISTRIBUTION FOR SECNO=     40.00          CWSEL=   1180.93

 STA=    1280.    1435.    1449.    1461.    1526.    1573.    1614.    1626.    1638.    1665.    1682.    1710.
   PER Q=     21.2      5.1      4.7     12.0     32.7      7.1      3.7      3.8      3.7      3.1      2.9
    AREA=    537.2     88.6     80.2    266.1    393.0    169.1     72.9     74.7     97.2     72.8     85.9
     VEL=      2.5      3.7      3.7      2.9      5.3      2.7      3.3      3.3      2.4      2.7      2.1

 *SECNO 41.000

 3470 ENCROACHMENT STATIONS=    1270.0    1730.0  TYPE=     1  TARGET=     460.000
     41.00     9.36  1181.96      .00  1180.97  1182.17      .21     1.01      .00  1178.40
     6400.    2676.    2290.    1434.     967.     461.     601.    1130.     269.  1178.40
      1.47     2.77     4.97     2.39     .060     .050     .065     .000  1172.60  1270.00
   .001891     515.     515.     515.        2        0        0      .00   460.00  1730.00
0
 FLOW DISTRIBUTION FOR SECNO=     41.00          CWSEL=   1181.96

 STA=    1270.    1331.    1350.    1378.    1429.    1459.    1510.    1569.    1643.    1657.    1692.    1713.    1730.
   PER Q=      8.3      5.8      7.6      6.4      6.9      6.9     35.8      9.8      3.2      4.5      3.3      1.6
    AREA=    218.9    109.2    147.1    170.4    144.2    177.0    461.3    267.1     71.8    123.7     84.6     53.9
     VEL=      2.4      3.4      3.3      2.4      3.1      2.5      5.0      2.3      2.9      2.3      2.5      1.9

 *SECNO 42.000

 3470 ENCROACHMENT STATIONS=    1320.0    1720.0  TYPE=     1  TARGET=     400.000
     42.00     9.79  1183.19      .00  1182.25  1183.46      .27     1.28      .02  1180.60
     6200.    2846.    1811.    1543.     893.     318.     422.    1151.     274.  1180.00
      1.51     3.19     5.70     3.66     .065     .060     .065     .000  1173.40  1320.00
   .003789     495.     495.     495.        2        0        0      .00   400.00  1720.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA  . LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     42.00          CWSEL=   1183.19

 STA=    1320.    1360.    1445.    1480.    1558.    1580.    1620.    1648.    1660.    1681.    1720.
   PER Q=      8.0     17.7      6.4     11.1      2.7     29.2      4.4      4.2      8.6      7.7
    AREA=    153.4    320.8    122.2    234.6     61.4    317.6     89.4     63.4    120.8    147.9
     VEL=      3.2      3.4      3.3      2.9      2.8      5.7      3.1      4.1      4.4      3.2

 *SECNO 43.000

 3470 ENCROACHMENT STATIONS=    1130.0    1550.0  TYPE=     1  TARGET=     420.000
     43.00    10.37  1184.47      .00  1183.48  1184.60      .13     1.13      .01  1181.60
     6200.    2826.    1641.    1733.    1128.     435.     653.    1173.     278.  1180.70
      1.55     2.51     3.77     2.65     .065     .060     .065     .000  1174.10  1130.00
   .001502     500.     500.     490.        2        0        0      .00   420.00  1550.00
0
 FLOW DISTRIBUTION FOR SECNO=     43.00          CWSEL=   1184.47

 STA=    1130.    1159.    1192.    1226.    1257.    1296.    1317.    1336.    1372.    1425.    1459.    1505.    1550.
   PER Q=      3.9      8.5      8.9      5.2      5.5      5.3      4.7      3.7     26.5      8.1     12.9      6.9
    AREA=    113.5    187.7    194.5    137.4    152.4    118.6    106.0    117.8    435.1    184.3    276.4    192.7
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    VEL=      2.1      2.8      2.8      2.3      2.2      2.8      2.8      1.9      3.8      2.7      2.9      2.2

 *SECNO 44.000

 3470 ENCROACHMENT STATIONS=    1410.0    1790.0  TYPE=     1  TARGET=     380.000
    44.00     9.89  1185.49      .00  1184.53  1185.74      .25     1.10      .04  1182.70
    6000.    2658.    1790.    1552.     821.     329.     468.    1195.     283.   1181.80
     1.59     3.24     5.44     3.32     .065     .060     .065     .000  1175.60  1410.00
  .003496     505.     505.     505.        2        0        0      .00   380.00  1790.00
0
 FLOW DISTRIBUTION FOR SECNO=     44.00          CWSEL=   1185.49

 STA=    1410.    1425.    1568.    1629.    1672.    1779.    1790.
   PER Q=      2.9     31.6      9.7     29.8     23.8      2.1
    AREA=     59.9    563.5    197.3    328.7    423.0     45.0
     VEL=      2.9      3.4      3.0      5.4      3.4      2.8

 *SECNO 45.000

 3470 ENCROACHMENT STATIONS=    1490.0    1870.0  TYPE=     1  TARGET=     380.000
    45.00    10.32  1186.92      .00  1185.96  1187.10      .18     1.35      .01  1183.10
    6000.    2133.    1428.    2438.     736.     311.     805.    1215.     287.   1183.10
     1.63     2.90     4.59     3.03     .065     .060     .065     .000  1176.60  1490.00
  .002280     480.     485.     490.        2        0        0      .00   380.00  1870.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     45.00          CWSEL=   1186.92

 STA=    1490.    1532.    1553.    1569.    1598.    1622.    1661.    1698.    1725.    1836.    1870.
   PER Q=      5.7      4.3      3.7      7.7      6.8      7.3     23.8      6.1     28.4      6.1
    AREA=    144.7     89.1     75.0    143.9    124.7    159.0    311.3    120.9    544.0    140.3
     VEL=      2.4      2.9      3.0      3.2      3.3      2.8      4.6      3.0      3.1      2.6

 *SECNO 46.000

 3470 ENCROACHMENT STATIONS=    1430.0    1860.0  TYPE=     1  TARGET=     430.000
    46.00     9.94  1188.04      .00  1187.11  1188.21      .17     1.11      .00  1183.50
    5800.    1481.    1784.    2536.     569.     403.     971.    1237.     292.   1184.30
     1.68     2.60     4.42     2.61     .065     .060     .065     .000  1178.10  1430.00
  .002065     510.     510.     510.        2        0        0      .00   430.00  1860.00
0
 FLOW DISTRIBUTION FOR SECNO=     46.00          CWSEL=   1188.04

 STA=    1430.    1519.    1571.    1620.    1766.    1860.
   PER Q=     14.5     11.0     30.8     26.2     17.6
    AREA=    339.3    229.5    403.3    580.7    390.2
     VEL=      2.5      2.8      4.4      2.6      2.6

 *SECNO 47.000

 3470 ENCROACHMENT STATIONS=    1220.0    1710.0  TYPE=     1  TARGET=     490.000
    47.00    10.06  1189.06      .00  1188.12  1189.21      .15     1.00      .00  1185.20
    5700.    2717.    1578.    1405.    1148.     362.     542.    1260.     297.   1184.50
     1.72     2.37     4.37     2.59     .065     .060     .065     .000  1179.00  1220.00
  .001937     500.     500.     500.        2        0        0      .00   490.00  1710.00
0
 FLOW DISTRIBUTION FOR SECNO=     47.00          CWSEL=   1189.06

 STA=    1220.    1286.    1461.    1541.    1582.    1637.    1710.
   PER Q=      6.1     26.2     15.3     27.7     11.7     12.9
    AREA=    181.3    631.7    334.9    361.6    244.8    297.0
     VEL=      1.9      2.4      2.6      4.4      2.7      2.5

 *SECNO 48.000

    ENCROACHMENT STATIONS=     950.0    1330.0  TYPE=     1  TARGET=     380.000
    48.00     9.71  1190.11      .00  1189.14  1190.29      .18     1.07      .01  1186.80
    5600.    1669.    1266.    2665.     623.     279.     842.    1281.     302.   1187.10
     1.76     2.68     4.54     3.17     .065     .060     .065     .000  1180.40   950.00
  .002433     490.     495.     500.        2        0        0      .00   380.00  1330.00
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     48.00          CWSEL=   1190.11

 STA=     950.    1093.    1116.    1151.    1206.    1259.    1311.    1330.
   PER Q=     25.8      4.0     22.6     13.5     18.5     12.6      3.0
    AREA=    538.4     84.4    278.7    247.9    292.4    231.8     69.5
     VEL=      2.7      2.7      4.5      3.1      3.5      3.1      2.4

 *SECNO 49.000

 3470 ENCROACHMENT STATIONS=     790.0    1150.0  TYPE=     1  TARGET=     360.000
     49.00    10.04  1191.24      .00  1190.29  1191.41      .17     1.12      .00  1187.40
     5400.    1846.    1459.    2095.     690.     329.     732.    1301.     307.  1187.80
      1.81     2.68     4.43     2.86     .065     .060     .065     .000  1181.20   790.00
   .002064     500.     500.     500.        2        0        0      .00   360.00  1150.00
0
 FLOW DISTRIBUTION FOR SECNO=     49.00          CWSEL=   1191.24

 STA=     790.     793.     861.     870.     884.     957.     993.    1051.    1116.    1143.    1150.
   PER Q=       .3     13.8      3.1      4.1     12.8     27.0     14.1     17.3      6.0      1.4
    AREA=     11.9    279.0     52.6     72.0    274.4    329.4    265.7    314.6    115.9     35.8
     VEL=      1.5      2.7      3.2      3.1      2.5      4.4      2.9      3.0      2.8      2.1

 *SECNO 50.000

 3470 ENCROACHMENT STATIONS=     850.0    1240.0  TYPE=     1  TARGET=     390.000
     50.00    10.22  1192.32      .00  1191.36  1192.51      .18     1.09      .00  1188.90
     5400.    1596.    1790.    2014.     617.     386.     735.    1322.     311.  1189.80
      1.85     2.59     4.63     2.74     .065     .060     .065     .000  1182.10   850.00
   .002277     510.     505.     500.        2        0        0      .00   390.00  1240.00
0
 FLOW DISTRIBUTION FOR SECNO=     50.00          CWSEL=   1192.32

 STA=     850.     992.    1016.    1059.    1140.    1240.
   PER Q=     25.2      4.4     33.1     13.8     23.5
    AREA=    527.6     89.4    386.2    291.9    442.8
     VEL=      2.6      2.6      4.6      2.5      2.9

 *SECNO 51.000

 3470 ENCROACHMENT STATIONS=     810.0    1220.0  TYPE=     1  TARGET=     410.000
     51.00     9.75  1193.15      .00  1192.16  1193.26      .11      .74      .01  1189.80
     5200.    1443.    2883.     874.     804.     914.     440.    1344.     315.  1188.40
      1.90     1.80     3.15     1.99     .065     .060     .065     .000  1183.40   810.00
   .001020     490.     500.     520.        2        0        0      .00   410.00  1220.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     51.00          CWSEL=   1193.15

 STA=     810.     898.     990.    1015.    1126.    1186.    1220.
   PER Q=     12.6     12.5      2.7     55.4     11.3      5.6
    AREA=    359.9    359.9     83.7    914.0    283.8    156.0
     VEL=      1.8      1.8      1.7      3.2      2.1      1.9

 *SECNO 52.000

 3470 ENCROACHMENT STATIONS=     780.0    1210.0  TYPE=     1  TARGET=     430.000
     52.00     9.30  1193.80      .00  1192.94  1193.95      .15      .68      .01  1188.00
     5000.    1538.    1050.    2412.     518.     244.     988.    1366.     320.  1188.00
      1.95     2.97     4.30     2.44     .065     .060     .065     .000  1184.50   780.00
   .001943     500.     500.     500.        2        0        0      .00   430.00  1210.00
0
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 FLOW DISTRIBUTION FOR SECNO=     52.00          CWSEL=   1193.80

 STA=     780.     795.     880.     910.    1035.    1125.    1210.
   PER Q=      3.1     27.6     21.0     34.4     10.1      3.7
    AREA=     67.5    450.6    244.0    600.2    252.1    136.1
     VEL=      2.3      3.1      4.3      2.9      2.0      1.4

 *SECNO 53.000

 3470 ENCROACHMENT STATIONS=     780.0    1170.0  TYPE=     1  TARGET=     390.000
     53.00     9.13  1194.73      .00  1193.93  1194.85      .12      .90      .00  1190.90
     5000.    1762.     910.    2328.     662.     267.     938.    1387.     325.   1191.20
      2.00     2.66     3.41     2.48     .065     .060     .065     .000  1185.60   780.00
   .001668     500.     500.     500.        2        0        0      .00   390.00  1170.00
0
 FLOW DISTRIBUTION FOR SECNO=     53.00          CWSEL=   1194.73

 STA=     780.     799.     828.     882.     893.     916.     958.    1028.    1067.    1091.    1140.    1170.
   PER Q=      5.3      8.9      8.7      3.7      8.7     18.2     13.2      8.8      7.6      7.7      9.3
    AREA=    104.4    155.6    196.3     64.8    141.1    266.6    280.9    173.1    134.0    175.2    174.8
     VEL=      2.5      2.9      2.2      2.8      3.1      3.4      2.3      2.5      2.9      2.2      2.7

 *SECNO 54.000

 3470 ENCROACHMENT STATIONS=     930.0    1270.0  TYPE=     1  TARGET=     340.000
     54.00     7.84  1196.04      .00  1195.11  1196.35      .31     1.44      .06  1194.00
     5000.    1324.    1094.    2581.     339.     180.     658.    1405.     329.   1194.00
      2.03     3.91     6.08     3.92     .065     .060     .065     .000  1188.20   930.00
   .006166     500.     500.     500.        2        0        0      .00   340.00  1270.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 DISTRIBUTION FOR SECNO=     54.00          CWSEL=   1196.04

 STA=     930.     972.     993.    1013.    1037.    1064.    1092.    1112.    1131.    1166.    1268.    1270.
   PER Q=     10.5      8.2      5.3      2.5     21.9      7.1      8.3      6.7      7.2     22.1       .2
    AREA=    138.9     87.6     67.2     44.9    180.1     90.2     88.1     75.1     99.8    299.9      5.3
     VEL=      3.8      4.7      4.0      2.7      6.1      3.9      4.7      4.5      3.6      3.7      1.9

 *SECNO 55.000

 3470 ENCROACHMENT STATIONS=    1320.0    1690.0  TYPE=     1  TARGET=     370.000
     55.00     8.52  1198.02      .00  1197.16  1198.18      .16     1.81      .02  1194.70
     4800.    1713.    1029.    2058.     634.     242.     717.    1420.     333.   1194.40
      2.08     2.70     4.26     2.87     .065     .060     .065     .000  1189.50  1320.00
   .002379     495.     495.     495.        1        0        0      .00   370.00  1690.00
0
 FLOW DISTRIBUTION FOR SECNO=     55.00          CWSEL=   1198.02

 STA=    1320.    1475.    1485.    1518.    1641.    1685.    1690.
   PER Q=     33.5      2.1     21.4     30.7     11.4       .8
    AREA=    596.1     37.8    241.5    510.0    187.2     19.7
     VEL=      2.7      2.7      4.3      2.9      2.9      1.9

 *SECNO 56.000

 3470 ENCROACHMENT STATIONS=    1450.0    1880.0  TYPE=     1  TARGET=     430.000
     56.00     8.16  1199.16      .00  1198.18  1199.30      .14     1.12      .00  1193.80
     4800.    1801.    1671.    1328.     760.     422.     535.    1440.     338.   1196.60
      2.12     2.37     3.96     2.48     .065     .060     .065     .000  1191.00  1450.00
   .002065     505.     510.     510.        3        0        0      .00   430.00  1880.00
0
 FLOW DISTRIBUTION FOR SECNO=     56.00          CWSEL=   1199.16

 STA=    1450.    1499.    1561.    1641.    1676.    1739.    1780.    1880.
   PER Q=      5.1      8.0     14.6      9.8     34.8      6.4     21.3
    AREA=    129.0    180.7    287.4    163.2    421.6    134.3    400.3
     VEL=      1.9      2.1      2.4      2.9      4.0      2.3      2.6

 *SECNO 57.000

 3470 ENCROACHMENT STATIONS=    1660.0    2070.0  TYPE=     1  TARGET=     410.000
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    57.00     8.01  1200.31      .00  1199.31  1200.44      .13     1.13      .00  1197.40
    4600.    2023.     612.    1965.     712.     169.     734.    1459.     343.   1197.80
     2.17     2.84     3.62     2.68     .065     .060     .065     .000  1192.30  1660.00
  .002452     510.     505.     500.        2        0        0      .00   410.00  2070.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     57.00          CWSEL=   1200.31

 STA=    1660.    1759.    1806.    1839.    1870.    1921.    2045.    2070.
   PER Q=     19.9     15.5      8.6     13.3      8.7     29.1      4.9
    AREA=    353.4    222.7    135.6    169.0    162.0    480.8     91.6
     VEL=      2.6      3.2      2.9      3.6      2.5      2.8      2.5

 *SECNO 58.000

 3470 ENCROACHMENT STATIONS=    1700.0    2060.0  TYPE=     1  TARGET=     360.000
    58.00     8.48  1201.48      .00  1200.48  1201.64      .16     1.19      .01  1198.00
    4600.    1414.    1342.    1844.     543.     323.     651.    1477.     347.   1198.40
     2.22     2.60     4.16     2.83     .065     .060     .065     .000  1193.00  1700.00
  .002401     490.     490.     490.        2        0        0      .00   360.00  2060.00
0
 FLOW DISTRIBUTION FOR SECNO=     58.00          CWSEL=   1201.48

 STA=    1700.    1805.    1822.    1852.    1901.    1924.    1987.    2060.
   PER Q=     18.9      4.5      7.4     29.2      5.2     17.8     17.1
    AREA=    351.6     71.8    120.0    322.7     87.6    273.5    289.9
     VEL=      2.5      2.9      2.8      4.2      2.7      3.0      2.7

 *SECNO 59.000

 3470 ENCROACHMENT STATIONS=    1690.0    2120.0  TYPE=     1  TARGET=     430.000
    59.00     7.46  1202.66      .00  1201.66  1202.78      .12     1.14      .00  1200.00
    4400.    1816.     896.    1688.     726.     240.     676.    1495.     352.   1200.00
     2.27     2.50     3.73     2.50     .065     .060     .065     .000  1195.20  1690.00
  .002191     490.     495.     500.        1        0        0      .00   430.00  2120.00
0
 FLOW DISTRIBUTION FOR SECNO=     59.00          CWSEL=   1202.66

 STA=    1690.    1757.    1776.    1804.    1865.    1892.    1932.    1950.    1986.    1997.    2031.    2120.
   PER Q=     11.2      4.6      7.3     13.3      4.8     20.4      3.1      7.8      3.2      8.8     15.4
    AREA=    217.5     75.2    116.2    228.4     89.1    240.1     58.8    133.2     49.7    140.7    293.1
     VEL=      2.3      2.7      2.8      2.6      2.4      3.7      2.3      2.6      2.8      2.7      2.3

 *SECNO 60.000

 3470 ENCROACHMENT STATIONS=    1820.0    2220.0  TYPE=     1  TARGET=     400.000
    60.00     7.42  1203.92      .00  1202.98  1204.08      .16     1.29      .01  1201.90
    4400.    1640.    1063.    1697.     596.     245.     589.    1512.     356.   1201.70
     2.31     2.75     4.35     2.88     .065     .060     .065     .000  1196.50  1820.00
  .003097     500.     500.     500.        2        0        0      .00   400.00  2220.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     60.00          CWSEL=   1203.92

 STA=    1820.    1977.    2005.    2046.    2088.    2141.    2153.    2168.    2220.
   PER Q=     33.1      4.2     24.2      6.9     12.8      4.4      5.2      9.4
    AREA=    521.5     74.5    244.6    119.5    189.4     53.9     66.6    159.7
     VEL=      2.8      2.5      4.3      2.5      3.0      3.6      3.4      2.6

 *SECNO 61.000

 3470 ENCROACHMENT STATIONS=    1710.0    2130.0  TYPE=     1  TARGET=     420.000
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    61.00     7.96  1205.26      .00  1204.27  1205.39      .13     1.30      .00  1202.80
    4200.    1972.    1047.    1181.     846.     269.     455.    1529.     361.   1202.80
     2.36     2.33     3.89     2.59     .065     .060     .065     .000  1197.30  1710.00
  .002203     500.     500.     500.        1        0        0      .00   420.00  2130.00
0
 FLOW DISTRIBUTION FOR SECNO=     61.00          CWSEL=   1205.26

 STA=    1710.    1769.    1922.    1972.    2013.    2053.    2068.    2087.    2108.    2121.    2130.
  PER Q=      9.8     29.4      7.7     24.9      9.9      4.0      4.2      4.8      3.1      2.2
   AREA=    185.5    513.4    147.1    269.4    155.0     62.0     69.9     76.8     50.6     40.9
    VEL=      2.2      2.4      2.2      3.9      2.7      2.7      2.5      2.6      2.6      2.3

 *SECNO 62.000

 3470 ENCROACHMENT STATIONS=    1700.0    2120.0  TYPE=     1  TARGET=     420.000
    62.00     7.18  1206.38      .00  1205.39  1206.51      .12     1.12      .00  1204.10
    4200.    1597.     895.    1708.     691.     242.     624.    1547.     366.   1204.10
     2.41     2.31     3.69     2.74     .065     .060     .065     .000  1199.20  1700.00
  .002279     500.     500.     500.        2        0        0      .00   420.00  2120.00
0
 FLOW DISTRIBUTION FOR SECNO=     62.00          CWSEL=   1206.38

 STA=    1700.    1706.    1877.    1922.    1964.    1993.    2016.    2061.    2074.    2099.    2113.    2120.
  PER Q=       .7     30.7      6.6     21.3      9.0      9.0      9.1      2.9      5.7      3.5      1.5
   AREA=     17.5    545.9    127.2    242.3    128.6    116.1    154.5     47.3     91.3     55.2     30.7
    VEL=      1.7      2.4      2.2      3.7      2.9      3.3      2.5      2.6      2.6      2.7      2.1

 *SECNO 63.000

 3470 ENCROACHMENT STATIONS=    1720.0    2130.0  TYPE=     1  TARGET=     410.000
    63.00     6.85  1207.55      .00  1206.64  1207.68      .13     1.17      .00  1204.50
    4000.     945.     975.    2080.     394.     251.     824.    1565.     371.   1205.30
     2.46     2.40     3.89     2.53     .065     .060     .065     .000  1200.70  1720.00
  .002419     500.     500.     500.        2        0        0      .00   410.00  2130.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
            QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     63.00          CWSEL=   1207.55

 STA=    1720.    1772.    1778.    1794.    1844.    1887.    1948.    1975.    2028.    2036.    2048.    2069.    2130.
  PER Q=      9.3      1.7      3.7      8.9     24.4     11.7      5.8      8.0      2.0      2.8      5.0     16.7
   AREA=    160.5     24.7     56.3    152.9    250.8    193.6     91.5    144.0     31.1     42.2     76.4    245.0
    VEL=      2.3      2.7      2.7      2.3      3.9      2.4      2.5      2.2      2.6      2.6      2.6      2.7

 *SECNO 64.000

 3470 ENCROACHMENT STATIONS=    1730.0    2130.0  TYPE=     1  TARGET=     400.000
    64.00     7.66  1208.76      .00  1207.88  1208.89      .13     1.21      .00  1205.60
    4000.    1024.    1017.    1959.     391.     270.     799.    1582.     375.   1206.80
     2.51     2.62     3.77     2.45     .065     .060     .065     .000  1201.10  1730.00
  .002414     500.     500.     500.        2        0        0      .00   400.00  2130.00
0
 FLOW DISTRIBUTION FOR SECNO=     64.00          CWSEL=   1208.76

 STA=    1730.    1741.    1762.    1783.    1837.    1885.    1895.    1912.    1990.    2130.
  PER Q=      2.4      5.9      6.4     10.9     25.4      2.4      5.0     14.1     27.5
   AREA=     43.4     82.9     88.2    176.8    269.9     37.1     69.5    237.6    454.4
    VEL=      2.2      2.9      2.9      2.5      3.8      2.6      2.9      2.4      2.4

 *SECNO 65.000

 3470 ENCROACHMENT STATIONS=    1770.0    2150.0  TYPE=     1  TARGET=     380.000
    65.00     7.17  1210.07      .00  1209.17  1210.23      .16     1.33      .01  1207.40
    4000.    1208.    1132.    1660.     467.     271.     598.    1598.     380.   1208.00
     2.55     2.59     4.18     2.78     .065     .060     .065     .000  1202.90  1770.00
  .002930     500.     500.     500.        2        0        0      .00   380.00  2150.00

 FLOW DISTRIBUTION FOR SECNO=     65.00          CWSEL=   1210.07

 STA=    1770.    1884.    1903.    1922.    1970.    2058.    2067.    2084.    2113.    2140.    2150.
  PER Q=     21.5      4.6      4.0     28.3     14.5      3.3      4.9      8.3      9.0      1.5
   AREA=    341.4     65.5     59.5    270.9    240.6     40.6     65.3    110.3    112.1     28.8
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    VEL=      2.5      2.8      2.7      4.2      2.4      3.3      3.0      3.0      3.2      2.1

 *SECNO 66.000

 3470 ENCROACHMENT STATIONS=    1650.0    2060.0  TYPE=     1  TARGET=     410.000
     66.00     6.76  1211.46      .00  1210.56  1211.59      .13     1.36      .00  1209.70
     4000.    1481.    1007.    1512.     616.     263.     572.    1614.     384.   1208.90
      2.60     2.40     3.83     2.65     .065     .060     .065     .000  1204.70  1650.00
   .002527     500.     500.     500.        2        0        0      .00   410.00  2060.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     66.00          CWSEL=   1211.46

 STA=    1650.    1769.    1806.    1852.    1899.    1936.    1956.    1971.    1980.    2004.    2028.    2060.
   PER Q=     21.9      8.1      7.0     25.2      5.3      4.9      4.0      2.1      5.7      5.7     10.1
    AREA=    366.2    125.0    125.3    262.7     97.2     71.7     58.6     31.4     85.5     86.1    141.1
     VEL=      2.4      2.6      2.2      3.8      2.2      2.7      2.8      2.7      2.6      2.7      2.9

 *SECNO 67.000

 3470 ENCROACHMENT STATIONS=    1620.0    2010.0  TYPE=     1  TARGET=     390.000
     67.00     7.07  1212.77      .00  1211.82  1212.91      .14     1.32      .00  1210.90
     3800.    1742.     821.    1237.     694.     203.     435.    1629.     389.   1210.50
      2.65     2.51     4.04     2.84     .065     .060     .065     .000  1205.70  1620.00
   .002812     495.     495.     495.        2        0        0      .00   390.00  2010.00
0
 FLOW DISTRIBUTION FOR SECNO=     67.00          CWSEL=   1212.77

 STA=    1620.    1731.    1752.    1785.    1796.    1847.    1855.    1889.    1923.    1941.    1958.    1972.    2010.
   PER Q=     19.5      5.2     10.0      2.3      7.9      1.0     21.6      9.6      6.0      5.7      4.5      6.7
    AREA=    312.0     71.4    128.2     33.1    131.4     17.7    203.4    126.0     73.7     69.2     56.7    109.8
     VEL=      2.4      2.8      3.0      2.6      2.3      2.1      4.0      2.9      3.1      3.1      3.0      2.3

 *SECNO 68.000

 3470 ENCROACHMENT STATIONS=    1460.0    1860.0  TYPE=     1  TARGET=     400.000
     68.00     7.13  1214.13      .00  1213.24  1214.25      .13     1.35      .00  1212.00
     3800.    2006.     785.    1009.     792.     205.     391.    1645.     393.   1211.60
      2.70     2.53     3.83     2.58     .065     .060     .065     .000  1207.00  1460.00
   .002581     500.     500.     500.        1        0        0      .00   400.00  1860.00
0
 FLOW DISTRIBUTION FOR SECNO=     68.00          CWSEL=   1214.13

 STA=    1460.    1617.    1634.    1709.    1745.    1758.    1774.    1785.    1798.    1860.
   PER Q=     39.3      3.8      9.7     20.7      3.0      3.9      2.8      3.9     13.0
    AREA=    558.6     55.6    178.2    204.9     44.1     55.5     38.9     51.9    200.7
     VEL=      2.7      2.6      2.1      3.8      2.6      2.7      2.7      2.8      2.5

 *SECNO 69.000

 3470 ENCROACHMENT STATIONS=    1590.0    1960.0  TYPE=     1  TARGET=     370.000
     69.00     6.91  1215.41      .00  1214.53  1215.55      .14     1.29      .00  1212.40
     3800.    1586.     845.    1369.     629.     218.     496.    1661.     398.   1213.20
      2.74     2.52     3.88     2.76     .065     .060     .065     .000  1208.50  1590.00
   .002580     500.     500.     500.        2        0        0      .00   370.00  1960.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     69.00          CWSEL=   1215.41

 STA=    1590.    1612.    1629.    1709.    1735.    1787.    1826.    1844.    1868.    1896.    1911.    1928.    1946.
   PER Q=      3.9      3.7     14.0      6.8     13.4     22.2      3.7      4.7      7.3      5.9      4.9      6.4
    AREA=     64.1     55.6    226.7     95.8    186.7    217.8     56.9     73.5    100.6     71.3     65.5     78.1
```

```
    VEL=      2.3      2.5      2.3      2.7      2.7      3.9      2.5      2.4      2.8      3.2      2.9      3.1
 STA=    1946.    1960.
   PER Q=      3.1
    AREA=     50.3
     VEL=      2.4

 *SECNO 70.000

 3470 ENCROACHMENT STATIONS=    1520.0    1890.0  TYPE=     1  TARGET=     370.000
     70.00     7.63  1216.73      .00  1215.82  1216.88      .15     1.33      .00  1214.20
     3700.    1392.    1040.    1269.     574.     252.     454.    1676.     402.   1214.30
      2.79     2.42     4.12     2.79     .065     .060     .065     .000  1209.10  1520.00
   .002747     500.     500.     500.        1        0        0      .00   370.00  1890.00
0
 FLOW DISTRIBUTION FOR SECNO=     70.00          CWSEL=   1216.73

 STA=    1520.    1646.    1673.    1686.    1721.    1764.    1777.    1795.    1808.    1818.    1875.    1890.
   PER Q=     19.3      6.4      3.3      8.6     28.1      3.1      4.9      6.6      4.7     11.6      3.4
    AREA=    322.1     90.0     44.0    118.0    252.5     43.5     64.7     68.8     52.8    172.0     52.3
     VEL=      2.2      2.6      2.8      2.7      4.1      2.6      2.8      3.5      3.3      2.5      2.4

 *SECNO 71.000

 3470 ENCROACHMENT STATIONS=    1660.0    2020.0  TYPE=     1  TARGET=     360.000
     71.00     7.70  1218.00      .00  1217.10  1218.13      .13     1.25      .00  1215.90
     3700.    1086.    1167.    1447.     461.     310.     576.    1691.     406.   1215.80
      2.84     2.35     3.76     2.51     .065     .060     .065     .000  1210.30  1660.00
   .002280     500.     500.     500.        2        0        0      .00   360.00  2020.00
0
 FLOW DISTRIBUTION FOR SECNO=     71.00          CWSEL=   1218.00

 STA=    1660.    1697.    1770.    1804.    1857.    1912.    1987.    2001.    2020.
   PER Q=      6.4     17.0      5.9     31.5     10.7     19.1      4.3      4.9
    AREA=    110.4    252.5     98.6    310.1    171.4    273.0     56.9     74.7
     VEL=      2.2      2.5      2.2      3.8      2.3      2.6      2.8      2.4

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
     Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 72.000

 3470 ENCROACHMENT STATIONS=    1680.0    2030.0  TYPE=     1  TARGET=     350.000
     72.00     7.43  1219.23      .00  1218.34  1219.40      .17     1.26      .01  1215.50
     3600.    1932.    1283.     385.     730.     295.     182.    1705.     410.   1217.30
      2.88     2.65     4.35     2.11     .065     .060     .065     .000  1211.80  1680.00
   .002802     500.     500.     500.        1        0        0      .00   350.00  2030.00
0
 FLOW DISTRIBUTION FOR SECNO=     72.00          CWSEL=   1219.23

 STA=    1680.    1837.    1873.    1888.    1906.    1952.    2029.    2030.
   PER Q=     33.8      7.4      5.1      7.3     35.6     10.6       .1
    AREA=    481.5    107.6     61.1     79.5    295.0    178.2      4.1
     VEL=      2.5      2.5      3.0      3.3      4.3      2.1      1.2

 *SECNO 73.000

 3470 ENCROACHMENT STATIONS=    1620.0    2000.0  TYPE=     1  TARGET=     380.000
     73.00     7.06  1220.66      .00  1219.71  1220.82      .16     1.41      .00  1218.50
     3600.    1386.    1396.     817.     590.     343.     310.    1720.     414.   1218.50
      2.93     2.35     4.07     2.63     .065     .060     .065     .000  1213.60  1620.00
   .002855     500.     500.     500.        2        0        0      .00   380.00  2000.00
0
 FLOW DISTRIBUTION FOR SECNO=     73.00          CWSEL=   1220.66

 STA=    1620.    1645.    1658.    1669.    1760.    1777.    1796.    1843.    1905.    1933.    1984.    1993.    2000.
   PER Q=      3.3      3.1      2.5     13.0      4.1      5.2      7.3     38.8      5.5     12.5      2.6      2.1
    AREA=     58.2     42.1     34.4    215.7     55.0     67.5    116.7    343.4     79.7    167.3     32.4     30.9
     VEL=      2.0      2.6      2.6      2.2      2.7      2.8      2.3      4.1      2.5      2.7      2.9      2.4

 *SECNO 74.000

 3470 ENCROACHMENT STATIONS=    1640.0    2020.0  TYPE=     1  TARGET=     380.000
     74.00     7.47  1222.17      .00  1221.23  1222.34      .17     1.52      .00  1220.50
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    3600.    1617.    1260.     723.     635.     286.     283.    1734.     419.   1219.80
     2.97     2.55     4.41     2.55     .065     .060     .065     .000  1214.70  1640.00
  .003182     505.     505.     505.        2        0        0      .00   380.00  2020.00
0
 FLOW DISTRIBUTION FOR SECNO=     74.00          CWSEL=   1222.17

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 STA=    1640.    1694.    1710.    1737.    1764.    1780.    1811.    1828.    1870.    1919.    1952.    1981.    2012.
   PER Q=      9.3      3.1      4.2      4.0      4.3      6.9      6.0      7.2     35.0      4.3      4.9      9.0
    AREA=    141.5     43.2     65.2     63.9     53.3     92.7     68.2    107.0    285.7     70.8     73.7    109.4
     VEL=      2.4      2.6      2.3      2.3      2.9      2.7      3.2      2.4      4.4      2.2      2.4      3.0
 STA=    2012.    2020.
   PER Q=      2.0
    AREA=     29.2
     VEL=      2.4

 *SECNO 75.000

 3470 ENCROACHMENT STATIONS=    1470.0    1970.0  TYPE=     1  TARGET=     500.000
     75.00     7.04  1223.54      .00  1222.65  1223.66      .12     1.31      .01  1220.30
     3500.    1910.    1190.     400.     956.     312.     184.    1749.     424.   1221.40
      3.02     2.00     3.81     2.18     .065     .060     .065     .000  1216.50  1470.00
   .002277     490.     490.     490.        2        0        0      .00   500.00  1970.00
0
 FLOW DISTRIBUTION FOR SECNO=     75.00          CWSEL=   1223.54

 STA=    1470.    1551.    1656.    1720.    1784.    1830.    1855.    1907.    1934.    1951.    1966.    1970.
   PER Q=     11.0     13.1      9.7      9.9      6.7      4.2     34.0      3.9      3.6      3.2       .8
    AREA=    198.4    241.2    164.8    167.7    115.2     68.8    312.4     66.6     54.1     47.6     15.4
     VEL=      1.9      1.9      2.1      2.1      2.0      2.1      3.8      2.0      2.3      2.4      1.7

 *SECNO 76.000

 3470 ENCROACHMENT STATIONS=    1620.0    2030.0  TYPE=     1  TARGET=     410.000
     76.00     7.35  1224.85      .00  1224.05  1225.02      .17     1.34      .02  1222.50
     3500.    1597.    1030.     872.     665.     224.     306.    1764.     429.   1222.60
      3.07     2.40     4.61     2.85     .065     .060     .065     .000  1217.50  1620.00
   .003374     490.     490.     490.        2        0        0      .00   410.00  2030.00
0
 FLOW DISTRIBUTION FOR SECNO=     76.00          CWSEL=   1224.85

 STA=    1620.    1639.    1730.    1751.    1788.    1799.    1821.    1862.    1898.    1934.    1956.    1995.    2030.
   PER Q=      2.8      9.7      3.7      6.9      1.2      3.9     10.1      7.3     29.4      3.3     10.7     10.9
    AREA=     45.4    169.0     52.3     96.6     20.6     55.8    125.7     99.2    223.6     49.5    129.1    127.8
     VEL=      2.2      2.0      2.5      2.5      2.0      2.4      2.8      2.6      4.6      2.3      2.9      3.0

 *SECNO 77.000
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=    1400.0    1780.0  TYPE=     1  TARGET=     380.000
     77.00     7.43  1226.23      .00  1225.28  1226.37      .14     1.35      .00  1224.30
     3400.     867.    1790.     744.     447.     486.     348.    1778.     434.   1224.30
      3.11     1.94     3.68     2.14     .065     .060     .065     .000  1218.80  1400.00
   .002123     510.     510.     505.        2        0        0      .00   380.00  1780.00
0
 FLOW DISTRIBUTION FOR SECNO=     77.00          CWSEL=   1226.23

 STA=    1400.    1460.    1531.    1578.    1660.    1685.    1705.    1717.    1731.    1773.    1779.    1780.
   PER Q=      7.5     11.5      6.5     52.6      3.0      3.1      2.9      3.5      7.5      1.8       .2
    AREA=    140.6    192.0    114.4    486.1     55.8     52.6     41.1     48.7    120.6     23.6      5.9
     VEL=      1.8      2.0      1.9      3.7      1.8      2.0      2.4      2.4      2.1      2.5      1.0
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*SECNO 78.000

3470 ENCROACHMENT STATIONS=    1500.0    1880.0  TYPE=     1  TARGET=     380.000
    78.00     7.88  1227.58      .00  1226.66  1227.78      .20     1.39      .02  1225.80
    3400.    1197.    1368.     836.     490.     291.     331.    1792.     438.   1225.60
     3.16     2.44     4.70     2.53     .065     .060     .065     .000  1219.70  1500.00
   03541      515.     515.     515.        2        0        0      .00   380.00  1880.00
0
 FLOW DISTRIBUTION FOR SECNO=     78.00          CWSEL=   1227.58

 STA=    1500.    1617.    1634.    1683.    1704.    1752.    1866.    1880.
   PER Q=     18.2      3.8     10.4      2.8     40.2     21.4      3.1
    AREA=    265.8     48.7    132.6     43.3    290.9    288.3     42.5
     VEL=      2.3      2.7      2.7      2.2      4.7      2.5      2.5

*SECNO 79.000

3470 ENCROACHMENT STATIONS=    1460.0    1850.0  TYPE=     1  TARGET=     390.000
    79.00     7.95  1229.05      .00  1228.14  1229.17      .12     1.38      .01  1225.80
    3300.    1536.     951.     812.     695.     244.     378.    1806.     443.   1226.50
     3.21     2.21     3.89     2.15     .065     .060     .065     .000  1221.10  1460.00
  .002125     505.     510.     520.        1        0        0      .00   390.00  1850.00
0
 FLOW DISTRIBUTION FOR SECNO=     79.00          CWSEL=   1229.05

 STA=    1460.    1505.    1590.    1687.    1723.    1738.    1761.    1850.
   PER Q=      7.8     17.4     21.4     28.8      3.0      5.2     16.4
    AREA=    127.7    258.7    308.8    244.5     45.2     74.6    257.8
     VEL=      2.0      2.2      2.3      3.9      2.2      2.3      2.1

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


NO 80.000

3470 ENCROACHMENT STATIONS=    1380.0    1760.0  TYPE=     1  TARGET=     380.000
    80.00     8.34  1230.04      .00  1229.17  1230.17      .12     1.00      .00  1226.90
    3300.    1119.    1104.    1076.     560.     291.     474.    1821.     447.   1225.60
     3.26     2.00     3.79     2.27     .065     .060     .065     .000  1221.70  1380.00
  .001931     490.     495.     495.        2        0        0      .00   380.00  1760.00
0
 FLOW DISTRIBUTION FOR SECNO=     80.00          CWSEL=   1230.04

 STA=    1380.    1577.    1620.    1643.    1671.    1708.    1715.    1730.    1760.    1760.
   PER Q=     33.9     33.5      6.5      6.5      7.6      2.1      4.3      5.7       .0
    AREA=    560.0    291.1     86.4     94.9    115.9     28.4     58.0     89.1       .9
     VEL=      2.0      3.8      2.5      2.2      2.2      2.4      2.5      2.1       .4

*SECNO 81.000

3470 ENCROACHMENT STATIONS=    1580.0    1930.0  TYPE=     1  TARGET=     350.000
    81.00     7.46  1231.16      .00  1230.29  1231.30      .14     1.13      .00  1228.80
    3200.     883.    1048.    1269.     350.     271.     539.    1836.     451.   1229.20
     3.31     2.52     3.87     2.36     .065     .060     .065     .000  1223.70  1580.00
  .002617     510.     505.     500.        2        0        0      .00   350.00  1930.00
0
 FLOW DISTRIBUTION FOR SECNO=     81.00          CWSEL=   1231.16

 STA=    1580.    1610.    1629.    1638.    1651.    1668.    1692.    1740.    1790.    1826.    1858.    1900.    1918.
   PER Q=      4.6      4.3      3.7      4.3      4.4      6.3     32.7      6.7      9.1      8.4      6.4      5.4
    AREA=     71.8     57.4     38.4     49.6     55.4     77.4    270.8    109.2    114.2    104.3     99.1     64.9
     VEL=      2.0      2.4      3.1      2.8      2.6      2.6      3.9      2.0      2.5      2.6      2.1      2.7
 STA=    1918.    1930.
   PER Q=      3.7
    AREA=     47.2
     VEL=      2.5

NO 82.000

3470 ENCROACHMENT STATIONS=    1760.0    2070.0  TYPE=     1  TARGET=     310.000
    82.00     9.07  1232.47      .00  1231.61  1232.65      .18     1.34      .01  1229.90
    3200.    1136.    1301.     764.     453.     292.     333.    1849.     455.   1230.80
     3.35     2.51     4.45     2.29     .065     .060     .065     .000  1223.40  1760.00
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   .002707     510.     505.     500.        2        0        0      .00   310.00  2070.00
0
1
  10-31-91     15:03:02                                                                          PAGE  105

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=     82.00          CWSEL=   1232.47

 STA=    1760.    1789.    1868.    1906.    1948.    1997.    2070.
   PER Q=      6.3     20.7      8.5     40.6      7.8     16.0
    AREA=     86.5    255.0    111.2    292.4    118.2    215.0
     VEL=      2.3      2.6      2.5      4.4      2.1      2.4

 *SECNO 83.000

 3470 ENCROACHMENT STATIONS=    1660.0    1900.0  TYPE=     1  TARGET=     240.000
     83.00     9.30  1233.70      .00  1232.86  1233.86      .16     1.20      .00  1229.60
     3100.    1015.    1152.     933.     424.     286.     342.    1861.     458.  1228.80
      3.40     2.40     4.02     2.73     .065     .060     .065     .000  1224.40  1660.00
   .002098     505.     505.     510.        2        0        0      .00   240.00  1900.00
0
 FLOW DISTRIBUTION FOR SECNO=     83.00          CWSEL=   1233.70

 STA=    1660.    1779.    1821.    1854.    1900.
   PER Q=     32.7     37.2     14.9     15.2
    AREA=    423.7    286.5    156.3    185.6
     VEL=      2.4      4.0      3.0      2.5

 *SECNO 84.000

 3470 ENCROACHMENT STATIONS=    1620.0    1850.0  TYPE=     1  TARGET=     230.000
     84.00     8.52  1234.92      .00  1234.09  1235.17      .25     1.28      .03  1231.80
     3100.     764.    1765.     571.     301.     363.     208.    1872.     461.  1233.40
      3.43     2.54     4.86     2.75     .065     .060     .065     .000  1226.40  1620.00
   .003279     495.     495.     495.        1        0        0      .00   230.00  1850.00
0
 FLOW DISTRIBUTION FOR SECNO=     84.00          CWSEL=   1234.92

 STA=    1620.    1729.    1784.    1796.    1841.    1850.
   PER Q=     24.7     56.9      2.2     14.0      2.2
    AREA=    300.9    363.3     29.0    149.5     29.2
     VEL=      2.5      4.9      2.4      2.9      2.3

 *SECNO 85.000

 3470 ENCROACHMENT STATIONS=    1600.0    1840.0  TYPE=     1  TARGET=     240.000
     85.00     8.22  1236.42      .00  1235.56  1236.62      .21     1.45      .00  1233.70
     3100.     522.    1915.     663.     227.     447.     280.    1882.     464.  1233.30
      3.47     2.30     4.28     2.37     .065     .060     .065     .000  1228.20  1600.00
   .002573     500.     500.     500.        2        0        0      .00   240.00  1840.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=     85.00          CWSEL=   1236.42

 STA=    1600.    1614.    1679.    1746.    1821.    1840.
   PER Q=      2.8     14.1     61.8     17.7      3.7
    AREA=     40.9    186.5    447.2    226.4     53.7
     VEL=      2.1      2.3      4.3      2.4      2.1

 *SECNO 86.000

 3470 ENCROACHMENT STATIONS=    1310.0    1600.0  TYPE=     1  TARGET=     290.000
     86.00     7.56  1237.96      .00  1237.06  1238.14      .18     1.51      .00  1235.20
     3000.     639.     792.    1569.     236.     175.     538.    1893.     467.  1234.10
      3.51     2.71     4.53     2.92     .065     .060     .065     .000  1230.40  1310.00
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   .003621     500.     500.     500.        2        0        0      .00   290.00  1600.00
0
 FLOW DISTRIBUTION FOR SECNO=     86.00          CWSEL=   1237.96

 STA=    1310.    1340.    1351.    1363.    1372.    1397.    1428.    1479.    1567.    1600.
   PER Q=      4.5      2.8      4.9      2.9      6.2     26.4     17.4     25.6      9.4
    AREA=     62.7     30.6     44.6     29.5     68.2    174.9    169.0    267.3    101.7
     VEL=      2.2      2.8      3.3      3.0      2.7      4.5      3.1      2.9      2.8

 *SECNO 87.000

 3470 ENCROACHMENT STATIONS=    1430.0    1770.0  TYPE=     1  TARGET=     340.000
    87.00     6.39  1239.69      .00  1238.77  1239.85      .16     1.71      .00  1237.70
    3000.     480.    1306.    1215.     230.     332.     473.    1905.     470.   1236.70
     3.56     2.09     3.93     2.57     .065     .060     .065     .000  1233.30  1430.00
   .003171     500.     505.     505.        2        0        0      .00   340.00  1770.00
0
 FLOW DISTRIBUTION FOR SECNO=     87.00          CWSEL=   1239.69

 STA=    1430.    1458.    1474.    1492.    1540.    1605.    1706.    1770.
   PER Q=      3.4      2.5      3.4      6.7     43.5     25.4     15.1
    AREA=     53.1     35.0     44.9     96.6    331.9    291.7    181.0
     VEL=      1.9      2.2      2.3      2.1      3.9      2.6      2.5

 *SECNO 88.000

 3470 ENCROACHMENT STATIONS=    1520.0    1940.0  TYPE=     1  TARGET=     420.000
    88.00     5.95  1241.45      .00  1240.51  1241.60      .15     1.75      .00  1239.10
    3000.    1078.     812.    1109.     426.     188.     461.    1917.     475.   1239.40
     3.61     2.53     4.33     2.41     .065     .060     .065     .000  1235.50  1520.00
   .003842     505.     505.     500.        1        0        0      .00   420.00  1940.00
0
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=     88.00          CWSEL=   1241.45

 STA=    1520.    1601.    1696.    1734.    1780.    1791.    1810.    1911.    1940.
   PER Q=     17.3     18.6     27.1      7.3      2.2      4.0     18.3      5.2
    AREA=    202.8    223.0    187.6     95.5     26.1     46.7    226.3     66.2
     VEL=      2.6      2.5      4.3      2.3      2.5      2.6      2.4      2.3

 *SECNO 89.000

 3470 ENCROACHMENT STATIONS=    1560.0    1850.0  TYPE=     1  TARGET=     290.000
    89.00     6.33  1243.13      .00  1242.20  1243.30      .17     1.69      .01  1240.40
    2900.    1021.     768.    1112.     382.     171.     408.    1928.     479.   1240.20
     3.65     2.67     4.48     2.73     .065     .055     .065     .000  1236.80  1560.00
   .003107     490.     490.     490.        1        0        0      .00   290.00  1850.00
0
 FLOW DISTRIBUTION FOR SECNO=     89.00          CWSEL=   1243.13

 STA=    1560.    1571.    1584.    1595.    1607.    1691.    1723.    1768.    1850.
   PER Q=      1.3      4.5      6.9      4.6     17.9     26.5     13.2     25.1
    AREA=     21.3     45.7     53.8     44.6    216.3    171.3    140.6    267.1
     VEL=      1.8      2.9      3.7      3.0      2.4      4.5      2.7      2.7

 *SECNO 90.000

 3470 ENCROACHMENT STATIONS=    1550.0    1840.0  TYPE=     1  TARGET=     290.000
    90.00     8.14  1244.54      .00  1243.62  1244.76      .22     1.45      .02  1241.40
    2900.     822.    1516.     561.     342.     320.     278.    1939.     482.   1242.30
     3.69     2.41     4.74     2.02     .065     .055     .065     .000  1236.40  1550.00
   .002717     500.     500.     495.        2        0        0      .00   290.00  1840.00
0
 FLOW DISTRIBUTION FOR SECNO=     90.00          CWSEL=   1244.54

    1550.    1666.    1716.    1826.    1840.
   PER Q=     28.4     52.3     17.3      2.1
    AREA=    341.7    320.2    245.7     32.2
     VEL=      2.4      4.7      2.0      1.9

 *SECNO 91.000
```

```
3470 ENCROACHMENT STATIONS=    1690.0    1970.0  TYPE=     1  TARGET=     280.000
    91.00     6.97  1246.07      .00  1245.12  1246.23      .17     1.47      .01  1242.80
    2900.    1194.     924.     783.     422.     216.     305.    1950.     485.   1243.80
     3.73     2.83     4.29     2.57     .065     .055     .065     .000  1239.10  1690.00
  .003200     500.     500.     500.        2        0        0      .00   280.00  1970.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=     91.00          CWSEL=   1246.07

 STA=    1690.    1708.    1728.    1757.    1785.    1806.    1818.    1863.    1917.    1956.    1970.
   PER Q=      5.8      7.3      7.6      9.3      7.3      3.9     31.9     12.9     11.1      2.9
    AREA=     62.2     71.4     83.4     93.8     71.7     39.8    215.6    147.4    119.4     37.8
     VEL=      2.7      3.0      2.6      2.9      3.0      2.8      4.3      2.5      2.7      2.2

 *SECNO 92.000

 3470 ENCROACHMENT STATIONS=    1690.0    1990.0  TYPE=     1  TARGET=     300.000
    92.00     6.35  1247.45      .00  1246.45  1247.57      .13     1.34      .00  1244.70
    2900.    1426.     826.     647.     590.     221.     267.    1962.     489.   1244.50
     3.78     2.42     3.74     2.43     .065     .055     .065     .000  1241.10  1690.00
  .002264     500.     500.     500.        2        0        0      .00   300.00  1990.00
0
 FLOW DISTRIBUTION FOR SECNO=     92.00          CWSEL=   1247.45

 STA=    1690.    1729.    1745.    1801.    1826.    1870.    1914.    1967.    1982.    1990.
   PER Q=      8.1      5.4     20.6      6.2      8.9     28.5     12.9      6.0      3.4
    AREA=    111.5     60.6    220.3     77.4    120.6    221.0    164.0     61.5     41.1
     VEL=      2.1      2.6      2.7      2.3      2.1      3.7      2.3      2.9      2.4

 *SECNO 93.000

 3470 ENCROACHMENT STATIONS=    1600.0    1920.0  TYPE=     1  TARGET=     320.000
    93.00     6.35  1248.65      .00  1247.69  1248.79      .14     1.21      .00  1245.80
    2900.    1093.     810.     998.     459.     193.     402.    1974.     492.   1246.00
     3.83     2.38     4.20     2.48     .065     .055     .065     .000  1242.30  1600.00
  .002613     500.     500.     500.        2        0        0      .00   320.00  1920.00
0
 FLOW DISTRIBUTION FOR SECNO=     93.00          CWSEL=   1248.65

 STA=    1600.    1755.    1789.    1801.    1835.    1895.    1920.    1920.
   PER Q=     37.7     27.9      3.5     10.3     12.2      8.3       .0
    AREA=    458.7    192.9     39.6    114.3    158.5     87.9      1.8
     VEL=      2.4      4.2      2.6      2.6      2.2      2.7       .6

 *SECNO 94.000

 3470 ENCROACHMENT STATIONS=    1610.0    1890.0  TYPE=     1  TARGET=     280.000
    94.00     6.36  1250.16      .00  1249.27  1250.36      .20     1.55      .02  1247.60
    2800.    1149.     823.     828.     383.     170.     321.    1985.     496.   1247.50
     3.87     3.00     4.85     2.58     .065     .055     .065     .000  1243.80  1610.00
  .003751     500.     500.     500.        2        0        0      .00   280.00  1890.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=     94.00          CWSEL=   1250.16

 STA=    1610.    1711.    1729.    1762.    1793.    1803.    1819.    1890.
   PER Q=     35.1      5.9     29.4      6.7      3.5      5.5     13.8
    AREA=    326.5     56.9    169.8     74.3     33.2     50.5    162.7
     VEL=      3.0      2.9      4.8      2.5      3.0      3.1      2.4

 *SECNO 95.000
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3470 ENCROACHMENT STATIONS=    1720.0    1990.0  TYPE=     1  TARGET=     270.000
    95.00     7.55  1251.55      .00  1250.63  1251.69      .14     1.33      .01  1248.40
    2800.    1246.     897.     656.     504.     225.     312.    1996.     499.   1247.80
     3.92     2.47     3.99     2.10     .065     .055     .065     .000  1244.00  1720.00
  .001974     500.     500.     500.        2        0        0      .00   270.00  1990.00

 FLOW DISTRIBUTION FOR SECNO=     95.00          CWSEL=   1251.55

 STA=    1720.    1734.    1741.    1772.    1787.    1802.    1853.    1889.    1927.    1960.    1990.
   PER Q=     3.4      3.0     11.4      8.1      7.0     11.6     32.0      9.6      6.6      7.3
    AREA=    47.5     31.8    123.5     77.7     69.1    154.2    225.0    121.6     92.2     98.2
     VEL=     2.0      2.7      2.6      2.9      2.8      2.1      4.0      2.2      2.0      2.1

 *SECNO 96.000

 3470 ENCROACHMENT STATIONS=    1700.0    1960.0  TYPE=     1  TARGET=     260.000
    96.00     5.92  1252.92      .00  1252.06  1253.10      .18     1.40      .01  1250.90
    2800.    1360.     579.     861.     432.     133.     269.    2007.     502.   1250.50
     3.96     3.15     4.36     3.20     .065     .055     .065     .000  1247.00  1700.00
   .004154     505.     505.     505.        2        0        0      .00   260.00  1960.00
0
 FLOW DISTRIBUTION FOR SECNO=     96.00          CWSEL=   1252.92

 STA=    1700.    1707.    1721.    1757.    1767.    1794.    1841.    1874.    1898.    1917.    1959.    1960.
   PER Q=     3.2      6.8     11.9      6.1     12.7      8.0     20.7      4.6      7.3     18.7       .1
    AREA=    30.5     53.0    108.0     44.5    101.1     94.8    132.7     52.2     63.7    151.2      2.1
     VEL=     2.9      3.6      3.1      3.8      3.5      2.4      4.4      2.5      3.2      3.5      1.1

 *SECNO 97.000

 3470 ENCROACHMENT STATIONS=    1860.0    2120.0  TYPE=     1  TARGET=     260.000
    97.00     6.05  1254.75      .00  1253.78  1254.92      .17     1.82      .00  1251.20
    2800.    1412.     708.     681.     485.     157.     252.    2017.     505.   1252.60
     4.00     2.91     4.50     2.71     .065     .055     .065     .000  1248.70  1860.00
   .003272     495.     495.     495.        2        0        0      .00   260.00  2120.00
0
1
  10-31-91     15:03:02                                                                          PAGE  110

    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=     97.00          CWSEL=   1254.75

 STA=    1860.    1885.    1901.    1924.    1959.    1991.    2007.    2037.    2062.    2078.    2120.
   PER Q=     6.8      7.2     12.1     12.5      7.7      4.2     25.3      8.0      6.0     10.3
    AREA=    75.2     62.3     98.5    118.2     86.0     44.4    157.4     79.2     55.3    117.0
     VEL=     2.5      3.3      3.4      3.0      2.5      2.6      4.5      2.8      3.0      2.5

 *SECNO 98.000

 3470 ENCROACHMENT STATIONS=    1910.0    2210.0  TYPE=     1  TARGET=     300.000
    98.00     6.88  1256.28      .00  1255.32  1256.43      .15     1.50      .00  1253.70
    2800.    1204.     695.     901.     477.     158.     362.    2028.     508.   1253.50
     4.05     2.52     4.40     2.49     .065     .055     .065     .000  1249.40  1910.00
   .002772     500.     500.     500.        2        0        0      .00   300.00  2210.00
0
 FLOW DISTRIBUTION FOR SECNO=     98.00          CWSEL=   1256.28

 STA=    1910.    1931.    1946.    1960.    2019.    2064.    2090.    2121.    2132.    2148.    2193.    2203.    2210.
   PER Q=     5.6      4.3      5.2     14.8     13.2     24.8      7.0      4.3      5.8      8.7      3.8      2.5
    AREA=    67.1     45.8     51.8    170.2    142.4    157.9     83.9     41.9     57.0    110.9     38.4     29.4
     VEL=     2.3      2.6      2.8      2.4      2.6      4.4      2.3      2.9      2.8      2.2      2.8      2.4

 *SECNO 99.000

 3470 ENCROACHMENT STATIONS=    1740.0    2040.0  TYPE=     1  TARGET=     300.000
    99.00     6.99  1257.79      .00  1256.81  1257.95      .16     1.52      .00  1255.00
    2800.    1243.     670.     887.     460.     151.     337.    2039.     511.   1255.70
     4.09     2.70     4.43     2.63     .065     .055     .065     .000  1250.80  1740.00
   .003244     505.     510.     510.        1        0        0      .00   300.00  2040.00
0
 FLOW DISTRIBUTION FOR SECNO=     99.00          CWSEL=   1257.79

 STA=    1740.    1780.    1803.    1819.    1830.    1858.    1867.    1881.    1897.    1925.    1950.    1961.    2029.
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  PER Q=      6.7      6.3      3.8      5.1      8.6      4.2      5.9      3.9     23.9      6.2      4.7     16.5
   AREA=     88.8     65.6     42.7     44.4     87.1     35.6     52.4     42.9    151.1     67.3     42.9    183.5
    VEL=      2.1      2.7      2.5      3.2      2.8      3.3      3.1      2.6      4.4      2.6      3.1      2.5
 STA=    2029.    2040.
  PER Q=      4.2
   AREA=     43.8
    VEL=      2.7

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 100.000

 3470 ENCROACHMENT STATIONS=    1860.0    2180.0  TYPE=     1  TARGET=     320.000
    100.00     6.94  1259.14      .00  1258.13  1259.24      .11     1.29      .01  1256.30
     2700.    1063.     608.    1028.     503.     179.     401.    2051.     515.   1256.50
      4.15     2.11     3.41     2.56     .065     .055     .065     .000  1252.20  1860.00
   .002044     510.     505.     500.        2        0        0      .00   320.00  2180.00
0
 FLOW DISTRIBUTION FOR SECNO=    100.00          CWSEL=   1259.14

 STA=    1860.    1862.    1928.    1944.    1959.    2005.    2030.    2043.    2080.    2093.    2129.    2180.
   PER Q=      .2      7.3      3.7      4.1      9.7      9.8      4.7     22.5      2.6     13.8     21.6
    AREA=     4.7    124.7     46.9     48.6    127.4    101.3     49.8    178.5     35.3    143.5    222.4
     VEL=     1.1      1.6      2.1      2.3      2.0      2.6      2.5      3.4      2.0      2.6      2.6

 *SECNO 101.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1900.0    2350.0  TYPE=     1  TARGET=     450.000
    101.00     6.70  1260.30      .00  1259.40  1260.44      .14     1.19      .01  1258.30
     2700.    1606.     639.     454.     612.     155.     179.    2062.     519.   1258.70
      4.19     2.63     4.11     2.54     .065     .055     .065     .000  1253.60  1900.00
   .002927     490.     490.     490.        2        0        0      .00   316.09  2350.00
0
 FLOW DISTRIBUTION FOR SECNO=    101.00          CWSEL=   1260.30

 STA=    1900.    1931.    1957.    2039.    2060.    2102.    2176.    2190.    2258.    2289.    2321.    2346.    2350.
   PER Q=      5.5      1.7      4.9     18.2     11.5       .1      2.3     15.3     23.7      5.3     10.3      1.2
    AREA=     71.4     32.5     52.7    120.8    124.2      2.9     30.5    176.9    155.5     69.3     93.8     16.0
     VEL=      2.1      1.4      2.5      4.1      2.5       .8      2.0      2.3      4.1      2.1      3.0      2.0

 *SECNO 102.000

 3470 ENCROACHMENT STATIONS=    1880.0    2330.0  TYPE=     1  TARGET=     450.000
    102.00     5.49  1261.59      .00  1260.97  1261.68      .08     1.23      .01  1259.40
     2700.    1786.     505.     409.     893.     154.     189.    2075.     523.   1259.60
      4.26     2.00     3.27     2.16     .065     .055     .065     .000  1256.10  1880.00
   .002084     500.     500.     500.        2        0        0      .00   450.00  2330.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    102.00          CWSEL=   1261.59

 STA=    1880.    1921.    1934.    1950.    1963.    1995.    2027.    2105.    2141.    2160.    2204.    2233.    2268.
   PER Q=      4.7      3.2      6.9      4.2      6.1      4.1      9.1      5.5      5.0     12.2      5.0     18.7
    AREA=     80.6     39.0     68.3     46.8     83.0     66.2    151.9     82.3     60.3    142.6     71.8    154.4
     VEL=      1.6      2.2      2.7      2.4      2.0      1.7      1.6      1.8      2.2      2.3      1.9      3.3
 STA=    2268.    2312.    2323.    2330.
   PER Q=     11.3      3.0       .9
    AREA=    137.3     36.0     16.0
     VEL=      2.2      2.3      1.5
```

```
*SECNO 103.000

3470 ENCROACHMENT STATIONS=    2050.0    2330.0  TYPE=     1  TARGET=     280.000
   103.00     4.94  1262.94      .00  1262.35  1263.12      .18     1.42      .03  1260.90
    2700.    1535.     926.     239.     504.     232.      84.    2086.     527.   1261.60
     4.30     3.04     4.00     2.84     .060     .060     .060     .000  1258.00  2050.00
   004164     495.     495.     495.        2        0        0      .00   280.00  2330.00
0
 FLOW DISTRIBUTION FOR SECNO=    103.00          CWSEL=   1262.94

 STA=    2050.    2092.    2128.    2136.    2149.    2186.    2240.    2298.    2317.    2330.
   PER Q=     12.1      9.8      2.4      4.1     10.8     17.7     34.3      4.5      4.3
    AREA=    110.4     89.7     21.5     36.2     95.6    150.7    231.7     44.6     39.6
     VEL=      3.0      2.9      3.0      3.0      3.1      3.2      4.0      2.7      3.0

 *SECNO 104.000

 3470 ENCROACHMENT STATIONS=    2030.0    2350.0  TYPE=     1  TARGET=     320.000
   104.00     5.14  1264.94      .00  1263.94  1265.07      .13     1.95      .00  1262.10
    2700.    1052.     855.     793.     396.     274.     257.    2097.     531.   1262.10
     4.35     2.66     3.12     3.09     .060     .060     .060     .000  1259.80  2030.00
  .003370     525.     520.     515.        2        0        0      .00   320.00  2350.00
0
 FLOW DISTRIBUTION FOR SECNO=    104.00          CWSEL=   1264.94

 STA=    2030.    2075.    2187.    2272.    2325.    2340.    2350.
   PER Q=      8.9     30.1     31.7     17.7      7.1      4.6
    AREA=    100.1    295.7    273.9    159.8     55.0     41.9
     VEL=      2.4      2.7      3.1      3.0      3.5      3.0

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


   NO 105.000

 3470 ENCROACHMENT STATIONS=    2050.0    2390.0  TYPE=     1  TARGET=     340.000
   105.00     4.49  1266.29      .00  1265.46  1266.39      .10     1.31      .00  1264.10
    2700.     200.    2457.      43.     102.     967.      23.    2108.     535.   1263.50
     4.40     1.96     2.54     1.86     .060     .060     .060     .000  1261.80  2050.00
  .002105     500.     500.     500.        3        0        0      .00   340.00  2390.00
0
 FLOW DISTRIBUTION FOR SECNO=    105.00          CWSEL=   1266.29

 STA=    2050.    2061.    2069.    2093.    2382.    2390.
   PER Q=      2.3      1.6      3.5     91.0      1.6
    AREA=     31.0     20.2     50.9    967.3     23.4
     VEL=      2.0      2.2      1.9      2.5      1.9

 *SECNO 106.000

 3470 ENCROACHMENT STATIONS=    2100.0    2380.0  TYPE=     1  TARGET=     280.000
   106.00     4.11  1267.81      .00  1267.12  1268.00      .19     1.58      .03  1265.40
    2700.       1.    2699.       0.       1.     768.       0.    2119.     538. 100000.00
     4.44      .88     3.51      .00     .060     .060     .060     .000  1263.70  2100.00
  .005309     495.     500.     500.        2        0        0      .00   280.00  2380.00
0
 FLOW DISTRIBUTION FOR SECNO=    106.00          CWSEL=   1267.81

 STA=    2100.    2100.    2391.
   PER Q=       .0    100.0
    AREA=      1.0    768.4
     VEL=       .9      3.5

 *SECNO 107.000

 3470 ENCROACHMENT STATIONS=    1720.0    2100.0  TYPE=     1  TARGET=     380.000
   107.00     4.35  1269.55      .00  1268.58  1269.64      .09     1.63      .01  1267.40
    2700.     862.    1461.     377.     379.     573.     155.    2129.     542.   1267.60
     4.50     2.27     2.55     2.43     .060     .060     .060     .000  1265.20  1720.00
  .002318     480.     485.     490.        1        0        0      .00   380.00  2100.00
0
 FLOW DISTRIBUTION FOR SECNO=    107.00          CWSEL=   1269.55
```

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STA=    1720.    1726.    1752.    1770.    1780.    1803.    1865.    2048.    2083.    2098.    2100.
  PER Q=      1.1      8.0      4.9      2.7      5.5      9.8     54.1      9.1      4.7       .2
   AREA=     16.1     84.4     52.7     30.1     63.2    132.7    573.2    101.7     49.4      3.9
    VEL=      1.8      2.6      2.5      2.4      2.3      2.0      2.5      2.4      2.6      1.2

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 108.000

 3470 ENCROACHMENT STATIONS=    1680.0    2030.0  TYPE=     1  TARGET=     350.000
    108.00     4.90  1270.90      .00  1270.01  1271.02      .12     1.37      .01100000.00
     2700.       0.    2399.     301.       0.     875.     107.    2142.     546.   1268.60
      4.55      .00     2.74     2.82     .060     .060     .060     .000  1266.00  1680.00
   .003192     540.     500.     500.        3        0        0      .00   350.00  2030.00
0
 FLOW DISTRIBUTION FOR SECNO=    108.00          CWSEL=   1270.90

 STA=    1680.    1995.    2010.    2030.
   PER Q=     88.9      4.7      6.4
    AREA=    874.7     44.3     62.6
     VEL=      2.7      2.9      2.8

 *SECNO 109.000

 3470 ENCROACHMENT STATIONS=    1840.0    2180.0  TYPE=     1  TARGET=     340.000
    109.00     4.27  1272.47      .00  1271.61  1272.59      .12     1.57      .00  1270.00
     2700.     752.    1667.     281.     296.     586.     105.    2153.     550.   1270.00
      4.60     2.54     2.84     2.68     .060     .060     .060     .000  1268.20  1840.00
   .002981     530.     505.     505.        2        0        0      .00   340.00  2180.00
0
 FLOW DISTRIBUTION FOR SECNO=    109.00          CWSEL=   1272.47

 STA=    1840.    1862.    1868.    1881.    1928.    1953.    2145.    2162.    2180.
   PER Q=      6.2      2.4      4.1      9.5      5.7     61.7      5.1      5.3
    AREA=     65.1     21.2     39.5    108.3     62.2    586.3     49.3     55.5
     VEL=      2.6      3.0      2.8      2.4      2.5      2.8      2.8      2.6

 *SECNO 110.000

 3470 ENCROACHMENT STATIONS=    1880.0    2290.0  TYPE=     1  TARGET=     410.000
    110.00     3.98  1273.98      .00  1273.03  1274.07      .09     1.49      .00  1271.60
     2700.     731.    1897.      72.     300.     769.      36.    2166.     555.   1271.70
      4.66     2.43     2.47     2.01     .060     .060     .060     .000  1270.00  1880.00
   .002634     605.     500.     530.        2        0        0      .00   410.00  2290.00
0
 FLOW DISTRIBUTION FOR SECNO=    110.00          CWSEL=   1273.98

 STA=    1880.    1943.    1991.    2274.    2290.
   PER Q=     16.1     11.0     70.3      2.6
    AREA=    176.5    123.9    768.8     35.6
     VEL=      2.5      2.4      2.5      2.0

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 111.000

 3470 ENCROACHMENT STATIONS=    2000.0    2420.0  TYPE=     1  TARGET=     420.000
    111.00     3.75  1275.25      .00  1274.26  1275.34      .09     1.26      .00  1272.70
     2700.     907.    1636.     157.     407.     665.      71.    2179.     559.   1272.40
      4.72     2.23     2.46     2.21     .060     .060     .060     .000  1271.50  2000.00
   .002417     505.     500.     500.        2        0        0      .00   420.00  2420.00
0
 FLOW DISTRIBUTION FOR SECNO=    111.00          CWSEL=   1275.25
```

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 STA=    2000.    2069.    2162.    2394.    2420.
   PER Q=     14.3     19.3     60.6      5.8
    AREA=    174.5    232.4    665.5     71.0
     VEL=      2.2      2.2      2.5      2.2

 SECNO 112.000

 3470 ENCROACHMENT STATIONS=    1920.0    2470.0  TYPE=     1  TARGET=     550.000
    112.00     3.88  1276.38      .00  1275.53  1276.44      .06     1.10      .00  1274.00
     2700.     248.    2452.       0.     128.    1211.       0.    2193.     565. 100000.00
      4.79     1.93     2.02      .00     .060     .060     .060     .000  1272.50  1920.00
   .002042     480.     500.     480.        2        0        0      .00   550.00  2470.00
0
 FLOW DISTRIBUTION FOR SECNO=    112.00          CWSEL=   1276.38

 STA=    1920.    1974.    2474.
   PER Q=      9.2     90.8
    AREA=    128.5   1211.3
     VEL=      1.9      2.0

 *SECNO 113.000

 3470 ENCROACHMENT STATIONS=    2030.0    2540.0  TYPE=     1  TARGET=     510.000
    113.00     3.35  1277.85      .00  1277.07  1277.97      .12     1.52      .02  1276.30
     2700.     304.    2376.      20.     126.     846.      12.    2206.     571.  1276.80
      4.84     2.41     2.81     1.72     .060     .060     .060     .000  1274.50  2030.00
   .005081     500.     495.     500.        1        0        0      .00   510.00  2540.00
0
 FLOW DISTRIBUTION FOR SECNO=    113.00          CWSEL=   1277.85

 STA=    2030.    2107.    2529.    2540.
   PER Q=     11.2     88.0       .7
    AREA=    125.9    846.4     11.6
     VEL=      2.4      2.8      1.7

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
            QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 114.000

 3470 ENCROACHMENT STATIONS=    1920.0    2360.0  TYPE=     1  TARGET=     440.000
    114.00     3.74  1279.64      .00  1278.73  1279.72      .08     1.75      .00100000.00
     2700.       0.    2612.      88.       0.    1115.      45.    2219.     577.   1277.60
      4.90      .00     2.34     1.96     .060     .060     .060     .000  1275.90  1920.00
   .002455     540.     510.     480.        1        0        0      .00   440.00  2360.00
0
 FLOW DISTRIBUTION FOR SECNO=    114.00          CWSEL=   1279.64

 STA=    1920.    2340.    2360.
   PER Q=     96.7      3.3
    AREA=   1115.1     45.0
     VEL=      2.3      2.0

 *SECNO 115.000

 3470 ENCROACHMENT STATIONS=    1850.0    2250.0  TYPE=     1  TARGET=     400.000
    115.00     4.42  1281.12      .00  1280.27  1281.23      .11     1.50      .01  1278.90
     2700.     798.    1809.      92.     307.     668.      39.    2232.     582.   1278.70
      4.95     2.60     2.71     2.34     .060     .060     .060     .000  1276.70  1850.00
   .003380     580.     515.     500.        3        0        0      .00   400.00  2250.00
0
 FLOW DISTRIBUTION FOR SECNO=    115.00          CWSEL=   1281.12

 STA=    1850.    1910.    1923.    1939.    1975.    2233.    2250.
   PER Q=     12.3      3.3      4.8      9.1     67.0      3.4
    AREA=    136.4     33.4     45.4     92.0    667.6     39.4
     VEL=      2.4      2.7      2.9      2.7      2.7      2.3

 SECNO 116.000

 3470 ENCROACHMENT STATIONS=    1960.0    2370.0  TYPE=     1  TARGET=     410.000
    116.00     3.98  1282.68      .00  1281.68  1282.78      .10     1.55      .00  1280.00
     2700.     288.    2384.      28.     119.     945.      15.    2244.     586.   1280.80
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     5.01      2.43      2.52      1.82      .060      .060      .060      .000  1278.70  1960.00
   .002850     500.      500.      500.         1         0         0       .00   410.00  2370.00
0
 FLOW DISTRIBUTION FOR SECNO=    116.00          CWSEL=   1282.68

 STA=    1960.    2005.    2363.    2370.
   PER Q=      10.7      88.3       1.0
    AREA=     118.7     945.0      15.1
     VEL=       2.4       2.5       1.8

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 117.000

 3470 ENCROACHMENT STATIONS=    2090.0    2500.0  TYPE=     1  TARGET=     410.000
    117.00      4.24  1283.84       .00  1282.88  1283.92       .08      1.14       .00  1281.40
     2700.      411.     2209.      79.      200.      963.      49.     2257.      591.   1281.80
      5.07      2.06      2.29     1.63      .060      .060     .060      .000  1279.60  2090.00
   .001904      480.      495.      510.         2         0        0       .00   410.00  2500.00
0
 FLOW DISTRIBUTION FOR SECNO=    117.00          CWSEL=   1283.84

 STA=    2090.    2102.    2119.    2142.    2165.    2476.    2500.
   PER Q=       1.9       3.8       5.5       4.1      81.8       2.9
    AREA=      30.1      46.7      67.2      56.0     962.9      48.5
     VEL=       1.7       2.2       2.2       2.0       2.3       1.6

 *SECNO 118.000

 3470 ENCROACHMENT STATIONS=    2100.0    2530.0  TYPE=     1  TARGET=     430.000
    118.00      4.97  1284.77       .00  1283.82  1284.84       .07       .92       .00  1281.90
     2700.     1836.      303.      561.      885.      119.     277.     2271.      596.   1281.70
      5.14      2.07      2.54     2.03      .060      .060     .060      .000  1279.80  2100.00
   .001698      500.      515.      540.         2         0        0       .00   430.00  2530.00
0
 FLOW DISTRIBUTION FOR SECNO=    118.00          CWSEL=   1284.77

 STA=    2100.    2109.    2192.    2288.    2404.    2434.    2455.    2509.    2530.
   PER Q=       1.5      18.3      22.2      26.1      11.2       4.9      11.7       4.2
    AREA=      24.0     239.7     283.9     337.8     119.2      62.3     153.9      60.3
     VEL=       1.7       2.1       2.1       2.1       2.5       2.1       2.1       1.9

 *SECNO 119.000

 3470 ENCROACHMENT STATIONS=    2070.0    2400.0  TYPE=     1  TARGET=     330.000
    119.00      4.34  1285.94       .00  1284.98  1286.07       .13      1.21       .02  1283.40
     2700.     1208.      944.      548.      462.      285.     195.     2285.      600.   1283.20
      5.19      2.61      3.31     2.82      .060      .060     .060      .000  1281.60  2070.00
   .003295      545.      500.      500.         2         0        0       .00   330.00  2400.00
0
 FLOW DISTRIBUTION FOR SECNO=    119.00          CWSEL=   1285.94

 STA=    2070.    2101.    2226.    2253.    2333.    2353.    2386.    2400.
   PER Q=       7.0      31.0       6.7      35.0       5.7      10.5       4.0
    AREA=      76.5     316.8      68.7     285.1      54.9      97.7      42.0
     VEL=       2.5       2.6       2.6       3.3       2.8       2.9       2.6

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                                                                                THIS RUN EXECUTED 10-31-91
 ****************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION AUGUST 1985
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WATERMAN WASH - EAST PRO

MARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
1.000	1127.43	.00	1127.76	1536.96	250.26	11515.62	1434.12	.00	.00	1540.10	1958.10	.00
1.000	1128.43	1.00	1128.78	420.00	.06	13195.38	4.56	420.00	1540.00	1540.10	1958.10	1960.00
2.000	1130.43	.00	1130.62	1624.70	126.72	9708.52	3364.76	.00	.00	1257.20	2027.50	.00
2.000	1131.04	.61	1131.34	750.00	.00	13200.00	.00	750.00	1270.00	1257.20	2027.50	2020.00
3.000	1133.29	.00	1133.53	1834.54	1997.76	8170.05	3032.19	.00	.00	1556.20	1841.20	.00
3.000	1134.00	.71	1134.33	710.00	986.96	9754.76	2458.28	710.00	1380.00	1556.20	1841.20	2090.00
4.000	1135.46	.00	1135.71	1784.20	915.74	8784.60	3499.66	.00	.00	1328.40	1793.30	.00
4.000	1136.11	.65	1136.46	671.26	.00	11072.59	2127.41	710.00	1330.00	1328.40	1793.30	2040.00
5.000	1137.77	.00	1138.14	1960.97	362.03	7428.41	5409.56	.00	.00	1358.90	1529.40	.00
5.000	1138.38	.61	1138.83	914.47	588.48	8389.99	4221.53	920.00	1050.00	1358.90	1529.40	1970.00
6.000	1139.35	.00	1139.54	1502.10	1397.44	3282.27	7120.29	1502.10	1551.90	1745.90	1828.10	3054.00
6.000	1140.05	.70	1140.40	638.10	2281.69	4362.54	5155.76	638.10	1551.90	1745.90	1828.10	2190.00
7.000	1140.47	.00	1140.69	1364.66	2199.54	3342.43	4858.03	1477.10	1730.60	2219.60	2289.20	3207.70
7.000	1141.39	.92	1141.64	869.40	3367.89	3702.41	3329.70	869.40	1730.60	2219.60	2289.20	2600.00
8.000	1141.38	.00	1141.45	1891.31	3010.58	2965.11	3024.31	.00	.00	1046.30	1230.80	.00
8.000	1142.31	.93	1142.46	700.00	2506.75	4415.54	2077.71	700.00	750.00	1046.30	1230.80	1450.00
9.000	1142.05	.00	1142.19	1512.42	2150.49	4422.51	2427.00	.00	.00	1556.20	1831.70	.00
9.000	1143.05	1.00	1143.26	568.79	2316.91	5741.34	941.75	570.00	1350.00	1556.20	1831.70	1920.00
10.000	1143.16	.00	1143.42	1170.13	1009.21	6014.74	1976.05	.00	.00	1533.60	1788.10	.00
10.000	1144.04	.88	1144.43	381.10	934.47	7603.28	462.24	750.00	1120.00	1533.60	1788.10	1870.00
11.000	1144.25	.00	1144.40	1388.92	3029.18	3466.09	2104.73	.00	.00	1493.20	1700.00	.00
11.000	1145.18	.92	1145.34	706.97	3686.10	3957.37	956.53	860.00	1010.00	1493.20	1700.00	1870.00

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
12.000	1145.23	.00	1145.51	1477.82	504.05	5813.12	2282.83	.00	.00	1347.90	1561.80	.00
12.000	1145.98	.76	1146.35	531.36	790.26	6945.03	864.71	650.00	1090.00	1347.90	1561.80	1740.00
13.000	1146.62	.00	1146.81	1775.80	1439.31	3826.04	3334.65	.00	.00	1339.90	1505.10	.00
13.000	1147.44	.82	1147.79	494.27	1488.63	5155.55	1955.82	570.00	1150.00	1339.90	1505.10	1720.00
14.000	1147.76	.00	1147.92	1791.05	812.79	5248.99	2538.21	.00	.00	1108.60	1414.60	.00
14.000	1148.74	.98	1148.99	550.00	561.35	7026.47	1012.19	550.00	1020.00	1108.60	1414.60	1570.00
15.000	1149.05	.00	1149.20	2225.88	4109.83	1872.98	2217.19	.00	.00	1625.40	1673.60	.00
15.000	1149.98	.93	1150.21	690.00	3959.56	2268.59	1971.85	690.00	1300.00	1625.40	1673.60	1990.00
16.000	1150.17	.00	1150.33	1931.03	2514.12	2290.53	3395.35	.00	.00	1694.90	1760.80	.00
16.000	1151.13	.95	1151.37	680.00	2667.60	2907.22	2625.18	680.00	1360.00	1694.90	1760.80	2040.00
17.000	1151.48	.00	1151.71	1687.05	860.79	5240.59	2098.61	.00	.00	1375.80	1637.30	.00
17.000	1152.39	.91	1152.70	540.00	333.36	6599.82	1266.82	540.00	1320.00	1375.80	1637.30	1860.00
18.000	1152.84	.00	1152.96	1788.83	1936.90	3985.80	1877.30	.00	.00	1673.00	1883.50	.00
18.000	1153.70	.86	1153.89	570.00	1364.24	5218.92	1216.84	570.00	1450.00	1673.00	1883.50	2020.00
19.000	1153.93	.00	1154.21	1907.90	2972.07	2956.11	1871.82	.00	.00	1852.80	1927.80	.00
19.000	1154.77	.84	1155.17	630.00	2748.59	3592.45	1458.96	630.00	1470.00	1852.80	1927.80	2100.00
20.000	1155.42	.00	1155.54	2078.25	2904.69	2207.51	2487.80	.00	.00	1616.50	1694.00	.00
20.000	1156.38	.96	1156.61	660.00	2617.34	2992.38	1990.28	660.00	1260.00	1616.50	1694.00	1920.00
21.000	1156.42	.00	1156.59	1630.20	1131.61	3547.36	2921.03	.00	.00	1281.20	1412.00	.00
21.000	1157.39	.98	1157.61	540.00	1132.16	4098.72	2369.12	540.00	1170.00	1281.20	1412.00	1710.00
22.000	1157.92	.00	1158.17	1656.09	778.65	3011.23	3510.12	.00	.00	1004.80	1130.20	.00

22.000	1158.66	.73	1159.12	550.00	751.91	4246.01	2302.08	550.00	880.00	1004.80	1130.20	1430.00
23.000	1159.90	.00	1160.14	1682.74	2213.72	2596.82	2489.46	.00	.00	1363.40	1423.00	.00
23.000	1160.89	.99	1161.24	550.00	1727.87	3202.65	2369.49	550.00	1200.00	1363.40	1423.00	1750.00
24.000	1161.46	.00	1161.69	1252.11	2539.55	2595.70	2164.76	.00	.00	1306.40	1371.90	.00
24.000	1162.43	.97	1162.75	480.00	1902.07	3133.75	2264.18	480.00	1120.00	1306.40	1371.90	1600.[illegible]
25.000	1162.88	.00	1163.06	1364.64	1886.34	2120.68	3292.98	.00	.00	1542.20	1592.80	.00
25.000	1163.83	.95	1164.12	470.00	1434.89	2650.69	3214.42	470.00	1390.00	1542.20	1592.80	1860.00
26.000	1164.21	.00	1164.47	1242.44	2087.17	2640.07	2572.76	.00	.00	1622.90	1679.30	.00
26.000	1165.19	.98	1165.57	440.00	1642.05	3220.59	2437.36	440.00	1450.00	1622.90	1679.30	1890.00
27.000	1165.64	.00	1165.86	1468.57	2113.66	2642.73	2243.61	.00	.00	1400.60	1467.30	.00
27.000	1166.62	.98	1166.94	410.00	1973.19	3242.21	1784.60	410.00	1210.00	1400.60	1467.30	1620.00
28.000	1166.90	.00	1167.07	1142.30	3176.30	1568.49	2255.21	.00	.00	1305.60	1340.60	.00
28.000	1167.85	.95	1168.09	440.00	3108.69	1782.15	2109.17	440.00	1100.00	1305.60	1340.60	1540.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
29.000	1167.98	.00	1168.17	990.12	3160.18	2906.06	933.76	.00	.00	855.60	936.60	.00
29.000	1168.87	.89	1169.14	390.00	2462.66	3510.01	1027.32	390.00	710.00	855.60	936.60	1100.00
30.000	1169.11	.00	1169.41	992.70	2833.29	2545.39	1621.32	.00	.00	1262.20	1309.40	.00
30.000	1169.97	.86	1170.37	390.00	2563.70	2941.26	1495.04	390.00	1050.00	1262.20	1309.40	1440.00
31.000	1170.40	.00	1170.53	1452.55	3192.05	1728.31	2079.64	.00	.00	1651.50	1692.20	.00
31.000	1171.32	.92	1171.54	490.00	3127.06	2151.93	1721.02	490.00	1350.00	1651.50	1692.20	1840.00
32.000	1171.12	.00	1171.26	1240.94	2301.94	3271.75	1426.31	.00	.00	1234.80	1336.70	.00
32.000	1172.10	.99	1172.30	450.00	1866.23	3972.93	1160.84	450.00	1050.00	1234.80	1336.70	1500.00
33.000	1171.93	.00	1172.25	881.01	2373.33	2397.53	1929.14	.00	.00	1413.70	1457.40	.00
33.000	1172.86	.93	1173.27	370.00	2165.83	2733.84	1800.32	370.00	1250.00	1413.70	1457.40	1620.00
34.000	1173.48	.00	1173.64	1080.33	2617.34	1659.56	2423.11	.00	.00	1055.50	1097.70	[illegible]
34.000	1174.38	.90	1174.62	390.00	2400.48	2022.43	2277.09	390.00	900.00	1055.50	1097.70	1290.00
35.000	1174.59	.00	1174.81	893.90	2574.74	2013.40	2111.86	.00	.00	1351.40	1396.30	.00
35.000	1175.48	.90	1175.79	350.00	2428.84	2377.35	1893.81	350.00	1200.00	1351.40	1396.30	1550.00
36.000	1175.83	.00	1176.00	916.58	3387.07	1697.03	1615.90	.00	.00	1511.90	1552.10	.00
36.000	1176.75	.92	1177.02	370.00	3160.14	2118.80	1421.05	370.00	1300.00	1511.90	1552.10	1670.00
37.000	1176.89	.00	1177.07	898.77	2230.59	2037.98	2431.43	.00	.00	1432.50	1485.40	.00
37.000	1177.88	.99	1178.14	380.00	1929.78	2510.93	2259.28	380.00	1280.00	1432.50	1485.40	1660.00
38.000	1177.83	.00	1177.96	1010.91	3018.63	1719.01	1962.35	.00	.00	1232.80	1285.20	.00
38.000	1178.82	1.00	1179.01	420.00	2772.91	2066.84	1860.26	420.00	1090.00	1232.80	1285.20	1510.00
39.000	1178.77	.00	1178.96	1422.29	2710.40	1969.51	1720.09	.00	.00	1487.30	1533.70	.00
39.000	1179.71	.94	1180.01	420.00	2235.57	2403.59	1760.84	420.00	1320.00	1487.30	1533.70	1740.00
40.000	1179.94	.00	1180.09	1187.72	2643.67	1676.94	2079.39	.00	.00	1525.70	1573.40	.00
40.000	1180.93	.98	1181.15	430.00	2751.41	2093.69	1554.90	430.00	1280.00	1525.70	1573.40	1710.00
41.000	1180.97	.00	1181.10	1322.21	2992.92	1849.59	1557.49	.00	.00	1509.70	1568.90	.00
41.000	1181.96	.99	1182.17	460.00	2675.69	2290.43	1433.88	460.00	1270.00	1509.70	1568.90	1730.00
42.000	1182.25	.00	1182.42	1055.66	2761.34	1485.46	1953.20	.00	.00	1580.30	1619.70	.00
42.000	1183.19	.95	1183.46	400.00	2846.27	1810.84	1542.89	400.00	1320.00	1580.30	1619.70	1720.00
43.000	1183.48	.00	1183.56	1101.42	3277.86	1323.40	1598.74	.00	.00	1372.20	1424.80	.00
43.000	1184.47	.99	1184.60	420.00	2826.33	1640.90	1732.77	420.00	1130.00	1372.20	1424.80	1550.00
44.000	1184.53	.00	1184.69	975.24	2605.59	1440.12	1954.30	.00	.00	1628.80	1671.60	.00
44.000	1185.49	.96	1185.74	380.00	2658.39	1789.75	1551.86	380.00	1410.00	1628.80	1671.60	1790.00
45.000	1185.96	.00	1186.07	1124.21	2276.43	1179.71	2543.86	.00	.00	1661.10	1698.30	[illegible]
45.000	1186.92	.96	1187.10	380.00	2133.38	1428.32	2438.30	380.00	1490.00	1661.10	1698.30	1870.[illegible]

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
46.000	1187.11	.00	1187.23	1143.48	1472.89	1502.59	2824.52	.00	.00	1570.90	1620.40	.00
46.000	1188.04	.93	1188.21	430.00	1480.51	1783.91	2535.58	430.00	1430.00	1570.90	1620.40	1860.00
47.000	1188.12	.00	1188.21	1381.19	2939.99	1242.21	1517.81	.00	.00	1541.20	1582.20	.00
47.000	1189.06	.94	1189.21	490.00	2716.82	1578.43	1404.75	490.00	1220.00	1541.20	1582.20	1710.00
48.000	1189.14	.00	1189.25	1045.12	1558.14	1048.59	2993.27	.00	.00	1116.40	1150.70	.00
48.000	1190.11	.97	1190.29	380.00	1669.14	1266.27	2664.59	380.00	950.00	1116.40	1150.70	1330.00
49.000	1190.29	.00	1190.40	987.90	1945.68	1217.36	2236.96	.00	.00	956.50	993.20	.00
49.000	1191.24	.95	1191.41	360.00	1845.91	1458.94	2095.15	360.00	790.00	956.50	993.20	1150.00
50.000	1191.36	.00	1191.48	1018.23	1733.99	1448.24	2217.77	.00	.00	1015.60	1058.70	.00
50.000	1192.32	.96	1192.51	390.00	1596.31	1789.72	2013.97	390.00	850.00	1015.60	1058.70	1240.00
51.000	1192.16	.00	1192.24	1064.28	1487.82	2411.38	1300.79	.00	.00	1014.70	1126.00	.00
51.000	1193.15	.99	1193.26	410.00	1442.74	2883.02	874.23	410.00	810.00	1014.70	1126.00	1220.00
52.000	1192.94	.00	1193.08	1049.44	2078.22	1043.77	1878.01	.00	.00	880.00	910.00	.00
52.000	1193.80	.86	1193.95	430.00	1537.96	1050.10	2411.95	430.00	780.00	880.00	910.00	1210.00
53.000	1193.93	.00	1193.99	1019.86	1844.28	630.30	2525.42	.00	.00	915.90	957.50	.00
53.000	1194.73	.80	1194.85	390.00	1761.77	910.17	2328.06	390.00	780.00	915.90	957.50	1170.00
54.000	1195.11	.00	1195.36	955.84	1728.98	998.18	2272.83	.00	.00	1037.00	1064.10	.00
54.000	1196.04	.94	1196.35	340.00	1324.10	1094.49	2581.41	340.00	930.00	1037.00	1064.10	1270.00
55.000	1197.16	.00	1197.24	1211.80	1826.47	778.19	2195.34	.00	.00	1484.60	1518.40	.00
55.000	1198.02	.86	1198.18	370.00	1712.69	1029.26	2058.05	370.00	1320.00	1484.60	1518.40	1690.00
56.000	1198.18	.00	1198.26	1393.20	1890.71	1249.06	1660.24	.00	.00	1676.00	1738.90	.00
56.000	1199.16	.98	1199.30	430.00	1801.02	1670.61	1328.37	430.00	1450.00	1676.00	1738.90	1880.00
57.000	1199.31	.00	1199.37	1446.76	2106.54	437.30	2056.16	.00	.00	1838.70	1870.30	.00
57.000	1200.31	1.00	1200.44	410.00	2023.14	611.83	1965.03	410.00	1660.00	1838.70	1870.30	2070.00
58.000	1200.48	.00	1200.56	1442.49	1433.32	1008.84	2157.84	.00	.00	1851.70	1901.10	.00
58.000	1201.48	1.00	1201.64	360.00	1414.09	1342.27	1843.64	360.00	1700.00	1851.70	1901.10	2060.00
59.000	1201.66	.00	1201.73	1460.98	1840.25	688.73	1871.02	.00	.00	1892.30	1932.00	.00
59.000	1202.66	.99	1202.78	430.00	1815.98	895.76	1688.27	430.00	1690.00	1892.30	1932.00	2120.00
60.000	1202.98	.00	1203.07	1259.97	1803.76	784.16	1812.07	.00	.00	2004.60	2045.90	.00
60.000	1203.92	.94	1204.08	400.00	1640.24	1063.19	1696.56	400.00	1820.00	2004.60	2045.90	2220.00
61.000	1204.27	.00	1204.34	1466.84	1890.45	789.61	1519.94	.00	.00	1971.90	2013.30	.00
61.000	1205.26	.99	1205.39	420.00	1972.15	1047.23	1180.62	420.00	1710.00	1971.90	2013.30	2130.00
62.000	1205.39	.00	1205.46	1490.88	1566.63	659.69	1973.68	.00	.00	1922.30	1964.20	.00
62.000	1206.38	.99	1206.51	420.00	1597.40	894.90	1707.70	420.00	1700.00	1922.30	1964.20	2120.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
63.000	1206.64	.00	1206.72	1387.29	1232.67	788.66	1978.66	.00	.00	1844.40	1886.50	.00
63.000	1207.55	.91	1207.68	410.00	945.01	974.94	2080.05	410.00	1720.00	1844.40	1886.50	2130.00
64.000	1207.88	.00	1207.94	1315.20	1291.10	720.28	1988.62	.00	.00	1837.00	1885.20	.00
64.000	1208.76	.89	1208.89	400.00	1024.33	1016.99	1958.67	400.00	1730.00	1837.00	1885.20	2130.00
65.000	1209.17	.00	1209.26	1366.66	1388.42	899.84	1711.74	.00	.00	1921.80	1969.50	.00
65.000	1210.07	.90	1210.23	380.00	1208.07	1132.35	1659.58	380.00	1770.00	1921.80	1969.50	2150.00
66.000	1210.56	.00	1210.62	1545.92	1522.59	713.45	1763.95	.00	.00	1851.80	1898.70	.00
66.000	1211.46	.90	1211.59	410.00	1480.97	1006.57	1512.46	410.00	1650.00	1851.80	1898.70	2060.00
67.000	1211.82	.00	1211.90	1438.28	1602.77	633.51	1563.72	.00	.00	1854.90	1889.30	.00
67.000	1212.77	.94	1212.91	390.00	1741.82	821.44	1236.73	390.00	1620.00	1854.90	1889.30	2010.00
68.000	1213.24	.00	1213.30	1499.48	1922.04	597.44	1280.52	.00	.00	1708.70	1745.30	.00
68.000	1214.13	.89	1214.25	400.00	2005.71	785.44	1008.85	400.00	1460.00	1708.70	1745.30	1860.00
69.000	1214.53	.00	1214.59	1597.81	1619.99	628.30	1551.71	.00	.00	1787.10	1825.70	.00
69.000	1215.41	.88	1215.55	370.00	1585.83	845.16	1369.01	370.00	1590.00	1787.10	1825.70	1960.00

70.000	1215.82	.00	1215.90	1450.71	1314.72	780.23	1605.06	.00	.00	1720.70	1763.50	.00
70.000	1216.73	.91	1216.88	370.00	1391.58	1039.72	1268.70	370.00	1520.00	1720.70	1763.50	1890.00
71.000	1217.10	.00	1217.18	1442.74	1192.62	916.39	1590.99	.00	.00	1804.10	1856.80	.00
71.000	1218.00	.90	1218.13	360.00	1086.49	1166.83	1446.68	360.00	1660.00	1804.10	1856.80	2020.00
72.000	1218.34	.00	1218.42	1405.36	1788.18	943.89	867.92	.00	.00	1905.90	1952.40	.00
72.000	1219.23	.89	1219.40	350.00	1932.19	1282.81	385.00	350.00	1680.00	1905.90	1952.40	2030.00
73.000	1219.71	.00	1219.80	1435.35	1353.49	1045.48	1201.03	.00	.00	1842.80	1905.40	.00
73.000	1220.66	.95	1220.82	380.00	1386.43	1396.24	817.33	380.00	1620.00	1842.80	1905.40	2000.00
74.000	1221.23	.00	1221.32	1473.74	1623.65	910.90	1065.45	.00	.00	1870.00	1919.00	.00
74.000	1222.17	.94	1222.34	380.00	1616.99	1259.85	723.16	380.00	1640.00	1870.00	1919.00	2020.00
75.000	1222.65	.00	1222.74	1728.26	1684.72	1014.83	800.45	.00	.00	1854.80	1907.00	.00
75.000	1223.54	.89	1223.66	500.00	1909.95	1189.87	400.18	500.00	1470.00	1854.80	1907.00	1970.00
76.000	1224.05	.00	1224.13	1479.01	1587.43	745.93	1166.63	.00	.00	1898.30	1934.10	.00
76.000	1224.85	.81	1225.02	410.00	1597.28	1030.37	872.35	410.00	1620.00	1898.30	1934.10	2030.00
77.000	1225.28	.00	1225.36	1514.02	1018.57	1327.97	1053.45	.00	.00	1577.50	1660.00	.00
77.000	1226.23	.95	1226.37	380.00	866.54	1789.62	743.84	380.00	1400.00	1577.50	1660.00	1780.00
78.000	1226.66	.00	1226.77	1500.91	1243.98	1051.50	1104.53	.00	.00	1703.70	1752.30	.00
78.000	1227.58	.93	1227.78	380.00	1196.63	1367.82	835.54	380.00	1500.00	1703.70	1752.30	1880.00
79.000	1228.14	.00	1228.21	1552.39	1641.10	766.36	892.54	.00	.00	1687.10	1723.00	.00
79.000	1229.05	.91	1229.17	390.00	1536.40	951.13	812.46	390.00	1460.00	1687.10	1723.00	1850.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
80.000	1229.17	.00	1229.24	1520.37	1273.17	884.95	1141.87	.00	.00	1577.00	1620.40	.00
80.000	1230.04	.87	1230.17	380.00	1119.34	1104.28	1076.38	380.00	1380.00	1577.00	1620.40	1760.00
81.000	1230.29	.00	1230.37	1277.19	1088.37	780.30	1331.33	.00	.00	1691.70	1739.60	.00
81.000	1231.16	.87	1231.30	350.00	882.76	1047.84	1269.40	350.00	1580.00	1691.70	1739.60	1930.00
82.000	1231.61	.00	1231.73	1083.92	1129.07	1058.71	1012.21	.00	.00	1905.50	1947.50	.00
82.000	1232.47	.86	1232.65	310.00	1135.56	1300.74	763.71	310.00	1760.00	1905.50	1947.50	2070.00
83.000	1232.86	.00	1232.95	1039.43	1018.42	923.98	1157.60	.00	.00	1779.40	1821.20	.00
83.000	1233.70	.84	1233.86	240.00	1015.21	1152.26	932.54	240.00	1660.00	1779.40	1821.20	1900.00
84.000	1234.09	.00	1234.26	873.56	780.29	1423.56	896.15	.00	.00	1728.90	1783.80	.00
84.000	1234.92	.83	1235.17	230.00	764.31	1764.93	570.75	230.00	1620.00	1728.90	1783.80	1850.00
85.000	1235.56	.00	1235.68	1116.34	765.41	1483.78	850.82	.00	.00	1678.90	1746.30	.00
85.000	1236.42	.86	1236.62	240.00	522.41	1915.04	662.55	240.00	1600.00	1678.90	1746.30	1840.00
86.000	1237.06	.00	1237.16	1278.75	597.91	589.69	1812.39	.00	.00	1396.60	1428.20	.00
86.000	1237.96	.89	1238.14	290.00	638.79	792.25	1568.96	290.00	1310.00	1396.60	1428.20	1600.00
87.000	1238.77	.00	1238.86	1208.41	342.31	942.56	1715.12	.00	.00	1539.70	1605.10	.00
87.000	1239.69	.92	1239.85	340.00	479.72	1305.57	1214.71	340.00	1430.00	1539.70	1605.10	1770.00
88.000	1240.51	.00	1240.59	1325.43	1209.80	561.10	1229.10	.00	.00	1695.60	1733.60	.00
88.000	1241.45	.94	1241.60	420.00	1078.27	812.44	1109.30	420.00	1520.00	1695.60	1733.60	1940.00
89.000	1242.20	.00	1242.28	1138.34	1000.11	568.04	1331.84	.00	.00	1690.90	1722.90	.00
89.000	1243.13	.93	1243.30	290.00	1020.59	767.82	1111.59	290.00	1560.00	1690.90	1722.90	1850.00
90.000	1243.62	.00	1243.74	1146.46	1001.28	1145.84	752.88	.00	.00	1666.30	1716.40	.00
90.000	1244.54	.92	1244.76	290.00	822.24	1516.38	561.39	290.00	1550.00	1666.30	1716.40	1840.00
91.000	1245.12	.00	1245.20	1267.03	1263.34	644.92	991.74	.00	.00	1818.20	1863.30	.00
91.000	1246.07	.95	1246.23	280.00	1193.82	923.65	782.53	280.00	1690.00	1818.20	1863.30	1970.00
92.000	1246.45	.00	1246.51	1236.02	1333.35	560.24	1006.41	.00	.00	1869.70	1913.50	.00
92.000	1247.45	1.00	1247.57	300.00	1426.40	826.13	647.46	300.00	1690.00	1869.70	1913.50	1990.00
93.000	1247.69	.00	1247.78	1182.42	1168.44	631.53	1100.03	.00	.00	1754.50	1789.30	.00
93.000	1248.65	.96	1248.79	320.00	1092.71	809.58	997.71	320.00	1600.00	1754.50	1789.30	1920.00
94.000	1249.27	.00	1249.36	1079.97	1500.61	573.14	726.26	.00	.00	1729.40	1761.90	.00

94.000	1250.16	.89	1250.36	280.00	1149.13	823.05	827.82	280.00	1610.00	1729.40	1761.90	1890.00
95.000	1250.63	.00	1250.72	979.37	1401.55	737.28	661.17	.00	.00	1853.10	1888.70	.00
95.000	1251.55	.92	1251.69	270.00	1246.36	897.37	656.27	270.00	1720.00	1853.10	1888.70	1990.00
96.000	1252.06	.00	1252.13	1003.45	1471.55	361.64	966.81	.00	.00	1841.20	1873.80	.00
96.000	1252.92	.85	1253.10	260.00	1360.19	579.15	860.67	260.00	1700.00	1841.20	1873.80	1960.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
97.000	1253.78	.00	1253.87	1052.90	1612.25	513.50	674.25	.00	.00	2006.60	2037.10	.00
97.000	1254.75	.97	1254.92	260.00	1411.77	707.72	680.51	260.00	1860.00	2006.60	2037.10	2120.00
98.000	1255.32	.00	1255.40	1151.86	1300.26	518.64	981.10	.00	.00	2064.40	2090.30	.00
98.000	1256.28	.96	1256.43	300.00	1204.43	694.50	901.07	300.00	1910.00	2064.40	2090.30	2210.00
99.000	1256.81	.00	1256.89	1030.34	1210.36	469.98	1119.66	.00	.00	1896.60	1925.10	.00
99.000	1257.79	.98	1257.95	300.00	1243.06	669.54	887.40	300.00	1740.00	1896.60	1925.10	2040.00
100.000	1258.13	.00	1258.19	1189.38	1076.71	416.40	1206.89	.00	.00	2042.70	2079.80	.00
100.000	1259.14	1.00	1259.24	320.00	1063.06	608.50	1028.44	320.00	1860.00	2042.70	2079.80	2180.00
101.000	1259.40	.00	1259.49	1110.84	1506.85	500.67	692.48	.00	.00	2258.40	2289.10	.00
101.000	1260.30	.90	1260.44	316.09	1606.37	639.30	454.33	450.00	1900.00	2258.40	2289.10	2350.00
102.000	1260.97	.00	1261.03	1250.51	1480.81	454.03	765.16	.00	.00	2232.90	2267.50	.00
102.000	1261.59	.63	1261.68	450.00	1785.96	504.62	409.42	450.00	1880.00	2232.90	2267.50	2330.00
103.000	1262.35	.00	1262.41	1184.13	1543.36	578.25	578.38	.00	.00	2239.60	2297.50	.00
103.000	1262.94	.60	1263.12	280.00	1534.95	926.28	238.77	280.00	2050.00	2239.60	2297.50	2330.00
104.000	1263.94	.00	1264.00	1358.17	1144.96	460.71	1094.33	.00	.00	2186.50	2271.70	.00
104.000	1264.94	1.00	1265.07	320.00	1051.73	854.77	793.50	320.00	2030.00	2186.50	2271.70	2350.00
105.000	1265.46	.00	1265.53	1206.26	529.67	1779.87	390.46	.00	.00	2093.10	2381.50	.00
105.000	1266.29	.83	1266.39	340.00	199.77	2456.85	43.38	340.00	2050.00	2093.10	2381.50	2390.00
106.000	1267.12	.00	1267.19	1082.79	803.01	1493.20	403.79	.00	.00	2100.40	2390.90	.00
106.000	1267.81	.69	1268.00	280.00	.85	2699.14	.00	280.00	2100.00	2100.40	2390.90	2380.00
107.000	1268.58	.00	1268.62	1264.49	870.62	785.75	1043.63	.00	.00	1864.70	2047.60	.00
107.000	1269.55	.97	1269.64	380.00	862.00	1460.88	377.12	380.00	1720.00	1864.70	2047.60	2100.00
108.000	1270.01	.00	1270.07	1332.14	346.18	1366.10	987.72	.00	.00	1670.30	1995.40	.00
108.000	1270.90	.89	1271.02	350.00	.00	2399.15	300.85	350.00	1680.00	1670.30	1995.40	2030.00
109.000	1271.61	.00	1271.66	1505.15	1021.40	915.06	763.54	.00	.00	1953.10	2145.10	.00
109.000	1272.47	.86	1272.59	340.00	751.95	1666.68	281.37	340.00	1840.00	1953.10	2145.10	2180.00
110.000	1273.03	.00	1273.07	1354.92	1471.64	881.76	346.60	.00	.00	1990.50	2274.40	.00
110.000	1273.98	.95	1274.07	410.00	731.39	1897.09	71.53	410.00	1880.00	1990.50	2274.40	2290.00
111.000	1274.26	.00	1274.30	1415.47	1545.25	816.65	338.09	.00	.00	2161.60	2393.50	.00
111.000	1275.25	.99	1275.34	420.00	907.18	1635.98	156.84	420.00	2000.00	2161.60	2393.50	2420.00
112.000	1275.53	.00	1275.57	1359.49	1185.79	1411.71	102.50	.00	.00	1974.30	2473.70	.00
112.000	1276.38	.84	1276.44	550.00	248.23	2451.77	.00	550.00	1920.00	1974.30	2473.70	2470.00
113.000	1277.07	.00	1277.11	1544.98	1835.00	854.28	10.72	.00	.00	2107.20	2529.00	.00
113.000	1277.85	.79	1277.97	510.00	303.67	2376.45	19.88	510.00	2030.00	2107.20	2529.00	2540.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
114.000	1278.73	.00	1278.77	1573.76	887.02	1430.34	382.64	.00	.00	1916.70	2340.30	.00
114.000	1279.64	.91	1279.72	440.00	.00	2611.70	88.30	440.00	1920.00	1916.70	2340.30	2360.00
115.000	1280.27	.00	1280.31	1658.30	1503.48	842.33	354.19	.00	.00	1975.30	2233.30	.00
115.000	1281.12	.85	1281.23	400.00	798.44	1809.31	92.25	400.00	1850.00	1975.30	2233.30	2250.00
116.000	1281.68	.00	1281.73	1601.77	1312.68	1094.88	292.44	.00	.00	2005.00	2363.40	.00
116.000	1282.68	1.00	1282.78	410.00	288.47	2383.98	27.56	410.00	1960.00	2005.00	2363.40	2370.00

117.000	1282.88	.00	1282.91	1661.33	1071.73	1246.27	382.00	.00	.00	2164.90	2475.90	.00
117.000	1283.84	.96	1283.92	410.00	411.25	2209.46	79.28	410.00	2090.00	2164.90	2475.90	2500.00
118.000	1283.82	.00	1283.85	1429.73	1921.56	188.17	590.27	.00	.00	2403.80	2433.80	.00
118.000	1284.77	.95	1284.84	430.00	1835.52	303.16	561.32	430.00	2100.00	2403.80	2433.80	2530.00
119.000	1284.98	.00	1285.03	1641.48	1216.33	557.30	926.37	.00	.00	2253.00	2333.00	[illegible]
119.000	1285.94	.96	1286.07	330.00	1207.98	943.74	548.28	330.00	2070.00	2253.00	2333.00	2400.[illegible]

WATERMAN WASH - EAST PRO

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
1.000	.00	.00	.00	1118.50	13200.00	1127.43	.00	1127.76	27.65	4.91	3456.15	2510.20
1.000	.00	.00	.00	1118.50	13200.00	1128.43	.00	1128.78	21.02	4.78	2767.47	2879.36
2.000	955.00	.00	.00	1120.90	13200.00	1130.43	.00	1130.62	32.58	3.77	4045.45	2312.53
2.000	955.00	.00	.00	1120.90	13200.00	1131.04	.00	1131.34	35.19	4.40	3000.02	2225.15
3.000	1040.00	.00	.00	1124.00	13200.00	1133.29	.00	1133.53	24.26	4.79	4180.60	2679.84
3.000	1040.00	.00	.00	1124.00	13200.00	1134.00	.00	1134.33	23.81	5.11	3189.61	2705.06
4.000	740.00	.00	.00	1126.60	13200.00	1135.46	.00	1135.71	35.29	4.54	3822.56	2222.14
4.000	740.00	.00	.00	1126.60	13200.00	1136.11	.00	1136.46	34.56	4.96	2883.34	2245.33
5.000	705.00	.00	.00	1128.40	13200.00	1137.77	.00	1138.14	32.16	6.20	3739.84	2327.81
5.000	705.00	.00	.00	1128.40	13200.00	1138.38	.00	1138.83	31.54	6.45	3034.31	2350.58
6.000	500.00	.00	.00	1127.70	11800.00	1139.35	.00	1139.54	22.66	5.29	4155.04	2478.62
6.000	500.00	.00	.00	1127.70	11800.00	1140.05	.00	1140.40	29.94	6.44	2828.67	2156.47
7.000	500.00	.00	.00	1129.50	10400.00	1140.47	.00	1140.69	22.98	5.67	3532.63	2169.73
7.000	500.00	.00	.00	1129.50	10400.00	1141.39	.00	1141.64	19.98	5.67	3079.93	2326.50
8.000	500.00	.00	.00	1130.90	9000.00	1141.38	.00	1141.45	9.83	2.89	4980.57	2870.[illegible]
8.000	500.00	.00	.00	1130.90	9000.00	1142.31	.00	1142.46	12.98	3.69	3196.53	2497.60
9.000	485.00	.00	.00	1132.40	9000.00	1142.05	.00	1142.19	24.51	3.81	3310.05	1818.02
9.000	485.00	.00	.00	1132.40	9000.00	1143.05	.00	1143.26	20.26	3.99	2515.54	1999.59
10.000	490.00	.00	.00	1133.10	9000.00	1143.16	.00	1143.42	24.92	4.83	2744.81	1802.90
10.000	490.00	.00	.00	1133.10	9000.00	1144.04	.00	1144.43	26.22	5.31	1918.01	1757.52
11.000	460.00	.00	.00	1134.80	8600.00	1144.25	.00	1144.40	17.79	3.91	3354.83	2038.89
11.000	460.00	.00	.00	1134.80	8600.00	1145.18	.00	1145.34	14.61	3.82	2877.43	2250.12
12.000	495.00	.00	.00	1136.70	8600.00	1145.23	.00	1145.51	27.00	5.02	2755.29	1655.14
12.000	495.00	.00	.00	1136.70	8600.00	1145.98	.00	1146.35	26.81	5.31	2022.30	1661.04
13.000	500.00	.00	.00	1137.90	8600.00	1146.62	.00	1146.81	24.77	4.76	3231.77	1727.97
13.000	500.00	.00	.00	1137.90	8600.00	1147.44	.00	1147.79	30.87	5.61	2026.47	1547.74
14.000	450.00	.00	.00	1138.40	8600.00	1147.76	.00	1147.92	24.38	3.91	3340.84	1741.57
14.000	450.00	.00	.00	1138.40	8600.00	1148.74	.00	1148.99	22.56	4.27	2311.79	1810.59
15.000	510.00	.00	.00	1139.70	8200.00	1149.05	.00	1149.20	23.72	5.21	3591.99	1683.63
15.000	510.00	.00	.00	1139.70	8200.00	1149.98	.00	1150.21	23.56	5.62	2488.77	1689.23
16.000	500.00	.00	.00	1141.10	8200.00	1150.17	.00	1150.33	21.54	4.93	3417.93	1766.69
16.000	500.00	.00	.00	1141.10	8200.00	1151.13	.00	1151.37	22.70	5.51	2484.99	1720.94

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
17.000	500.00	.00	.00	1141.90	8200.00	1151.48	.00	1151.71	34.08	4.62	2804.03	1404.[illegible]
17.000	500.00	.00	.00	1141.90	8200.00	1152.39	.00	1152.70	29.39	4.81	2035.62	1512.[illegible]
18.000	545.00	.00	.00	1144.60	7800.00	1152.84	.00	1152.96	16.15	3.59	3503.23	1941.11
18.000	545.00	.00	.00	1144.60	7800.00	1153.70	.00	1153.89	16.71	4.04	2423.33	1908.22

19.000	500.00	.00	.00	1144.90	7800.00	1153.93	.00	1154.21	39.57	6.25	2723.73	1239.96
19.000	500.00	.00	.00	1144.90	7800.00	1154.77	.00	1155.17	38.54	6.70	1934.32	1256.46
20.000	500.00	.00	.00	1147.10	7600.00	1155.42	.00	1155.54	18.86	4.42	3679.34	1749.90
20.000	500.00	.00	.00	1147.10	7600.00	1156.38	.00	1156.61	21.86	5.22	2363.10	1625.64
21.000	520.00	.00	.00	1147.70	7600.00	1156.42	.00	1156.59	21.22	4.51	3015.83	1649.64
21.000	520.00	.00	.00	1147.70	7600.00	1157.39	.00	1157.61	17.12	4.48	2336.72	1836.73
22.000	505.00	.00	.00	1149.30	7300.00	1157.92	.00	1158.17	50.69	5.56	2452.64	1025.34
22.000	505.00	.00	.00	1149.30	7300.00	1158.66	.00	1159.12	59.57	6.69	1610.43	945.78
23.000	500.00	.00	.00	1150.60	7300.00	1159.90	.00	1160.14	31.38	6.00	2809.09	1303.14
23.000	500.00	.00	.00	1150.60	7300.00	1160.89	.00	1161.24	31.27	6.52	1977.78	1305.42
24.000	500.00	.00	.00	1152.30	7300.00	1161.46	.00	1161.69	30.61	5.76	2613.80	1319.48
24.000	500.00	.00	.00	1152.30	7300.00	1162.43	.00	1162.75	28.79	6.10	1953.17	1360.42
25.000	500.00	.00	.00	1153.10	7300.00	1162.88	.00	1163.06	24.65	5.44	2923.40	1470.45
25.000	500.00	.00	.00	1153.10	7300.00	1163.83	.00	1164.12	26.14	6.06	2031.59	1427.79
26.000	500.00	.00	.00	1154.50	7300.00	1164.21	.00	1164.47	31.26	6.15	2566.76	1305.65
26.000	500.00	.00	.00	1154.50	7300.00	1165.19	.00	1165.57	31.00	6.64	1834.52	1311.02
27.000	490.00	.00	.00	1156.10	7000.00	1165.64	.00	1165.86	25.50	5.49	2577.17	1386.14
27.000	490.00	.00	.00	1156.10	7000.00	1166.62	.00	1166.94	25.08	5.93	1854.49	1397.72
28.000	485.00	.00	.00	1156.50	7000.00	1166.90	.00	1167.07	24.52	5.45	2634.22	1413.66
28.000	485.00	.00	.00	1156.50	7000.00	1167.85	.00	1168.09	21.99	5.55	2023.17	1492.71
29.000	540.00	.00	.00	1157.60	7000.00	1167.98	.00	1168.17	17.30	4.70	2568.61	1683.00
29.000	540.00	.00	.00	1157.60	7000.00	1168.87	.00	1169.14	17.42	5.08	1990.04	1677.00
30.000	520.00	.00	.00	1158.50	7000.00	1169.11	.00	1169.41	32.38	6.50	2223.91	1230.11
30.000	520.00	.00	.00	1158.50	7000.00	1169.97	.00	1170.37	31.10	6.80	1709.65	1255.18
31.000	475.00	.00	.00	1159.70	7000.00	1170.40	.00	1170.53	17.60	4.84	3231.17	1668.56
31.000	475.00	.00	.00	1159.70	7000.00	1171.32	.00	1171.54	19.60	5.45	2205.52	1581.03
32.000	515.00	.00	.00	1161.00	7000.00	1171.12	.00	1171.26	11.45	3.98	3232.88	2068.30
32.000	515.00	.00	.00	1161.00	7000.00	1172.10	.00	1172.30	11.49	4.30	2364.69	2065.15
33.000	500.00	.00	.00	1162.10	6700.00	1171.93	.00	1172.25	37.56	6.82	2044.54	1093.29
33.000	500.00	.00	.00	1162.10	6700.00	1172.86	.00	1173.27	33.74	6.96	1603.42	1153.48

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
34.000	500.00	.00	.00	1163.80	6700.00	1173.48	.00	1173.64	20.87	5.02	2631.32	1466.49
34.000	500.00	.00	.00	1163.80	6700.00	1174.38	.00	1174.62	21.62	5.49	1931.31	1441.10
35.000	490.00	.00	.00	1164.40	6700.00	1174.59	.00	1174.81	26.55	5.74	2273.07	1300.18
35.000	490.00	.00	.00	1164.40	6700.00	1175.48	.00	1175.79	25.76	6.08	1735.54	1319.99
36.000	500.00	.00	.00	1165.70	6700.00	1175.83	.00	1176.00	21.32	5.19	2503.72	1450.90
36.000	500.00	.00	.00	1165.70	6700.00	1176.75	.00	1177.02	23.25	5.82	1836.42	1389.54
37.000	500.00	.00	.00	1166.70	6700.00	1176.89	.00	1177.07	21.28	5.08	2461.97	1452.46
37.000	500.00	.00	.00	1166.70	6700.00	1177.88	.00	1178.14	21.46	5.54	1889.27	1446.47
38.000	480.00	.00	.00	1167.80	6700.00	1177.83	.00	1177.96	16.07	4.38	2817.24	1671.16
38.000	480.00	.00	.00	1167.80	6700.00	1178.82	.00	1179.01	15.32	4.65	2177.49	1711.81
39.000	500.00	.00	.00	1169.20	6400.00	1178.77	.00	1178.96	25.09	5.53	2551.73	1277.66
39.000	500.00	.00	.00	1169.20	6400.00	1179.71	.00	1180.01	25.37	6.01	1776.34	1270.55
40.000	500.00	.00	.00	1171.10	6400.00	1179.94	.00	1180.09	20.03	4.85	2678.63	1430.04
40.000	500.00	.00	.00	1171.10	6400.00	1180.93	.00	1181.15	20.44	5.33	1937.96	1415.61
41.000	515.00	.00	.00	1172.60	6400.00	1180.97	.00	1181.10	19.41	4.59	2857.49	1452.77
41.000	515.00	.00	.00	1172.60	6400.00	1181.96	.00	1182.17	18.91	4.97	2029.32	1471.75
42.000	495.00	.00	.00	1173.40	6200.00	1182.25	.00	1182.42	38.64	5.30	2185.49	997.35
42.000	495.00	.00	.00	1173.40	6200.00	1183.19	.00	1183.46	37.89	5.70	1631.66	1007.23
43.000	500.00	.00	.00	1174.10	6200.00	1183.48	.00	1183.56	14.96	3.46	2897.10	1602.97
43.000	500.00	.00	.00	1174.10	6200.00	1184.47	.00	1184.60	15.02	3.77	2216.36	1599.90

44.000	505.00	.00	.00	1175.60	6000.00	1184.53	.00	1184.69	35.32	5.01	2175.48	1009.56
44.000	505.00	.00	.00	1175.60	6000.00	1185.49	.00	1185.74	34.96	5.44	1617.50	1014.79
45.000	485.00	.00	.00	1176.60	6000.00	1185.96	.00	1186.07	23.34	4.28	2549.68	1242.06
45.000	485.00	.00	.00	1176.60	6000.00	1186.92	.00	1187.10	22.80	4.59	1852.79	1256.[illegible]
46.000	510.00	.00	.00	1178.10	5800.00	1187.11	.00	1187.23	21.99	4.21	2496.28	1236.[illegible]
46.000	510.00	.00	.00	1178.10	5800.00	1188.04	.00	1188.21	20.65	4.42	1942.99	1276.22
47.000	500.00	.00	.00	1179.00	5700.00	1188.12	.00	1188.21	17.45	3.84	2947.69	1364.34
47.000	500.00	.00	.00	1179.00	5700.00	1189.06	.00	1189.21	19.37	4.37	2051.33	1294.96
48.000	495.00	.00	.00	1180.40	5600.00	1189.14	.00	1189.25	25.53	4.27	2337.22	1108.40
48.000	495.00	.00	.00	1180.40	5600.00	1190.11	.00	1190.29	24.33	4.54	1743.10	1135.26
49.000	500.00	.00	.00	1181.20	5400.00	1190.29	.00	1190.40	20.83	4.13	2373.05	1183.19
49.000	500.00	.00	.00	1181.20	5400.00	1191.24	.00	1191.41	20.64	4.43	1751.26	1188.62
50.000	505.00	.00	.00	1182.10	5400.00	1191.36	.00	1191.48	21.75	4.20	2381.58	1157.84
50.000	505.00	.00	.00	1182.10	5400.00	1192.32	.00	1192.51	22.77	4.63	1737.90	1131.74

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
51.000	500.00	.00	.00	1183.40	5200.00	1192.16	.00	1192.24	10.93	3.00	2779.55	1572.92
51.000	500.00	.00	.00	1183.40	5200.00	1193.15	.00	1193.26	10.20	3.15	2157.36	1628.34
52.000	500.00	.00	.00	1184.50	5000.00	1192.94	.00	1193.08	27.90	4.78	1923.37	946.61
52.000	500.00	.00	.00	1184.50	5000.00	1193.80	.00	1193.95	19.43	4.30	1750.70	1134.38
53.000	500.00	.00	.00	1185.60	5000.00	1193.93	.00	1193.99	12.55	2.71	2732.13	1411.44
53.000	500.00	.00	.00	1185.60	5000.00	1194.73	.00	1194.85	16.68	3.41	1866.87	1224.28
54.000	500.00	.00	.00	1188.20	5000.00	1195.11	.00	1195.36	85.02	6.45	1439.73	542.27
54.000	500.00	.00	.00	1188.20	5000.00	1196.04	.00	1196.35	61.66	6.08	1176.85	636.77
55.000	495.00	.00	.00	1189.50	4800.00	1197.16	.00	1197.24	20.76	3.66	2408.74	1053.[illegible]
55.000	495.00	.00	.00	1189.50	4800.00	1198.02	.00	1198.18	23.79	4.26	1592.29	984.[illegible]
56.000	510.00	.00	.00	1191.00	4800.00	1198.18	.00	1198.26	19.43	3.46	2534.83	1088.85
56.000	510.00	.00	.00	1191.00	4800.00	1199.16	.00	1199.30	20.65	3.96	1716.53	1056.40
57.000	505.00	.00	.00	1192.30	4600.00	1199.31	.00	1199.37	25.04	3.18	2381.37	919.34
57.000	505.00	.00	.00	1192.30	4600.00	1200.31	.00	1200.44	24.52	3.62	1615.03	928.98
58.000	490.00	.00	.00	1193.00	4600.00	1200.48	.00	1200.56	23.54	3.69	2325.01	948.18
58.000	490.00	.00	.00	1193.00	4600.00	1201.48	.00	1201.64	24.01	4.16	1517.04	938.83
59.000	495.00	.00	.00	1195.20	4400.00	1201.66	.00	1201.73	23.60	3.43	2292.05	905.70
59.000	495.00	.00	.00	1195.20	4400.00	1202.66	.00	1202.78	21.91	3.73	1641.88	940.03
60.000	500.00	.00	.00	1196.50	4400.00	1202.98	.00	1203.07	30.09	3.82	2096.63	802.14
60.000	500.00	.00	.00	1196.50	4400.00	1203.92	.00	1204.08	30.97	4.35	1429.55	790.67
61.000	500.00	.00	.00	1197.30	4200.00	1204.27	.00	1204.34	21.58	3.45	2374.71	904.05
61.000	500.00	.00	.00	1197.30	4200.00	1205.26	.00	1205.39	22.03	3.89	1570.56	894.78
62.000	500.00	.00	.00	1199.20	4200.00	1205.39	.00	1205.46	23.20	3.29	2311.20	872.06
62.000	500.00	.00	.00	1199.20	4200.00	1206.38	.00	1206.51	22.79	3.69	1556.59	879.76
63.000	500.00	.00	.00	1200.70	4000.00	1206.64	.00	1206.72	27.69	3.72	2043.27	760.14
63.000	500.00	.00	.00	1200.70	4000.00	1207.55	.00	1207.68	24.19	3.89	1468.82	813.22
64.000	500.00	.00	.00	1201.10	4000.00	1207.88	.00	1207.94	21.45	3.17	2197.74	863.63
64.000	500.00	.00	.00	1201.10	4000.00	1208.76	.00	1208.89	24.14	3.77	1459.82	814.19
65.000	500.00	.00	.00	1202.90	4000.00	1209.17	.00	1209.26	32.97	3.95	1915.78	696.59
65.000	500.00	.00	.00	1202.90	4000.00	1210.07	.00	1210.23	29.30	4.18	1335.17	738.96
66.000	500.00	.00	.00	1204.70	4000.00	1210.56	.00	1210.62	22.70	3.23	2175.57	839.[illegible]
66.000	500.00	.00	.00	1204.70	4000.00	1211.46	.00	1211.59	25.27	3.83	1450.69	795.[illegible]
67.000	495.00	.00	.00	1205.70	3800.00	1211.82	.00	1211.90	29.71	3.70	1945.63	697.10
67.000	495.00	.00	.00	1205.70	3800.00	1212.77	.00	1212.91	28.12	4.04	1332.66	716.54

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
68.000	500.00	.00	.00	1207.00	3800.00	1213.24	.00	1213.30	26.46	3.46	2071.99	738.75
68.000	500.00	.00	.00	1207.00	3800.00	1214.13	.00	1214.25	25.81	3.83	1388.37	747.91
69.000	500.00	.00	.00	1208.50	3800.00	1214.53	.00	1214.59	25.20	3.42	2096.18	756.93
69.000	500.00	.00	.00	1208.50	3800.00	1215.41	.00	1215.55	25.80	3.88	1342.95	748.10
70.000	500.00	.00	.00	1209.10	3700.00	1215.82	.00	1215.90	26.92	3.65	1925.05	713.10
70.000	500.00	.00	.00	1209.10	3700.00	1216.73	.00	1216.88	27.47	4.12	1280.69	705.89
71.000	500.00	.00	.00	1210.30	3700.00	1217.10	.00	1217.18	24.40	3.49	1988.54	749.04
71.000	500.00	.00	.00	1210.30	3700.00	1218.00	.00	1218.13	22.80	3.76	1347.51	774.80
72.000	500.00	.00	.00	1211.80	3600.00	1218.34	.00	1218.42	25.26	3.73	1891.54	716.34
72.000	500.00	.00	.00	1211.80	3600.00	1219.23	.00	1219.40	28.02	4.35	1206.93	680.06
73.000	500.00	.00	.00	1213.60	3600.00	1219.71	.00	1219.80	30.15	3.68	1827.97	655.62
73.000	500.00	.00	.00	1213.60	3600.00	1220.66	.00	1220.82	28.55	4.07	1243.35	673.71
74.000	505.00	.00	.00	1214.70	3600.00	1221.23	.00	1221.32	29.88	3.80	1887.51	658.64
74.000	505.00	.00	.00	1214.70	3600.00	1222.17	.00	1222.34	31.82	4.41	1203.70	638.16
75.000	490.00	.00	.00	1216.50	3500.00	1222.65	.00	1222.74	28.29	3.81	1947.77	658.05
75.000	490.00	.00	.00	1216.50	3500.00	1223.54	.00	1223.66	22.77	3.81	1452.33	733.51
76.000	490.00	.00	.00	1217.50	3500.00	1224.05	.00	1224.13	28.12	3.83	1920.47	660.02
76.000	490.00	.00	.00	1217.50	3500.00	1224.85	.00	1225.02	33.74	4.61	1194.63	602.58
77.000	510.00	.00	.00	1218.80	3400.00	1225.28	.00	1225.36	21.05	3.26	1987.88	741.12
77.000	510.00	.00	.00	1218.80	3400.00	1226.23	.00	1226.37	21.23	3.68	1281.51	737.94
78.000	515.00	.00	.00	1219.70	3400.00	1226.66	.00	1226.77	36.63	4.28	1714.84	561.81
78.000	515.00	.00	.00	1219.70	3400.00	1227.58	.00	1227.78	35.41	4.70	1112.00	571.39
79.000	510.00	.00	.00	1221.10	3300.00	1228.14	.00	1228.21	22.09	3.61	1988.38	702.15
79.000	510.00	.00	.00	1221.10	3300.00	1229.05	.00	1229.17	21.25	3.89	1317.30	715.89
80.000	495.00	.00	.00	1221.70	3300.00	1229.17	.00	1229.24	19.77	3.50	2036.78	742.09
80.000	495.00	.00	.00	1221.70	3300.00	1230.04	.00	1230.17	19.31	3.79	1324.79	751.03
81.000	505.00	.00	.00	1223.70	3200.00	1230.29	.00	1230.37	25.40	3.41	1739.75	634.88
81.000	505.00	.00	.00	1223.70	3200.00	1231.16	.00	1231.30	26.17	3.87	1159.81	625.57
82.000	505.00	.00	.00	1223.40	3200.00	1231.61	.00	1231.73	28.02	4.14	1566.10	604.53
82.000	505.00	.00	.00	1223.40	3200.00	1232.47	.00	1232.65	27.07	4.45	1078.25	614.99
83.000	505.00	.00	.00	1224.40	3100.00	1232.86	.00	1232.95	20.89	3.68	1592.38	678.32
83.000	505.00	.00	.00	1224.40	3100.00	1233.70	.00	1233.86	20.98	4.02	1052.07	676.76
84.000	495.00	.00	.00	1226.40	3100.00	1234.09	.00	1234.26	33.18	4.47	1272.29	538.16
84.000	495.00	.00	.00	1226.40	3100.00	1234.92	.00	1235.17	32.79	4.86	871.85	541.34

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
85.000	500.00	.00	.00	1228.20	3100.00	1235.56	.00	1235.68	24.50	3.81	1471.08	626.26
85.000	500.00	.00	.00	1228.20	3100.00	1236.42	.00	1236.62	25.73	4.28	954.67	611.10
86.000	500.00	.00	.00	1230.40	3000.00	1237.06	.00	1237.16	36.12	4.02	1495.92	499.19
86.000	500.00	.00	.00	1230.40	3000.00	1237.96	.00	1238.14	36.21	4.53	948.52	498.55
87.000	505.00	.00	.00	1233.30	3000.00	1238.77	.00	1238.86	31.87	3.46	1491.50	531.38
87.000	505.00	.00	.00	1233.30	3000.00	1239.69	.00	1239.85	31.71	3.93	1034.22	532.73
88.000	505.00	.00	.00	1235.50	3000.00	1240.51	.00	1240.59	36.85	3.69	1618.58	494.22
88.000	505.00	.00	.00	1235.50	3000.00	1241.45	.00	1241.60	38.42	4.33	1074.20	484.00
89.000	490.00	.00	.00	1236.80	2900.00	1242.20	.00	1242.28	32.42	4.03	1443.17	509.32
89.000	490.00	.00	.00	1236.80	2900.00	1243.13	.00	1243.30	31.07	4.48	960.70	520.27
90.000	500.00	.00	.00	1236.40	2900.00	1243.62	.00	1243.74	26.17	4.19	1498.89	566.92
90.000	500.00	.00	.00	1236.40	2900.00	1244.54	.00	1244.76	27.17	4.74	939.74	556.39

91.000	500.00	.00	.00	1239.10	2900.00	1245.12	.00	1245.20	32.37	3.72	1513.15	509.74
91.000	500.00	.00	.00	1239.10	2900.00	1246.07	.00	1246.23	32.00	4.29	942.42	512.66
92.000	500.00	.00	.00	1241.10	2900.00	1246.45	.00	1246.51	21.65	3.16	1736.43	623.26
92.000	500.00	.00	.00	1241.10	2900.00	1247.45	.00	1247.57	22.64	3.74	1077.86	609.50
93.000	500.00	.00	.00	1242.30	2900.00	1247.69	.00	1247.78	29.80	3.95	1499.55	531[illegible]
93.000	500.00	.00	.00	1242.30	2900.00	1248.65	.00	1248.79	26.13	4.20	1053.67	567.[illegible]
94.000	500.00	.00	.00	1243.80	2800.00	1249.27	.00	1249.36	33.63	4.06	1428.75	482.81
94.000	500.00	.00	.00	1243.80	2800.00	1250.16	.00	1250.36	37.51	4.85	873.96	457.18
95.000	500.00	.00	.00	1244.00	2800.00	1250.63	.00	1250.72	22.50	3.83	1446.17	590.33
95.000	500.00	.00	.00	1244.00	2800.00	1251.55	.00	1251.69	19.74	3.99	1040.92	630.14
96.000	505.00	.00	.00	1247.00	2800.00	1252.06	.00	1252.13	35.49	3.45	1384.71	469.99
96.000	505.00	.00	.00	1247.00	2800.00	1252.92	.00	1253.10	41.54	4.36	833.66	434.42
97.000	495.00	.00	.00	1248.70	2800.00	1253.78	.00	1253.87	34.40	4.02	1345.83	477.37
97.000	495.00	.00	.00	1248.70	2800.00	1254.75	.00	1254.92	32.72	4.50	893.48	489.48
98.000	500.00	.00	.00	1249.40	2800.00	1255.32	.00	1255.40	27.25	3.89	1527.37	536.36
98.000	500.00	.00	.00	1249.40	2800.00	1256.28	.00	1256.43	27.72	4.40	996.84	531.79
99.000	510.00	.00	.00	1250.80	2800.00	1256.81	.00	1256.89	31.82	3.82	1391.62	496.37
99.000	510.00	.00	.00	1250.80	2800.00	1257.79	.00	1257.95	32.44	4.43	948.08	491.59
100.000	505.00	.00	.00	1252.20	2700.00	1258.13	.00	1258.19	20.87	2.95	1636.08	591.05
100.000	505.00	.00	.00	1252.20	2700.00	1259.14	.00	1259.24	20.44	3.41	1083.15	597.20
101.000	490.00	.00	.00	1253.60	2700.00	1259.40	.00	1259.49	34.42	3.92	1313.04	460.21
101.000	490.00	.00	.00	1253.60	2700.00	1260.30	.00	1260.44	29.27	4.11	946.37	499.08

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
102.000	500.00	.00	.00	1256.10	2700.00	1260.97	.00	1261.03	27.83	3.42	1456.11	511.80
102.000	500.00	.00	.00	1256.10	2700.00	1261.59	.00	1261.68	20.84	3.27	1236.62	591[illegible]
103.000	495.00	.00	.00	1258.00	2700.00	1262.35	.00	1262.41	27.74	2.93	1444.79	512.60
103.000	495.00	.00	.00	1258.00	2700.00	1262.94	.00	1263.12	41.64	4.00	820.08	418.40
104.000	520.00	.00	.00	1259.80	2700.00	1263.94	.00	1264.00	33.58	2.43	1469.43	465.91
104.000	520.00	.00	.00	1259.80	2700.00	1264.94	.00	1265.07	33.70	3.12	926.27	465.11
105.000	500.00	.00	.00	1261.80	2700.00	1265.46	.00	1265.53	28.11	2.44	1427.85	509.23
105.000	500.00	.00	.00	1261.80	2700.00	1266.29	.00	1266.39	21.05	2.54	1092.71	588.48
106.000	500.00	.00	.00	1263.70	2700.00	1267.12	.00	1267.19	39.79	2.51	1280.65	428.01
106.000	500.00	.00	.00	1263.70	2700.00	1267.81	.00	1268.00	53.09	3.51	769.37	370.55
107.000	485.00	.00	.00	1265.20	2700.00	1268.58	.00	1268.62	22.71	1.98	1638.76	566.63
107.000	485.00	.00	.00	1265.20	2700.00	1269.55	.00	1269.64	23.18	2.55	1107.50	560.74
108.000	500.00	.00	.00	1266.00	2700.00	1270.01	.00	1270.07	36.09	2.25	1461.98	449.44
108.000	500.00	.00	.00	1266.00	2700.00	1270.90	.00	1271.02	31.92	2.74	981.54	477.87
109.000	505.00	.00	.00	1268.20	2700.00	1271.61	.00	1271.66	26.98	2.17	1597.20	519.79
109.000	505.00	.00	.00	1268.20	2700.00	1272.47	.00	1272.59	29.81	2.84	987.31	494.56
110.000	500.00	.00	.00	1270.00	2700.00	1273.03	.00	1273.07	24.11	1.77	1675.71	549.89
110.000	500.00	.00	.00	1270.00	2700.00	1273.98	.00	1274.07	26.34	2.47	1104.77	526.08
111.000	500.00	.00	.00	1271.50	2700.00	1274.26	.00	1274.30	24.82	1.88	1677.39	541.91
111.000	500.00	.00	.00	1271.50	2700.00	1275.25	.00	1275.34	24.17	2.46	1143.34	549.22
112.000	500.00	.00	.00	1272.50	2700.00	1275.53	.00	1275.57	27.44	1.77	1683.07	515.44
112.000	500.00	.00	.00	1272.50	2700.00	1276.38	.00	1276.44	20.42	2.02	1339.84	597.52
113.000	495.00	.00	.00	1273.70	2700.00	1277.07	.00	1277.11	35.10	1.67	1597.49	455.75
113.000	495.00	.00	.00	1274.50	2700.00	1277.85	.00	1277.97	50.81	2.81	983.86	378.77
114.000	510.00	.00	.00	1275.90	2700.00	1278.73	.00	1278.77	28.78	1.93	1656.92	503.[illegible]
114.000	510.00	.00	.00	1275.90	2700.00	1279.64	.00	1279.72	24.55	2.34	1160.06	544.96
115.000	515.00	.00	.00	1276.70	2700.00	1280.27	.00	1280.31	27.82	1.88	1750.35	511.86
115.000	515.00	.00	.00	1276.70	2700.00	1281.12	.00	1281.23	33.80	2.71	1014.18	464.41

116.000	500.00	.00	.00	1278.70	2700.00	1281.68	.00	1281.73	28.95	1.86	1678.97	501.78
116.000	500.00	.00	.00	1278.70	2700.00	1282.68	.00	1282.78	28.50	2.52	1078.77	505.80
117.000	495.00	.00	.00	1279.60	2700.00	1282.88	.00	1282.91	20.60	1.87	1892.97	594.81
117.000	495.00	.00	.00	1279.60	2700.00	1283.84	.00	1283.92	19.04	2.29	1211.53	618.72
118.000	515.00	.00	.00	1279.80	2700.00	1283.82	.00	1283.85	16.33	2.08	1970.31	668.19
118.000	515.00	.00	.00	1279.80	2700.00	1284.77	.00	1284.84	16.98	2.54	1281.08	655.30

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
119.000	500.00	.00	.00	1281.60	2700.00	1284.98	.00	1285.03	32.47	2.67	1572.60	473.81
119.000	500.00	.00	.00	1281.60	2700.00	1285.94	.00	1286.07	32.95	3.31	941.62	470.38

WATERMAN WASH - EAST PRO

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.000	13200.00	1127.43	.00	.00	.00	1536.96	.00
1.000	13200.00	1128.43	1.00	.00	1.00	420.00	.00
2.000	13200.00	1130.43	.00	3.00	.00	1624.70	955.00
2.000	13200.00	1131.04	.61	2.61	.61	750.00	955.00
3.000	13200.00	1133.29	.00	2.85	.00	1834.54	1040.00
3.000	13200.00	1134.00	.71	2.96	.71	710.00	1040.00
4.000	13200.00	1135.46	.00	2.18	.00	1784.20	740.00
4.000	13200.00	1136.11	.65	2.11	.65	671.26	740.00
5.000	13200.00	1137.77	.00	2.30	.00	1960.97	705.00
5.000	13200.00	1138.38	.61	2.26	.61	914.47	705.00
6.000	11800.00	1139.35	.00	1.59	.00	1502.10	500.00
6.000	11800.00	1140.05	.70	1.67	.70	638.10	500.00
7.000	10400.00	1140.47	.00	1.11	.00	1364.66	500.00
7.000	10400.00	1141.39	.92	1.34	.92	869.40	500.00
8.000	9000.00	1141.38	.00	.91	.00	1891.31	500.00
8.000	9000.00	1142.31	.93	.93	.93	700.00	500.00
9.000	9000.00	1142.05	.00	.67	.00	1512.42	485.00
9.000	9000.00	1143.05	1.00	.74	1.00	568.79	485.00
10.000	9000.00	1143.16	.00	1.11	.00	1170.13	490.00
10.000	9000.00	1144.04	.88	.98	.88	381.10	490.00
11.000	8600.00	1144.25	.00	1.10	.00	1388.92	460.00
11.000	8600.00	1145.18	.92	1.14	.92	706.97	460.00
12.000	8600.00	1145.23	.00	.97	.00	1477.82	495.00
12.000	8600.00	1145.98	.76	.81	.76	531.36	495.00
13.000	8600.00	1146.62	.00	1.39	.00	1775.80	500.00
13.000	8600.00	1147.44	.82	1.45	.82	494.27	500.00
14.000	8600.00	1147.76	.00	1.14	.00	1791.05	450.00
14.000	8600.00	1148.74	.98	1.30	.98	550.00	450.00
15.000	8200.00	1149.05	.00	1.29	.00	2225.88	510.00
15.000	8200.00	1149.98	.93	1.24	.93	690.00	510.00
16.000	8200.00	1150.17	.00	1.12	.00	1931.03	500.00
16.000	8200.00	1151.13	.95	1.15	.95	680.00	500.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
17.000	8200.00	1151.48	.00	1.31	.00	1687.05	500.00
17.000	8200.00	1152.39	.91	1.26	.91	540.00	500.00
18.000	7800.00	1152.84	.00	1.35	.00	1788.83	545.00
18.000	7800.00	1153.70	.86	1.31	.86	570.00	545.00
19.000	7800.00	1153.93	.00	1.10	.00	1907.90	500.00
19.000	7800.00	1154.77	.84	1.07	.84	630.00	500.00
20.000	7600.00	1155.42	.00	1.49	.00	2078.25	500.00
20.000	7600.00	1156.38	.96	1.61	.96	660.00	500.00
21.000	7600.00	1156.42	.00	.99	.00	1630.20	520.00
21.000	7600.00	1157.39	.98	1.01	.98	540.00	520.00
22.000	7300.00	1157.92	.00	1.50	.00	1656.09	505.00
22.000	7300.00	1158.66	.73	1.26	.73	550.00	505.00
23.000	7300.00	1159.90	.00	1.98	.00	1682.74	500.00
23.000	7300.00	1160.89	.99	2.23	.99	550.00	500.00
24.000	7300.00	1161.46	.00	1.56	.00	1252.11	500.00
24.000	7300.00	1162.43	.97	1.54	.97	480.00	500.00
25.000	7300.00	1162.88	.00	1.42	.00	1364.64	500.00
25.000	7300.00	1163.83	.95	1.40	.95	470.00	500.00
26.000	7300.00	1164.21	.00	1.33	.00	1242.44	500.00
26.000	7300.00	1165.19	.98	1.36	.98	440.00	500.00
27.000	7000.00	1165.64	.00	1.43	.00	1468.57	490.00
27.000	7000.00	1166.62	.98	1.43	.98	410.00	490.00
28.000	7000.00	1166.90	.00	1.27	.00	1142.30	485.00
28.000	7000.00	1167.85	.95	1.23	.95	440.00	485.00
29.000	7000.00	1167.98	.00	1.08	.00	990.12	540.00
29.000	7000.00	1168.87	.89	1.02	.89	390.00	540.00
30.000	7000.00	1169.11	.00	1.13	.00	992.70	520.00
30.000	7000.00	1169.97	.86	1.10	.86	390.00	520.00
31.000	7000.00	1170.40	.00	1.29	.00	1452.55	475.00
31.000	7000.00	1171.32	.92	1.35	.92	490.00	475.00
32.000	7000.00	1171.12	.00	.72	.00	1240.94	515.00
32.000	7000.00	1172.10	.99	.79	.99	450.00	515.00
33.000	6700.00	1171.93	.00	.81	.00	881.01	500.00
33.000	6700.00	1172.86	.93	.76	.93	370.00	500.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
34.000	6700.00	1173.48	.00	1.56	.00	1080.33	500.00
34.000	6700.00	1174.38	.90	1.52	.90	390.00	500.00
35.000	6700.00	1174.59	.00	1.10	.00	893.90	490.00
35.000	6700.00	1175.48	.90	1.11	.90	350.00	490.00
36.000	6700.00	1175.83	.00	1.24	.00	916.58	500.00
36.000	6700.00	1176.75	.92	1.26	.92	370.00	500.00
37.000	6700.00	1176.89	.00	1.06	.00	898.77	500.00
37.000	6700.00	1177.88	.99	1.13	.99	380.00	500.00
38.000	6700.00	1177.83	.00	.94	.00	1010.91	480.00
38.000	6700.00	1178.82	1.00	.95	1.00	420.00	480.00
39.000	6400.00	1178.77	.00	.95	.00	1422.29	500.00
39.000	6400.00	1179.71	.94	.89	.94	420.00	500.00
40.000	6400.00	1179.94	.00	1.17	.00	1187.72	500.00

40.000	6400.00	1180.93	.98	1.21	.98	430.00	500.00
41.000	6400.00	1180.97	.00	1.03	.00	1322.21	515.00
41.000	6400.00	1181.96	.99	1.03	.99	460.00	515.00
42.000	6200.00	1182.25	.00	1.28	.00	1055.66	495.00
42.000	6200.00	1183.19	.95	1.23	.95	400.00	495.00
43.000	6200.00	1183.48	.00	1.23	.00	1101.42	500.00
43.000	6200.00	1184.47	.99	1.28	.99	420.00	500.00
44.000	6000.00	1184.53	.00	1.05	.00	975.24	505.00
44.000	6000.00	1185.49	.96	1.02	.96	380.00	505.00
45.000	6000.00	1185.96	.00	1.43	.00	1124.21	485.00
45.000	6000.00	1186.92	.96	1.43	.96	380.00	485.00
46.000	5800.00	1187.11	.00	1.15	.00	1143.48	510.00
46.000	5800.00	1188.04	.93	1.12	.93	430.00	510.00
47.000	5700.00	1188.12	.00	1.01	.00	1381.19	500.00
47.000	5700.00	1189.06	.94	1.02	.94	490.00	500.00
48.000	5600.00	1189.14	.00	1.01	.00	1045.12	495.00
48.000	5600.00	1190.11	.97	1.05	.97	380.00	495.00
49.000	5400.00	1190.29	.00	1.16	.00	987.90	500.00
49.000	5400.00	1191.24	.95	1.13	.95	360.00	500.00
50.000	5400.00	1191.36	.00	1.07	.00	1018.23	505.00
50.000	5400.00	1192.32	.96	1.08	.96	390.00	505.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
51.000	5200.00	1192.16	.00	.80	.00	1064.28	500.00
51.000	5200.00	1193.15	.99	.82	.99	410.00	500.00
52.000	5000.00	1192.94	.00	.78	.00	1049.44	500.00
52.000	5000.00	1193.80	.86	.66	.86	430.00	500.00
53.000	5000.00	1193.93	.00	.99	.00	1019.86	500.00
53.000	5000.00	1194.73	.80	.93	.80	390.00	500.00
54.000	5000.00	1195.11	.00	1.17	.00	955.84	500.00
54.000	5000.00	1196.04	.94	1.31	.94	340.00	500.00
55.000	4800.00	1197.16	.00	2.06	.00	1211.80	495.00
55.000	4800.00	1198.02	.86	1.98	.86	370.00	495.00
56.000	4800.00	1198.18	.00	1.02	.00	1393.20	510.00
56.000	4800.00	1199.16	.98	1.14	.98	430.00	510.00
57.000	4600.00	1199.31	.00	1.12	.00	1446.76	505.00
57.000	4600.00	1200.31	1.00	1.15	1.00	410.00	505.00
58.000	4600.00	1200.48	.00	1.17	.00	1442.49	490.00
58.000	4600.00	1201.48	1.00	1.17	1.00	360.00	490.00
59.000	4400.00	1201.66	.00	1.18	.00	1460.98	495.00
59.000	4400.00	1202.66	.99	1.18	.99	430.00	495.00
60.000	4400.00	1202.98	.00	1.32	.00	1259.97	500.00
60.000	4400.00	1203.92	.94	1.26	.94	400.00	500.00
61.000	4200.00	1204.27	.00	1.29	.00	1466.84	500.00
61.000	4200.00	1205.26	.99	1.34	.99	420.00	500.00
62.000	4200.00	1205.39	.00	1.12	.00	1490.88	500.00
62.000	4200.00	1206.38	.99	1.12	.99	420.00	500.00
63.000	4000.00	1206.64	.00	1.25	.00	1387.29	500.00
63.000	4000.00	1207.55	.91	1.17	.91	410.00	500.00
64.000	4000.00	1207.88	.00	1.23	.00	1315.20	500.00
64.000	4000.00	1208.76	.89	1.21	.89	400.00	500.00

65.000	4000.00	1209.17	.00	1.29	.00	1366.66	500.00
65.000	4000.00	1210.07	.90	1.31	.90	380.00	500.00
66.000	4000.00	1210.56	.00	1.39	.00	1545.92	500.00
66.000	4000.00	1211.46	.90	1.39	.90	410.00	500.00
67.000	3800.00	1211.82	.00	1.27	.00	1438.28	495.00
67.000	3800.00	1212.77	.94	1.31	.94	390.00	495.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
68.000	3800.00	1213.24	.00	1.41	.00	1499.48	500.00
68.000	3800.00	1214.13	.89	1.36	.89	400.00	500.00
69.000	3800.00	1214.53	.00	1.29	.00	1597.81	500.00
69.000	3800.00	1215.41	.88	1.28	.88	370.00	500.00
70.000	3700.00	1215.82	.00	1.29	.00	1450.71	500.00
70.000	3700.00	1216.73	.91	1.32	.91	370.00	500.00
71.000	3700.00	1217.10	.00	1.28	.00	1442.74	500.00
71.000	3700.00	1218.00	.90	1.27	.90	360.00	500.00
72.000	3600.00	1218.34	.00	1.23	.00	1405.36	500.00
72.000	3600.00	1219.23	.89	1.23	.89	350.00	500.00
73.000	3600.00	1219.71	.00	1.37	.00	1435.35	500.00
73.000	3600.00	1220.66	.95	1.43	.95	380.00	500.00
74.000	3600.00	1221.23	.00	1.52	.00	1473.74	505.00
74.000	3600.00	1222.17	.94	1.51	.94	380.00	505.00
75.000	3500.00	1222.65	.00	1.42	.00	1728.26	490.00
75.000	3500.00	1223.54	.89	1.37	.89	500.00	490.00
76.000	3500.00	1224.05	.00	1.39	.00	1479.01	490.00
76.000	3500.00	1224.85	.81	1.31	.81	410.00	490.00
77.000	3400.00	1225.28	.00	1.23	.00	1514.02	510.00
77.000	3400.00	1226.23	.95	1.38	.95	380.00	510.00
78.000	3400.00	1226.66	.00	1.38	.00	1500.91	515.00
78.000	3400.00	1227.58	.93	1.35	.93	380.00	515.00
79.000	3300.00	1228.14	.00	1.48	.00	1552.39	510.00
79.000	3300.00	1229.05	.91	1.46	.91	390.00	510.00
80.000	3300.00	1229.17	.00	1.03	.00	1520.37	495.00
80.000	3300.00	1230.04	.87	1.00	.87	380.00	495.00
81.000	3200.00	1230.29	.00	1.12	.00	1277.19	505.00
81.000	3200.00	1231.16	.87	1.11	.87	350.00	505.00
82.000	3200.00	1231.61	.00	1.32	.00	1083.92	505.00
82.000	3200.00	1232.47	.86	1.31	.86	310.00	505.00
83.000	3100.00	1232.86	.00	1.25	.00	1039.43	505.00
83.000	3100.00	1233.70	.84	1.23	.84	240.00	505.00
84.000	3100.00	1234.09	.00	1.23	.00	873.56	495.00
84.000	3100.00	1234.92	.83	1.21	.83	230.00	495.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
85.000	3100.00	1235.56	.00	1.47	.00	1116.34	500.00
85.000	3100.00	1236.42	.86	1.50	.86	240.00	500.00
86.000	3000.00	1237.06	.00	1.51	.00	1278.75	500.00
86.000	3000.00	1237.96	.89	1.54	.89	290.00	500.00
87.000	3000.00	1238.77	.00	1.71	.00	1208.41	505.00
87.000	3000.00	1239.69	.92	1.73	.92	340.00	505.00

88.000	3000.00	1240.51	.00	1.74	.00	1325.43	505.00
88.000	3000.00	1241.45	.94	1.76	.94	420.00	505.00
89.000	2900.00	1242.20	.00	1.68	.00	1138.34	490.00
89.000	2900.00	1243.13	.93	1.68	.93	290.00	490.00
90.000	2900.00	1243.62	.00	1.42	.00	1146.46	500.00
90.000	2900.00	1244.54	.92	1.41	.92	290.00	500.00
91.000	2900.00	1245.12	.00	1.50	.00	1267.03	500.00
91.000	2900.00	1246.07	.95	1.53	.95	280.00	500.00
92.000	2900.00	1246.45	.00	1.34	.00	1236.02	500.00
92.000	2900.00	1247.45	1.00	1.38	1.00	300.00	500.00
93.000	2900.00	1247.69	.00	1.24	.00	1182.42	500.00
93.000	2900.00	1248.65	.96	1.20	.96	320.00	500.00
94.000	2800.00	1249.27	.00	1.58	.00	1079.97	500.00
94.000	2800.00	1250.16	.89	1.51	.89	280.00	500.00
95.000	2800.00	1250.63	.00	1.36	.00	979.37	500.00
95.000	2800.00	1251.55	.92	1.39	.92	270.00	500.00
96.000	2800.00	1252.06	.00	1.43	.00	1003.45	505.00
96.000	2800.00	1252.92	.85	1.36	.85	260.00	505.00
97.000	2800.00	1253.78	.00	1.72	.00	1052.90	495.00
97.000	2800.00	1254.75	.97	1.83	.97	260.00	495.00
98.000	2800.00	1255.32	.00	1.54	.00	1151.86	500.00
98.000	2800.00	1256.28	.96	1.53	.96	300.00	500.00
99.000	2800.00	1256.81	.00	1.49	.00	1030.34	510.00
99.000	2800.00	1257.79	.98	1.51	.98	300.00	510.00
100.000	2700.00	1258.13	.00	1.32	.00	1189.38	505.00
100.000	2700.00	1259.14	1.00	1.35	1.00	320.00	505.00
101.000	2700.00	1259.40	.00	1.27	.00	1110.84	490.00
101.000	2700.00	1260.30	.90	1.16	.90	316.09	490.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
102.000	2700.00	1260.97	.00	1.57	.00	1250.51	500.00
102.000	2700.00	1261.59	.63	1.29	.63	450.00	500.00
103.000	2700.00	1262.35	.00	1.38	.00	1184.13	495.00
103.000	2700.00	1262.94	.60	1.35	.60	280.00	495.00
104.000	2700.00	1263.94	.00	1.59	.00	1358.17	520.00
104.000	2700.00	1264.94	1.00	2.00	1.00	320.00	520.00
105.000	2700.00	1265.46	.00	1.52	.00	1206.26	500.00
105.000	2700.00	1266.29	.83	1.36	.83	340.00	500.00
106.000	2700.00	1267.12	.00	1.65	.00	1082.79	500.00
106.000	2700.00	1267.81	.69	1.52	.69	280.00	500.00
107.000	2700.00	1268.58	.00	1.46	.00	1264.49	485.00
107.000	2700.00	1269.55	.97	1.74	.97	380.00	485.00
108.000	2700.00	1270.01	.00	1.43	.00	1332.14	500.00
108.000	2700.00	1270.90	.89	1.35	.89	350.00	500.00
109.000	2700.00	1271.61	.00	1.60	.00	1505.15	505.00
109.000	2700.00	1272.47	.86	1.57	.86	340.00	505.00
110.000	2700.00	1273.03	.00	1.42	.00	1354.92	500.00
110.000	2700.00	1273.98	.95	1.51	.95	410.00	500.00
111.000	2700.00	1274.26	.00	1.23	.00	1415.47	500.00
111.000	2700.00	1275.25	.99	1.27	.99	420.00	500.00
112.000	2700.00	1275.53	.00	1.27	.00	1359.49	500.00

112.000	2700.00	1276.38	.84	1.12	.84	550.00	500.00
113.000	2700.00	1277.07	.00	1.54	.00	1544.98	495.00
113.000	2700.00	1277.85	.79	1.48	.79	510.00	495.00
114.000	2700.00	1278.73	.00	1.66	.00	1573.76	510.00
114.000	2700.00	1279.64	.91	1.78	.91	440.00	510.00
115.000	2700.00	1280.27	.00	1.54	.00	1658.30	515.00
115.000	2700.00	1281.12	.85	1.48	.85	400.00	515.00
116.000	2700.00	1281.68	.00	1.42	.00	1601.77	500.00
116.000	2700.00	1282.68	1.00	1.56	1.00	410.00	500.00
117.000	2700.00	1282.88	.00	1.19	.00	1661.33	495.00
117.000	2700.00	1283.84	.96	1.16	.96	410.00	495.00
118.000	2700.00	1283.82	.00	.94	.00	1429.73	515.00
118.000	2700.00	1284.77	.95	.93	.95	430.00	515.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
119.000	2700.00	1284.98	.00	1.16	.00	1641.48	500.00
119.000	2700.00	1285.94	.96	1.17	.96	330.00	500.00

SUMMARY OF ERRORS AND SPECIAL NOTES

FLOODWAY DATA, WATERMAN WASH - EAST PRO
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1.000	420.	2767.	4.8	1128.4	1127.4	1.0
2.000	750.	3000.	4.4	1131.0	1130.4	.6
3.000	710.	3190.	4.1	1134.0	1133.3	.7
4.000	710.	2883.	4.6	1136.2	1135.5	.7
5.000	920.	3034.	4.4	1138.4	1137.8	.6
6.000	638.	2829.	4.2	1140.1	1139.4	.7
7.000	869.	3080.	3.4	1141.4	1140.5	.9
8.000	700.	3197.	2.8	1142.3	1141.4	.9
9.000	570.	2516.	3.6	1143.0	1142.0	1.0
10.000	750.	1918.	4.7	1144.1	1143.2	.9
11.000	860.	2877.	3.0	1145.2	1144.3	.9
12.000	650.	2022.	4.3	1146.0	1145.2	.8
13.000	570.	2026.	4.2	1147.4	1146.6	.8
14.000	550.	2312.	3.7	1148.8	1147.8	1.0
15.000	690.	2489.	3.3	1149.9	1149.0	.9
16.000	680.	2485.	3.3	1151.2	1150.2	1.0
17.000	540.	2036.	4.0	1152.4	1151.5	.9
18.000	570.	2423.	3.2	1153.7	1152.8	.9
19.000	630.	1934.	4.0	1154.7	1153.9	.8
20.000	660.	2363.	3.2	1156.4	1155.4	1.0
21.000	540.	2337.	3.3	1157.4	1156.4	1.0
22.000	550.	1610.	4.5	1158.6	1157.9	.7
23.000	550.	1978.	3.7	1160.9	1159.9	1.0
24.000	480.	1953.	3.7	1162.5	1161.5	1.0
25.000	470.	2032.	3.6	1163.8	1162.9	.9
26.000	440.	1835.	4.0	1165.2	1164.2	1.0
27.000	410.	1854.	3.8	1166.6	1165.6	1.0
28.000	440.	2023.	3.5	1167.8	1166.9	.9

29.000	390.	1990.	3.5	1168.9	1168.0	.9
30.000	390.	1710.	4.1	1170.0	1169.1	.9
31.000	490.	2206.	3.2	1171.3	1170.4	.9
32.000	450.	2365.	3.0	1172.1	1171.1	1.0
33.000	370.	1603.	4.2	1172.8	1171.9	.9
34.000	390.	1931.	3.5	1174.4	1173.5	.9
35.000	350.	1736.	3.9	1175.5	1174.6	.9
36.000	370.	1836.	3.6	1176.7	1175.8	.9
37.000	380.	1889.	3.5	1177.9	1176.9	1.0
38.000	420.	2177.	3.1	1178.8	1177.8	1.0
39.000	420.	1776.	3.6	1179.7	1178.8	.9
40.000	430.	1938.	3.3	1180.9	1179.9	1.0
41.000	460.	2029.	3.2	1182.0	1181.0	1.0
42.000	400.	1632.	3.8	1183.1	1182.2	.9

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FLOODWAY DATA, WATERMAN WASH - EAST PRO
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
43.000	420.	2216.	2.8	1184.5	1183.5	1.0
44.000	380.	1617.	3.7	1185.5	1184.5	1.0
45.000	380.	1853.	3.2	1187.0	1186.0	1.0
46.000	430.	1943.	3.0	1188.0	1187.1	.9
47.000	490.	2051.	2.8	1189.0	1188.1	.9
48.000	380.	1743.	3.2	1190.1	1189.1	1.0
49.000	360.	1751.	3.1	1191.2	1190.3	.9
50.000	390.	1738.	3.1	1192.4	1191.4	1.0
51.000	410.	2157.	2.4	1193.2	1192.2	1.0
52.000	430.	1751.	2.9	1193.8	1192.9	.9
53.000	390.	1867.	2.7	1194.7	1193.9	.8
54.000	340.	1177.	4.2	1196.0	1195.1	.9
55.000	370.	1592.	3.0	1198.1	1197.2	.9
56.000	430.	1717.	2.8	1199.2	1198.2	1.0
57.000	410.	1615.	2.8	1200.3	1199.3	1.0
58.000	360.	1517.	3.0	1201.5	1200.5	1.0
59.000	430.	1642.	2.7	1202.7	1201.7	1.0
60.000	400.	1430.	3.1	1203.9	1203.0	.9
61.000	420.	1571.	2.7	1205.3	1204.3	1.0
62.000	420.	1557.	2.7	1206.4	1205.4	1.0
63.000	410.	1469.	2.7	1207.5	1206.6	.9
64.000	400.	1460.	2.7	1208.8	1207.9	.9
65.000	380.	1335.	3.0	1210.1	1209.2	.9
66.000	410.	1451.	2.8	1211.5	1210.6	.9
67.000	390.	1333.	2.9	1212.7	1211.8	.9
68.000	400.	1388.	2.7	1214.1	1213.2	.9
69.000	370.	1343.	2.8	1215.4	1214.5	.9
70.000	370.	1281.	2.9	1216.7	1215.8	.9
71.000	360.	1348.	2.7	1218.0	1217.1	.9
72.000	350.	1207.	3.0	1219.2	1218.3	.9
73.000	380.	1243.	2.9	1220.7	1219.7	1.0
74.000	380.	1204.	3.0	1222.1	1221.2	.9
75.000	500.	1452.	2.4	1223.6	1222.7	.9
76.000	410.	1195.	2.9	1224.8	1224.0	.8
77.000	380.	1282.	2.7	1226.3	1225.3	1.0
78.000	380.	1112.	3.1	1227.6	1226.7	.9
79.000	390.	1317.	2.5	1229.0	1228.1	.9
80.000	380.	1325.	2.5	1230.1	1229.2	.9
81.000	350.	1160.	2.8	1231.2	1230.3	.9
82.000	310.	1078.	3.0	1232.5	1231.6	.9
83.000	240.	1052.	2.9	1233.7	1232.9	.8
84.000	230.	872.	3.6	1234.9	1234.1	.8

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FLOODWAY DATA, WATERMAN WASH - EAST PRO
PROFILE NO. 2

------- FLOODWAY ------- WATER SURFACE ELEVATION

STATION	WIDTH	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
85.000	240.	955.	3.2	1236.5	1235.6	.9
86.000	290.	949.	3.2	1238.0	1237.1	.9
87.000	340.	1034.	2.9	1239.7	1238.8	.9
88.000	420.	1074.	2.8	1241.4	1240.5	.9
89.000	290.	961.	3.0	1243.1	1242.2	.9
90.000	290.	940.	3.1	1244.5	1243.6	.9
91.000	280.	942.	3.1	1246.0	1245.1	.9
92.000	300.	1078.	2.7	1247.5	1246.5	1.0
93.000	320.	1054.	2.8	1248.7	1247.7	1.0
94.000	280.	874.	3.2	1250.2	1249.3	.9
95.000	270.	1041.	2.7	1251.5	1250.6	.9
96.000	260.	834.	3.4	1253.0	1252.1	.9
97.000	260.	893.	3.1	1254.8	1253.8	1.0
98.000	300.	997.	2.8	1256.3	1255.3	1.0
99.000	300.	948.	3.0	1257.8	1256.8	1.0
100.000	320.	1083.	2.5	1259.1	1258.1	1.0
101.000	450.	946.	2.9	1260.3	1259.4	.9
102.000	450.	1237.	2.2	1261.6	1261.0	.6
103.000	280.	820.	3.3	1262.9	1262.3	.6
104.000	320.	926.	2.9	1264.9	1263.9	1.0
105.000	340.	1093.	2.5	1266.3	1265.5	.8
106.000	280.	769.	3.5	1267.8	1267.1	.7
107.000	380.	1107.	2.4	1269.6	1268.6	1.0
108.000	350.	982.	2.8	1270.9	1270.0	.9
109.000	340.	987.	2.7	1272.5	1271.6	.9
110.000	410.	1105.	2.4	1274.0	1273.0	1.0
111.000	420.	1143.	2.4	1275.3	1274.3	1.0
112.000	550.	1340.	2.0	1276.3	1275.5	.8
113.000	510.	984.	2.7	1277.9	1277.1	.8
114.000	440.	1160.	2.3	1279.6	1278.7	.9
115.000	400.	1014.	2.7	1281.2	1280.3	.9
116.000	410.	1079.	2.5	1282.7	1281.7	1.0
117.000	410.	1212.	2.2	1283.9	1282.9	1.0
118.000	430.	1281.	2.1	1284.8	1283.8	1.0
119.000	330.	942.	2.9	1286.0	1285.0	1.0

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THIS RUN EXECUTED 10-31-91

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
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APPENDIX D

HEC-2 PRINTOUT (West Prong)

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1*****************************************************
 *  WATER SURFACE PROFILES                           *
 *  VERSION OF NOVEMBER 1976                         *
 *  UPDATED MAY 1984                                 *
 *  IBM-PC-XT VERSION AUGUST 1985                    *
 *  RUN DATE  09-04-91   TIME  14:38:10               *
 *****************************************************
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*****************************************
 *  U.S. ARMY CORPS OF ENGINEERS         *
 *  THE HYDROLOGIC ENGINEERING CENTER    *
 *  609 SECOND STREET, SUITE D           *
 *  DAVIS, CALIFORNIA 95616              *
  *  (916) 440-2105 (FTS) 448-2105
*****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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09-04-91 14:38:10 PAGE 1

THIS RUN EXECUTED 09-04-91

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*****************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
*****************************************************
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C
T1      WATERMAN WASH FLOOD INSURANCE STUDY - STANLEY CONSULTANTS (SCI#10512)
T2      WEST PRONG - UPPER WATERSHED - 100 YR Q - NATURAL PROFILE
T3      WATERMAN WASH - WEST PRONG UPPER   FILE NAME IS: WWH2WPF  DATE: 8-24-91

   ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.       2.        0.        0.   .000000       .00        .0        0.  1141.380      .000

J2 NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     .000      .000    -1.000      .000      .000      .000      .000      .000      .000    15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

   110.000   150.000   200.000      .000      .000      .000      .000      .000      .000      .000


NC      .055      .045      .045      .000      .000      .000      .000      .000      .000      .000
QT     3.000  4800.000  4800.000  4800.000      .000      .000      .000      .000      .000      .000
ET      .000      .000    10.400     9.100      .000      .000      .000      .000   930.000  1630.000
X1   130.000    27.000  1047.900  1285.400  2150.000  2150.000  2150.000      .000      .000      .000
GR  1144.200      .000  1144.200     1.000  1142.300   707.200  1142.300   707.300  1142.800  1047.900
GR  1142.300  1057.100  1139.500  1068.700  1139.500  1103.900  1136.800  1119.200  1136.900  1219.500
GR  1138.900  1236.300  1140.300  1252.000  1138.400  1268.600  1140.400  1285.400  1140.200  1300.200
GR  1139.800  1326.200  1140.500  1355.000  1140.400  1373.700  1139.600  1403.300  1140.200  1413.100
GR  1139.600  1931.600  1140.000  1946.300  1140.000  1952.400  1139.400  1966.600  1138.900  2219.600
GR  1142.100  2286.200  1141.900  2308.800      .000      .000      .000      .000      .000      .000

ET      .000      .000      .000     9.100      .000      .000      .000      .000   850.000  1500.000
X1   131.000    34.000   864.300  1309.000   510.000   510.000   510.000      .000      .000      .000
GR  1146.000      .000  1146.000    10.000  1146.000    20.000  1146.000    30.000  1146.000    40.000
GR  1144.800   864.300  1138.000   900.300  1137.800   950.200  1141.700   972.000  1141.800   990.700
GR  1140.300  1000.500  1142.800  1030.200  1140.900  1047.500  1141.200  1089.700  1142.100  1098.700
GR  1139.600  1112.000  1139.800  1150.400  1138.900  1193.800  1138.700  1252.100  1141.800  1271.100
GR  1144.000  1293.400  1144.000  1309.000  1140.700  1323.800  1141.700  1341.200  1144.000  1349.000
GR  1144.000  1398.500  1144.000  1404.200  1144.000  1417.600  1143.000  1424.700  1143.000  1613.900
GR  1144.000  1634.400  1143.800  2101.400  1145.000  2114.000  1145.000  2422.200      .000      .000

      .000      .000      .000     9.100      .000      .000      .000      .000   800.000  1840.000
   132.000    48.000   790.100  1457.700   490.000   490.000   490.000      .000      .000      .000
GR  1148.100      .000  1148.100    10.000  1148.100    20.000  1148.100    30.000  1148.100    40.000
GR  1146.400   790.100  1145.800   815.700  1144.100   838.800  1141.300   850.700  1142.000   882.700
GR  1145.100   897.200  1146.100   929.800  1146.100   957.000  1145.500   997.600  1142.200  1014.200
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GR	1142.100	1028.200	1144.400	1037.700	1141.400	1061.400	1141.300	1118.400	1143.700	1211.400
GR	1144.800	1248.000	1146.300	1268.400	1141.800	1312.800	1140.500	1444.000	1146.000	1457.700

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GR	1146.000	1500.000	1146.000	1506.100	1145.100	1522.800	1146.000	1570.100	1144.700	1577.200
GR	1145.800	1591.700	1143.800	1607.900	1144.300	1629.600	1146.000	1639.400	1144.300	1670.000
GR	1146.000	1681.100	1144.500	1696.000	1145.200	1726.100	1143.200	1742.400	1143.200	1775.000
GR	1142.100	1789.700	1146.000	1827.000	1146.000	1836.600	1144.800	1848.300	1145.200	2399.600
GR	1146.700	2409.500	1146.700	2497.800	1146.700	2868.300	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1010.000	1960.000
X1	133.000	43.000	1006.300	1638.100	490.000	490.000	490.000	.000	.000	.000
GR	1150.800	.000	1149.900	174.700	1148.400	352.900	1147.200	421.500	1146.700	499.500
GR	1145.600	521.600	1146.800	540.400	1147.200	677.100	1144.700	693.100	1147.200	706.200
GR	1147.700	807.900	1147.500	1006.300	1146.200	1034.400	1142.300	1048.800	1142.800	1078.400
GR	1147.200	1102.200	1147.200	1133.000	1147.900	1172.800	1144.700	1185.400	1145.400	1212.000
GR	1146.600	1230.400	1145.400	1282.100	1145.700	1362.000	1146.500	1469.500	1141.900	1486.500
GR	1142.300	1542.000	1143.700	1598.700	1144.600	1615.200	1147.000	1638.100	1147.000	1666.400
GR	1147.200	1685.800	1146.100	1732.000	1143.400	1744.200	1146.300	1752.700	1146.100	1766.200
GR	1143.300	1772.800	1145.500	1785.900	1143.700	1798.100	1145.700	1861.400	1147.000	1886.200
GR	1147.000	1936.900	1149.700	1952.900	1149.700	2964.600	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1110.000	1890.000
X1	134.000	42.000	1119.400	1879.900	500.000	530.000	500.000	.000	.000	.000
GR	1152.400	.000	1152.600	105.000	1151.900	184.100	1150.600	297.800	1149.200	453.400
GR	1149.400	568.800	1147.400	584.200	1149.400	612.700	1149.100	649.500	1148.500	679.800
GR	1149.200	696.900	1149.200	736.500	1148.100	752.900	1149.400	788.200	1149.800	966.000
GR	1150.800	1119.400	1149.600	1134.900	1145.400	1163.900	1145.600	1196.600	1147.400	1204.700
GR	1146.000	1219.100	1147.700	1238.400	1150.100	1276.600	1150.900	1326.100	1151.200	1455.100
GR	1148.700	1474.800	1146.300	1491.900	1146.300	1504.500	1144.200	1513.500	1144.000	1547.300
GR	1144.800	1615.900	1149.200	1632.500	1153.500	1705.500	1148.300	1728.100	1148.300	1756.200
GR	1145.800	1771.900	1145.100	1818.200	1147.200	1841.400	1147.500	1863.600	1150.000	1879.900
GR	1150.400	1913.400	1150.400	3136.500	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1180.000	1890.000
X1	135.000	38.000	1275.500	1704.700	500.000	540.000	500.000	.000	.000	.000
GR	1153.500	.000	1153.300	122.000	1151.700	164.500	1152.300	202.200	1151.200	260.500
GR	1152.600	302.000	1151.400	327.500	1151.800	359.400	1151.100	648.200	1149.900	667.400
GR	1150.900	691.500	1151.000	868.700	1152.700	1186.700	1151.400	1207.800	1152.300	1228.700
GR	1152.300	1275.500	1148.100	1303.000	1148.100	1341.000	1150.400	1369.000	1151.300	1531.300
GR	1145.400	1580.100	1145.700	1606.200	1146.700	1642.300	1146.300	1688.800	1152.400	1704.700
GR	1153.900	1750.400	1148.100	1768.100	1148.100	1790.000	1151.800	1807.400	1153.700	1830.700
GR	1151.000	1844.700	1151.900	1883.000	1150.300	1922.800	1149.900	2380.200	1148.600	2413.400
GR	1152.300	2460.100	1152.400	2518.100	1152.400	3242.200	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1175.000	1690.000
X1	136.000	30.000	1264.300	1587.400	490.000	500.000	500.000	.000	.000	.000
GR	1154.700	.000	1153.900	359.900	1152.600	481.800	1152.800	531.300	1151.200	574.200
GR	1152.500	588.700	1152.200	625.500	1151.300	639.100	1152.800	682.200	1153.600	915.100
GR	1154.500	1134.000	1154.000	1193.000	1155.100	1215.500	1154.400	1230.500	1154.600	1264.300
GR	1151.900	1297.000	1150.100	1316.500	1147.400	1331.800	1148.000	1416.900	1151.600	1429.100
GR	1157.300	1485.600	1152.800	1507.000	1152.800	1539.500	1150.100	1559.400	1154.800	1587.400
GR	1155.200	1650.200	1154.600	1720.600	1155.500	1727.200	1155.500	1741.800	1155.500	3527.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1310.000	1800.000
X1	137.000	31.000	1308.900	1845.600	390.000	410.000	400.000	.000	.000	.000
GR	1156.800	.000	1156.100	243.500	1154.100	469.000	1153.400	660.700	1152.100	686.000
GR	1153.500	703.000	1153.800	795.600	1152.800	811.400	1154.100	836.400	1154.500	909.300
GR	1155.700	1039.000	1156.400	1308.900	1148.900	1360.400	1148.800	1431.300	1150.900	1450.000
GR	1159.700	1560.800	1154.500	1579.300	1154.100	1633.300	1155.600	1706.100	1154.100	1751.200
GR	1154.400	1800.400	1153.000	1811.200	1154.500	1827.900	1156.100	1845.600	1156.100	1925.000
GR	1156.000	1978.600	1155.700	2292.600	1155.600	2623.100	1155.700	2875.500	1156.100	3798.400
GR	1156.400	3798.500	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	4600.000	4600.000	4600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	950.000	1530.000
X1	138.000	41.000	957.700	1608.900	400.000	380.000	390.000	.000	.000	.000
GR	1157.900	.000	1156.700	146.700	1155.500	238.300	1155.500	270.000	1154.000	282.300
GR	1155.900	292.100	1155.600	311.400	1153.800	324.200	1155.500	333.800	1155.200	417.000
GR	1153.900	431.200	1153.900	443.900	1155.300	464.300	1155.600	546.900	1153.600	567.800
GR	1155.200	583.300	1156.100	713.400	1157.900	786.000	1158.000	957.700	1151.500	1005.800
GR	1152.400	1028.800	1151.300	1053.300	1152.500	1065.500	1153.400	1077.300	1151.700	1104.700
GR	1149.300	1116.800	1149.400	1147.500	1154.700	1170.000	1157.700	1243.200	1162.000	1288.000
GR	1156.100	1306.300	1155.700	1466.400	1156.100	1503.200	1156.500	1555.800	1155.500	1576.800

GR	1157.300	1608.900	1158.000	1673.000	1157.800	1740.400	1158.800	1745.500	1158.800	1764.100
GR	1158.800	3523.800	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	940.000	1590.000
X1	139.000	43.000	965.400	1893.200	510.000	470.000	490.000	.000	.000	.000
GR	1159.800	.000	1159.400	74.700	1159.600	153.100	1158.500	275.600	1158.000	389.700
GR	1158.000	475.500	1158.100	501.300	1156.600	510.700	1157.900	520.500	1156.900	539.500
GR	1157.800	554.500	1156.500	561.400	1157.700	570.300	1158.000	639.700	1156.700	650.600
GR	1158.500	667.600	1159.500	728.700	1159.400	784.700	1159.700	965.400	1154.900	979.700
GR	1154.800	1006.000	1156.500	1017.400	1155.400	1068.900	1153.000	1088.700	1153.000	1101.300
GR	1154.700	1111.100	1152.400	1129.900	1152.400	1156.900	1156.000	1172.100	1156.100	1198.500
GR	1158.400	1237.600	1162.800	1281.300	1164.800	1295.300	1158.100	1313.000	1159.700	1352.100
GR	1159.600	1403.000	1157.600	1439.700	1158.100	1470.400	1159.600	1601.500	1159.200	1876.200
GR	1160.100	1893.200	1160.100	1934.800	1160.100	3564.100	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1070.000	1610.000
X1	140.000	28.000	1063.300	1892.600	510.000	490.000	500.000	.000	.000	.000
GR	1164.000	.000	1160.600	400.000	1160.300	596.200	1159.000	610.300	1159.700	631.200
GR	1161.500	1051.800	1161.900	1063.300	1160.600	1099.900	1158.600	1121.500	1160.100	1136.200
GR	1156.200	1159.900	1155.600	1174.600	1156.300	1214.500	1156.600	1278.900	1159.000	1321.600
GR	1162.300	1393.000	1161.000	1411.500	1161.200	1449.000	1162.300	1465.800	1162.300	1493.300
GR	1162.300	1510.700	1161.200	1523.700	1160.300	1737.900	1162.400	1892.600	1161.800	2408.500
GR	1162.400	2435.300	1162.400	2466.700	1162.400	3566.700	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1230.000	1570.000
X1	141.000	31.000	1220.000	1620.000	500.000	500.000	500.000	.000	.000	.000
GR	1165.000	.000	1164.000	215.000	1162.500	310.000	1164.000	490.000	1161.800	785.000
GR	1164.000	900.000	1164.300	970.000	1164.000	1070.000	1163.700	1220.000	1160.000	1280.000
GR	1158.000	1350.000	1160.000	1410.000	1164.200	1475.000	1160.000	1500.000	1159.500	1520.000
GR	1160.000	1530.000	1160.000	1540.000	1159.800	1560.000	1160.000	1570.000	1163.500	1610.000
GR	1164.000	1620.000	1163.000	1720.000	1163.200	1820.000	1163.000	1870.000	1163.500	1970.000
GR	1163.400	2250.000	1163.600	2325.000	1163.200	2450.000	1164.000	2550.000	1162.000	3570.000
GR	1164.000	3850.000	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1340.000	1580.000
X1	142.000	42.000	1346.200	1540.400	500.000	520.000	500.000	.000	.000	.000
GR	1166.200	.000	1166.200	8.000	1166.200	14.900	1166.000	46.000	1165.700	195.000
GR	1165.900	325.100	1165.400	557.500	1164.500	700.000	1163.400	874.100	1161.200	889.400
GR	1163.900	903.900	1164.400	926.200	1163.200	941.900	1165.600	985.300	1165.900	1062.100
GR	1166.100	1265.200	1165.900	1307.700	1166.000	1307.800	1165.800	1346.200	1158.900	1375.300
GR	1159.100	1421.400	1160.300	1465.000	1160.000	1494.800	1164.500	1509.900	1165.600	1540.400
GR	1165.400	1561.400	1165.000	1625.100	1162.900	1660.900	1165.200	1678.400	1165.800	1707.800
GR	1162.700	1716.500	1165.500	1723.400	1164.000	1733.500	1164.700	1741.200	1164.100	1745.900
GR	1165.500	2651.000	1166.600	2659.400	1166.600	2698.100	1164.800	2704.000	1165.400	3463.300
GR	1166.800	3489.700	1166.800	3718.200	.000	.000	.000	.000	.000	.000
QT	3.000	4400.000	4400.000	4400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1360.000	1550.000
X1	143.000	37.000	1281.000	1493.200	500.000	510.000	500.000	.000	.000	.000
GR	1169.500	.000	1169.500	29.700	1168.500	108.100	1168.400	131.200	1168.000	329.800
GR	1166.800	556.200	1165.800	579.300	1166.800	594.300	1166.200	682.900	1165.600	696.200
GR	1164.300	707.700	1166.100	716.400	1163.200	734.800	1166.200	748.200	1167.100	867.200
GR	1167.900	1081.500	1168.000	1214.800	1167.900	1281.000	1161.200	1314.100	1166.200	1335.800
GR	1166.400	1352.000	1165.800	1377.300	1160.000	1394.200	1159.800	1404.100	1160.400	1404.200
GR	1160.600	1460.400	1166.000	1472.500	1168.600	1493.200	1166.700	1514.800	1167.400	1640.600
GR	1165.000	1651.200	1165.100	1689.300	1168.000	1703.900	1168.000	1722.400	1166.500	1729.800
GR	1167.400	1853.800	1169.000	2815.400	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1530.000	1720.000
X1	144.000	42.000	1400.000	1800.000	500.000	510.000	500.000	.000	.000	.000
GR	1172.000	.000	1168.000	400.000	1167.700	415.000	1169.400	525.300	1168.400	713.400
GR	1168.100	767.800	1166.400	779.500	1168.600	787.700	1168.600	810.900	1167.400	821.800
GR	1168.500	832.700	1169.300	1029.800	1169.300	1249.000	1169.900	1433.000	1167.400	1461.400
GR	1166.300	1496.900	1163.500	1516.100	1168.200	1534.700	1168.000	1582.400	1162.000	1609.100
GR	1162.500	1653.400	1161.700	1692.900	1168.400	1708.000	1170.900	1722.300	1170.600	1722.400
GR	1173.100	1737.600	1169.900	1751.900	1169.800	1831.600	1166.500	1842.700	1167.200	1863.900
GR	1169.200	1884.500	1169.200	1884.600	1166.300	1890.200	1170.500	1896.500	1170.500	1910.400
GR	1168.100	1919.600	1169.400	2129.100	1170.700	3106.800	1171.700	3111.600	1171.900	3153.500
GR	1170.700	3162.600	1170.400	4117.600	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1475.000	1725.000
X1	145.000	49.000	1290.000	1689.900	500.000	490.000	500.000	.000	.000	.000
GR	1173.500	.000	1172.200	250.600	1171.300	344.800	1169.400	372.300	1171.200	388.800
GR	1171.200	428.700	1169.400	439.800	1169.600	454.800	1171.500	459.200	1169.300	465.200
GR	1169.300	493.500	1171.000	500.800	1171.000	523.600	1170.300	684.200	1170.700	960.900
GR	1171.200	1290.000	1169.800	1340.600	1168.300	1363.100	1168.700	1390.200	1166.300	1409.900

GR	1166.300	1420.300	1170.500	1427.400	1170.100	1460.600	1167.100	1473.400	1167.600	1486.000
GR	1171.500	1496.200	1171.500	1516.600	1163.500	1538.900	1164.900	1561.200	1164.900	1575.200
GR	1164.200	1653.600	1171.400	1670.400	1171.500	1689.900	1171.000	1712.500	1170.800	1774.900
GR	1168.000	1791.000	1168.000	1791.300	1168.100	1791.400	1168.100	1820.400	1170.800	1826.800
GR	1170.800	1840.400	1167.600	1846.600	1168.100	1859.100	1173.700	1875.200	1173.900	1951.400
GR	1172.600	1999.700	1174.000	2062.100	1174.800	2164.900	1174.600	3180.800	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1480.000	1800.000
X1	146.000	48.000	1252.500	1677.700	510.000	490.000	500.000	.000	.000	.000
GR	1175.500	.000	1174.900	198.500	1174.200	340.400	1173.300	582.500	1171.300	612.000
GR	1173.200	622.100	1171.700	629.700	1171.700	652.500	1173.000	661.500	1172.800	717.600
GR	1172.400	904.200	1173.000	1135.000	1173.300	1252.500	1172.300	1301.000	1171.000	1347.800
GR	1171.000	1381.600	1167.700	1403.000	1171.800	1410.400	1169.200	1424.900	1171.900	1437.800
GR	1171.500	1491.500	1170.500	1514.900	1167.900	1532.000	1167.900	1549.500	1165.400	1571.700
GR	1164.400	1626.300	1172.700	1645.000	1173.500	1677.700	1166.600	1766.300	1166.700	1795.100
GR	1172.800	1815.500	1172.600	1856.400	1168.600	1872.900	1168.900	1889.700	1171.500	1906.400
GR	1167.800	1915.700	1172.800	1922.800	1172.000	1922.900	1173.500	1927.600	1173.900	1960.800
GR	1174.400	2245.700	1175.200	3305.400	1176.600	3310.800	1176.500	3350.000	1173.100	3364.800
GR	1173.300	3379.000	1174.200	3406.300	1174.500	4183.700	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1230.000	1540.000
X1	147.000	45.000	1024.100	1390.200	500.000	500.000	500.000	.000	.000	.000
GR	1176.800	.000	1175.900	208.100	1175.300	420.300	1173.600	441.000	1175.700	453.500
GR	1175.700	458.300	1175.700	483.600	1175.700	488.200	1175.400	550.600	1174.900	718.600
GR	1175.100	886.800	1174.300	1024.100	1172.500	1040.000	1173.500	1064.300	1172.700	1098.500
GR	1173.800	1132.100	1173.900	1193.500	1168.200	1215.000	1173.800	1234.600	1173.800	1253.700
GR	1166.000	1298.300	1166.300	1340.600	1169.700	1363.500	1175.000	1390.200	1175.000	1405.400
GR	1168.200	1431.600	1171.400	1482.500	1173.600	1501.000	1175.200	1618.700	1173.500	1635.000
GR	1172.500	1655.200	1174.500	1677.400	1170.900	1687.500	1175.000	1696.300	1174.000	1723.800
GR	1173.900	1750.500	1174.200	1750.600	1174.700	2117.900	1175.400	3141.800	1178.200	3150.700
GR	1178.400	3184.200	1175.900	3195.600	1176.200	3861.100	1178.000	3895.300	1177.900	4070.300
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1050.000	1370.000
X1	148.000	50.000	1122.500	1209.800	500.000	500.000	500.000	.000	.000	.000
GR	1178.800	.000	1178.400	141.000	1178.100	322.900	1176.700	335.100	1177.900	349.900
GR	1177.800	354.500	1177.800	383.200	1177.800	390.900	1177.400	428.800	1177.500	622.200
GR	1176.100	788.500	1175.300	840.300	1175.600	880.000	1171.800	897.300	1176.200	914.400
GR	1175.600	940.300	1175.300	979.000	1170.500	992.300	1175.900	1002.800	1175.400	1038.900
GR	1173.800	1043.900	1176.500	1054.900	1176.600	1083.200	1175.400	1122.500	1167.900	1148.800
GR	1169.000	1190.800	1175.800	1209.800	1176.000	1220.800	1174.200	1277.300	1176.000	1311.400
GR	1175.600	1349.600	1176.400	1390.900	1177.000	1446.700	1174.000	1457.200	1174.000	1494.600
GR	1175.900	1515.000	1172.900	1522.900	1177.000	1537.800	1177.000	1547.400	1177.200	1565.900
GR	1177.400	1629.300	1178.000	1629.400	1178.800	1866.700	1179.400	3003.600	1180.500	3012.600
GR	1179.200	3021.100	1179.300	3049.300	1180.600	3061.400	1177.400	3084.800	1178.300	3772.800
ET	.000	.000	.000	9.100	.000	.000	.000	.000	860.000	1170.000
X1	149.000	44.000	909.000	1111.800	500.000	500.000	500.000	.000	.000	.000
GR	1181.000	.000	1180.800	223.000	1179.700	238.300	1180.000	255.500	1178.500	260.700
GR	1179.100	289.600	1179.300	316.500	1178.200	331.400	1179.200	345.200	1175.600	356.500
GR	1179.900	374.400	1179.500	410.600	1179.200	495.100	1177.000	505.000	1177.000	515.600
GR	1178.300	523.400	1178.600	589.000	1177.700	652.700	1177.000	687.300	1178.100	814.900
GR	1176.100	829.000	1178.700	840.700	1178.200	909.000	1174.600	979.200	1172.500	995.600
GR	1172.500	1015.100	1172.200	1065.400	1171.300	1101.900	1178.300	1111.800	1179.700	1129.800
GR	1177.600	1149.600	1177.400	1262.500	1177.900	1297.000	1177.700	1357.900	1174.300	1369.000
GR	1180.000	1378.700	1180.000	1396.200	1179.200	1409.400	1179.700	1513.000	1180.000	1513.100
GR	1180.800	2896.700	1181.600	2900.300	1181.500	2954.600	1181.500	3166.600	.000	.000

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QT	3.000	4200.000	4200.000	4200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1220.000	1500.000
X1	150.000	49.000	1272.800	1468.200	500.000	500.000	500.000	.000	.000	.000
GR	1184.800	.000	1183.500	259.900	1183.200	271.400	1183.200	284.500	1182.400	574.200
GR	1181.500	588.500	1180.700	599.500	1180.700	644.600	1180.800	705.800	1181.100	876.400
GR	1181.200	907.500	1180.400	973.300	1176.700	993.400	1181.200	1010.100	1180.000	1062.500
GR	1181.200	1116.700	1180.300	1162.100	1178.300	1190.400	1176.100	1208.700	1180.100	1218.700
GR	1180.100	1237.800	1175.100	1253.200	1175.100	1265.800	1180.100	1272.800	1175.400	1298.500
GR	1174.600	1387.500	1173.300	1406.400	1173.300	1434.400	1180.700	1448.200	1181.500	1468.200
GR	1181.500	1488.900	1180.800	1503.600	1181.500	1555.000	1181.400	1612.600	1180.600	1663.600
GR	1177.400	1669.800	1181.500	1681.400	1181.500	1692.400	1180.700	1705.200	1181.400	1870.800
GR	1181.400	1870.900	1181.200	2765.600	1182.600	2880.700	1181.700	3129.800	1182.300	3225.200
GR	1183.200	3240.600	1181.400	3259.600	1181.800	3298.800	1182.300	3707.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	970.000	1300.000

X1	151.000	40.000	995.600	1153.800	500.000	490.000	500.000	.000	.000	.000
GR	1185.000	.000	1187.800	9.100	1186.200	17.300	1185.400	104.500	1183.800	170.200
GR	1185.100	193.000	1183.700	283.000	1182.600	303.400	1183.900	312.000	1182.200	328.300
GR	1183.500	352.000	1183.400	385.900	1182.100	389.000	1182.100	417.700	1181.400	434.400
GR	1183.200	468.600	1183.200	519.600	1181.900	530.000	1183.800	549.400	1183.900	584.900
GR	1180.600	812.200	1182.100	838.000	1181.800	858.500	1180.000	918.900	1181.800	928.600
GR	1178.600	943.900	1181.800	956.000	1181.200	995.600	1176.400	1022.400	1175.200	1041.100
GR	1175.100	1085.000	1178.500	1107.500	1184.000	1153.800	1184.000	1174.100	1183.700	1241.400
GR	1183.200	1375.300	1182.800	1457.300	1183.400	1642.600	1183.700	1642.700	1185.300	3008.700
ET	.000	.000	.000	9.100	.000	.000	.000	.000	990.000	1290.000
X1	152.000	37.000	1052.700	1131.600	510.000	500.000	500.000	.000	.000	.000
GR	1188.400	.000	1188.400	10.000	1187.000	311.000	1186.500	368.600	1183.600	377.100
GR	1185.800	385.700	1185.900	445.300	1186.100	534.800	1186.100	734.200	1183.200	801.300
GR	1184.800	808.000	1184.100	900.800	1181.000	923.200	1184.000	932.800	1181.200	988.700
GR	1184.700	1011.600	1183.800	1052.700	1177.100	1063.400	1177.100	1119.400	1183.300	1131.600
GR	1184.100	1167.700	1186.000	1198.100	1185.900	1249.500	1185.700	1443.600	1184.200	1460.500
GR	1184.900	1703.700	1185.900	1703.800	1185.500	3020.300	1186.800	3028.400	1187.300	3058.100
GR	1185.400	3068.700	1185.000	3104.800	1185.000	3128.200	1187.300	3151.500	1187.300	3160.800
GR	1187.200	3172.600	1187.200	3273.200	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	860.000	1210.000
X1	153.000	42.000	859.500	1122.200	500.000	480.000	490.000	.000	.000	.000
GR	1190.400	.000	1190.400	170.600	1188.100	184.000	1189.700	197.500	1189.900	275.700
GR	1189.100	279.700	1189.500	313.200	1189.400	434.100	1187.900	559.900	1186.400	583.800
GR	1182.200	611.300	1187.200	634.500	1186.700	698.100	1183.600	711.400	1187.000	721.600
GR	1185.900	789.200	1183.800	794.700	1186.400	804.800	1186.100	823.400	1182.700	834.500
GR	1182.700	847.400	1187.400	859.500	1186.800	884.000	1186.800	903.300	1184.400	929.300
GR	1182.200	950.200	1181.900	969.100	1179.800	981.400	1179.700	1033.200	1183.400	1047.700
GR	1188.000	1122.200	1186.800	1132.300	1182.200	1145.000	1186.500	1176.600	1187.900	1224.500
GR	1187.700	1313.600	1187.500	1547.800	1188.000	1547.900	1186.500	2865.200	1189.000	2878.000
GR	1189.200	2904.100	1189.200	3175.400	.000	.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	600.000	1040.000
X1	154.000	39.000	800.900	1025.800	500.000	520.000	500.000	.000	.000	.000
GR	1193.000	.000	1193.000	55.000	1191.000	64.000	1192.800	69.500	1191.400	74.400
GR	1191.600	99.500	1191.900	145.400	1190.500	221.200	1189.300	252.000	1189.500	273.600
GR	1189.500	412.700	1189.200	509.900	1184.900	538.000	1188.100	555.500	1187.900	603.600
GR	1183.500	618.700	1183.500	628.200	1189.600	629.400	1187.400	652.600	1182.800	672.000
GR	1188.700	682.700	1189.600	750.600	1189.600	800.900	1184.100	815.200	1184.100	855.900
GR	1185.500	876.000	1185.100	899.000	1183.500	931.200	1184.000	958.900	1183.400	990.700
GR	1184.900	1008.500	1189.100	1025.800	1189.900	1167.300	1189.300	1233.800	1189.500	1341.700
GR	1189.500	1341.800	1188.300	2656.000	1190.600	2674.300	1190.600	3060.400	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	610.000	990.000
X1	155.000	41.000	818.200	979.000	500.000	500.000	500.000	.000	.000	.000
GR	1193.200	.000	1193.700	39.300	1193.200	91.700	1192.300	225.500	1191.400	323.100
GR	1190.900	425.300	1188.100	435.100	1190.100	446.200	1190.800	471.400	1190.800	500.900
GR	1190.100	550.400	1190.800	595.500	1188.200	621.600	1190.600	638.600	1184.400	655.700
GR	1191.400	669.600	1190.300	712.700	1192.100	739.400	1192.300	791.800	1191.800	818.200
GR	1187.400	846.700	1186.100	913.800	1185.600	961.600	1190.400	979.000	1191.000	998.800
GR	1189.800	1021.000	1191.700	1040.600	1191.400	1067.300	1191.000	1115.000	1191.400	1162.600
GR	1192.200	1180.300	1190.700	1201.100	1191.600	1274.600	1192.000	1274.700	1191.700	1466.200
GR	1192.000	1515.900	1190.700	1573.700	1191.000	2644.400	1192.200	2660.700	1192.300	2678.600
GR	1192.300	3150.800	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	870.000	1070.000
X1	156.000	48.000	858.400	1032.300	510.000	500.000	500.000	.000	.000	.000
GR	1196.200	.000	1196.300	12.800	1195.300	16.200	1195.500	52.500	1194.900	122.200
GR	1194.400	161.800	1192.500	175.400	1194.500	185.300	1193.900	203.600	1194.500	258.200
GR	1193.900	314.100	1194.100	413.900	1193.700	473.500	1193.400	527.300	1193.400	584.400
GR	1193.900	639.800	1193.400	689.900	1191.600	743.600	1188.900	756.000	1192.100	766.900
GR	1188.600	777.400	1192.800	792.600	1193.800	858.400	1193.100	874.200	1189.700	883.200
GR	1189.600	897.900	1193.700	905.800	1192.300	938.300	1187.800	955.800	1186.900	1015.100
GR	1192.100	1032.300	1193.200	1132.400	1194.500	1173.400	1194.300	1211.800	1193.400	1245.600
GR	1191.300	1252.200	1193.800	1282.100	1195.200	1289.000	1193.200	1294.500	1193.200	1309.200
GR	1194.100	1309.300	1194.200	1699.600	1195.300	1753.900	1195.300	1797.400	1195.300	2679.700
GR	1195.300	2703.200	1195.300	2718.700	1195.300	3307.100	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	900.000	1120.000
X1	157.000	39.000	931.800	1128.000	500.000	500.000	500.000	.000	.000	.000
GR	1198.800	.000	1198.300	147.800	1197.700	185.100	1197.400	283.600	1196.900	365.800
GR	1196.300	443.100	1196.300	533.400	1195.500	636.800	1194.500	713.500	1194.500	743.800
GR	1190.800	756.900	1193.100	772.800	1195.300	796.500	1195.600	931.800	1189.300	957.500
GR	1189.800	971.600	1195.800	989.100	1195.400	1005.200	1190.100	1024.700	1188.800	1037.400
GR	1189.500	1081.400	1194.100	1107.000	1195.300	1128.000	1194.700	1150.300	1195.600	1210.700

GR	1195.800	1227.200	1197.000	1227.300	1197.000	1232.800	1196.100	1235.300	1196.700	1264.300
GR	1197.000	1277.200	1196.200	1304.400	1195.800	1907.900	1196.900	1940.400	1195.300	1969.300
GR	1195.200	2608.600	1196.500	2627.400	1197.000	2646.100	1197.000	3368.300	.000	.000
QT	3.000	4000.000	4000.000	4000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	830.000	1170.000

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X1	158.000	35.000	978.000	1233.200	500.000	500.000	500.000	.000	.000	.000
GR	1200.800	.000	1199.900	181.500	1198.900	310.200	1197.800	387.000	1196.500	401.900
GR	1197.400	421.300	1197.400	570.700	1196.700	613.000	1195.500	647.700	1195.600	663.900
GR	1196.800	692.600	1198.000	835.800	1198.000	860.400	1191.500	881.700	1197.200	898.900
GR	1196.900	952.700	1193.300	965.200	1198.100	978.000	1197.900	1039.900	1197.200	1084.900
GR	1189.400	1102.600	1190.700	1149.000	1196.300	1166.700	1197.000	1191.600	1197.600	1191.700
GR	1199.000	1233.200	1199.000	1276.300	1198.400	1286.200	1199.000	1301.800	1199.000	1328.100
GR	1198.800	1338.900	1199.000	1658.100	1199.100	2534.900	1200.600	2547.000	1200.600	3490.800
NC	.060	.060	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	900.000	1150.000
X1	159.000	36.000	1060.300	1144.100	500.000	500.000	500.000	.000	.000	.000
GR	1202.500	.000	1202.800	105.300	1202.800	235.000	1201.700	336.100	1201.100	428.200
GR	1200.300	468.800	1197.600	498.800	1200.300	510.700	1199.200	529.600	1198.200	552.300
GR	1199.800	568.700	1200.100	602.400	1199.400	646.800	1198.900	725.400	1198.500	801.400
GR	1199.300	897.200	1200.200	972.400	1192.500	997.700	1200.600	1015.100	1199.900	1035.000
GR	1197.900	1060.300	1192.500	1090.300	1192.900	1129.400	1197.300	1144.100	1199.400	1175.900
GR	1199.900	1197.100	1199.400	1234.200	1199.400	1242.500	1200.600	1242.600	1199.700	1363.800
GR	1199.800	1433.200	1197.300	1500.000	1199.700	1515.900	1199.800	1553.300	1201.800	1572.600
GR	1201.800	3480.200	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	840.000	1070.000
X1	160.000	50.000	922.500	1042.200	500.000	500.000	490.000	.000	.000	.000
GR	1204.300	.000	1204.300	48.500	1200.700	67.200	1200.600	115.600	1203.000	183.200
GR	1198.900	218.700	1202.500	266.500	1203.000	323.000	1198.700	347.500	1202.700	364.700
GR	1201.500	405.200	1200.400	436.500	1201.900	463.100	1202.500	564.200	1201.600	641.500
GR	1199.700	676.000	1201.300	696.000	1200.900	757.200	1201.300	787.900	1194.600	799.600
GR	1202.200	810.900	1202.100	864.400	1193.900	875.400	1196.200	907.600	1202.500	922.500
GR	1199.800	952.500	1194.900	974.500	1195.300	1023.900	1200.300	1042.200	1200.500	1074.100
GR	1199.200	1081.200	1199.200	1107.900	1201.500	1117.200	1201.900	1136.000	1202.500	1136.100
GR	1203.000	1174.000	1203.000	1266.600	1199.900	1295.800	1201.600	1325.200	1200.900	1338.800
GR	1202.400	1471.900	1202.500	1532.700	1201.600	1563.100	1202.200	1652.000	1200.900	1663.600
GR	1202.600	1681.500	1203.800	1702.000	1203.700	1745.000	1204.200	2490.100	1204.200	3411.100
ET	.000	.000	.000	9.100	.000	.000	.000	.000	700.000	1280.000
X1	161.000	40.000	878.500	1239.600	480.000	540.000	500.000	.000	.000	.000
GR	1208.000	.000	1207.100	236.800	1204.600	371.200	1203.300	487.300	1197.900	499.600
GR	1204.300	509.900	1203.400	581.200	1203.900	710.700	1198.500	722.200	1204.900	733.900
GR	1197.200	749.500	1204.800	760.500	1204.700	779.800	1198.800	790.700	1199.000	800.300
GR	1203.800	813.200	1203.400	878.500	1201.800	909.600	1200.400	971.600	1201.600	1010.300
GR	1201.600	1010.400	1202.400	1010.500	1202.400	1043.400	1199.500	1049.100	1199.800	1144.600
GR	1207.800	1239.600	1202.000	1270.400	1202.000	1318.900	1207.000	1368.200	1203.400	1390.300
GR	1203.400	1403.200	1204.400	1421.800	1205.400	1539.300	1205.700	1659.700	1205.700	1698.600
GR	1205.700	1840.200	1205.700	1883.900	1205.700	1931.500	1206.300	1955.400	1206.300	3464.500
ET	.000	.000	.000	9.100	.000	.000	.000	.000	870.000	1600.000
X1	162.000	58.000	1108.900	1604.300	480.000	540.000	500.000	.000	.000	.000
GR	1210.300	.000	1210.100	160.300	1209.400	272.300	1208.100	389.500	1206.300	503.600
GR	1205.900	556.100	1201.700	585.300	1204.900	599.300	1205.000	669.600	1204.800	700.200
GR	1203.200	711.600	1205.100	721.500	1204.900	796.200	1205.100	873.800	1205.300	904.200
GR	1200.600	929.700	1205.500	944.000	1205.500	969.000	1201.900	978.500	1206.300	990.500
GR	1206.000	1051.000	1204.400	1064.700	1205.800	1084.700	1205.300	1108.800	1207.400	1108.900
GR	1206.400	1155.300	1203.700	1170.800	1203.600	1209.800	1202.800	1272.500	1206.000	1283.500
GR	1206.000	1322.000	1204.500	1347.300	1203.100	1379.200	1202.600	1400.700	1204.500	1449.600

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GR	1204.200	1488.200	1204.600	1554.300	1203.500	1571.300	1202.800	1586.900	1206.900	1604.300
GR	1206.900	1639.300	1204.800	1655.100	1206.900	1667.100	1203.200	1686.900	1206.200	1699.500
GR	1204.800	1710.400	1207.100	1729.000	1207.800	2192.900	1207.800	2334.700	1209.200	2384.600
GR	1209.200	2404.300	1209.200	2519.700	1209.200	2658.100	1209.200	2753.600	1209.300	2780.300
GR	1209.200	2827.900	1207.900	2894.800	1207.900	3521.900	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1160.000	1820.000
X1	163.000	85.000	1462.400	1801.700	490.000	520.000	500.000	.000	.000	.000
GR	1214.500	.000	1214.500	67.400	1212.600	78.600	1212.700	118.800	1213.300	132.000
GR	1212.700	164.800	1211.100	192.900	1209.800	216.800	1209.700	233.200	1211.800	249.400
GR	1211.800	261.900	1209.800	279.800	1211.800	299.300	1211.600	351.300	1210.600	363.700
GR	1209.300	373.800	1210.900	381.300	1210.900	395.600	1212.300	441.000	1212.100	493.300

GR	1211.700	553.900	1209.300	565.200	1210.800	574.000	1211.400	601.500	1211.100	698.200
GR	1210.500	780.000	1210.000	858.800	1206.200	880.200	1206.200	891.300	1209.900	910.900
GR	1209.200	943.000	1208.200	950.300	1209.200	958.800	1209.200	1018.900	1206.500	1058.500
GR	1208.400	1065.200	1208.500	1097.300	1208.100	1108.600	1205.500	1124.700	1205.100	1130.300
GR	1209.300	1140.600	1209.800	1158.300	1209.200	1174.000	1205.800	1191.700	1204.400	1197.400
GR	1204.400	1205.300	1209.200	1216.200	1209.800	1268.300	1206.000	1289.500	1209.800	1303.700
[illegible]	1210.000	1367.200	1209.600	1367.300	1210.100	1462.400	1209.600	1489.100	1208.000	1502.500
[illegible]	1204.300	1514.900	1204.600	1565.400	1208.500	1571.800	1207.800	1617.300	1205.900	1625.700
[illegible]	1207.100	1635.900	1207.400	1659.300	1205.500	1684.400	1205.800	1716.100	1206.300	1739.500
GR	1205.800	1763.100	1205.100	1774.400	1205.100	1789.100	1209.300	1801.700	1209.200	1829.600
GR	1208.700	1881.900	1209.800	1998.000	1209.800	2087.700	1209.700	2128.000	1208.700	2151.600
GR	1209.500	2175.100	1210.100	2308.300	1210.100	2413.200	1210.900	2640.800	1210.700	2826.600
GR	1210.300	3024.200	1210.700	3230.400	1209.400	3254.400	1211.000	3283.800	1210.500	3289.700
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1240.000	1640.000
X1	164.000	63.000	1240.600	1624.500	500.000	520.000	500.000	.000	.000	.000
GR	1216.000	.000	1215.000	14.200	1214.500	42.800	1214.500	84.800	1211.600	106.200
GR	1214.200	118.300	1213.800	150.800	1215.300	202.000	1215.400	258.500	1215.000	298.200
GR	1214.800	358.400	1213.700	428.900	1213.300	457.000	1213.300	483.000	1213.300	505.600
GR	1213.300	529.000	1213.300	540.900	1213.300	557.100	1213.300	576.600	1213.300	620.900
GR	1213.300	719.200	1212.800	811.200	1211.700	888.700	1210.900	965.700	1210.500	1005.200
GR	1211.400	1049.700	1207.200	1068.700	1207.200	1077.600	1211.100	1085.800	1211.900	1184.300
GR	1210.700	1202.800	1211.300	1217.200	1211.800	1240.600	1208.600	1263.000	1207.700	1287.900
GR	1211.200	1308.500	1207.700	1329.400	1206.700	1368.000	1207.200	1390.900	1207.400	1425.400
GR	1211.400	1442.600	1211.400	1466.800	1209.100	1484.500	1207.300	1511.500	1207.100	1539.400
GR	1208.000	1557.600	1207.900	1596.000	1208.300	1614.600	1210.700	1624.500	1210.900	1681.000
GR	1211.400	1812.400	1212.500	1968.900	1212.900	2174.500	1212.300	2261.600	1211.700	2320.100
GR	1212.800	2361.000	1213.200	2443.800	1213.500	2623.900	1214.100	2814.000	1214.200	3042.600
GR	1213.900	3142.400	1213.700	3315.600	1213.800	3335.300	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1380.000	1640.000
X1	165.000	59.000	1297.900	1639.300	500.000	500.000	500.000	.000	.000	.000
GR	1218.200	.000	1218.400	46.700	1216.100	56.400	1216.600	91.500	1215.400	109.000
GR	1214.600	117.500	1217.500	131.300	1216.300	175.800	1217.000	220.800	1216.900	342.300
GR	1216.100	361.800	1214.500	377.500	1216.100	405.100	1216.900	483.600	1216.700	535.900
GR	1216.300	624.000	1215.400	716.300	1214.100	806.300	1212.000	855.600	1213.000	867.200
GR	1213.800	899.400	1214.000	970.800	1211.300	982.600	1213.900	994.500	1213.300	1055.000
GR	1213.600	1128.100	1214.500	1193.700	1210.500	1215.900	1210.300	1227.600	1213.800	1241.100
GR	1214.000	1275.200	1212.200	1287.600	1213.800	1297.900	1212.500	1319.800	1212.400	1366.600
GR	1211.200	1377.400	1211.100	1423.900	1209.100	1438.100	1209.500	1521.200	1210.600	1570.600
[illegible]	1210.200	1623.100	1213.600	1639.300	1213.500	1731.800	1210.800	1757.500	1213.300	1773.600
[illegible]	1211.500	1791.400	1213.400	1809.500	1214.000	1837.700	1214.100	1878.100	1213.900	1913.100

GR	1211.300	1948.200	1210.000	1967.300	1214.700	1983.600	1215.500	2188.200	1215.300	2496.200
GR	1215.800	2595.800	1217.000	2848.000	1217.600	3239.100	1217.200	3349.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1150.000	1390.000
X1	166.000	51.000	954.300	1386.500	530.000	500.000	500.000	.000	.000	.000
GR	1220.000	.000	1219.200	51.000	1218.100	82.800	1219.400	111.900	1219.300	177.600
GR	1218.800	245.000	1217.500	294.400	1215.900	308.000	1217.700	328.600	1217.400	555.500
GR	1215.200	577.000	1217.100	593.700	1217.000	628.200	1216.200	638.400	1216.700	648.900
GR	1216.700	678.600	1213.700	704.400	1213.800	744.400	1215.800	766.000	1216.100	800.200
GR	1213.300	816.400	1215.900	828.800	1215.800	866.700	1213.400	876.000	1215.600	884.600
GR	1215.500	937.800	1216.200	954.300	1215.700	1001.100	1212.200	1036.000	1212.700	1142.700
GR	1213.100	1265.800	1210.900	1286.900	1211.300	1352.800	1216.600	1386.500	1216.600	1480.500
GR	1215.500	1514.200	1213.300	1534.300	1216.600	1558.800	1217.100	1666.900	1217.400	1782.200
GR	1217.300	1869.000	1217.300	1911.600	1217.300	1937.400	1217.300	1966.000	1217.300	1995.200
GR	1214.300	2015.200	1217.500	2031.600	1218.500	2275.900	1219.600	2710.100	1220.300	2990.400
GR	1220.500	3067.700	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1170.000	1780.000
X1	167.000	59.000	1184.900	1781.000	510.000	510.000	510.000	.000	.000	.000
GR	1222.000	.000	1221.500	98.500	1219.800	121.600	1221.200	137.000	1221.200	193.700
GR	1218.900	203.200	1221.200	216.700	1221.200	273.200	1220.400	405.900	1218.300	569.700
GR	1217.600	639.800	1218.800	739.300	1219.100	809.700	1218.200	857.100	1217.500	933.300
GR	1214.100	950.700	1217.400	968.600	1218.100	1085.200	1218.200	1184.900	1217.800	1215.400
GR	1215.500	1246.600	1214.200	1268.700	1212.800	1290.000	1212.700	1341.100	1218.100	1360.000
GR	1217.600	1405.800	1213.900	1425.200	1214.300	1469.200	1217.500	1494.000	1218.000	1561.900
GR	1217.900	1599.200	1216.900	1614.400	1215.900	1632.100	1215.900	1656.100	1215.900	1695.400
GR	1215.000	1711.700	1215.000	1730.200	1218.600	1739.700	1219.800	1781.000	1219.800	1837.800
GR	1219.800	1879.200	1219.800	1969.400	1219.800	2062.500	1219.800	2127.300	1219.800	2159.700
[illegible]	1219.800	2175.300	1219.800	2194.700	1220.200	2257.200	1219.800	2268.600	1219.800	2280.700
[illegible]	1219.800	2291.000	1219.800	2295.200	1219.800	2305.200	1219.800	2373.300	1220.500	2485.800
	1221.200	2714.400	1221.400	2895.200	1222.100	3106.800	1222.100	3112.800	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	920.000	1740.000
X1	168.000	47.000	921.800	1744.400	500.000	420.000	450.000	.000	.000	.000

GR	1224.000	.000	1223.200	109.700	1221.300	300.800	1220.900	371.500	1218.600	399.500
GR	1221.100	419.500	1220.000	635.800	1217.100	654.600	1219.300	673.200	1219.600	857.500
GR	1219.800	921.800	1217.900	943.200	1214.200	964.100	1214.800	1028.100	1220.500	1049.200
GR	1220.500	1127.500	1219.200	1144.000	1219.600	1182.300	1220.900	1306.800	1220.500	1371.700
GR	1220.500	1446.900	1219.900	1477.600	1217.500	1495.500	1217.400	1504.900	1220.200	1517.400
GR	1216.400	1529.600	1218.000	1565.500	1218.900	1591.700	1218.900	1637.000	1220.300	1698.500
GR	1220.900	1744.400	1219.200	1764.700	1220.300	1839.200	1218.600	1855.500	1221.600	1877.900
GR	1221.600	2017.200	1220.800	2054.000	1220.500	2096.900	1221.200	2130.200	1217.800	2144.400
GR	1221.400	2162.000	1221.800	2272.300	1221.600	2393.400	1222.300	2548.300	1223.000	2771.700
GR	1223.500	2964.800	1223.500	2964.900	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1000.000	2000.000
X1	169.000	58.000	1033.200	1969.600	500.000	420.000	420.000	.000	.000	.000
GR	1225.400	.000	1222.500	354.000	1222.100	378.900	1220.800	388.400	1222.400	403.000
GR	1222.000	650.700	1220.900	689.700	1220.800	717.400	1218.900	728.500	1221.100	737.500
GR	1221.100	754.700	1221.200	782.300	1219.600	791.800	1221.200	804.200	1221.800	858.900
GR	1221.400	874.300	1220.500	885.800	1215.800	897.000	1215.600	917.300	1221.700	939.500
GR	1221.400	982.400	1218.900	993.400	1222.100	1003.800	1222.100	1033.200	1218.000	1046.000
GR	1219.100	1081.600	1219.800	1105.400	1219.800	1133.900	1218.400	1143.800	1218.400	1156.200
GR	1219.800	1169.400	1220.400	1249.500	1219.200	1273.300	1218.700	1292.700	1218.500	1329.400

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GR	1221.700	1346.900	1223.000	1513.700	1218.900	1526.600	1218.900	1538.800	1221.300	1552.000
GR	1221.900	1749.900	1218.900	1769.900	1219.700	1846.900	1219.900	1906.900	1218.800	1930.700
GR	1218.800	1958.400	1222.900	1969.600	1223.000	2115.500	1222.500	2162.900	1222.500	2207.100
GR	1219.600	2215.300	1219.600	2229.600	1222.900	2242.000	1223.200	2346.600	1223.000	2538.600
GR	1223.800	2738.800	1224.000	2962.000	1224.000	3004.500	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1060.000	1980.000
X1	170.000	53.000	1079.000	1992.700	510.000	380.000	440.000	.000	.000	.000
GR	1225.900	.000	1224.600	136.800	1222.900	191.000	1224.300	217.000	1224.500	453.200
GR	1217.900	472.200	1218.200	494.900	1224.300	514.800	1224.200	529.900	1221.800	541.700
GR	1222.100	551.900	1222.500	573.400	1223.500	700.000	1224.300	920.900	1224.700	1079.000
GR	1220.900	1096.900	1221.300	1139.600	1223.100	1195.500	1223.400	1260.400	1221.800	1280.300
GR	1221.600	1353.000	1224.400	1365.200	1225.000	1441.900	1224.500	1465.900	1222.800	1485.800
GR	1221.800	1504.900	1223.700	1534.300	1223.800	1567.800	1223.800	1642.200	1221.400	1657.100
GR	1221.600	1676.200	1224.600	1694.100	1224.700	1748.800	1223.400	1763.600	1223.800	1795.900
GR	1221.100	1817.600	1221.200	1912.500	1223.300	1945.600	1223.300	1974.400	1225.300	1992.700
GR	1225.000	2095.300	1224.500	2130.400	1223.200	2149.400	1224.500	2172.900	1224.600	2310.600
GR	1220.400	2329.200	1224.300	2367.400	1224.900	2427.100	1225.400	2523.600	1225.800	2639.900
GR	1225.800	2780.300	1225.400	2892.100	1225.000	2932.600	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1500.000	2270.000
X1	171.000	67.000	1540.200	2432.800	500.000	520.000	500.000	.000	.000	.000
GR	1228.000	.000	1226.100	400.000	1226.900	419.700	1226.100	451.200	1226.600	530.200
GR	1221.800	545.200	1227.100	553.900	1227.100	577.000	1225.200	589.900	1223.300	600.300
GR	1225.500	613.800	1226.900	723.100	1226.800	745.200	1226.000	769.900	1226.600	800.800
GR	1227.000	844.300	1227.000	877.400	1225.900	901.100	1225.900	924.600	1222.900	954.800
GR	1226.600	970.500	1222.600	991.600	1226.900	1008.800	1227.000	1075.000	1227.500	1224.300
GR	1227.100	1322.300	1226.900	1358.700	1225.000	1402.800	1227.100	1436.000	1227.400	1496.000
GR	1227.300	1540.200	1223.800	1558.500	1223.900	1668.500	1226.300	1682.600	1226.200	1701.600
GR	1223.400	1722.600	1227.000	1754.100	1226.600	1816.000	1226.600	1844.200	1227.300	1937.900
GR	1227.900	2045.900	1227.900	2084.800	1226.200	2108.700	1227.900	2118.800	1227.900	2151.400
GR	1225.400	2165.200	1225.000	2184.100	1223.300	2204.500	1225.000	2223.400	1225.100	2240.800
GR	1227.100	2252.300	1225.700	2305.600	1226.400	2409.100	1228.200	2432.800	1228.300	2496.100
GR	1228.300	2726.200	1228.300	2738.400	1228.300	2750.500	1228.300	2858.500	1228.300	2943.600
GR	1228.400	3130.000	1228.300	3146.100	1228.100	3163.800	1228.800	3252.400	1228.400	3349.500
GR	1228.100	3430.600	1228.100	3442.100	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1660.000	2660.000
X1	172.000	73.000	1662.400	2674.900	500.000	500.000	500.000	.000	.000	.000
GR	1230.500	.000	1229.800	30.200	1228.000	41.900	1229.900	65.700	1228.300	76.500
GR	1229.900	86.900	1229.800	219.000	1224.900	242.500	1229.500	269.100	1229.400	491.100
GR	1225.800	496.100	1229.400	505.400	1229.300	592.800	1227.200	607.700	1228.700	625.300
GR	1229.000	676.200	1226.900	693.800	1226.300	717.900	1229.000	729.200	1230.200	878.000
GR	1230.400	939.000	1230.500	961.400	1229.200	970.000	1229.200	1010.600	1230.200	1027.600
GR	1227.200	1064.600	1228.900	1077.100	1228.000	1084.700	1229.200	1094.200	1228.800	1193.400
GR	1230.200	1295.900	1230.000	1662.400	1229.300	1726.500	1226.200	1745.300	1226.100	1780.700
GR	1228.300	1829.500	1227.500	1856.500	1226.700	1872.300	1229.500	1890.200	1230.100	1954.400
GR	1230.500	2158.700	1230.800	2326.200	1228.100	2355.400	1228.500	2374.300	1229.600	2444.100
GR	1229.900	2475.400	1226.400	2501.100	1226.500	2564.800	1229.800	2595.800	1230.300	2674.900
GR	1230.300	2780.100	1229.700	2824.400	1229.600	2843.900	1229.900	2868.500	1229.900	2913.600
GR	1229.400	2932.500	1227.900	2953.800	1229.900	2962.800	1230.400	3046.600	1230.100	3105.800
GR	1229.500	3148.700	1230.500	3219.000	1230.300	3277.500	1230.700	3333.100	1230.800	3370.400
GR	1228.300	3382.000	1230.600	3400.700	1230.600	3432.000	1232.300	3497.200	1232.600	3526.500
GR	1231.800	3548.000	1231.500	3636.100	1231.500	3720.900	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1830.000	2960.000
X1	173.000	71.000	1841.400	2957.500	480.000	540.000	500.000	.000	.000	.000
GR	1233.800	.000	1233.800	321.000	1228.300	358.300	1232.400	377.200	1232.300	448.100
	1228.300	467.500	1231.900	485.900	1231.400	542.600	1232.300	605.100	1233.900	637.400
	1233.700	660.700	1232.800	686.900	1231.000	714.800	1232.300	728.300	1232.800	775.500
	1230.700	792.000	1231.000	808.500	1232.600	828.100	1232.100	869.400	1232.300	994.900
GR	1229.100	1011.300	1233.000	1032.400	1232.300	1055.300	1231.700	1101.200	1230.200	1115.500
GR	1231.000	1140.900	1232.200	1155.300	1230.300	1166.300	1232.200	1178.500	1233.000	1284.400
GR	1233.500	1472.100	1233.200	1651.600	1232.800	1699.400	1230.100	1725.500	1231.800	1751.800
GR	1232.700	1841.400	1231.300	1861.100	1230.000	1895.900	1229.200	1912.000	1229.500	1960.900
GR	1228.800	1995.500	1232.300	2018.500	1233.700	2129.000	1233.800	2321.200	1233.500	2387.700
GR	1231.700	2413.300	1233.900	2456.900	1233.900	2497.600	1233.500	2521.100	1232.500	2552.400
GR	1232.000	2608.800	1231.700	2733.600	1230.200	2781.100	1232.300	2790.100	1232.600	2861.900
GR	1229.800	2869.100	1229.800	2899.300	1233.300	2908.700	1233.900	2957.500	1233.900	3021.400
GR	1232.100	3048.200	1232.100	3062.700	1233.800	3085.700	1233.800	3124.100	1234.000	3187.300
GR	1233.500	3459.000	1232.600	3478.900	1231.200	3500.600	1233.100	3513.400	1234.800	3673.000
GR	1234.200	3889.500	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1770.000	2900.000
X1	174.000	81.000	1781.900	2882.600	490.000	540.000	500.000	.000	.000	.000
GR	1236.700	.000	1236.800	47.600	1236.400	87.500	1233.900	184.200	1230.600	201.100
GR	1235.400	217.400	1234.800	292.800	1231.000	305.400	1235.200	316.200	1235.100	339.100
GR	1231.600	350.500	1234.300	372.900	1234.900	432.400	1235.200	494.900	1236.100	593.300
GR	1236.500	680.600	1235.700	736.400	1234.000	767.000	1235.400	790.200	1235.200	866.800
GR	1234.500	892.700	1232.900	901.600	1234.900	920.900	1235.300	1073.100	1234.900	1136.400
GR	1232.200	1152.400	1234.600	1163.900	1234.800	1182.300	1232.600	1195.600	1235.000	1206.400
GR	1235.000	1231.400	1232.300	1242.300	1234.800	1260.800	1236.200	1315.300	1236.300	1368.200
GR	1236.100	1467.800	1235.500	1596.800	1234.900	1678.700	1232.500	1689.500	1235.300	1711.700
GR	1235.500	1781.900	1232.100	1800.600	1232.200	1836.100	1232.500	1890.700	1234.800	1915.900
GR	1235.200	1949.200	1235.000	2009.800	1233.700	2022.900	1233.700	2058.500	1233.900	2208.500
GR	1237.100	2273.900	1237.100	2332.000	1237.200	2403.300	1235.100	2419.900	1235.100	2511.900
GR	1235.300	2633.300	1235.500	2698.900	1233.600	2720.900	1235.100	2736.300	1235.500	2809.900
GR	1233.300	2834.400	1233.200	2864.400	1235.700	2882.600	1235.700	2920.600	1234.600	2941.500
GR	1235.000	2995.500	1236.300	3034.000	1237.100	3131.300	1236.800	3181.900	1236.100	3244.000
GR	1235.500	3263.800	1233.900	3287.700	1237.000	3301.700	1237.100	3422.400	1236.600	3482.500
GR	1236.600	3536.500	1235.400	3578.300	1234.300	3590.700	1236.600	3621.700	1237.500	3719.800
GR	1237.300	3737.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	9.100	.000	.000	.000	.000	2140.000	3370.000
	175.000	78.000	2233.300	3034.700	530.000	580.000	530.000	.000	.000	.000
GR	1239.600	.000	1239.900	72.800	1240.200	137.000	1239.400	261.200	1239.700	333.800
GR	1239.000	393.300	1237.600	444.800	1236.700	472.400	1234.900	479.200	1237.200	496.600
GR	1236.800	515.700	1237.200	541.700	1238.300	604.700	1238.300	682.100	1235.400	691.200
GR	1238.700	702.300	1238.700	733.000	1235.300	738.900	1235.300	752.100	1238.500	762.900
GR	1238.100	782.300	1237.900	846.500	1238.300	908.400	1239.100	988.100	1239.100	1074.300
GR	1238.800	1138.300	1238.100	1191.200	1237.900	1228.500	1236.800	1242.200	1238.100	1261.200
GR	1238.800	1344.400	1238.800	1419.800	1238.500	1493.200	1237.900	1579.900	1235.600	1591.100
GR	1237.700	1605.000	1238.600	1671.800	1238.600	1713.200	1238.400	1752.700	1236.100	1767.600
GR	1236.100	1776.400	1238.400	1789.400	1238.300	1877.400	1238.900	1970.300	1239.500	2057.900
GR	1239.400	2233.300	1234.300	2244.900	1235.000	2290.100	1236.400	2310.000	1235.500	2319.600
GR	1235.600	2342.400	1237.400	2358.900	1237.400	2402.800	1235.900	2438.800	1238.300	2450.300
GR	1238.300	2518.100	1237.500	2622.600	1237.700	2690.200	1239.000	2753.400	1239.200	2825.300
GR	1237.600	2841.100	1237.600	2863.400	1239.200	2879.000	1237.400	2896.700	1239.100	2908.100

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GR	1239.000	2952.700	1237.600	2963.300	1238.800	2971.800	1237.400	2981.000	1237.400	3017.900
GR	1239.000	3034.700	1238.300	3193.500	1238.200	3267.700	1236.100	3271.400	1237.500	3290.400
GR	1236.900	3345.000	1239.700	3361.900	1240.200	3438.700	.000	.000	.000	.000
QT	3.000	3800.000	3800.000	3800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2290.000	3610.000
X1	176.000	80.000	2459.500	3145.100	480.000	430.000	430.000	.000	.000	.000
GR	1243.100	.000	1243.100	60.400	1242.800	165.700	1242.800	271.300	1241.300	307.700
GR	1240.100	427.500	1238.200	436.600	1240.300	448.800	1240.300	480.500	1237.900	484.700
GR	1240.400	492.700	1239.900	615.800	1240.600	715.900	1241.000	786.400	1237.900	797.400
GR	1241.100	810.900	1241.000	868.400	1241.300	932.200	1238.000	941.800	1238.000	958.000
GR	1240.800	973.400	1241.300	1033.200	1241.400	1099.800	1241.400	1188.300	1239.200	1214.600
GR	1241.200	1228.200	1241.500	1394.400	1241.700	1517.500	1240.900	1643.200	1238.700	1656.400
GR	1240.300	1672.600	1240.300	1713.900	1237.600	1722.500	1239.900	1736.000	1241.000	1811.400
	1240.900	1920.800	1239.900	1951.800	1241.500	1981.100	1241.400	2019.800	1238.900	2036.900
	1238.800	2059.300	1240.300	2085.400	1240.800	2166.300	1241.100	2301.100	1242.100	2349.000
	1242.200	2423.700	1240.500	2459.500	1241.900	2543.000	1241.400	2561.900	1237.600	2582.400
GR	1237.500	2669.900	1239.700	2700.700	1239.300	2719.200	1237.800	2726.000	1239.700	2749.700
GR	1240.800	2806.300	1242.400	2854.900	1242.500	2918.300	1241.300	2934.200	1242.000	2996.200
GR	1239.400	3006.900	1239.900	3039.100	1242.400	3048.000	1240.300	3068.500	1240.600	3117.200

GR	1241.900	3145.100	1242.100	3182.900	1241.000	3198.600	1240.600	3243.600	1241.900	3255.300
GR	1240.900	3320.500	1240.200	3437.800	1240.100	3492.500	1238.800	3496.200	1240.500	3511.200
GR	1238.900	3529.200	1240.100	3562.900	1239.800	3584.200	1240.300	3613.300	1242.200	3638.600
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2610.000	3920.000
X1	177.000	94.000	2872.700	3343.200	500.000	480.000	490.000	.000	.000	.000
GR	1245.400	.000	1245.500	50.600	1245.500	138.600	1244.300	183.300	1242.500	202.900
GR	1244.100	232.900	1245.000	293.700	1246.100	324.700	1246.100	349.700	1245.000	377.800
GR	1243.900	429.000	1243.200	489.700	1242.500	553.500	1243.000	614.400	1242.900	667.300
GR	1240.900	678.100	1241.100	692.600	1243.200	702.800	1243.600	751.400	1243.600	791.000
GR	1243.900	796.500	1244.400	836.900	1245.000	894.300	1244.800	927.100	1243.700	967.900
GR	1243.700	1009.800	1243.900	1074.800	1240.900	1083.100	1244.100	1095.600	1243.900	1116.700
GR	1239.600	1127.500	1243.200	1149.200	1243.200	1166.200	1244.200	1221.800	1244.600	1273.800
GR	1244.200	1307.100	1243.400	1338.600	1244.500	1405.600	1245.000	1486.600	1244.700	1559.000
GR	1244.600	1647.400	1243.700	1694.000	1242.100	1707.300	1243.500	1728.600	1244.300	1778.200
GR	1244.100	1834.200	1243.700	1895.900	1243.000	1938.000	1241.500	1965.500	1243.400	1977.500
GR	1244.400	2009.100	1244.400	2049.700	1244.300	2091.700	1244.300	2159.500	1244.100	2219.100
GR	1241.600	2257.500	1243.200	2277.000	1243.500	2328.900	1239.700	2338.400	1239.700	2362.300
GR	1243.700	2373.900	1244.100	2414.900	1243.300	2448.400	1242.700	2488.600	1243.700	2524.200
GR	1244.400	2563.700	1245.000	2654.100	1245.400	2872.700	1241.000	2914.500	1240.500	3035.100
GR	1242.800	3065.400	1243.400	3103.100	1243.700	3141.200	1244.000	3188.600	1243.300	3260.500
GR	1241.800	3323.500	1244.500	3343.200	1244.600	3378.600	1244.800	3475.700	1245.400	3638.600
GR	1242.500	3667.400	1242.900	3739.100	1242.500	3832.100	1241.500	3842.300	1241.900	3901.300
GR	1244.400	3923.400	1244.800	4073.100	1244.000	4107.400	1243.900	4208.000	1242.100	4225.600
GR	1243.900	4255.400	1244.600	4301.100	1244.800	4425.000	1244.800	4765.300	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2530.000	3730.000
X1	178.000	84.000	2736.800	3227.300	450.000	450.000	450.000	.000	.000	.000
GR	1248.100	.000	1246.600	112.400	1248.100	171.300	1248.600	206.300	1247.700	261.000
GR	1247.000	330.800	1245.700	453.200	1243.200	466.600	1245.400	487.600	1245.500	534.000
GR	1245.600	572.500	1246.800	625.800	1248.200	682.800	1248.100	725.300	1247.200	775.000
GR	1244.500	809.800	1246.100	827.400	1246.500	884.100	1246.100	930.500	1243.000	942.200
GR	1243.100	955.300	1246.500	967.100	1246.300	1004.900	1247.300	1058.300	1247.500	1137.700
GR	1246.600	1179.100	1247.100	1202.600	1247.900	1261.700	1247.700	1365.200	1247.200	1431.100

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GR	1245.400	1477.400	1246.100	1542.600	1247.200	1620.100	1246.600	1883.300	1243.800	1897.100
GR	1246.100	1918.100	1247.200	2087.600	1247.200	2230.400	1246.300	2289.400	1242.700	2319.700
GR	1242.900	2367.500	1245.800	2407.000	1246.100	2446.400	1247.200	2574.200	1248.100	2736.800
GR	1245.200	2745.100	1245.200	2826.200	1246.600	2868.900	1246.300	2981.200	1245.100	3002.300
GR	1244.700	3104.200	1245.900	3136.500	1245.800	3156.400	1245.300	3185.300	1244.700	3205.300
GR	1248.300	3227.300	1248.200	3244.700	1246.900	3266.400	1247.400	3331.600	1247.200	3462.600
GR	1248.300	3490.300	1248.100	3510.200	1246.800	3540.800	1244.700	3562.900	1245.500	3594.500
GR	1245.300	3625.500	1244.100	3642.100	1243.900	3705.100	1247.800	3723.100	1247.300	3798.500
GR	1245.800	3813.400	1247.300	3846.000	1246.600	4100.000	1244.400	4134.800	1245.900	4153.900
GR	1245.000	4164.800	1245.800	4185.600	1246.300	4209.000	1245.500	4227.500	1244.400	4238.900
GR	1244.700	4260.200	1246.700	4303.900	1247.500	4363.600	1247.700	4510.200	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2940.000	3980.000
X1	179.000	88.000	3284.900	3656.600	500.000	500.000	500.000	.000	.000	.000
GR	1250.400	.000	1250.400	311.100	1251.100	398.300	1250.300	451.700	1250.300	532.600
GR	1251.000	566.500	1251.100	611.100	1249.300	646.800	1247.200	689.200	1249.600	711.800
GR	1249.400	791.800	1248.100	811.600	1249.700	835.200	1250.400	898.100	1250.300	948.800
GR	1249.500	997.400	1247.800	1037.200	1250.200	1074.500	1250.000	1149.400	1249.500	1223.700
GR	1248.100	1271.900	1248.600	1397.800	1245.200	1407.800	1249.300	1418.600	1249.300	1441.700
GR	1244.200	1451.000	1249.200	1468.800	1249.500	1524.400	1250.200	1591.500	1250.100	1675.800
GR	1250.200	1769.500	1249.700	1923.000	1249.400	2176.100	1247.600	2192.000	1249.700	2225.300
GR	1249.700	2240.100	1247.700	2251.000	1249.600	2273.100	1249.900	2534.400	1248.800	2571.000
GR	1247.900	2609.200	1245.500	2618.600	1248.600	2628.100	1245.200	2649.800	1245.200	2661.000
GR	1248.500	2680.600	1247.900	2700.100	1249.000	2735.300	1248.400	2780.100	1246.300	2814.300
GR	1248.500	2848.200	1249.500	2907.600	1249.800	2955.500	1249.800	2999.200	1248.300	3020.700
GR	1249.500	3040.500	1249.000	3059.600	1248.000	3078.400	1245.800	3085.300	1248.400	3101.700
GR	1249.200	3129.300	1249.900	3163.200	1251.100	3215.500	1251.100	3284.900	1247.800	3309.400
GR	1247.100	3333.200	1247.600	3438.300	1248.800	3475.300	1249.100	3518.700	1249.500	3588.000
GR	1249.100	3639.200	1250.100	3656.600	1249.700	3683.500	1249.300	3833.200	1247.600	3866.700
GR	1246.900	3903.300	1246.300	3940.100	1249.300	3967.000	1249.400	4032.200	1249.700	4120.500
GR	1249.900	4621.700	1247.500	4645.900	1249.100	4666.400	1249.200	4723.400	1247.200	4773.900
GR	1248.300	4822.000	1249.600	4879.000	1249.700	4925.900	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2920.000	3700.000
X1	180.000	80.000	3169.300	3376.400	500.000	500.000	500.000	.000	.000	.000
GR	1253.300	.000	1253.300	137.300	1253.300	176.300	1253.300	219.700	1253.300	349.300
GR	1253.500	542.000	1253.000	571.100	1251.400	593.500	1253.800	630.600	1253.800	784.100
GR	1252.800	998.700	1251.500	1143.700	1248.400	1178.800	1251.300	1194.700	1248.500	1206.400
GR	1251.400	1221.000	1251.500	1242.100	1252.300	1286.900	1252.100	1323.700	1251.500	1350.900
GR	1251.300	1367.900	1248.700	1379.600	1251.700	1396.300	1251.500	1437.400	1249.600	1446.500
GR	1252.000	1461.200	1252.300	1545.100	1248.300	1561.200	1252.900	1581.300	1253.000	1660.700
GR	1253.100	1734.000	1253.100	1807.400	1253.000	1903.700	1252.800	1995.200	1251.300	2035.900

GR	1252.700	2066.400	1252.900	2146.700	1252.800	2357.800	1250.300	2391.000	1252.800	2410.800
GR	1252.800	2466.000	1251.900	2480.100	1250.300	2514.500	1249.600	2539.400	1252.100	2559.700
GR	1252.300	2611.000	1249.400	2624.500	1252.700	2658.700	1253.000	2721.300	1252.500	2780.100
GR	1251.600	2815.400	1249.400	2827.600	1249.500	2839.300	1251.900	2872.100	1253.300	2930.300
GR	1253.300	3032.700	1250.500	3050.300	1252.700	3084.600	1252.700	3114.800	1250.900	3128.700
GR	1253.400	3169.300	1251.400	3190.900	1251.500	3209.700	1248.900	3218.500	1249.700	3346.100
[illegible]	1252.100	3376.400	1251.900	3460.800	1253.000	3493.800	1253.100	3593.900	1250.700	3607.000
[illegible]	1250.800	3664.500	1248.800	3695.500	1250.800	3716.700	1250.800	3740.900	1248.700	3763.300
[illegible]	1251.000	3800.300	1249.100	3814.500	1251.400	3832.200	1253.300	3870.200	1253.300	4481.500

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	2980.000	3500.000
X1	181.000	72.000	3228.700	3489.700	500.000	490.000	490.000	.000	.000	.000
GR	1257.100	.000	1257.100	307.100	1257.100	469.900	1257.000	545.700	1256.600	582.600
GR	1256.300	745.900	1255.800	812.500	1256.500	845.000	1255.900	882.300	1253.800	904.700
GR	1255.400	923.400	1255.600	929.300	1255.900	1030.000	1255.100	1070.700	1253.600	1113.100
GR	1254.800	1129.700	1254.800	1148.400	1252.300	1155.900	1252.300	1164.700	1254.500	1176.600
GR	1254.600	1246.800	1253.800	1268.200	1251.400	1277.900	1253.600	1292.900	1254.100	1322.300
GR	1251.900	1332.000	1254.300	1351.000	1255.000	1444.400	1255.500	1573.600	1255.300	1735.300
GR	1254.500	1751.400	1255.500	1763.300	1252.400	1770.300	1252.400	1782.500	1255.400	1793.300
GR	1256.300	1830.500	1256.300	1893.200	1255.700	2019.500	1255.000	2080.700	1255.900	2154.000
GR	1256.100	2234.700	1255.700	2289.000	1254.300	2324.700	1255.400	2347.400	1255.200	2377.400
GR	1253.600	2394.900	1255.400	2410.000	1255.700	2644.900	1252.900	2666.900	1252.900	2681.300
GR	1253.900	2704.000	1255.100	2758.000	1255.700	2843.700	1256.300	2969.500	1256.100	3158.000
GR	1255.500	3185.500	1255.900	3228.700	1251.200	3251.000	1252.000	3330.300	1254.100	3361.000
GR	1254.500	3390.900	1253.600	3464.100	1255.300	3489.700	1255.200	3515.500	1254.500	3570.900
GR	1253.500	3752.600	1250.800	3761.700	1253.700	3785.600	1255.900	3863.600	1256.100	3944.900
GR	1256.800	4033.200	1256.800	4114.400	.000	.000	.000	.000	.000	.000

ET	.000	.000	.000	9.100	.000	.000	.000	.000	2780.000	3250.000
X1	182.000	78.000	3059.100	3206.800	490.000	500.000	490.000	.000	.000	.000
GR	1259.200	.000	1259.400	85.900	1259.500	143.200	1259.600	262.800	1259.900	382.300
GR	1259.800	398.000	1259.700	398.100	1259.100	474.400	1259.400	529.600	1259.400	578.100
GR	1259.000	613.700	1258.300	644.100	1256.800	691.600	1255.900	716.400	1257.400	727.600
GR	1257.200	782.200	1255.600	787.900	1257.400	798.700	1257.200	808.100	1254.700	813.800
GR	1256.300	824.200	1256.300	863.100	1257.400	937.600	1258.100	998.900	1257.800	1102.000
GR	1255.900	1137.300	1257.100	1173.400	1257.300	1227.600	1255.900	1237.100	1257.500	1280.100
GR	1258.500	1396.400	1258.300	1490.300	1257.600	1539.000	1254.500	1545.200	1254.500	1563.200
[illegible]	1258.200	1576.800	1258.800	1602.900	1257.600	1639.900	1257.600	1691.600	1258.800	1755.700
[illegible]	1258.500	1902.000	1258.300	2242.600	1255.800	2264.900	1257.800	2281.000	1257.800	2314.900
GR	1255.600	2329.200	1257.500	2348.200	1258.400	2420.000	1258.300	2499.400	1257.200	2526.900
GR	1254.300	2538.700	1257.400	2552.500	1258.000	2592.000	1257.200	2614.100	1257.200	2638.000
GR	1258.500	2678.300	1258.300	2757.500	1257.500	2814.900	1256.500	2839.100	1256.900	2956.500
GR	1254.800	2977.100	1257.100	2996.000	1257.200	3025.400	1257.700	3059.100	1256.200	3071.200
GR	1254.700	3079.000	1253.300	3189.600	1257.600	3206.800	1257.700	3279.700	1258.800	3326.900
GR	1259.100	3403.200	1259.100	3518.700	1259.100	3563.000	1259.100	3586.400	1259.100	3635.200
GR	1259.100	3708.100	1259.400	3789.900	1259.400	3816.100	.000	.000	.000	.000

ET	.000	.000	.000	9.100	.000	.000	.000	.000	2760.000	3290.000
X1	183.000	71.000	2903.500	3325.200	570.000	580.000	570.000	.000	.000	.000
GR	1262.100	.000	1262.600	78.400	1263.500	174.000	1263.500	229.400	1262.800	315.400
GR	1262.500	373.400	1260.800	429.000	1261.500	454.800	1262.100	506.200	1262.300	553.500
GR	1261.400	583.500	1260.700	622.300	1259.600	653.500	1259.700	670.900	1257.600	681.300
GR	1260.200	691.200	1259.600	717.100	1259.600	744.900	1258.200	751.000	1259.600	760.600
GR	1259.700	814.200	1258.300	821.200	1259.700	835.400	1261.000	881.400	1261.500	962.900
GR	1261.900	1072.600	1261.800	1119.400	1260.800	1162.900	1259.200	1202.600	1260.700	1228.100
GR	1261.000	1271.400	1260.900	1344.900	1259.800	1353.500	1261.000	1369.200	1261.800	1454.200
GR	1262.200	1523.900	1261.600	1562.600	1261.100	1600.900	1260.800	1613.600	1260.300	1613.700
GR	1259.200	1642.100	1260.500	1664.600	1261.700	1710.800	1259.600	1737.400	1261.000	1779.200
GR	1261.800	1875.200	1262.200	2033.800	1261.900	2149.900	1261.700	2203.300	1262.100	2335.000
GR	1262.200	2473.500	1261.900	2587.300	1261.300	2703.400	1259.300	2729.700	1260.500	2741.200
GR	1261.500	2825.100	1262.000	2903.500	1261.200	2939.600	1256.500	2966.600	1260.100	2985.900
GR	1260.100	3073.700	1260.600	3095.200	1260.600	3125.300	1257.200	3166.500	1258.500	3202.300
GR	1256.300	3214.000	1256.300	3271.900	1260.700	3289.800	1262.600	3325.200	1262.900	3447.000

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GR	1262.500	3907.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	.000	9.100	.000	.000	.000	.000	2500.000	3050.000
X1	184.000	81.000	2802.000	3177.800	520.000	500.000	510.000	.000	.000	.000
[illegible]	1265.700	.000	1265.700	37.600	1265.900	117.800	1265.900	198.900	1265.300	241.600
[illegible]	1264.800	266.900	1265.900	295.500	1265.700	337.400	1264.900	378.000	1263.500	414.600
GR	1263.100	442.100	1261.400	459.100	1263.000	468.800	1263.000	492.500	1261.400	497.500
GR	1263.100	506.700	1263.900	535.200	1264.700	566.400	1264.600	601.500	1264.100	641.900
GR	1264.100	737.100	1264.300	811.800	1262.800	825.800	1264.300	839.000	1264.900	882.400

GR	1265.000	922.400	1264.900	954.900	1263.200	965.400	1264.900	985.300	1265.000	1046.900
GR	1265.500	1129.800	1266.000	1208.700	1264.000	1258.500	1265.500	1292.900	1265.400	1363.300
GR	1264.600	1419.700	1264.100	1498.900	1264.000	1520.800	1263.000	1526.300	1264.200	1535.200
GR	1264.100	1553.600	1262.300	1559.200	1262.300	1577.300	1264.200	1587.100	1264.300	1600.200
GR	1262.800	1607.100	1264.200	1622.800	1265.100	1731.300	1262.900	1742.800	1264.300	1760.100
GR	1265.200	1849.200	1266.400	2033.400	1265.500	2127.900	1265.700	2270.800	1265.700	2421.600
GR	1265.000	2518.400	1265.100	2604.600	1263.000	2622.100	1264.500	2649.600	1263.800	2677.200
GR	1265.100	2701.100	1265.400	2737.400	1265.000	2737.500	1265.400	2802.000	1264.300	2828.000
GR	1262.800	2846.400	1264.000	2871.800	1262.500	2886.400	1261.000	2914.000	1258.700	2935.100
GR	1259.600	2984.200	1261.200	2999.600	1261.200	3039.800	1263.100	3070.700	1263.500	3118.300
GR	1262.500	3130.000	1262.500	3151.800	1265.000	3177.800	1265.700	3217.900	1265.900	3322.400
GR	1265.900	3782.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2100.000	2800.000
X1	185.000	37.000	2222.700	2915.500	480.000	490.000	485.000	.000	.000	.000
GR	1268.500	.000	1268.000	930.800	1268.400	990.100	1268.600	1087.400	1268.400	1164.400
GR	1266.600	1204.700	1267.000	1244.300	1265.000	1259.300	1267.200	1286.700	1267.500	1377.400
GR	1265.700	1390.500	1265.700	1408.300	1267.600	1424.100	1268.100	1519.200	1264.800	1535.300
GR	1268.200	1553.500	1268.500	1921.000	1268.600	2222.700	1267.200	2245.800	1268.200	2282.400
GR	1267.700	2452.100	1266.800	2543.500	1263.400	2562.600	1263.400	2579.700	1266.600	2599.900
GR	1266.000	2611.900	1264.000	2620.200	1266.200	2641.500	1262.100	2662.700	1261.400	2742.400
GR	1264.600	2762.400	1264.300	2802.800	1265.400	2824.600	1267.200	2915.500	1268.100	3050.800
GR	1268.400	3203.600	1268.400	3961.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1820.000	2540.000
X1	186.000	66.000	2249.100	2516.700	520.000	510.000	510.000	.000	.000	.000
GR	1271.100	.000	1271.100	58.100	1271.100	133.800	1271.600	195.500	1271.300	250.900
GR	1271.100	297.500	1270.800	352.500	1271.500	397.700	1271.300	423.800	1270.400	444.800
GR	1269.900	512.600	1269.900	588.700	1269.900	715.500	1268.500	738.300	1269.700	752.100
GR	1269.300	771.100	1269.100	789.800	1270.000	824.500	1270.400	864.900	1269.300	916.900
GR	1270.400	965.000	1271.300	1033.100	1271.100	1096.900	1270.700	1148.200	1270.700	1185.800
GR	1268.600	1199.200	1269.600	1261.000	1271.100	1281.600	1271.400	1320.500	1271.800	1542.000
GR	1271.300	1729.200	1271.500	1811.000	1271.900	1881.300	1271.300	1955.300	1270.600	2036.600
GR	1269.000	2050.000	1269.600	2071.800	1269.500	2091.600	1267.900	2111.500	1267.700	2123.600
GR	1270.200	2133.100	1270.100	2158.200	1267.300	2170.400	1269.000	2190.000	1269.900	2220.700
GR	1269.900	2249.100	1268.800	2308.200	1268.400	2382.200	1267.000	2396.500	1265.900	2439.600
GR	1268.800	2460.300	1269.400	2516.700	1268.600	2563.100	1269.000	2653.500	1269.000	2653.600
GR	1268.000	2653.700	1267.700	2710.700	1267.900	2763.600	1268.200	2821.700	1268.400	2850.600
GR	1268.800	2967.700	1267.900	2978.800	1268.000	2998.000	1269.300	3015.300	1269.800	3075.000
GR	1270.300	3166.700	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1630.000	2640.000
X1	187.000	61.000	2324.800	2683.200	500.000	550.000	510.000	.000	.000	.000
GR	1273.600	.000	1273.600	60.600	1273.600	150.600	1273.600	255.100	1274.200	333.200
GR	1272.800	385.400	1273.500	445.700	1273.900	547.800	1273.800	640.000	1273.500	773.100
GR	1270.100	800.500	1270.600	813.900	1272.400	829.200	1272.900	896.100	1271.200	914.400
GR	1273.700	938.500	1274.200	997.600	1274.200	1109.500	1273.900	1187.700	1271.600	1231.500
GR	1273.400	1251.100	1273.500	1332.000	1271.500	1350.000	1271.900	1369.200	1274.000	1386.700
GR	1274.500	1505.000	1274.600	1738.400	1272.100	1753.400	1274.500	1769.000	1274.200	1823.100
GR	1273.700	1863.800	1274.400	1921.400	1272.600	1935.400	1272.600	1949.500	1274.400	1959.200
GR	1274.400	2003.800	1272.000	2013.500	1274.100	2031.400	1274.100	2191.500	1273.700	2324.800
GR	1271.900	2337.900	1271.000	2412.300	1272.200	2448.800	1272.200	2496.700	1271.100	2496.800
GR	1269.600	2521.100	1270.800	2570.100	1271.200	2665.900	1272.400	2683.200	1271.900	2745.100
GR	1270.800	2774.300	1270.500	2820.800	1272.500	2842.300	1271.900	2864.000	1271.000	2870.700
GR	1272.100	2879.800	1272.100	2895.000	1270.600	2901.500	1272.400	2908.500	1272.100	2952.500
GR	1273.300	3122.900	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1440.000	2530.000
X1	188.000	64.000	2322.700	2562.000	500.000	520.000	500.000	.000	.000	.000
GR	1276.900	.000	1276.900	51.100	1276.900	106.000	1276.900	188.700	1276.900	258.300
GR	1276.400	336.200	1276.500	518.400	1276.400	625.500	1275.000	650.200	1273.000	664.400
GR	1276.000	676.900	1275.400	700.300	1273.700	713.700	1275.600	728.500	1276.200	811.100
GR	1276.700	965.500	1275.900	990.500	1277.100	1021.600	1277.300	1196.000	1276.700	1407.900
GR	1274.600	1426.800	1276.400	1446.300	1276.400	1473.600	1275.500	1489.200	1276.900	1509.300
GR	1275.500	1526.800	1277.100	1551.400	1277.200	1609.600	1275.500	1622.500	1277.500	1640.300
GR	1277.600	1672.900	1275.400	1682.900	1277.100	1702.800	1277.300	1763.300	1276.000	1779.000
GR	1275.100	1794.400	1276.700	1805.400	1277.300	1930.300	1274.600	1940.000	1275.000	1954.100
GR	1278.200	1969.800	1277.300	2049.600	1275.500	2068.300	1276.900	2093.400	1276.400	2322.600
GR	1275.000	2322.700	1273.400	2338.700	1273.200	2430.000	1275.300	2448.500	1275.300	2483.600
GR	1273.800	2499.100	1273.500	2541.400	1275.000	2562.000	1275.700	2603.600	1276.800	2638.300
GR	1276.800	2700.700	1276.400	2774.100	1275.700	2820.300	1275.300	2894.600	1275.600	2971.900
GR	1275.900	3061.600	1276.500	3210.200	1276.700	3400.200	1276.700	4233.100	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1190.000	1900.000
X1	189.000	53.000	1532.800	1924.400	550.000	550.000	550.000	.000	.000	.000
GR	1279.700	.000	1279.700	460.400	1279.700	511.200	1279.700	568.100	1279.700	633.400

GR	1280.100	774.600	1280.400	894.300	1279.900	1017.000	1278.700	1026.200	1280.200	1043.700
GR	1280.100	1185.100	1278.500	1222.100	1279.300	1241.900	1277.900	1259.200	1276.800	1292.000
GR	1279.100	1314.600	1277.700	1326.000	1279.900	1344.300	1279.900	1375.300	1278.500	1391.000
GR	1279.900	1415.000	1280.400	1482.200	1276.800	1497.300	1277.000	1519.400	1280.500	1532.800
GR	1280.100	1631.800	1279.100	1648.600	1277.000	1663.400	1276.600	1785.100	1277.900	1802.900
GR	1277.600	1834.000	1278.600	1844.000	1277.900	1844.100	1279.000	1892.500	1279.400	1924.400
[illegible]	1278.900	1957.900	1276.500	1975.100	1275.900	1994.000	1277.000	2014.100	1278.400	2038.100
[illegible]	1275.900	2057.400	1276.300	2105.200	1278.400	2120.400	1278.400	2177.300	1277.300	2201.400
GR	1275.500	2220.100	1278.600	2240.700	1277.700	2288.300	1277.900	2425.100	1278.200	2547.800
GR	1278.700	2692.700	1279.900	2877.800	1279.900	4113.600	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1210.000	1780.000
X1	190.000	49.000	1516.900	1661.000	450.000	500.000	470.000	.000	.000	.000
GR	1281.900	.000	1282.400	927.700	1283.100	1025.900	1283.100	1101.200	1282.400	1116.300
GR	1283.100	1144.200	1282.900	1230.900	1281.000	1249.500	1282.800	1266.200	1282.800	1301.100
GR	1281.000	1331.300	1279.200	1360.900	1279.200	1381.700	1281.400	1404.300	1282.200	1425.200
GR	1281.900	1455.500	1282.300	1516.900	1278.400	1526.700	1278.800	1638.500	1282.500	1661.000
GR	1282.600	1718.200	1281.200	1745.200	1279.400	1788.000	1281.400	1797.300	1281.500	1797.400

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GR	1281.600	1873.500	1279.000	1889.400	1281.000	1900.300	1280.800	1930.500	1279.300	1936.300
GR	1280.800	1945.600	1280.400	1986.700	1279.300	2006.000	1280.800	2021.300	1280.600	2056.300
GR	1278.300	2066.600	1280.600	2079.100	1281.300	2126.100	1281.200	2201.000	1280.600	2304.200
GR	1280.100	2330.400	1277.200	2346.400	1280.900	2365.100	1281.100	2420.100	1280.900	2530.300
GR	1280.800	2626.200	1281.400	2723.900	1281.900	2895.300	1281.900	4156.500	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1510.000	1920.000
X1	191.000	48.000	1580.600	1859.800	500.000	500.000	500.000	.000	.000	.000
GR	1286.200	.000	1286.200	781.600	1286.200	804.800	1286.200	1161.500	1286.200	1236.200
GR	1284.100	1256.300	1285.900	1292.700	1285.700	1354.100	1285.400	1453.100	1283.700	1470.000
GR	1284.100	1514.200	1285.200	1538.500	1283.400	1555.500	1283.200	1568.300	1284.800	1580.600
GR	1284.000	1637.200	1281.900	1672.300	1283.700	1683.400	1283.700	1700.100	1281.700	1704.600
GR	1281.000	1778.900	1285.400	1809.100	1286.200	1859.800	1286.200	1885.900	1285.000	1886.000
GR	1284.400	1991.900	1284.400	2122.600	1283.000	2145.000	1283.900	2159.000	1283.800	2229.500
GR	1282.800	2243.000	1284.000	2256.800	1284.700	2325.200	1283.900	2390.700	1280.900	2418.500
GR	1283.500	2438.600	1284.100	2474.500	1284.400	2570.300	1281.000	2587.000	1281.000	2597.000
GR	1283.900	2610.700	1284.000	2673.700	1283.700	2718.200	1281.700	2729.300	1283.600	2744.400
GR	1284.000	2953.700	1285.500	3196.300	1285.500	3755.100	.000	.000	.000	.000
[illegible]	.000	.000	.000	9.100	.000	.000	.000	.000	1430.000	1790.000
[illegible]	192.000	59.000	1457.800	1787.800	500.000	530.000	500.000	.000	.000	.000
GR	1289.300	.000	1289.300	747.800	1289.300	794.200	1289.300	885.200	1289.800	953.900
GR	1289.700	1000.100	1289.700	1023.300	1289.700	1053.000	1289.700	1091.300	1289.700	1104.600
GR	1287.200	1130.100	1289.700	1147.400	1289.500	1188.200	1287.900	1226.900	1287.100	1274.200
GR	1288.200	1296.800	1287.700	1319.700	1287.200	1357.700	1287.200	1457.800	1284.200	1472.000
GR	1284.300	1551.200	1285.900	1559.200	1284.300	1559.300	1287.500	1576.500	1287.700	1650.600
GR	1285.400	1659.100	1285.700	1694.400	1287.600	1712.900	1287.600	1727.200	1285.900	1735.800
GR	1285.900	1752.700	1287.600	1766.900	1288.000	1787.800	1288.000	1848.500	1286.400	1863.000
GR	1287.600	1879.000	1287.300	1961.400	1286.000	1969.300	1287.300	1980.900	1285.900	1992.800
GR	1287.500	2005.500	1287.500	2024.500	1285.300	2033.900	1287.000	2048.900	1286.800	2144.500
GR	1284.600	2153.700	1286.900	2163.700	1286.500	2188.700	1285.800	2195.700	1287.100	2211.400
GR	1287.200	2331.200	1286.400	2384.400	1286.900	2473.600	1284.500	2490.900	1286.800	2508.200
GR	1286.500	2595.000	1286.600	2663.100	1288.300	3058.100	1288.300	4001.300	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1900.000	2170.000
X1	193.000	34.000	1952.600	2160.200	490.000	490.000	490.000	.000	.000	.000
GR	1292.000	.000	1292.000	300.000	1292.000	600.000	1292.000	900.000	1292.000	1200.000
GR	1292.000	1555.100	1288.700	1599.200	1291.100	1617.400	1290.900	1668.500	1289.800	1707.700
GR	1289.100	1737.800	1290.400	1792.100	1290.700	1860.500	1290.700	1860.600	1290.800	1860.700
GR	1290.800	1952.600	1286.300	1969.400	1286.800	2020.100	1288.800	2074.800	1288.600	2130.400
GR	1290.800	2160.200	1290.900	2205.000	1290.900	2304.300	1290.500	2457.000	1291.000	2615.300
GR	1290.200	2747.200	1289.700	2873.200	1286.800	2899.800	1290.200	2922.900	1289.300	2983.300
GR	1290.200	3163.700	1291.000	3345.800	1291.700	3527.100	1291.700	3790.600	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2140.000	2340.000
X1	194.000	53.000	2149.500	2336.400	500.000	500.000	500.000	.000	.000	.000
GR	1295.100	.000	1295.100	93.300	1295.100	198.300	1294.700	282.700	1294.400	351.100
GR	1292.400	384.700	1294.000	404.000	1294.700	475.800	1294.000	543.200	1294.500	612.200
GR	1295.100	697.800	1295.100	767.600	1293.800	916.500	1291.500	942.700	1293.400	963.100
GR	1295.000	1021.800	1294.700	1137.700	1294.400	1200.300	1292.600	1236.200	1291.400	1254.300
GR	1294.100	1266.000	1293.400	1367.400	1294.200	1554.400	1295.000	1796.200	1294.700	1923.200
GR	1291.400	1968.400	1293.300	1977.300	1292.500	1992.300	1292.500	2003.800	1292.700	2003.900
[illegible]	1293.200	2149.500	1288.800	2224.900	1289.200	2307.600	1293.500	2336.400	1294.200	2396.400
[illegible]	1293.900	2446.500	1292.600	2496.900	1292.600	2530.300	1293.800	2601.000	1294.700	2696.200

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GR	1294.400	2805.700	1293.300	2992.800	1292.600	3016.800	1290.500	3030.600	1292.800	3046.100
GR	1293.000	3130.300	1289.300	3149.800	1292.500	3172.300	1293.000	3244.800	1293.900	3416.800
GR	1295.200	3582.500	1295.700	3646.100	1295.700	3900.500	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2230.000	2430.000
X1	195.000	54.000	2221.300	2430.200	500.000	500.000	500.000	.000	.000	.000
GR	1298.200	.000	1298.900	133.000	1298.800	315.200	1299.200	421.100	1298.000	447.900
GR	1298.600	580.500	1298.100	601.100	1298.100	652.300	1298.100	661.700	1298.200	678.100
GR	1298.600	864.700	1298.100	1066.100	1298.100	1091.200	1298.100	1114.900	1298.100	1167.400
GR	1298.100	1204.500	1297.300	1243.800	1296.900	1362.300	1296.500	1558.600	1294.800	1584.100
GR	1295.200	1615.700	1296.700	1631.700	1297.300	1773.400	1297.600	2027.000	1297.700	2027.100
GR	1297.300	2055.200	1294.600	2068.600	1295.500	2124.900	1296.100	2221.300	1295.600	2292.900
GR	1294.900	2312.100	1291.100	2336.100	1290.900	2409.000	1296.000	2430.200	1296.800	2489.000
GR	1297.400	2592.700	1297.100	2743.900	1297.100	2849.300	1296.800	2876.300	1294.300	2894.500
GR	1296.600	2908.300	1296.900	2942.400	1296.300	3198.200	1292.900	3231.500	1295.800	3244.900
GR	1295.900	3267.500	1295.300	3284.700	1293.300	3295.900	1296.000	3306.100	1296.800	3336.200
GR	1297.400	3475.100	1298.500	3614.600	1298.000	3767.500	1298.000	3770.700	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	2000.000	2290.000
X1	196.000	59.000	1979.500	2387.500	500.000	500.000	500.000	.000	.000	.000
GR	1301.600	.000	1302.200	112.900	1301.200	550.300	1300.100	585.000	1301.400	600.300
GR	1302.000	638.100	1301.700	675.900	1301.300	832.900	1301.300	904.200	1301.300	928.500
GR	1301.300	956.200	1301.300	1010.000	1301.300	1058.900	1301.300	1094.500	1301.200	1178.800
GR	1300.400	1265.100	1300.600	1375.300	1300.000	1409.700	1299.600	1456.700	1298.600	1508.800
GR	1300.000	1527.400	1300.100	1561.400	1299.100	1597.600	1300.100	1624.400	1300.600	1788.000
GR	1300.000	1788.100	1299.900	1848.100	1299.000	1875.500	1297.000	1887.400	1298.700	1903.200
GR	1298.700	1927.200	1296.500	1955.100	1298.800	1979.500	1299.200	2034.200	1297.900	2089.300
GR	1292.400	2106.700	1292.900	2171.300	1297.600	2190.200	1298.900	2250.100	1299.800	2318.600
GR	1300.300	2387.500	1300.100	2424.900	1300.500	2487.200	1300.500	2517.600	1299.400	2545.600
GR	1298.200	2567.000	1300.200	2596.800	1300.300	2614.500	1297.400	2641.200	1299.800	2654.600
GR	1299.800	2894.100	1298.900	2937.600	1297.200	2973.800	1299.400	2990.700	1299.400	3015.800
GR	1297.800	3035.000	1299.300	3052.400	1300.800	3368.300	1300.900	3384.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1780.000	2070.000
X1	197.000	64.000	1828.700	2074.000	530.000	530.000	530.000	.000	.000	.000
GR	1305.900	.000	1305.500	283.800	1304.600	307.600	1305.300	322.900	1304.800	336.900
GR	1304.600	352.700	1305.100	372.800	1305.300	439.900	1304.800	603.600	1304.600	616.300
GR	1304.400	631.200	1304.600	654.900	1304.600	667.400	1304.600	749.500	1304.600	801.700
GR	1304.600	831.200	1304.600	846.800	1304.900	923.200	1304.600	973.100	1304.600	1030.200
GR	1304.600	1048.600	1304.500	1073.100	1305.600	1106.600	1305.600	1139.700	1304.600	1171.100
GR	1304.600	1215.000	1304.600	1234.200	1304.600	1315.500	1303.900	1421.100	1303.600	1478.100
GR	1302.300	1497.400	1302.600	1497.500	1300.700	1509.200	1303.400	1527.100	1303.500	1574.800
GR	1303.000	1671.100	1302.300	1739.900	1300.800	1771.600	1299.600	1789.400	1301.400	1806.400
GR	1301.200	1828.700	1294.700	1851.600	1295.100	1915.700	1300.700	1933.300	1301.600	1943.800
GR	1301.000	1955.500	1299.500	1969.000	1300.500	2006.500	1303.000	2023.700	1303.000	2047.900
GR	1302.200	2074.000	1301.600	2095.000	1303.400	2116.700	1303.400	2150.900	1302.700	2178.400
GR	1301.000	2201.600	1303.200	2224.600	1303.400	2257.700	1303.900	2492.500	1302.500	2512.600
GR	1300.500	2541.500	1302.900	2579.800	1304.100	2646.500	1304.100	2973.300	.000	.000

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QT	3.000	3700.000	3700.000	3700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1480.000	1880.000
X1	198.000	48.000	1432.600	1883.600	500.000	540.000	500.000	.000	.000	.000
GR	1309.200	.000	1309.700	142.400	1310.200	231.700	1309.800	300.100	1308.900	391.300
GR	1308.200	416.100	1308.900	429.300	1309.000	467.600	1308.200	497.600	1309.300	520.300
GR	1309.400	653.200	1308.500	687.700	1308.200	721.300	1308.200	742.800	1308.500	816.000
GR	1308.600	855.300	1309.200	995.200	1308.000	1073.500	1308.200	1110.900	1308.200	1122.700
GR	1308.200	1137.300	1308.200	1204.000	1308.000	1204.100	1307.200	1359.400	1307.000	1432.600
GR	1305.500	1471.400	1302.000	1503.200	1303.500	1523.700	1304.300	1540.200	1300.900	1567.400
GR	1300.600	1608.000	1299.200	1620.100	1298.300	1668.800	1298.200	1731.800	1302.300	1760.200
GR	1303.600	1782.700	1301.100	1803.900	1304.100	1829.200	1304.700	1850.000	1306.800	1883.600
GR	1307.500	1940.100	1307.300	2007.100	1306.300	2037.100	1304.700	2055.300	1305.500	2086.700
GR	1307.000	2110.800	1307.300	2165.300	1307.400	2302.800	.000	.000	.000	.000
QT	3.000	3600.000	3600.000	3600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1500.000	2080.000
X1	199.000	60.000	1535.800	2082.000	580.000	660.000	600.000	.000	.000	.000
GR	1313.500	.000	1314.500	81.900	1314.200	158.100	1313.300	264.400	1312.600	358.800
GR	1310.500	384.300	1312.600	427.200	1312.900	484.100	1312.400	526.400	1311.200	554.400
GR	1312.800	584.600	1312.800	666.600	1311.300	722.200	1312.100	763.100	1312.100	919.900
GR	1308.400	969.500	1310.600	996.000	1307.400	1012.200	1307.400	1015.000	1306.700	1015.100
GR	1306.700	1028.700	1309.500	1038.500	1309.500	1062.200	1304.700	1085.100	1304.700	1115.300
GR	1309.200	1140.000	1309.200	1203.800	1310.100	1247.000	1310.700	1286.000	1310.000	1315.300
GR	1308.700	1343.000	1305.300	1360.100	1308.900	1371.700	1309.000	1407.200	1305.700	1424.500
GR	1305.900	1436.800	1309.800	1459.200	1310.900	1509.500	1310.400	1535.800	1309.400	1552.700
GR	1304.800	1578.300	1305.600	1588.900	1306.500	1748.700	1305.100	1759.500	1304.700	1796.500
GR	1303.100	1800.700	1303.100	1867.500	1304.300	1876.300	1303.300	1890.500	1303.900	1914.100

GR	1305.100	1958.900	1310.600	1975.100	1309.600	1996.000	1305.600	2008.100	1304.500	2023.600
GR	1307.500	2040.700	1309.600	2064.100	1310.500	2082.000	1310.300	2141.500	1310.700	2284.200
QT	3.000	3400.000	3400.000	3400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1260.000	1940.000
X1	200.000	29.000	1264.500	1927.400	530.000	580.000	540.000	.000	.000	.000
[illegible]	1317.000	.000	1315.600	865.300	1314.600	902.600	1313.200	935.900	1314.200	1109.300
[illegible]	1313.000	1148.400	1311.200	1192.900	1312.700	1226.700	1313.100	1264.500	1312.400	1294.800
[illegible]	1309.800	1323.400	1309.300	1400.900	1308.200	1429.800	1307.500	1539.600	1307.300	1595.800
GR	1305.400	1602.400	1306.300	1641.900	1309.000	1660.100	1311.200	1754.100	1312.700	1875.200
GR	1306.900	1892.600	1307.100	1907.800	1312.900	1927.400	1313.000	1991.700	1312.400	2064.900
GR	1312.700	2160.700	1313.200	2257.600	1313.000	2316.000	1313.300	2407.500	.000	.000
QT	3.000	3300.000	3300.000	3300.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1050.000	1670.000
X1	201.000	54.000	1063.800	1664.800	520.000	600.000	560.000	.000	.000	.000
GR	1320.000	.000	1320.200	51.600	1319.900	105.800	1319.100	137.200	1317.800	150.100
GR	1318.400	172.000	1319.400	201.500	1319.400	209.000	1319.000	209.100	1319.000	292.100
GR	1318.400	376.100	1317.400	456.500	1315.200	510.700	1315.800	548.600	1316.300	627.900
GR	1316.300	736.100	1316.300	812.000	1314.400	899.700	1312.900	916.100	1314.300	929.000
GR	1313.800	964.900	1310.400	984.000	1314.300	997.300	1313.800	1063.800	1308.600	1082.600
GR	1308.700	1136.900	1310.000	1156.600	1310.300	1182.000	1311.800	1217.400	1311.200	1271.600
GR	1312.200	1289.900	1312.000	1312.300	1312.000	1366.400	1312.900	1441.100	1312.800	1465.000
GR	1311.400	1496.000	1311.500	1521.800	1314.300	1536.300	1315.500	1607.700	1310.200	1626.200
GR	1310.200	1641.200	1315.000	1664.800	1316.100	1729.200	1316.000	1776.500	1313.400	1785.700
GR	1313.600	1797.800	1315.200	1807.300	1314.600	1915.100	1312.400	1932.300	1313.300	1949.800

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GR	1313.000	1995.700	1314.300	2023.200	1315.900	2075.200	1316.000	2594.300	.000	.000
QT	3.000	3200.000	3200.000	3200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	850.000	1390.000
X1	202.000	45.000	845.100	1377.600	490.000	540.000	510.000	.000	.000	.000
GR	1321.700	.000	1321.700	16.000	1321.700	16.100	1322.000	16.200	1321.000	108.000
GR	1320.700	268.500	1320.200	355.000	1318.700	410.800	1317.400	443.100	1315.600	456.200
GR	1317.400	477.400	1318.300	523.200	1318.500	586.100	1318.100	625.500	1316.700	657.200
GR	1314.700	686.100	1312.700	698.900	1316.500	715.500	1317.300	751.300	1316.300	780.900
GR	1315.500	796.300	1315.800	845.100	1313.000	857.700	1313.300	894.600	1311.500	906.600
[illegible]	1312.500	960.700	1313.500	1071.600	1314.200	1142.900	1314.200	1175.500	1317.600	1198.900
[illegible]	1317.800	1319.300	1312.600	1338.300	1312.600	1355.100	1317.300	1377.600	1317.600	1388.400
[illegible]	1316.700	1433.100	1315.200	1458.400	1316.200	1476.300	1315.900	1519.700	1314.900	1541.300
GR	1316.900	1557.800	1318.300	1591.200	1318.300	1631.500	1318.100	1687.200	1318.200	2676.500
QT	3.000	3100.000	3100.000	3100.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	690.000	1220.000
X1	203.000	40.000	691.000	1217.900	540.000	590.000	560.000	.000	.000	.000
GR	1324.000	.000	1324.000	21.200	1324.000	38.400	1323.900	38.500	1322.500	192.000
GR	1321.500	295.900	1321.400	342.200	1320.100	480.900	1316.100	499.800	1318.700	516.600
GR	1318.600	551.500	1317.500	561.100	1319.100	575.100	1319.000	586.600	1317.000	593.700
GR	1318.700	610.300	1320.100	691.000	1318.300	724.100	1316.600	764.300	1315.300	818.100
GR	1317.100	837.900	1318.300	953.200	1316.900	970.800	1317.100	1070.400	1315.400	1087.500
GR	1314.600	1174.800	1316.200	1185.400	1314.200	1203.000	1320.400	1217.900	1319.300	1257.400
GR	1319.000	1309.300	1317.100	1322.900	1319.400	1334.300	1319.400	1355.000	1316.500	1366.700
GR	1319.200	1375.100	1319.200	1446.000	1317.800	1459.100	1318.700	1490.100	1321.200	1739.400
QT	3.000	2900.000	2900.000	2900.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	710.000	1340.000
X1	204.000	66.000	703.700	1327.100	480.000	560.000	520.000	.000	.000	.000
GR	1324.800	.000	1325.100	39.700	1325.100	92.300	1324.800	115.800	1324.800	131.100
GR	1324.800	149.200	1324.800	183.500	1324.800	259.600	1324.200	259.700	1324.100	375.200
GR	1322.900	464.700	1322.300	498.000	1319.800	517.100	1319.800	524.600	1321.300	533.700
GR	1321.300	587.900	1319.600	596.900	1321.300	608.500	1321.800	703.700	1320.500	723.100
GR	1320.400	736.100	1317.900	747.700	1318.200	801.400	1321.000	822.400	1321.800	869.100
GR	1320.300	918.400	1320.600	932.400	1322.100	985.100	1322.400	1028.300	1321.200	1051.600
GR	1319.200	1063.100	1319.500	1151.500	1322.400	1186.000	1316.800	1209.300	1317.500	1282.000
GR	1320.400	1304.500	1322.000	1327.100	1321.800	1346.500	1319.500	1363.600	1320.600	1377.500
GR	1318.800	1394.900	1321.000	1405.800	1318.800	1415.400	1321.800	1431.300	1321.800	1490.200
GR	1324.100	1514.700	1324.600	1586.200	1324.100	1630.700	1323.200	1642.400	1324.200	1658.900
GR	1325.000	1732.100	1324.900	1800.400	1324.300	1886.400	1324.200	1954.700	1323.900	1996.100
GR	1323.600	2051.800	1324.100	2105.000	1324.100	2168.000	1324.100	2220.000	1324.100	2256.400
GR	1324.100	2310.700	1324.100	2447.000	1324.100	2618.400	1324.600	2754.100	1324.100	2866.400
GR	1324.100	2866.500	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	3.000	2800.000	2800.000	2800.000	.000	.000	.000	.000	.000	.000
[illegible]	.000	.000	.000	9.100	.000	.000	.000	.000	690.000	1250.000
X1	205.000	59.000	698.300	1218.000	480.000	540.000	510.000	.000	.000	.000
GR	1328.300	.000	1328.200	60.400	1327.300	128.600	1326.500	189.500	1325.600	315.900
GR	1323.200	371.500	1323.200	391.100	1324.300	406.900	1325.000	426.600	1324.600	426.700

GR	1324.000	588.100	1321.800	616.800	1323.600	640.600	1324.300	669.700	1324.100	698.300
GR	1321.100	721.600	1321.100	768.600	1322.400	790.900	1323.700	832.600	1325.400	882.100
GR	1326.100	915.200	1326.100	948.300	1323.600	969.500	1323.000	1063.700	1322.600	1100.500
GR	1320.000	1113.600	1320.000	1202.200	1325.500	1218.000	1324.400	1252.100	1324.300	1295.200

GR	1318.600	1314.100	1323.800	1329.800	1323.800	1372.700	1320.500	1384.700	1323.500	1396.200
GR	1323.500	1410.700	1320.900	1418.400	1323.800	1432.800	1325.100	1488.900	1328.300	1565.300
GR	1327.700	1616.800	1326.800	1671.900	1326.900	1761.600	1326.900	1863.700	1327.000	1988.600
GR	1327.300	2110.500	1327.400	2246.900	1329.000	2395.800	1329.500	2451.500	1328.500	2555.900
GR	1328.600	2713.900	1328.300	2819.700	1328.100	2864.000	1327.200	2870.700	1327.200	2900.800
GR	1328.200	2912.800	1328.400	2983.500	1328.100	3063.000	1327.800	3106.500	.000	.000
QT	3.000	2700.000	2700.000	2700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1090.000	1460.000
X1	206.000	47.000	1076.400	1463.200	530.000	560.000	540.000	.000	.000	.000
GR	1333.100	.000	1332.900	49.500	1332.200	154.300	1331.400	343.000	1329.600	483.800
GR	1328.800	572.400	1327.800	620.200	1326.000	636.900	1327.700	653.200	1327.700	678.300
GR	1328.700	693.100	1328.100	781.000	1328.000	884.000	1326.300	934.700	1325.800	1025.400
GR	1327.000	1040.200	1327.500	1076.400	1323.800	1107.700	1323.800	1108.900	1324.200	1109.000
GR	1323.800	1191.000	1327.100	1210.600	1324.100	1230.600	1324.100	1259.600	1322.600	1410.500
GR	1326.900	1424.300	1328.000	1463.200	1327.800	1641.500	1326.100	1686.700	1323.700	1712.700
GR	1326.300	1739.200	1326.200	1781.100	1323.500	1799.400	1326.300	1810.900	1326.700	1881.600
GR	1324.600	1889.200	1326.700	1900.100	1327.400	1951.300	1329.100	2050.800	1329.300	2157.200
GR	1329.400	2230.800	1329.200	2321.300	1329.800	2460.800	1331.000	2664.500	1332.300	2862.200
GR	1333.100	3049.200	1333.100	3049.300	.000	.000	.000	.000	.000	.000
QT	3.000	2600.000	2600.000	2600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	880.000	1200.000
X1	207.000	56.000	761.000	1204.300	460.000	480.000	470.000	.000	.000	.000
GR	1334.100	.000	1333.400	37.300	1333.000	145.100	1333.000	222.600	1333.000	270.000
GR	1333.000	290.500	1333.000	308.700	1333.000	320.200	1333.000	335.400	1333.000	347.500
GR	1333.000	355.700	1333.000	365.800	1333.000	407.400	1333.600	465.200	1333.800	498.600
GR	1332.200	530.800	1331.400	596.900	1330.700	678.900	1331.100	715.400	1330.600	761.000
GR	1330.100	786.600	1328.200	814.100	1328.300	927.000	1324.200	951.400	1325.400	1066.300
GR	1327.700	1121.400	1329.200	1138.900	1330.100	1186.000	1330.100	1204.200	1330.600	1204.300
GR	1329.800	1307.300	1328.600	1362.600	1329.900	1397.500	1329.900	1451.200	1330.300	1542.200
GR	1328.600	1593.400	1327.500	1630.300	1327.600	1660.100	1326.100	1677.700	1327.900	1694.800
GR	1328.000	1752.300	1327.600	1778.400	1328.700	1796.200	1328.600	1814.000	1327.000	1821.000
GR	1328.700	1836.900	1328.700	1889.000	1330.400	1991.400	1330.100	2077.500	1330.700	2187.100
GR	1331.200	2289.200	1332.100	2390.500	1332.300	2508.000	1332.900	2649.100	1333.400	2840.200
GR	1333.600	2937.600	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	2500.000	2500.000	2500.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	910.000	1150.000
X1	208.000	85.000	921.000	1126.700	490.000	540.000	500.000	.000	.000	.000
GR	1336.500	.000	1335.400	79.100	1335.200	102.500	1333.700	112.400	1333.700	120.500
GR	1335.600	128.900	1335.500	187.500	1335.400	242.800	1334.800	270.200	1334.600	296.400
GR	1335.400	332.300	1336.000	365.300	1335.800	412.300	1335.000	457.300	1334.500	510.300
GR	1333.800	580.100	1332.600	640.600	1330.800	884.400	1329.800	903.800	1330.900	921.000
GR	1325.100	935.600	1326.600	1012.300	1329.900	1025.300	1331.400	1049.500	1332.700	1126.700
GR	1332.400	1162.300	1328.200	1183.000	1328.900	1197.400	1331.700	1233.400	1332.500	1264.100
GR	1332.100	1311.600	1331.400	1368.400	1330.900	1406.500	1331.800	1455.600	1332.000	1494.800
GR	1333.400	1553.500	1334.000	1553.600	1333.500	1553.700	1334.300	1580.100	1334.000	1626.500
GR	1334.000	1626.600	1333.600	1626.700	1332.900	1660.300	1333.500	1690.200	1333.800	1711.300
GR	1332.700	1750.900	1332.300	1815.300	1331.400	1850.800	1330.300	1935.300	1329.200	1941.300
GR	1330.200	1956.600	1329.100	1982.400	1330.400	1996.500	1330.100	2032.400	1328.400	2040.700
GR	1330.400	2053.700	1328.900	2064.700	1330.500	2079.800	1330.500	2096.600	1330.200	2141.800
GR	1329.500	2152.500	1330.300	2180.000	1330.600	2207.800	1332.100	2244.400	1332.100	2271.700
GR	1332.500	2288.400	1333.900	2314.600	1335.700	2347.200	1335.900	2381.000	1335.200	2406.400

GR	1334.900	2451.600	1334.800	2492.600	1335.000	2558.000	1335.800	2632.700	1336.100	2717.900
GR	1336.300	2830.500	1336.100	2895.000	1336.600	2990.700	1337.500	3021.600	1337.500	3053.800
GR	1337.500	3096.300	1337.000	3125.300	1337.200	3271.300	1337.000	3364.700	1337.000	3398.300
QT	3.000	2300.000	2300.000	2300.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	850.000	1030.000
X1	209.000	74.000	864.800	979.300	520.000	520.000	520.000	.000	.000	.000
GR	1339.000	.000	1338.800	53.300	1338.000	129.500	1337.800	211.500	1336.500	270.100
GR	1336.700	331.100	1336.700	354.000	1336.700	382.700	1336.700	407.800	1336.700	434.700
GR	1336.700	449.700	1336.700	497.900	1336.600	558.900	1335.700	590.600	1335.800	590.700
GR	1335.600	590.800	1336.300	628.100	1335.200	667.100	1334.000	707.700	1333.600	773.500
GR	1330.400	797.900	1333.200	811.900	1334.200	844.500	1334.500	864.800	1327.700	887.100
GR	1328.200	916.600	1328.600	955.900	1334.500	979.300	1334.800	1012.600	1335.200	1138.100
GR	1333.100	1163.500	1332.500	1188.300	1333.300	1211.500	1334.300	1242.800	1334.300	1271.100

GR	1334.300	1324.100	1331.800	1340.600	1331.800	1352.300	1334.500	1373.100	1335.600	1460.200
GR	1336.800	1530.400	1336.800	1563.900	1335.800	1604.100	1335.400	1683.200	1334.500	1753.200
GR	1333.000	1796.700	1334.700	1839.600	1334.100	1878.900	1333.400	1915.700	1331.600	1936.900
GR	1331.100	1958.900	1329.800	1988.700	1332.800	2008.700	1331.800	2055.500	1332.300	2111.300
GR	1333.000	2214.000	1332.300	2226.300	1333.100	2235.900	1335.200	2352.100	1332.500	2376.300
GR	1332.500	2386.800	1333.600	2410.500	1334.900	2470.200	1335.300	2538.100	1336.600	2596.400
[illegible]	1337.800	2678.900	1338.200	2760.600	1338.100	2837.800	1337.900	2952.700	1338.000	3084.000
[illegible]	1338.800	3155.800	1338.600	3210.500	1338.500	3285.600	1338.100	3357.100	.000	.000
QT	3.000	2200.000	2200.000	2200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	540.000	800.000
X1	210.000	50.000	564.300	738.900	500.000	510.000	505.000	.000	.000	.000
GR	1342.400	.000	1341.000	30.400	1340.100	86.200	1339.000	175.200	1338.400	226.700
GR	1335.500	332.400	1333.600	379.300	1335.200	401.900	1335.800	458.900	1336.700	550.300
GR	1335.800	564.300	1331.400	577.800	1330.400	705.200	1335.800	738.900	1337.100	806.300
GR	1337.200	873.500	1337.200	935.800	1337.100	1028.400	1336.700	1123.500	1334.300	1131.800
GR	1336.900	1149.000	1337.200	1169.900	1336.300	1188.600	1334.300	1208.100	1333.300	1224.300
GR	1337.500	1249.100	1338.000	1325.000	1336.600	1350.300	1336.400	1389.500	1335.000	1413.600
GR	1334.700	1475.900	1333.100	1492.500	1334.700	1521.200	1331.800	1544.100	1334.600	1559.900
GR	1335.200	1587.200	1331.600	1597.200	1335.400	1612.300	1335.500	1660.100	1331.800	1670.000
GR	1334.700	1683.000	1335.300	1721.100	1332.800	1736.300	1334.600	1750.700	1335.600	1793.200
GR	1335.900	1814.200	1334.700	1828.600	1336.500	1861.100	1338.600	1929.700	1338.800	1971.100
QT	3.000	2100.000	2100.000	2100.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	750.000	1100.000
X1	211.000	61.000	797.800	1089.200	480.000	480.000	480.000	.000	.000	.000
GR	1343.900	.000	1344.400	55.900	1342.300	160.400	1340.500	288.000	1338.700	424.300
GR	1338.000	540.000	1336.100	560.000	1338.000	579.300	1335.900	593.700	1337.600	617.400
GR	1338.800	715.400	1338.700	797.800	1337.400	819.500	1333.900	843.000	1333.700	914.600
GR	1333.700	980.600	1336.800	1007.900	1337.900	1032.300	1337.600	1057.600	1338.900	1089.200
GR	1339.900	1133.400	1339.900	1215.100	1337.600	1231.300	1339.000	1329.700	1335.600	1360.700
GR	1338.700	1400.100	1339.500	1445.700	1338.900	1504.800	1337.600	1547.200	1337.000	1615.900
GR	1334.400	1640.100	1336.700	1665.700	1334.500	1685.000	1336.400	1708.500	1337.100	1753.500
GR	1337.200	1768.300	1334.700	1778.600	1337.300	1795.900	1337.800	1860.000	1335.500	1877.000
GR	1337.600	1905.700	1338.300	2028.500	1340.400	2249.100	1341.800	2417.000	1341.400	2499.100
GR	1340.500	2616.900	1341.200	2721.000	1340.100	2730.400	1340.500	2760.900	1341.800	2786.200
GR	1342.200	2837.400	1341.800	2902.000	1340.400	2929.400	1340.400	2967.400	1341.600	3004.900
GR	1343.100	3111.200	1344.000	3187.100	1343.700	3238.000	1343.000	3277.600	1344.000	3336.200
GR	1344.200	3362.000	.000	.000	.000	.000	.000	.000	.000	.000

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QT	3.000	2000.000	2000.000	2000.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	810.000	1220.000
X1	212.000	59.000	952.300	1209.200	520.000	520.000	520.000	.000	.000	.000
GR	1345.700	.000	1343.200	219.000	1340.600	480.400	1340.600	719.800	1340.500	840.500
GR	1335.300	855.200	1335.100	872.400	1340.600	885.600	1341.000	952.300	1335.500	991.800
GR	1334.500	1043.600	1334.800	1096.600	1339.300	1116.600	1340.000	1153.900	1340.500	1209.200
GR	1339.600	1246.100	1338.000	1257.100	1338.000	1274.000	1340.400	1295.900	1340.600	1404.500
GR	1338.900	1425.800	1339.800	1451.500	1340.900	1580.500	1340.500	1644.100	1339.400	1692.800
GR	1338.700	1747.300	1348.800	1776.200	1348.300	1791.400	1335.900	1836.700	1334.000	1872.800
GR	1333.900	1912.500	1339.800	1942.300	1349.500	1975.000	1349.500	1993.000	1347.300	2003.600
GR	1339.500	2035.600	1339.300	2105.900	1339.200	2183.900	1339.500	2293.600	1339.500	2338.800
GR	1338.300	2356.800	1340.400	2390.500	1341.100	2441.200	1342.800	2506.700	1343.000	2545.900
GR	1341.900	2559.300	1341.900	2585.700	1343.600	2599.400	1345.100	2723.700	1345.400	2820.200
GR	1344.600	2901.300	1343.600	2951.200	1343.500	2986.700	1345.000	3024.500	1345.700	3119.400
GR	1345.700	3201.300	1344.300	3233.800	1345.700	3272.500	1346.100	3305.100	.000	.000
NC	.060	.060	.055	.000	.000	.000	.000	.000	.000	.000
QT	3.000	1900.000	1900.000	1900.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1000.000	1460.000
X1	213.000	69.000	1224.500	1437.400	500.000	500.000	500.000	.000	.000	.000
GR	1347.200	.000	1346.700	101.600	1344.900	128.200	1346.500	149.700	1346.500	256.400
GR	1345.400	330.900	1345.400	394.500	1346.300	511.200	1344.500	525.700	1344.200	541.200
GR	1345.700	552.500	1346.100	596.200	1346.100	627.800	1344.600	680.600	1343.600	739.000
GR	1341.800	969.600	1340.700	991.400	1342.300	1010.500	1342.700	1026.400	1337.800	1041.400
GR	1337.800	1052.100	1343.000	1068.000	1343.200	1091.200	1340.700	1114.100	1340.600	1140.100
GR	1341.400	1183.200	1342.600	1207.700	1342.600	1224.500	1337.000	1239.600	1336.800	1334.200
GR	1342.400	1345.300	1343.500	1437.400	1340.900	1462.700	1341.000	1494.500	1342.700	1510.100
GR	1343.500	1554.700	1342.300	1619.000	1343.900	1695.200	1345.000	1777.100	1344.200	1834.400
GR	1342.700	1943.600	1341.300	1975.400	1341.600	1994.400	1343.000	2006.500	1342.700	2053.200
GR	1343.600	2070.700	1341.600	2099.000	1341.500	2123.700	1342.700	2205.000	1341.900	2320.500
[illegible]	1342.500	2411.800	1343.100	2460.400	1342.700	2507.100	1341.700	2519.200	1342.900	2531.700
[illegible]	1342.900	2567.700	1341.800	2577.300	1342.000	2585.600	1343.300	2594.100	1341.600	2604.900
[illegible]	1343.400	2624.200	1343.300	2683.000	1341.800	2695.700	1342.800	2727.800	1344.100	2819.400
GR	1346.200	3019.400	1348.500	3258.700	1349.900	3482.500	1349.900	3546.900	.000	.000
QT	3.000	1800.000	1800.000	1800.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	.000	9.100	.000	.000	.000	.000	720.000	1240.000
X1	214.000	67.000	819.700	1248.400	490.000	470.000	480.000	.000	.000	.000
GR	1348.000	.000	1347.000	66.500	1347.900	115.500	1347.200	300.700	1346.400	445.400
GR	1345.800	579.500	1343.900	685.500	1344.500	695.900	1342.200	707.300	1344.500	737.000
GR	1340.100	773.000	1344.300	805.500	1345.800	819.700	1345.300	867.100	1342.200	898.100
GR	1339.500	920.000	1339.300	944.900	1339.900	975.100	1341.700	989.600	1339.800	1005.200
GR	1339.500	1074.300	1338.800	1112.500	1344.100	1128.500	1345.500	1155.800	1344.100	1173.400
GR	1344.700	1193.600	1346.300	1248.400	1346.200	1284.300	1344.500	1319.000	1342.700	1343.000
GR	1342.700	1368.700	1345.200	1403.300	1345.600	1466.100	1347.600	1512.200	1349.000	1552.900
GR	1347.800	1598.600	1346.000	1662.500	1345.100	1715.900	1344.600	1809.400	1344.100	1856.700
GR	1342.300	1886.000	1344.700	1914.700	1344.400	1937.000	1342.600	1947.000	1345.100	1979.700
GR	1342.700	2004.100	1342.800	2018.500	1345.600	2045.500	1345.300	2082.500	1346.200	2167.600
GR	1345.800	2186.100	1347.400	2238.300	1347.300	2273.200	1346.000	2299.300	1345.500	2345.800
GR	1344.900	2487.400	1345.200	2587.900	1345.700	2618.600	1344.000	2627.200	1346.100	2637.100
GR	1345.900	2647.600	1343.600	2654.400	1345.200	2675.100	1344.400	2706.100	1346.500	2728.600
GR	1349.100	2862.500	1350.100	2976.400	.000	.000	.000	.000	.000	.000

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QT	3.000	1700.000	1700.000	1700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	560.000	1030.000
X1	215.000	43.000	583.500	875.300	500.000	500.000	500.000	.000	.000	.000
GR	1349.400	.000	1349.300	138.600	1348.300	186.900	1346.700	226.600	1345.800	266.700
GR	1347.900	299.200	1347.600	431.600	1344.800	458.400	1346.500	475.400	1347.900	529.500
GR	1347.700	583.500	1344.900	603.800	1340.800	633.000	1340.800	656.200	1343.200	689.000
GR	1342.900	734.700	1340.700	749.900	1341.900	814.800	1345.700	875.300	1342.300	903.700
GR	1346.300	945.500	1348.300	1006.400	1348.400	1040.100	1348.000	1079.200	1348.100	1121.200
GR	1348.200	1208.000	1344.000	1247.900	1347.900	1270.100	1348.400	1309.300	1348.100	1387.600
GR	1347.900	1444.400	1348.000	1516.100	1346.500	1541.900	1347.600	1568.800	1347.500	1627.800
GR	1345.400	1645.700	1346.300	1668.500	1346.400	1700.000	1345.100	1719.600	1346.100	1767.200
GR	1347.200	1868.400	1348.600	1996.400	1350.000	2107.500	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	360.000	990.000
X1	216.000	40.000	739.800	981.800	600.000	580.000	590.000	.000	.000	.000
GR	1351.000	.000	1349.900	141.600	1348.100	165.000	1349.700	186.000	1350.500	243.400
GR	1350.300	373.500	1347.800	394.700	1342.800	414.600	1342.500	451.300	1347.800	468.200
GR	1343.800	479.200	1348.300	496.400	1348.300	506.100	1346.300	520.500	1346.300	529.700
GR	1348.600	540.500	1348.600	611.100	1346.600	628.800	1348.700	651.900	1350.500	711.600
GR	1350.000	739.800	1346.900	768.600	1348.800	787.400	1349.000	808.200	1348.400	822.000
GR	1344.900	838.600	1346.000	903.300	1347.400	922.500	1348.200	965.400	1349.700	981.800
GR	1349.800	1018.400	1347.200	1034.800	1349.400	1055.400	1350.500	1122.200	1350.500	1191.700
GR	1349.800	1245.700	1349.700	1273.600	1348.000	1290.400	1349.600	1310.900	1349.800	1535.700
ET	.000	.000	.000	9.100	.000	.000	.000	.000	350.000	1150.000
X1	217.000	34.000	942.200	1099.800	470.000	450.000	460.000	.000	.000	.000
GR	1352.700	.000	1353.000	31.800	1351.300	54.600	1351.200	82.300	1353.200	121.000
GR	1354.200	187.400	1352.800	358.100	1344.000	385.200	1344.600	422.000	1348.700	438.500
GR	1351.900	483.500	1352.600	515.700	1351.900	548.600	1349.800	568.000	1351.200	597.500
GR	1351.200	616.000	1348.400	629.700	1351.400	640.900	1352.100	706.800	1352.800	727.300
GR	1352.300	749.700	1352.400	799.400	1352.700	866.500	1352.800	942.200	1348.700	983.500
GR	1346.300	1095.800	1352.400	1099.800	1353.200	1160.600	1351.900	1229.400	1349.800	1244.600
GR	1350.000	1273.200	1351.200	1312.500	1351.800	1342.400	1352.100	1461.600	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	425.000	725.000
X1	218.000	55.000	552.900	662.300	500.000	500.000	500.000	.000	.000	.000
GR	1354.300	.000	1354.300	60.900	1353.000	85.800	1353.900	109.400	1354.400	202.700
GR	1352.300	234.600	1354.100	266.200	1355.000	307.000	1353.700	337.100	1355.100	385.700
GR	1355.100	484.300	1352.100	505.100	1354.100	524.300	1353.600	552.900	1348.700	587.700
GR	1349.300	627.300	1349.800	644.500	1354.500	662.300	1355.600	685.500	1355.700	728.000
GR	1354.500	762.000	1352.000	787.900	1351.800	819.300	1353.700	840.600	1355.500	873.000
GR	1355.700	980.200	1354.600	1037.000	1353.300	1064.400	1354.400	1103.000	1353.900	1289.000
GR	1352.200	1315.500	1353.800	1350.100	1351.700	1378.500	1353.200	1410.800	1353.000	1445.600
GR	1353.900	1492.800	1355.300	1567.500	1356.300	1700.900	1357.800	1853.900	1357.500	1895.800
GR	1355.500	1908.300	1355.500	1916.000	1357.500	1926.500	1357.900	2081.700	1355.900	2156.200
GR	1356.100	2188.200	1354.600	2197.600	1354.400	2207.600	1355.800	2213.000	1355.900	2294.000
GR	1353.900	2302.300	1355.500	2312.600	1355.500	2397.500	1356.400	2468.900	1356.400	2502.700

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QT	3.000	1600.000	1600.000	1600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	700.000	1020.000
X1	219.000	38.000	703.400	1051.700	540.000	530.000	530.000	.000	.000	.000
GR	1357.100	.000	1357.400	50.000	1355.800	71.600	1357.300	99.900	1358.000	153.700
GR	1358.600	249.200	1358.200	352.100	1355.900	409.700	1357.400	441.900	1358.000	531.900
GR	1357.600	703.400	1352.700	733.500	1354.900	754.000	1353.200	775.700	1350.900	786.000
GR	1350.900	826.000	1355.200	848.800	1355.400	863.800	1355.100	894.000	1352.200	912.200

GR	1352.200	938.500	1355.700	967.400	1356.400	1006.100	1358.700	1051.700	1358.000	1204.100
GR	1357.900	1302.200	1357.500	1487.400	1355.200	1512.000	1355.500	1567.200	1356.800	1613.800
GR	1356.700	1797.200	1355.100	1810.600	1356.500	1827.400	1356.300	1849.500	1354.800	1855.000
GR	1356.500	1866.700	1357.100	1919.700	1359.500	2113.900	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	730.000	1050.000
[illegible]	220.000	42.000	725.200	940.200	550.000	540.000	540.000	.000	.000	.000
[illegible]	1361.500	.000	1361.300	159.800	1361.000	202.500	1359.400	235.700	1360.700	272.700
[illegible]	1361.000	291.500	1361.700	364.400	1360.400	429.800	1361.000	479.600	1361.100	606.900
GR	1359.600	656.000	1360.400	725.200	1353.600	752.000	1354.000	800.900	1359.400	813.900
GR	1359.500	878.700	1354.300	897.500	1354.500	920.000	1359.600	940.200	1359.000	998.200
GR	1360.800	1051.300	1361.500	1109.300	1360.900	1192.700	1361.100	1360.200	1359.500	1471.300
GR	1357.800	1510.400	1359.000	1544.500	1360.300	1793.000	1359.600	1973.200	1358.400	1998.000
GR	1359.400	2014.200	1357.400	2037.200	1359.400	2051.300	1358.400	2075.400	1359.300	2095.300
GR	1359.400	2130.700	1357.600	2142.500	1359.700	2159.800	1360.000	2203.500	1357.700	2229.500
GR	1360.000	2245.500	1361.600	2308.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	710.000	1090.000
X1	221.000	54.000	823.600	911.400	480.000	460.000	470.000	.000	.000	.000
GR	1364.000	.000	1363.600	210.200	1362.100	234.700	1363.600	283.600	1363.900	370.000
GR	1362.800	495.900	1362.400	543.900	1355.800	577.100	1356.000	593.900	1361.000	609.800
GR	1361.600	724.800	1355.700	747.300	1360.700	767.100	1360.700	823.600	1355.700	839.200
GR	1355.800	853.300	1357.300	892.500	1361.200	911.400	1361.400	940.300	1360.200	953.000
GR	1361.800	981.800	1363.400	1153.200	1362.800	1463.200	1361.400	1482.900	1362.300	1521.200
GR	1360.500	1532.400	1362.400	1543.700	1362.000	1608.900	1360.800	1622.400	1362.400	1639.800
GR	1363.100	1732.200	1362.800	1813.000	1361.900	1920.200	1362.100	1979.700	1362.300	2067.400
GR	1361.800	2108.800	1360.700	2116.900	1362.100	2123.700	1361.900	2150.800	1359.800	2159.900
GR	1361.300	2168.300	1361.800	2213.500	1361.700	2293.400	1360.500	2310.100	1361.600	2341.000
GR	1363.400	2514.500	1363.800	2597.600	1364.300	2787.800	1364.300	3038.100	1362.500	3056.900
GR	1363.400	3068.300	1363.400	3078.300	1364.200	3090.900	1364.700	3186.800	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	720.000	1370.000
X1	222.000	50.000	967.900	1187.500	530.000	540.000	530.000	.000	.000	.000
GR	1366.600	.000	1365.800	44.800	1363.500	64.700	1365.000	93.000	1364.100	101.900
GR	1366.400	120.600	1365.900	172.200	1361.400	204.500	1361.900	224.100	1364.800	239.400
GR	1365.000	273.800	1363.000	316.900	1365.700	383.400	1366.200	449.900	1365.000	501.100
GR	1365.700	580.700	1363.600	640.300	1364.100	663.800	1363.500	691.700	1362.000	701.800
GR	1363.800	716.500	1364.100	746.600	1361.800	766.700	1364.500	787.400	1363.700	820.600
GR	1363.000	840.500	1360.700	858.200	1358.300	865.000	1358.400	877.000	1364.400	887.300
GR	1364.000	908.100	1364.400	924.900	1358.600	947.800	1358.900	953.000	1363.500	967.900
[illegible]	1360.500	998.200	1360.800	1004.100	1364.500	1017.700	1365.700	1087.500	1365.700	1122.400
[illegible]	1359.800	1141.800	1359.800	1165.700	1364.600	1187.500	1366.100	1272.800	1366.600	1399.100
[illegible]	1365.700	1457.500	1365.700	1484.700	1366.800	1579.000	1365.900	1641.400	1366.400	1699.800

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QT	3.000	1500.000	1500.000	1500.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	490.000	1480.000
X1	223.000	71.000	1218.600	1348.700	600.000	520.000	550.000	.000	.000	.000
GR	1367.400	.000	1368.600	56.000	1368.600	126.800	1367.500	196.300	1366.700	257.000
GR	1366.800	319.400	1367.200	429.500	1366.800	506.100	1364.300	516.900	1365.400	539.200
GR	1366.600	560.500	1366.400	583.300	1361.800	600.400	1361.900	615.300	1364.700	625.300
GR	1365.200	640.800	1365.100	655.800	1362.500	671.600	1364.700	684.900	1363.500	699.800
GR	1366.300	713.400	1366.100	725.000	1363.000	728.000	1363.200	737.200	1366.300	743.400
GR	1363.200	756.800	1364.300	763.700	1365.200	777.100	1367.000	812.700	1365.000	823.300
GR	1367.300	847.000	1367.700	882.800	1366.800	914.300	1366.100	937.400	1367.000	964.100
GR	1367.900	1023.200	1367.900	1081.100	1367.100	1100.200	1367.700	1162.400	1367.300	1218.600
GR	1362.900	1247.300	1366.800	1261.700	1366.800	1284.100	1362.400	1304.600	1362.200	1329.700
GR	1367.200	1348.700	1368.300	1444.000	1367.500	1612.300	1367.000	1718.800	1365.400	1786.200
GR	1366.000	1816.400	1366.800	1933.000	1366.300	2051.100	1365.400	2084.200	1365.600	2100.400
GR	1364.300	2114.300	1365.700	2126.900	1366.300	2183.400	1364.200	2201.500	1364.500	2210.800
GR	1365.700	2221.500	1366.100	2268.700	1366.200	2330.700	1364.300	2340.600	1366.000	2352.100
GR	1365.500	2392.700	1367.300	2588.400	1368.100	2696.300	1366.300	2707.300	1367.800	2720.800
GR	1368.000	2724.200	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	490.000	1670.000
X1	224.000	71.000	1223.000	1531.600	440.000	440.000	440.000	.000	.000	.000
GR	1369.900	.000	1369.800	93.600	1369.000	147.700	1367.800	203.800	1367.700	256.000
GR	1368.100	308.700	1368.700	383.600	1368.700	465.400	1368.500	533.800	1366.700	547.100
GR	1366.700	561.300	1367.200	569.300	1362.900	586.700	1368.300	598.300	1368.300	606.900
GR	1364.500	622.100	1364.500	636.300	1367.400	644.300	1364.300	656.800	1366.900	668.800
GR	1365.600	675.400	1367.200	686.900	1367.600	699.600	1365.400	712.700	1367.200	730.300
[illegible]	1366.400	747.000	1367.700	757.100	1367.500	783.900	1368.800	812.500	1371.900	892.700
[illegible]	1372.200	932.000	1371.000	965.400	1369.700	993.300	1369.200	1073.700	1369.800	1128.400
[illegible]	1370.400	1223.000	1370.100	1257.900	1368.900	1284.900	1366.300	1305.800	1367.700	1319.200
GR	1365.600	1329.400	1368.100	1342.400	1368.700	1369.600	1368.900	1406.800	1365.400	1417.700
GR	1365.900	1438.100	1367.300	1454.600	1368.300	1484.500	1369.600	1531.600	1369.200	1564.600
GR	1367.600	1593.500	1368.800	1612.300	1369.600	1806.000	1369.500	1947.400	1368.800	1980.400

GR	1369.000	2076.900	1367.900	2111.300	1368.500	2131.400	1368.500	2168.700	1367.100	2182.100
GR	1368.300	2191.800	1366.900	2198.800	1368.500	2211.400	1368.800	2260.100	1369.400	2390.900
GR	1370.600	2464.600	1372.200	2517.700	1372.200	2540.600	1371.200	2566.900	1371.500	2642.600
GR	1371.500	2642.700	.000	.000	.000	.000	.000	.000	.000	.000
QT	3.000	1400.000	1400.000	1400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	500.000	1650.000
X1	225.000	65.000	1157.900	1422.700	520.000	520.000	520.000	.000	.000	.000
GR	1372.800	.000	1372.900	89.600	1372.300	156.200	1370.800	229.800	1369.900	293.500
GR	1368.700	306.600	1370.600	328.100	1371.700	367.400	1372.100	405.500	1371.700	454.300
GR	1370.700	490.900	1369.100	525.100	1367.000	552.000	1368.900	570.100	1370.200	596.400
GR	1369.200	612.800	1370.400	633.800	1368.700	646.900	1370.200	661.000	1370.000	686.500
GR	1368.500	695.400	1369.500	706.400	1368.500	717.900	1369.700	729.600	1367.200	743.900
GR	1368.900	760.400	1368.800	775.000	1369.500	797.100	1368.400	815.100	1369.400	832.600
GR	1370.200	866.900	1369.400	885.300	1369.200	916.400	1371.300	942.000	1372.600	982.100
GR	1372.500	1030.800	1373.000	1080.000	1373.900	1127.800	1374.200	1157.900	1372.800	1192.800
GR	1371.200	1219.000	1368.900	1240.200	1367.600	1253.700	1370.500	1267.400	1368.300	1277.800
GR	1368.300	1287.800	1370.100	1301.100	1370.000	1317.400	1371.300	1343.100	1370.800	1362.600
GR	1371.900	1388.400	1372.700	1422.700	1372.700	1462.300	1372.500	1514.500	1371.800	1575.700
GR	1371.300	1613.400	1370.500	1620.600	1371.600	1631.400	1369.800	1645.100	1371.900	1656.500
GR	1372.600	1699.500	1372.300	1768.400	1372.700	1863.000	1372.500	1962.400	1372.700	2054.000

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ET	.000	.000	.000	9.100	.000	.000	.000	.000	1220.000	1600.000
X1	226.000	41.000	1402.800	1572.500	500.000	500.000	500.000	.000	.000	.000
GR	1375.400	.000	1374.700	222.800	1375.600	293.000	1375.900	333.100	1375.400	403.300
GR	1374.500	445.200	1372.900	471.500	1373.800	499.800	1370.500	518.800	1370.000	530.700
GR	1372.800	556.700	1373.400	585.400	1373.100	620.200	1373.700	632.200	1370.300	650.600
GR	1370.700	661.600	1373.400	677.000	1373.400	700.700	1372.500	716.800	1370.700	728.600
GR	1373.200	741.400	1373.700	800.500	1374.000	885.200	1374.300	1040.200	1374.300	1119.700
GR	1372.700	1147.700	1373.700	1180.200	1373.700	1209.500	1371.100	1223.700	1372.500	1257.100
GR	1372.900	1308.900	1374.100	1356.100	1374.500	1402.800	1371.600	1422.100	1371.400	1444.000
GR	1374.000	1460.800	1372.700	1506.300	1373.800	1521.000	1374.900	1572.500	1374.800	1646.400
GR	1375.000	1732.600	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1280.000	1590.000
X1	227.000	25.000	1280.700	1588.500	500.000	500.000	500.000	.000	.000	.000
GR	1378.200	.000	1377.900	1189.500	1377.100	1245.900	1377.700	1280.700	1376.800	1304.000
GR	1374.700	1338.500	1375.900	1356.800	1376.000	1371.000	1374.900	1384.600	1376.600	1398.100
GR	1376.300	1427.800	1374.200	1440.300	1374.000	1467.000	1376.000	1493.200	1376.200	1534.500
GR	1377.000	1588.500	1377.000	1652.900	1376.800	1678.800	1375.200	1716.400	1376.800	1743.200
GR	1377.000	1845.000	1376.600	1856.900	1378.000	1919.000	1378.000	1968.600	1378.100	2037.200
QT	3.000	1300.000	1300.000	1300.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	870.000	1120.000
X1	228.000	32.000	969.300	1090.800	500.000	500.000	500.000	.000	.000	.000
GR	1380.900	.000	1380.900	463.300	1380.900	568.700	1380.900	702.200	1380.600	755.400
GR	1379.100	808.200	1379.000	833.100	1376.300	848.100	1376.300	858.100	1379.400	878.500
GR	1379.500	969.300	1375.400	999.900	1375.100	1028.200	1378.800	1044.200	1378.400	1079.000
GR	1380.000	1090.800	1380.000	1112.900	1376.900	1128.800	1378.600	1163.000	1379.200	1206.400
GR	1378.200	1214.100	1380.100	1225.600	1380.400	1299.000	1379.900	1339.200	1378.700	1372.700
GR	1379.900	1399.700	1380.600	1486.900	1380.900	1534.400	1378.700	1572.500	1380.300	1599.600
GR	1381.400	1639.900	1381.500	1747.800	.000	.000	.000	.000	.000	.000
QT	3.000	1200.000	1200.000	1200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1000.000	1330.000
X1	229.000	37.000	975.100	1381.300	540.000	530.000	540.000	.000	.000	.000
GR	1384.100	.000	1384.100	566.700	1384.500	657.400	1385.200	720.200	1384.800	793.000
GR	1384.600	855.800	1382.900	914.300	1382.000	943.600	1383.700	975.100	1384.600	1004.300
GR	1382.300	1021.500	1378.300	1043.600	1378.500	1058.300	1381.100	1070.400	1381.600	1107.800
GR	1378.300	1122.100	1378.300	1137.700	1381.500	1152.700	1381.900	1208.800	1381.400	1230.800
GR	1381.700	1298.800	1383.500	1381.300	1382.400	1417.400	1382.600	1565.400	1380.600	1584.700
GR	1382.600	1607.000	1383.500	1727.700	1383.300	1767.800	1381.200	1784.800	1383.000	1801.800
GR	1383.300	1882.400	1382.800	1999.600	1382.300	2139.200	1382.400	2228.500	1381.400	2245.800
GR	1383.100	2271.500	1383.700	2425.900	.000	.000	.000	.000	.000	.000
QT	3.000	1100.000	1100.000	1100.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1110.000	1470.000
X1	230.000	42.000	1069.100	1502.300	530.000	530.000	530.000	.000	.000	.000
GR	1386.300	.000	1386.000	95.500	1387.700	161.000	1387.400	261.400	1388.200	524.100
GR	1387.400	685.300	1386.000	762.200	1383.900	782.800	1385.900	810.100	1386.200	856.100
GR	1385.200	896.500	1383.800	927.700	1384.300	954.100	1381.400	973.300	1382.900	991.400
GR	1384.400	1026.600	1384.600	1069.100	1383.900	1123.000	1381.900	1148.100	1381.900	1167.600
GR	1383.700	1187.000	1382.700	1196.000	1384.800	1234.000	1381.300	1252.900	1384.400	1261.000
GR	1385.300	1292.900	1382.000	1305.800	1382.000	1319.400	1384.300	1338.600	1384.800	1412.600
GR	1383.000	1433.800	1385.600	1502.300	1386.000	1725.500	1383.500	1739.000	1386.100	1758.300

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GR	1386.100	1846.000	1384.400	1858.900	1385.500	1893.900	1386.300	1978.400	1386.300	2112.500
GR	1385.900	2138.100	1387.300	2220.800	.000	.000	.000	.000	.000	.000
	3.000	1000.000	1000.000	1000.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	9.100	.000	.000	.000	.000	1240.000	1540.000
X1	231.000	38.000	1338.900	1432.300	460.000	460.000	460.000	.000	.000	.000
GR	1391.500	.000	1389.400	716.000	1387.300	731.600	1387.100	757.900	1385.600	777.700
GR	1386.700	791.300	1385.500	801.100	1386.800	817.000	1387.400	987.400	1384.900	1015.900
GR	1384.900	1027.300	1387.200	1049.300	1386.700	1169.500	1384.300	1184.500	1387.200	1207.000
GR	1387.600	1258.100	1385.900	1283.700	1387.300	1338.900	1385.700	1367.900	1385.700	1400.900
GR	1387.800	1432.300	1385.100	1466.500	1388.500	1499.100	1388.300	1602.500	1387.800	1638.000
GR	1385.800	1651.800	1388.600	1671.200	1388.300	1713.400	1386.900	1738.700	1386.000	1753.900
GR	1388.300	1782.100	1389.300	1832.500	1390.300	1881.000	1389.600	1932.500	1389.300	1989.200
GR	1387.800	2022.000	1389.700	2073.300	1389.700	2144.900	.000	.000	.000	.000
QT	3.000	900.000	900.000	900.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	1360.000	1550.000
X1	232.000	30.000	1445.900	1505.200	600.000	590.000	590.000	.000	.000	.000
GR	1393.900	.000	1393.900	1163.900	1393.900	1193.900	1393.400	1222.000	1392.800	1245.900
GR	1391.600	1278.000	1390.500	1348.200	1389.300	1411.900	1390.700	1426.800	1390.800	1445.900
GR	1388.900	1462.800	1388.500	1489.800	1390.600	1505.200	1390.300	1556.100	1388.800	1569.100
GR	1390.100	1585.300	1390.600	1649.300	1389.200	1670.300	1390.500	1691.800	1392.300	1726.100
GR	1391.200	1745.400	1391.800	1773.600	1392.800	1821.000	1392.900	1871.100	1391.900	1924.100
GR	1391.700	1973.500	1391.900	2025.200	1392.700	2086.000	1392.900	2139.400	1392.800	2219.300
ET	.000	.000	.000	9.100	.000	.000	.000	.000	740.000	880.000
X1	233.000	28.000	741.400	797.800	460.000	450.000	460.000	.000	.000	.000
GR	1395.000	.000	1395.000	100.000	1395.500	200.000	1395.500	300.000	1395.500	491.800
GR	1394.700	610.100	1393.900	664.600	1393.000	710.000	1393.000	741.400	1390.900	758.100
GR	1390.600	779.300	1393.300	797.800	1390.500	821.100	1392.800	841.200	1392.900	877.600
GR	1391.400	893.000	1392.900	916.300	1393.200	945.500	1391.600	963.300	1393.200	981.500
GR	1391.400	994.600	1393.500	1009.400	1393.900	1026.800	1394.900	1048.600	1395.000	1085.900
GR	1394.000	1103.500	1395.500	1157.200	1395.700	1217.700	.000	.000	.000	.000
QT	3.000	800.000	800.000	800.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	860.000	1010.000
X1	234.000	35.000	924.600	978.100	490.000	500.000	490.000	.000	.000	.000
	1400.300	.000	1400.300	592.500	1399.800	631.100	1398.300	675.900	1397.300	716.400
	1396.100	752.900	1395.800	781.400	1395.600	822.300	1392.900	842.500	1395.900	864.000
	1395.800	874.900	1393.700	888.600	1396.000	910.100	1395.900	924.600	1393.300	944.300
GR	1392.900	961.500	1396.000	978.100	1395.800	1002.400	1395.200	1028.900	1395.400	1079.000
GR	1397.000	1115.400	1396.300	1142.900	1397.000	1187.600	1397.100	1230.800	1398.500	1280.900
GR	1399.200	1328.600	1398.800	1362.200	1397.900	1403.100	1398.700	1442.900	1398.800	1509.000
GR	1396.500	1522.600	1399.100	1544.300	1398.700	1564.900	1398.800	1610.900	1398.800	1639.900
QT	3.000	700.000	700.000	700.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	800.000	960.000
X1	235.000	23.000	907.400	954.400	490.000	500.000	495.000	.000	.000	.000
GR	1403.100	.000	1403.100	698.900	1400.800	759.300	1397.800	802.900	1398.900	833.100
GR	1395.600	852.600	1399.800	870.200	1399.100	907.400	1397.000	925.200	1395.600	939.400
GR	1398.200	954.400	1398.400	994.800	1399.200	1044.200	1399.400	1084.400	1397.100	1103.000
GR	1397.700	1124.200	1399.600	1161.400	1400.600	1195.600	1402.300	1233.400	1401.800	1250.500
GR	1400.600	1286.400	1401.500	1308.800	1401.500	1308.900	.000	.000	.000	.000

1

QT	3.000	600.000	600.000	600.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	530.000	700.000
X1	236.000	28.000	607.200	659.800	510.000	510.000	510.000	.000	.000	.000
GR	1405.200	.000	1404.800	327.600	1403.300	396.100	1402.200	464.300	1401.400	517.200
GR	1401.400	573.100	1401.600	607.200	1398.400	624.700	1398.400	641.300	1401.300	659.800
GR	1401.100	709.900	1401.500	742.300	1399.600	768.500	1401.500	789.900	1401.500	844.400
GR	1402.000	883.000	1402.800	918.900	1401.700	953.000	1402.200	991.300	1400.900	1009.100
GR	1403.100	1035.400	1403.300	1074.500	1404.700	1121.900	1404.800	1147.500	1403.100	1171.400
GR	1403.400	1201.300	1403.700	1234.300	1404.300	1263.900	.000	.000	.000	.000
QT	3.000	500.000	500.000	500.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	9.100	.000	.000	.000	.000	640.000	790.000
X1	237.000	16.000	660.100	755.600	520.000	500.000	510.000	.000	.000	.000
	1407.400	.000	1407.200	542.800	1406.600	571.400	1405.400	614.700	1404.700	660.100
	1402.500	700.300	1400.600	720.200	1400.900	738.200	1404.500	755.600	1403.400	784.800
	1404.900	829.800	1406.400	867.600	1408.100	909.000	1406.500	941.300	1407.700	969.200
GR	1408.600	1002.700	.000	.000	.000	.000	.000	.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

1

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 *SECNO 130.000
   130.00     4.58  1141.38      .00  1141.38  1141.45      .07      .00      .00  1142.80
    4800.       0.    1971.    2829.       0.     731.    1611.       0.       0.   1140.40
      .00      .00     2.70     1.76     .055     .045     .045     .000  1136.80  1060.91
  .001391    2150.    2150.    2150.        0        0        0      .00  1210.30  2271.22
0
 FLOW DISTRIBUTION FOR SECNO=    130.00          CWSEL=   1141.38

 STA=    1061.    1285.    1374.    1932.    2220.    2271.
   PER Q=     41.1      3.0     27.4     26.6      1.9
    AREA=    730.6    104.7    822.8    619.7     64.0
     VEL=      2.7      1.4      1.6      2.1      1.4

 *SECNO 131.000

 3265 DIVIDED FLOW

   131.00     4.61  1142.41      .00      .00  1142.77      .36     1.32      .00  1144.80
    4800.       0.    4719.      81.       0.     977.      29.      20.      10.   1144.00
      .03      .00     4.83     2.81     .055     .045     .045     .000  1137.80   876.89
  .006383     510.     510.     510.        2        0        0      .00   420.14  1343.65
0
 FLOW DISTRIBUTION FOR SECNO=    131.00          CWSEL=   1142.41

 STA=     877.    1309.    1324.    1341.    1344.
   PER Q=     98.3       .3      1.3       .0
    AREA=    976.8      6.6     21.3       .9
     VEL=      4.8      2.3      3.0      1.3

 *SECNO 132.000

 3265 DIVIDED FLOW

   132.00     4.30  1144.80      .00      .00  1144.99      .19     2.22      .00  1146.40
    4800.       0.    4428.     372.       0.    1239.     156.      33.      15.   1146.00
      .07      .00     3.57     2.39     .055     .045     .045     .000  1140.50   829.27
  .003377     490.     490.     490.        3        0        0      .00   635.67  1849.98
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    132.00          CWSEL=   1144.80

 STA=     829.    1458.    1775.    1816.
   PER Q=     92.3      3.9      3.8
    AREA=   1238.9     89.2     66.5
     VEL=      3.6      2.1      2.7

 *SECNO 133.000

 3265 DIVIDED FLOW

   133.00     4.85  1146.75      .00      .00  1146.94      .19     1.95      .00  1147.50
    4800.      78.    3794.     928.      49.    1059.     268.      49.      23.   1147.00
      .11     1.60     3.58     3.46     .055     .045     .045     .000  1141.90   491.08
  .004774     490.     490.     490.        2        0        0      .00   785.27  1881.51
0
 FLOW DISTRIBUTION FOR SECNO=    133.00          CWSEL=   1146.75

 STA=     491.     704.    1638.    1753.    1786.    1861.    1882.
   PER Q=      1.6     79.1      3.2      3.8     12.1       .3
    AREA=     48.6   1058.7     49.6     51.9    156.3     10.6
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    VEL=      1.6      3.6      3.1      3.5      3.7      1.5

 *SECNO 134.000

 3265 DIVIDED FLOW

   134.00     4.89  1148.89      .00      .00  1149.15      .26     2.21      .00  1150.80
    4800.      51.    4749.       0.      44.    1159.       0.      64.      31.   1150.00
      .14     1.15     4.10      .00     .055     .045     .045     .000  1144.00   572.66
  .004047     500.     500.     530.        1        0        0      .00   519.57  1872.72
0
 FLOW DISTRIBUTION FOR SECNO=    134.00          CWSEL=   1148.89

 STA=     573.     584.     606.     680.     690.     753.     775.    1880.
   PER Q=      .3       .5       .0       .0       .1       .2     98.9
    AREA=     8.7     16.0      4.0      1.9      4.8      8.7   1158.7
     VEL=     1.4      1.4       .6       .6       .9       .9      4.1

 *SECNO 135.000
1
  09-04-91     14:38:10                                                                                                PAGE   33


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

    135.00     5.58  1150.98      .00      .00  1151.17      .18     2.02      .00  1152.30
    4800.      27.    3410.    1363.      28.     893.     594.      79.      41.   1152.40
      .18      .98     3.82     2.30     .055     .045     .045     .000  1145.40   650.20
  .003931     500.     500.     540.        1        0        0      .00  1110.96  2443.37
0
 FLOW DISTRIBUTION FOR SECNO=    135.00          CWSEL=   1150.98

 STA=     650.     667.     692.     824.    1705.    1768.    1790.    1804.    1923.    2380.    2413.    2443.
   PER Q=      .2       .3       .0     71.0       .7      5.5      1.1       .1     15.8      3.6      1.7
    AREA=     9.2     13.9      5.0    893.4     12.6     63.0     19.4      5.7    400.1     57.3     35.6
     VEL=     1.1      1.2       .2      3.8      2.5      4.2      2.6      1.0      1.9      3.0      2.3

 *SECNO 136.000

 3265 DIVIDED FLOW

    136.00     5.85  1153.25      .00      .00  1153.72      .47     2.56      .00  1154.60
    4800.     550.    4250.       0.     258.     733.       0.      94.      51.   1154.80
      .21     2.13     5.80      .00     .055     .045     .045     .000  1147.40   420.35
  .006935     490.     500.     500.        2        0        0      .00   632.71  1578.20
0
 FLOW DISTRIBUTION FOR SECNO=    136.00          CWSEL=   1153.25

 STA=     420.     482.     531.     574.     589.     626.     639.     682.     815.    1587.
   PER Q=      .4       .9      2.9      1.2      1.5      1.3      2.8       .5     88.5
    AREA=    20.1     27.5     53.9     20.4     33.3     20.5     51.9     30.2    733.4
     VEL=     1.1      1.5      2.6      2.8      2.1      3.0      2.5       .8      5.8

 *SECNO 137.000

 3265 DIVIDED FLOW

    137.00     6.49  1155.29      .00      .00  1155.41      .12     1.69      .00  1156.40
    4800.    1538.    3262.       0.     815.    1027.       0.     107.      58.   1156.10
      .25     1.89     3.18      .00     .055     .045     .045     .000  1148.80   335.07
  .002860     390.     400.     410.        2        0        0      .00  1083.68  1836.62
0
1
  09-04-91     14:38:10                                                                                                PAGE   34


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    137.00          CWSEL=   1155.29
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STA=     335.     469.     661.     686.     703.     796.     811.     836.     909.     994.    1846.
  PER Q=      1.7     11.8      3.6      2.3      6.3      1.5      2.1      2.2       .5     68.0
   AREA=     79.5    294.8     64.2     42.3    151.7     31.4     45.9     72.0     33.5   1026.7
    VEL=      1.0      1.9      2.7      2.6      2.0      2.3      2.2      1.4       .8      3.2

*SECNO 138.000

3265 DIVIDED FLOW

   138.00     7.20  1156.50      .00      .00  1156.63      .12     1.22      .00  1158.00
    4600.    1190.    3410.       0.     632.    1099.       0.     123.      68.   1157.30
      .29     1.88     3.10      .00     .055     .045     .045     .000  1149.30   161.67
  .003388     400.     390.     380.        3        0        0      .00  1102.91  1594.70
0
 FLOW DISTRIBUTION FOR SECNO=    138.00          CWSEL=   1156.50

 STA=     162.     292.     417.     444.     547.     583.     713.     730.    1609.
   PER Q=      3.7      6.1      3.6      5.1      3.9      3.4       .0     74.1
    AREA=    107.1    151.4     60.8    125.9     72.4    111.1      3.3   1099.4
     VEL=      1.6      1.9      2.7      1.9      2.5      1.4       .5      3.1

 *SECNO 139.000

 3265 DIVIDED FLOW

   139.00     6.01  1158.41      .00      .00  1158.72      .31     2.09      .00  1159.70
    4600.     327.    4273.       0.     204.     920.       0.     139.      79.   1160.10
      .32     1.60     4.64      .00     .055     .045     .045     .000  1152.40   296.27
  .005473     510.     490.     470.        3        0        0      .00   719.90  1497.45
0
 FLOW DISTRIBUTION FOR SECNO=    139.00          CWSEL=   1158.41

 STA=     296.     540.     651.     667.    1893.
   PER Q=      3.2      3.4       .5     92.9
    AREA=    104.0     86.6     13.8    920.1
     VEL=      1.4      1.8      1.8      4.6

 *SECNO 140.000
1
  09-04-91     14:38:10                                                                          PAGE   35


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

   140.00     5.62  1161.22      .00      .00  1161.38      .16     2.65      .00  1161.90
    4600.     886.    3714.       0.     511.    1078.       0.     155.      90.   1162.40
      .36     1.74     3.45      .00     .055     .045     .045     .000  1155.60   326.04
  .005126     510.     500.     490.        1        0        0      .00  1274.11  1806.31
0
 FLOW DISTRIBUTION FOR SECNO=    140.00          CWSEL=   1161.22

 STA=     326.     400.     596.     610.     631.     988.    1893.
   PER Q=       .5      5.4      1.3      2.5      9.6     80.7
    AREA=     23.2    152.8     22.3     39.3    273.0   1077.6
     VEL=       .9      1.6      2.6      2.9      1.6      3.4

 *SECNO 141.000

 3265 DIVIDED FLOW

   141.00     5.17  1163.17      .00      .00  1163.35      .18     1.97      .00  1163.70
    4600.     233.    3793.     574.     215.    1020.     457.     174.     107.   1164.00
      .41     1.09     3.72     1.26     .055     .045     .045     .000  1158.00   267.80
  .003119     500.     500.     500.        3        0        0      .00  1664.82  3733.28
0
 FLOW DISTRIBUTION FOR SECNO=    141.00          CWSEL=   1163.17

 STA=     268.     310.     390.     785.     856.    1620.    1720.    1803.    1870.    1903.    3570.    3733.
   PER Q=       .2       .4      3.2      1.2     82.5       .0       .1       .0       .0      9.7      2.7
    AREA=     14.1     26.6    125.1     48.8   1019.7      1.4      6.9      3.5      2.8    346.8     95.2
     VEL=       .7       .7      1.2      1.2      3.7       .4       .4       .4       .4      1.3      1.3
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*SECNO 142.000

3265 DIVIDED FLOW

   142.00     5.78  1164.68      .00      .00  1165.09      .41     1.74      .00  1165.80
    4600.     430.    3972.     198.     242.     721.     163.     190.     122.   1165.60
      .43     1.78     5.51     1.21     .055     .045     .045     .000  1158.90   671.59
   .003897    500.     500.     520.        3        0        0      .00   906.53  2120.52
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=    142.00          CWSEL=   1164.68

STA=     672.     874.     904.     969.    1540.    2121.
  PER Q=     3.8      4.2      1.3     86.4      4.3
   AREA=   129.5     67.3     45.4    721.5    163.3
    VEL=     1.3      2.9      1.4      5.5      1.2

*SECNO 143.000

3265 DIVIDED FLOW

   143.00     7.02  1166.82      .00      .00  1167.21      .38     2.12      .00  1167.90
    4400.     395.    3746.     259.     191.     709.      92.     202.     131.   1168.60
      .46     2.07     5.28     2.82     .055     .045     .045     .000  1159.80   551.34
   .004620    500.     500.     510.        2        0        0      .00   597.77  1774.69
0
FLOW DISTRIBUTION FOR SECNO=    143.00          CWSEL=   1166.82

STA=     551.     716.     748.     831.    1493.    1689.    1775.
  PER Q=     3.8      4.7       .5     85.1      5.4       .5
   AREA=    96.9     68.5     25.9    709.4     76.4     15.1
    VEL=     1.7      3.0       .8      5.3      3.1      1.3

*SECNO 144.000

3265 DIVIDED FLOW

   144.00     6.89  1168.59      .00      .00  1168.84      .25     1.63      .00  1222.00
    4400.       0.       0.    4400.       0.       0.    1100.     214.     138.   1222.00
      .50      .00      .00     4.00     .055     .045     .045     .000  1161.70   340.97
   .002378    500.     500.     510.        2        0        0      .00   678.35  1998.62
0
FLOW DISTRIBUTION FOR SECNO=    144.00          CWSEL=   1168.59

STA=     341.    1461.    1497.    1516.    1535.    1609.    1653.    1693.    1708.    1999.
  PER Q=     3.1      3.3      6.1      3.6      8.6     35.2     32.6      4.3      3.1
   AREA=   123.3     61.8     70.9     51.0    119.3    280.9    256.4     53.5     83.1
    VEL=     1.1      2.3      3.8      3.1      3.2      5.5      5.6      3.5      1.7

*SECNO 145.000
1
 09-04-91     14:38:10                                                                          PAGE   37

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

3265 DIVIDED FLOW

   145.00     6.45  1169.95      .00      .00  1170.23      .28     1.40      .00  1171.20
    4400.      32.    4081.     287.      31.     933.     106.     227.     144.   1171.50
      .53     1.02     4.37     2.71     .055     .045     .045     .000  1163.50   364.37
   .003399    500.     500.     490.        3        0        0      .00   400.55  1864.41
0
FLOW DISTRIBUTION FOR SECNO=    145.00          CWSEL=   1169.95

STA=     364.     496.    1690.    1820.    1864.
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  PER Q=       .7     92.8      4.0      2.5
   AREA=     31.2    933.1     65.3     40.5
    VEL=      1.0      4.4      2.7      2.7

*SECNO 146.000

3265 DIVIDED FLOW

   146.00     7.18  1171.58      .00      .00  1171.78      .20     1.55      .00  1173.30
    4400.       0.    2705.    1695.       1.     766.     457.     240.     149.   1173.50
      .57      .38     3.53     3.71     .055     .045     .045     .000  1164.40   607.96
  .002874     510.     500.     490.        2        0        0      .00   443.22  1921.06
0
 FLOW DISTRIBUTION FOR SECNO=    146.00          CWSEL=   1171.58

 STA=     608.     613.    1678.    1766.    1795.    1811.    1873.    1890.    1906.    1916.    1921.
  PER Q=       .0     61.5     11.7     16.5      2.8       .9      3.8      1.1      1.1       .5
   AREA=       .8    766.0    158.8    141.8     39.7     18.2     47.4     22.9     17.9     10.1
    VEL=       .4      3.5      3.2      5.1      3.1      2.3      3.5      2.2      2.6      2.4

*SECNO 147.000

3265 DIVIDED FLOW

   147.00     7.20  1173.20      .00      .00  1173.53      .33     1.74      .00  1174.30
    4400.       0.    3296.    1104.       0.     705.     256.     252.     154.   1175.00
      .60      .00     4.68     4.31     .055     .045     .045     .000  1166.00  1033.80
  .004323     500.     500.     500.        2        0        0      .00   339.15  1692.44
0
1
 09-04-91     14:38:10                                                                          PAGE   38

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=    147.00          CWSEL=   1173.20

 STA=    1034.    1390.    1432.    1483.    1498.    1655.    1663.    1688.    1692.
  PER Q=     74.9      4.3     19.3       .6       .1       .1       .4       .3
   AREA=    705.0     48.2    173.2     13.7      5.0      2.7      7.4      5.7
    VEL=      4.7      3.9      4.9      2.0      1.1      1.1      2.3      2.2

*SECNO 148.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   148.00     7.47  1175.37      .00      .00  1176.27      .90     2.74      .00  1175.40
    4400.     413.    3656.     330.     119.     445.     118.     262.     157.   1175.80
      .62     3.47     8.22     2.81     .055     .045     .045     .000  1167.90   835.98
  .007152     500.     500.     500.        3        0        0      .00   302.95  1531.86
0
 FLOW DISTRIBUTION FOR SECNO=    148.00          CWSEL=   1175.37

 STA=     836.     911.    1002.    1050.    1210.    1495.    1532.
  PER Q=      4.0      5.0       .4     83.1      5.7      1.8
   AREA=     54.1     56.1      8.8    444.9     88.7     29.1
    VEL=      3.3      3.9      1.9      8.2      2.8      2.8

*SECNO 149.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   149.00     6.82  1178.12      .00      .00  1178.42      .30     2.15      .00  1178.20
    4400.     202.    3980.     218.     169.     859.     141.     272.     163.   1178.30
      .65     1.20     4.63     1.55     .055     .045     .045     .000  1171.30   348.62
  .002878     500.     500.     500.        1        0        0      .00   686.58  1375.49
0
 FLOW DISTRIBUTION FOR SECNO=    149.00          CWSEL=   1178.12

 STA=     349.     815.     838.    1112.    1369.    1375.
```

```
  PER Q=      3.8       .8     90.5      4.3       .7
   AREA=    145.2     23.4    859.2    128.6     12.4
    VEL=      1.2      1.4      4.6      1.5      2.5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 150.000

 3265 DIVIDED FLOW

   150.00     6.23  1179.53      .00      .00  1179.85      .32     1.43      .00  1180.10
    4200.     530.    3651.      19.     204.     765.      11.     285.     169.   1181.50
      .68     2.60     4.77     1.74     .055     .045     .045     .000  1173.30   978.06
  .002859     500.     500.     500.        2        0        0      .00   282.59  1675.81
0
 FLOW DISTRIBUTION FOR SECNO=    150.00          CWSEL=   1179.53

 STA=     978.     993.    1004.    1190.    1209.    1217.    1253.    1266.    1272.    1468.    1670.    1676.
   PER Q=      .9       .6       .3      2.6       .7      1.7      5.2       .7     86.9       .2       .3
    AREA=    21.7     14.8     10.6     42.5     14.7     30.1     55.7     13.7    764.8      4.4      6.4
     VEL=     1.8      1.8      1.0      2.5      2.0      2.4      3.9      2.1      4.8      1.7      1.8

 *SECNO 151.000

 3265 DIVIDED FLOW

   151.00     6.12  1181.22      .00      .00  1182.00      .78     2.14      .00  1181.20
    4200.     144.    4056.       0.      75.     564.       0.     294.     172.   1184.00
      .70     1.92     7.20      .00     .055     .045     .045     .000  1175.10   769.38
  .007117     500.     500.     490.        2        0        0      .00   259.78  1130.41
0
 FLOW DISTRIBUTION FOR SECNO=    151.00          CWSEL=   1181.22

      769.     812.     823.     919.     925.     944.     954.    1154.
   R Q=      .3       .1      1.0       .2      1.1       .8     96.6
   AREA=    13.3      3.3     25.0      4.0     16.4     13.0    563.5
    VEL=     1.0      1.0      1.6      1.6      2.7      2.7      7.2

 *SECNO 152.000

 3265 DIVIDED FLOW

   152.00     7.07  1184.17      .00      .00  1184.99      .82     2.99      .00  1183.80
    4200.     457.    3719.      24.     186.     484.      17.     301.     175.   1183.30
      .72     2.45     7.68     1.42     .055     .045     .045     .000  1177.10   375.43
  .005094     510.     500.     500.        2        0        0      .00   280.13  1168.83
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    152.00          CWSEL=   1184.17

 STA=     375.     933.     989.    1053.    1132.    1169.
   PER Q=      3.7      5.4      1.8     88.5       .6
    AREA=    66.6     87.8     32.0    484.2     17.0
     VEL=     2.3      2.6      2.3      7.7      1.4

 *SECNO 153.000

 3265 DIVIDED FLOW

 3301 HV CHANGED MORE THAN HVINS

   153.00     6.86  1186.56      .00      .00  1186.81      .25     1.82      .00  1187.40
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    4200.     645.    3274.     281.     275.     755.      98.     312.     179.   1188.00
      .76     2.35     4.34     2.87     .055     .045     .045     .000  1179.70   581.25
  .002815     500.     490.     480.        3        0        0      .00   472.03  2865.51
0
 FLOW DISTRIBUTION FOR SECNO=    153.00          CWSEL=   1186.56

 STA=     581.     611.     711.     835.     847.     857.    1122.    1177.    2866.
   PER Q=      3.6      3.3      3.3      4.2      1.0     78.0      6.7       .0
    AREA=     62.3     62.9     80.4     49.8     19.2    755.1     96.1      1.6
     VEL=      2.4      2.2      1.7      3.5      2.1      4.3      2.9       .2

 *SECNO 154.000

 3265 DIVIDED FLOW

   154.00     5.27  1188.07      .00      .00  1188.36      .29     1.55      .00  1189.60
    4200.     672.    3528.       0.     230.     781.       0.     324.     184.   1189.10
      .79     2.92     4.52      .00     .055     .045     .045     .000  1182.80   517.31
  .003411     500.     500.     520.        2        0        0      .00   356.03  1021.54
0
 FLOW DISTRIBUTION FOR SECNO=    154.00          CWSEL=   1188.07

 STA=     517.     538.     555.     604.     619.     628.     629.     653.     672.     682.    1026.
   PER Q=      1.7      1.4       .0      2.3      4.5       .0       .0      4.4      1.6     84.0
    AREA=     32.7     27.4      3.3     35.7     43.4      2.1      2.3     57.5     25.1    781.1
     VEL=      2.1      2.1       .3      2.7      4.3       .9       .8      3.2      2.8      4.5

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 155.000

 3265 DIVIDED FLOW

   155.00     5.87  1190.27      .00      .00  1190.97      .71     2.62      .00  1191.80
    4200.     561.    3635.       4.     142.     513.       3.     334.     188.   1190.40
      .81     3.96     7.08     1.19     .055     .045     .045     .000  1184.40   427.52
  .009029     500.     500.     500.        3        0        0      .00   274.15  1025.81
0
 FLOW DISTRIBUTION FOR SECNO=    155.00          CWSEL=   1190.27

 STA=     428.     435.     446.     550.     561.     622.     636.     656.     667.     979.    1021.    1026.
   PER Q=       .5       .9       .0       .0      1.3       .9      5.7      4.0     86.6       .1       .0
    AREA=      8.2     12.9      1.5       .9     21.4     15.1     47.5     34.2    513.1      2.0      1.1
     VEL=      2.6      2.8       .5       .5      2.6      2.6      5.0      4.9      7.1      1.2      1.2

 *SECNO 156.000

 3265 DIVIDED FLOW

   156.00     6.73  1193.63      .00      .00  1193.95      .32     2.98      .00  1193.80
    4200.     728.    3159.     313.     268.     623.     149.     343.     193.   1192.10
      .84     2.71     5.07     2.10     .055     .045     .045     .000  1186.90   167.34
  .004201     510.     500.     500.        2        0        0      .00   656.38  1309.25
0
 FLOW DISTRIBUTION FOR SECNO=    156.00          CWSEL=   1193.63

 STA=     167.     744.     756.     777.     793.     847.    1032.    1132.    1309.
   PER Q=      3.2      3.9      6.0      3.7       .5     75.2      4.9      2.6
    AREA=     91.0     41.9     68.5     44.5     22.4    623.3     97.7     51.1
     VEL=      1.5      3.9      3.7      3.5      1.0      5.1      2.1      2.1

 *SECNO 157.000

 3265 DIVIDED FLOW

   157.00     6.72  1195.52      .00      .00  1195.83      .31     1.88      .00  1195.60
    4200.     482.    3529.     189.     210.     737.     216.     356.     204.   1195.30
      .87     2.29     4.79      .87     .055     .045     .045     .000  1188.80   632.70
  .003383     500.     500.     500.        2        0        0      .00  1179.06  2613.40
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=    157.00          CWSEL=   1195.52

STA=     633.     757.     773.     901.    1128.    2609.    2613.
  PER Q=     5.0      5.0      1.5     84.0      4.5       .0
   AREA=   109.8     56.9     43.7    737.1    215.7       .8
    VEL=     1.9      3.7      1.5      4.8       .9       .6

*SECNO 158.000

3265 DIVIDED FLOW

   158.00     8.02  1197.42      .00      .00  1197.89      .46     2.06      .00  1198.10
    4000.     941.    3059.       0.     348.     505.       0.     368.     214.   1199.00
      .90     2.71     6.06      .00     .055     .045     .045     .000  1189.40   391.37
  .005162     500.     500.     500.        0        0        0      .00   609.69  1191.67
0
FLOW DISTRIBUTION FOR SECNO=    158.00          CWSEL=   1197.42

STA=     391.     648.     693.     882.     899.     976.    1233.
  PER Q=     3.5      4.2      6.1      5.2      4.6     76.5
   AREA=    78.0     65.2     80.2     52.8     71.4    504.8
    VEL=     1.8      2.6      3.0      4.0      2.6      6.1

*SECNO 159.000

3265 DIVIDED FLOW

   159.00     7.11  1199.61      .00      .00  1200.09      .48     2.20      .00  1197.90
    4000.     798.    2980.     222.     397.     469.     133.     378.     221.   1197.30
      .93     2.01     6.36     1.67     .060     .045     .060     .000  1192.50   476.50
  .003805     500.     500.     500.        2        0        0      .00   649.73  1515.29
0
FLOW DISTRIBUTION FOR SECNO=    159.00          CWSEL=   1199.61

STA=     476.     725.     897.     998.    1013.    1060.    1144.    1500.    1515.
  PER Q=     3.1      4.5      7.2      4.5       .6     74.5      4.8       .7
   AREA=   100.7    136.7     86.9     54.3     18.4    468.5    115.3     17.6
    VEL=     1.2      1.3      3.3      3.3      1.4      6.4      1.7      1.7

*SECNO 160.000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

3265 DIVIDED FLOW

   160.00     7.52  1201.42      .00      .00  1201.64      .22     1.55      .00  1202.50
    4000.    1557.    2201.     243.     603.     482.     161.     391.     229.   1200.30
      .96     2.58     4.56     1.51     .060     .045     .060     .000  1193.90    63.47
  .002627     500.     490.     500.        2        0        0      .00   712.89  1669.04
0
FLOW DISTRIBUTION FOR SECNO=    160.00          CWSEL=   1201.42

STA=      63.     252.     696.     800.     875.     908.     920.    1042.    1108.    1669.
  PER Q=     3.7      3.2      3.1      4.7     22.3      1.8     55.0      4.7      1.4
   AREA=   117.4    105.9     69.7     72.5    205.0     32.2    482.3    102.8     57.7
    VEL=     1.3      1.2      1.8      2.6      4.4      2.3      4.6      1.8       .9

*SECNO 161.000

3265 DIVIDED FLOW

   161.00     6.03  1203.23      .00      .00  1203.49      .26     1.85      .00  1203.40
    4000.     877.    2979.     144.     246.     691.      71.     404.     236.   1207.80
     1.00     3.56     4.31     2.02     .060     .045     .060     .000  1197.20   487.46
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  .005741     480.     500.     540.        2        0        0      .00   460.24  1331.03
0
 FLOW DISTRIBUTION FOR SECNO=    161.00          CWSEL=   1203.23

 STA=     487.     508.     731.     750.     791.     800.     812.    1240.    1319.    1331.
   PER Q=      4.6      3.4      3.4      3.6      5.2      1.8     74.5      3.3       .3
    AREA=     55.2     44.3     36.8     44.4     41.6     24.0    690.7     63.7      7.5
     VEL=      3.3      3.1      3.6      3.2      5.0      3.0      4.3      2.1      1.4

 *SECNO 162.000

 3265 DIVIDED FLOW

    162.00     5.24  1205.84      .00      .00  1205.99      .15     2.50      .00  1207.40
     4000.    1231.    2687.      82.     566.     782.      49.     418.     244.   1206.90
      1.04     2.17     3.44     1.67     .060     .045     .060     .000  1200.60   556.51
  .004448     480.     500.     540.        4        0        0      .00   944.29  1718.82
0
1
  09-04-91     14:38:10                                                                          PAGE   44


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    162.00          CWSEL=   1205.84

 STA=     557.     585.     670.     722.     874.     930.     944.    1065.    1109.    1604.    1719.
   PER Q=      4.0      5.1      3.4      4.7      6.7      3.1      3.1       .6     67.2      2.1
    AREA=     59.6     98.2     66.5    128.1     93.2     39.9     58.9     21.8    781.5     49.1
     VEL=      2.7      2.1      2.0      1.5      2.9      3.2      2.1      1.1      3.4      1.7

 *SECNO 163.000

 3265 DIVIDED FLOW

    163.00     4.13  1208.43      .00      .00  1208.74      .31     2.75      .00  1210.10
     4000.     835.    3165.       0.     262.     667.       0.     431.     252.   1209.30
      1.07     3.19     4.75      .00     .060     .045     .060     .000  1204.30   867.60
  .007077     490.     500.     520.        1        0        0      .00   481.55  1799.11
0
 FLOW DISTRIBUTION FOR SECNO=    163.00          CWSEL=   1208.43

 STA=     868.     903.    1125.    1192.    1205.    1299.    1802.
   PER Q=      3.7      3.7      4.0      6.4      3.1     79.1
    AREA=     52.2     62.8     49.4     50.9     46.2    666.9
     VEL=      2.9      2.3      3.3      5.0      2.7      4.7

 *SECNO 164.000

 3265 DIVIDED FLOW

    164.00     4.23  1210.93      .00      .00  1211.15      .23     2.41      .00  1211.80
     4000.     224.    3773.       3.      94.     972.       8.     442.     257.   1210.70
      1.11     2.38     3.88      .38     .060     .045     .060     .000  1206.70   962.46
  .003493     500.     500.     520.        2        0        0      .00   517.28  1689.85
0
 FLOW DISTRIBUTION FOR SECNO=    164.00          CWSEL=   1210.93

 STA=     962.    1005.    1027.    1069.    1078.    1085.    1208.    1625.    1681.    1690.
   PER Q=       .1       .1      1.7      2.9       .8       .0     94.3       .1       .0
    AREA=      9.2      4.7     31.5     33.2     14.7      1.1    971.9      7.6       .1
     VEL=       .6       .5      2.2      3.5      2.1       .3      3.9       .4       .1

 *SECNO 165.000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW
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   165.00     3.93  1213.03      .00      .00  1213.30      .27     2.15      .00  1213.80
    4000.     225.    3444.     331.     100.     787.     144.     454.     263.   1213.60
     1.14     2.25     4.37     2.29     .060     .045     .060     .000  1209.10   831.34
  .005421     500.     500.     500.        2        0        0      .00   544.37  1977.82
0
 FLOW DISTRIBUTION FOR SECNO=    165.00          CWSEL=   1213.03

 STA=     831.    1228.    1293.    1639.    1948.    1967.    1978.
   PER Q=      4.7       .9     86.1      3.7      3.7       .9
    AREA=     80.8     19.0    787.3     82.9     45.5     16.0
     VEL=      2.3      1.9      4.4      1.8      3.2      2.3

 *SECNO 166.000

 3265 DIVIDED FLOW

   166.00     4.31  1215.21      .00      .00  1215.42      .21     2.12      .00  1216.20
    4000.     175.    3778.      46.     111.    1011.      35.     467.     270.   1216.60
     1.18     1.58     3.74     1.31     .060     .045     .060     .000  1210.90   576.90
  .003375     530.     500.     500.        2        0        0      .00   516.76  2019.87
0
 FLOW DISTRIBUTION FOR SECNO=    166.00          CWSEL=   1215.21

 STA=     577.     760.     883.    1387.    2020.
   PER Q=      3.3      1.1     94.5      1.2
    AREA=     79.0     32.0   1011.5     35.1
     VEL=      1.7      1.4      3.7      1.3

 *SECNO 167.000

 3265 DIVIDED FLOW

   167.00     4.66  1217.36      .00      .00  1217.67      .32     2.26      .00  1218.20
    4000.     148.    3852.       0.      56.     841.       0.     479.     275.   1219.80
     1.21     2.64     4.58      .00     .060     .045     .060     .000  1212.70   933.99
  .006054     510.     510.     510.        1        0        0      .00   385.55  1736.44
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=    167.00          CWSEL=   1217.36

 STA=     934.     951.     968.    1781.
   PER Q=      1.8      1.9     96.3
    AREA=     27.3     28.9    840.6
     VEL=      2.6      2.6      4.6

 *SECNO 168.000

 3265 DIVIDED FLOW

   168.00     5.90  1220.10      .00      .00  1220.32      .21     2.64      .00  1219.80
    4000.     403.    3483.     113.     235.     890.      76.     490.     282.   1220.90
     1.25     1.72     3.91     1.49     .060     .045     .060     .000  1214.20   381.19
  .005626     500.     450.     420.        3        0        0      .00   901.38  2155.66
0
 FLOW DISTRIBUTION FOR SECNO=    168.00          CWSEL=   1220.10

 STA=     381.     673.     858.     922.    1744.    2156.
   PER Q=      5.2      4.2       .7     87.1      2.8
    AREA=     88.5    120.6     26.0    890.1     75.9
     VEL=      2.4      1.4      1.0      3.9      1.5

 *SECNO 169.000

 3265 DIVIDED FLOW

   169.00     6.09  1221.69      .00      .00  1221.78      .08     1.46      .00  1222.10
    4000.     950.    2976.      74.     416.    1272.      44.     505.     292.   1222.90
     1.30     2.28     2.34     1.67     .060     .045     .060     .000  1215.60   381.88
  .002237     500.     420.     420.        2        0        0      .00  1059.04  2237.46
0
```

```
 FLOW DISTRIBUTION FOR SECNO=    169.00          CWSEL=   1221.69

 STA=     382.     792.     897.     917.     939.    1002.    1970.    2237.
   PER Q=      3.3      3.5     11.8      4.1      1.2     74.4      1.9
    AREA=    114.0     76.9    121.6     67.5     35.7   1271.6     44.3
     VEL=      1.2      1.8      3.9      2.4      1.3      2.3      1.7

 *SECNO 170.000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST



 3265 DIVIDED FLOW

    170.00     5.43  1223.33      .00      .00  1223.58      .24     1.80      .00  1224.70
     4000.    1363.    2457.     180.     296.     678.      61.     519.     302.   1225.30
      1.33     4.60     3.63     2.93     .060     .045     .060     .000  1217.90   177.18
   .008611     510.     440.     380.        2        0        0      .00   793.22  2357.93
0
 FLOW DISTRIBUTION FOR SECNO=    170.00          CWSEL=   1223.33

 STA=     177.     472.     495.     512.     679.    1993.    2358.
   PER Q=      4.7     20.9      4.5      4.0     61.4      4.5
    AREA=     47.2    119.9     43.0     86.1    677.7     61.5
     VEL=      4.0      7.0      4.2      1.9      3.6      2.9

 *SECNO 171.000

 3265 DIVIDED FLOW

    171.00     5.08  1226.88      .00      .00  1227.00      .12     3.42      .00  1227.30
     4000.    1493.    2507.       0.     660.     814.       0.     534.     314.   1228.20
      1.38     2.26     3.08      .00     .060     .045     .060     .000  1221.80   236.38
   .005565     500.     500.     520.        4        0        0      .00  1344.15  2415.38
0
 FLOW DISTRIBUTION FOR SECNO=    171.00          CWSEL=   1226.88

 STA=     236.     530.     545.     600.     721.     955.     992.    1403.    1432.    2433.
   PER Q=      3.3      3.5      4.4      5.5      8.6      6.3      4.6      1.2     62.7
    AREA=    124.6     40.2     58.0    107.5    142.5     81.4     77.5     27.9    814.0
     VEL=      1.1      3.4      3.0      2.0      2.4      3.1      2.4      1.8      3.1

 *SECNO 172.000

 3265 DIVIDED FLOW

    172.00     4.67  1229.57      .00      .00  1229.72      .15     2.72      .00  1230.00
     4000.    1344.    2599.      57.     616.     737.      37.     550.     329.   1230.30
      1.43     2.18     3.53     1.54     .060     .045     .060     .000  1224.90    31.70
   .005315     500.     500.     500.        3        0        0      .00  1365.53  3392.32
0
1
  09-04-91     14:38:10                                                                                    PAGE   48


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    172.00          CWSEL=   1229.57

 STA=      32.      243.     269.     608.     676.     718.    1065.    1193.    1250.    2675.    3392.
   PER Q=      5.3      5.0      3.5      3.1      8.4      4.0      3.7       .5     65.0      1.4
    AREA=     86.4     63.0     93.5     65.1    100.1     93.0     93.2     21.7    736.6     37.0
     VEL=      2.5      3.2      1.5      1.9      3.4      1.7      1.6      1.0      3.5      1.5

 *SECNO 173.000

 3265 DIVIDED FLOW

    173.00     4.18  1232.48      .00      .00  1232.61      .13     2.89      .00  1232.70
```

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    4000.    1634.    2332.      34.     690.     721.      26.     566.     345.   1233.90
     1.48     2.37     3.24     1.32     .060     .045     .060     .000  1228.30    329.99
  .006491     480.     500.     540.        3        0        0      .00  1441.60   3509.19
0
 FLOW DISTRIBUTION FOR SECNO=    173.00          CWSEL=   1232.48

 STA=     330.     358.     377.     468.     486.     605.     809.    1011.    1116.    1141.    1726.    1819.    2958.
  PER Q=     4.8      3.3      3.6      3.8      3.5      3.6      3.5      4.3      3.6      3.8      3.2     58.3
   AREA=    59.1     40.2     51.1     43.7     85.8     68.9     82.8     74.9     47.6     73.3     62.8    720.5
    VEL=     3.2      3.2      2.8      3.5      1.6      2.1      1.7      2.3      3.0      2.1      2.0      3.2
 STA=    2958.    3509.
  PER Q=      .8
   AREA=    25.5
    VEL=     1.3

 *SECNO 174.000

 3265 DIVIDED FLOW

   174.00     4.78  1235.38      .00      .00  1235.46      .08     2.86      .00  1235.50
    4000.    1649.    2257.      94.     763.     914.      75.     584.     365.   1235.70
     1.54     2.16     2.47     1.24     .060     .045     .060     .000  1230.60    126.85
  .005139     490.     500.     540.        2        0        0      .00  2040.13   3605.29
0
 FLOW DISTRIBUTION FOR SECNO=    174.00          CWSEL=   1235.38

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 STA=     127.     201.     293.     316.     373.     790.     921.    1152.    1196.    1261.    1712.    1741.    2883.
  PER Q=     6.5      3.4      4.3      6.0      3.4      3.0      3.1      3.4      4.7      3.4       .0     56.4
   AREA=    95.5     60.2     55.9     83.0    102.2     63.8     90.2     57.7     79.5     73.6     1.2    913.6
    VEL=     2.7      2.3      3.1      2.9      1.3      1.9      1.4      2.4      2.3      1.9       .2      2.5
 STA=    2883.    3605.
  PER Q=     2.3
   AREA=    75.3
    VEL=     1.2

 *SECNO 175.000

 3265 DIVIDED FLOW

   175.00     4.18  1238.48      .00      .00  1238.59      .12     3.13      .00  1239.40
    4000.    1442.    2261.     297.     622.     739.     134.     604.     388.   1239.00
     1.59     2.32     3.06     2.21     .060     .045     .060     .000  1234.30    412.53
  .006793     530.     530.     580.        3        0        0      .00  1776.64   3354.52
0
 FLOW DISTRIBUTION FOR SECNO=    175.00          CWSEL=   1238.48

 STA=     413.     479.     497.     542.     691.     752.    1229.    1591.    1768.    1905.    3035.    3345.    3355.
  PER Q=     4.4      3.9      4.4      3.1      6.2      3.4      3.9      3.6      3.0     56.5      7.1       .3
   AREA=    69.0     42.2     66.6     74.3     66.6     99.2     86.8     66.7     50.5    738.9    126.9      7.5
    VEL=     2.6      3.7      2.6      1.7      3.7      1.4      1.8      2.2      2.4      3.1      2.2      1.7

 *SECNO 176.000

 3265 DIVIDED FLOW

   176.00     3.48  1240.98      .00      .00  1241.08      .10     2.48      .00  1240.50
    3800.    1440.    1952.     408.     794.     629.     255.     621.     408.   1241.90
     1.64     1.81     3.10     1.60     .060     .045     .060     .000  1237.50    339.75
  .004560     480.     430.     430.        3        0        0      .00  1847.57   3622.34
0
 FLOW DISTRIBUTION FOR SECNO=    176.00          CWSEL=   1240.98

 STA=     340.     449.     616.     797.     958.    1656.    1723.    1810.    2059.    2247.    2460.    3145.    3493.
  PER Q=     3.4      6.1      3.7      6.3      3.4      3.5      3.4      5.0      3.0       .0     51.4      3.1
   AREA=    76.3    146.1    102.5     81.2     72.0     69.4     70.0     94.5     79.2      2.4    629.0    104.6
    VEL=     1.7      1.6      1.4      2.9      1.8      1.9      1.8      2.0      1.4       .6      3.1      1.1
 STA=    3493.    3563.    3622.
  PER Q=     5.4      2.2
   AREA=    98.5     52.0
    VEL=     2.1      1.6
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 177.000

3265 DIVIDED FLOW

   177.00     3.90  1243.50      .00      .00  1243.63      .13     2.55      .00  1245.40
    3800.    1449.     1736.     616.     599.     505.     295.     638.     426.   1244.50
     1.69     2.42     3.44     2.09     .060     .045     .060     .000  1239.60   192.03
  .005917     500.     490.     480.        2        0        0      .00  1339.74  4248.75
0
FLOW DISTRIBUTION FOR SECNO=    177.00          CWSEL=   1243.50

STA=     192.     614.     693.    1128.    1149.    1966.    2277.    2362.    2517.    3343.    3832.    3901.    4249.
  PER Q=     4.0      5.5      3.6      3.7      3.2      3.1     12.5      2.5     45.7      5.8      8.9      1.5
   AREA=   105.6     82.5     60.8     45.5     72.9     61.8    116.5     53.1    505.1    136.5    121.4     37.0
    VEL=     1.4      2.5      2.3      3.1      1.7      1.9      4.1      1.8      3.4      1.6      2.8      1.5

*SECNO 178.000

3265 DIVIDED FLOW

   178.00     3.54  1246.24      .00      .00  1246.35      .11     2.73      .00  1248.10
    3800.    1904.     868.    1028.     656.     340.     417.     652.     439.   1248.30
     1.74     2.90     2.56     2.46     .060     .045     .060     .000  1242.70   402.61
  .006199     450.     450.     450.        4        0        0      .00  1347.07  4293.79
0
FLOW DISTRIBUTION FOR SECNO=    178.00          CWSEL=   1246.24

STA=     403.     488.     810.     955.    1897.    2320.    2368.    2407.    2462.    3227.    3626.    3705.    4154.
  PER Q=     5.3      3.8      6.9      3.3      5.6     19.2      5.8       .3     22.8      3.7     14.1      3.2
   AREA=    78.2     91.5     80.4     73.2     81.1    164.3     74.5     12.4    339.5     74.3    166.5     63.1
    VEL=     2.6      1.6      3.2      1.7      2.6      4.4      3.0       .8      2.6      1.9      3.2      1.9
STA=    4154.    4260.    4294.
  PER Q=     4.9      1.1
   AREA=    87.4     25.8
    VEL=     2.1      1.6

*SECNO 179.000

3265 DIVIDED FLOW

   179.00     4.96  1249.16      .00      .00  1249.25      .09     2.90      .00  1251.10
    3800.    2073.     773.     954.     889.     284.     391.     670.     455.   1250.10
     1.79     2.33     2.72     2.44     .060     .045     .060     .000  1244.20   649.56
  .005431     500.     500.     500.        2        0        0      .00  1424.77  4859.85
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=    179.00          CWSEL=   1249.16

STA=     650.     827.    1398.    1418.    1469.    2609.    2628.    2650.    2661.    2681.    2814.    2848.    3102.
  PER Q=     3.2      6.2      3.3      5.6      3.3      3.5      4.0      5.3      3.8      6.9      4.2      4.9
   AREA=    74.0    158.1     43.3     66.3     81.7     43.2     49.1     44.4     45.3    126.7     59.8     87.0
    VEL=     1.7      1.5      2.9      3.2      1.5      3.1      3.1      4.6      3.2      2.1      2.7      2.2
STA=    3102.    3128.    3657.    3903.    3940.    4666.    4822.    4860.
  PER Q=      .3     20.3      6.2      8.5      3.6      6.4       .4
   AREA=    10.1    283.8     94.1     94.3     68.4    117.8     16.3
    VEL=     1.0      2.7      2.5      3.4      2.0      2.1      1.0

*SECNO 180.000

3265 DIVIDED FLOW
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   180.00     3.54  1251.84      .00      .00  1251.98      .15     2.73      .00  1253.40
    3800.    1360.    1461.     979.     599.     375.     373.     686.     469.   1252.10
     1.84     2.27     3.89     2.62     .060     .045     .060     .000  1248.30   587.38
  .005505     500.     500.     500.        3        0        0      .00  1037.59  3840.95
0
 FLOW DISTRIBUTION FOR SECNO=    180.00          CWSEL=   1251.84

STA=     587.    1179.    1206.    1380.    1460.    1577.    2539.    2650.    2839.    3144.    3376.    3665.    3696.
  PER Q=      5.0      4.1      4.0      3.5      3.6      5.7      3.5      3.4      3.0     38.5      3.3      4.9
   AREA=     75.4     54.3     70.4     64.1     52.5    104.5     64.9     45.4     67.4    375.3     66.0     63.2
    VEL=      2.5      2.8      2.2      2.0      2.6      2.1      2.0      2.8      1.7      3.9      1.9      2.9
STA=    3696.    3717.    3763.    3800.    3832.    3841.
  PER Q=      3.3      4.9      5.6      3.6       .0
   AREA=     43.2     71.9     73.5     53.5      1.9
    VEL=      2.9      2.6      2.9      2.6       .7

 *SECNO 181.000

 3265 DIVIDED FLOW

   181.00     4.11  1254.91      .00      .00  1255.09      .18     3.11      .00  1255.90
    3800.    1229.    1843.     729.     489.     446.     286.     701.     482.   1255.30
     1.88     2.51     4.13     2.54     .060     .045     .060     .000  1250.80   892.87
  .007264     500.     490.     490.        4        0        0      .00  1113.00  3828.47
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=    181.00          CWSEL=   1254.91

STA=     893.    1165.    1278.    1293.    1332.    1432.    1783.    2681.    2749.    3490.    3753.    3786.    3828.
  PER Q=      5.2      4.8      3.6      3.4      3.4      3.6      5.1      3.3     48.5      8.7      9.4      1.0
   AREA=     84.9     80.7     36.1     49.7     59.1     40.4     81.2     57.2    446.1    171.8     88.7     25.9
    VEL=      2.3      2.3      3.8      2.6      2.2      3.4      2.4      2.2      4.1      1.9      4.0      1.5

 *SECNO 182.000

 3265 DIVIDED FLOW

   182.00     4.35  1257.65      .00      .00  1257.88      .23     2.80      .00  1257.70
    3800.    1552.    2248.       0.     830.     467.       1.     715.     495.   1257.60
     1.92     1.87     4.81      .14     .060     .045     .060     .000  1253.30   664.66
  .004585     490.     490.     500.        3        0        0      .00  1198.36  3243.74
0
 FLOW DISTRIBUTION FOR SECNO=    182.00          CWSEL=   1257.65

STA=     665.     788.     863.    1137.    1237.    1563.    2348.    2553.    2957.    2996.    3056.    3207.    3244.
  PER Q=      3.2      5.7      3.4      3.1      7.7      3.9      3.1      5.7      4.4       .5     59.2       .0
   AREA=     81.2    100.3     90.9     75.9    108.9     84.6     50.7    147.0     69.2     21.6    467.3       .9
    VEL=      1.5      2.2      1.4      1.5      2.7      1.7      2.3      1.5      2.4       .9      4.8       .1

 *SECNO 183.000

 3265 DIVIDED FLOW

   183.00     4.45  1260.75      .00      .00  1260.98      .22     3.09      .00  1262.00
    3800.     924.    2876.       0.     443.     688.       0.     731.     508.   1262.60
     1.96     2.09     4.18      .00     .060     .045     .060     .000  1256.30   619.30
  .006515     570.     570.     580.        4        0        0      .00   855.68  3290.81
0
 FLOW DISTRIBUTION FOR SECNO=    183.00          CWSEL=   1260.75

STA=     619.     681.     745.     814.     873.    1642.    2741.    2763.    3325.
  PER Q=      3.7      4.3      5.6      3.5      4.1      3.1       .0     75.7
   AREA=     59.9     72.6     88.3     56.8     88.7     73.6      2.7    688.0
    VEL=      2.3      2.3      2.4      2.3      1.7      1.6       .5      4.2

 *SECNO 184.000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

   184.00     5.31  1264.01      .00      .00  1264.29      .28     3.31      .00  1265.40
    3800.     496.    3304.       0.     239.     739.       0.     743.     517.   1265.00
     2.00     2.08     4.47      .00     .060     .045     .060     .000  1258.70   401.40
  .006417     520.     510.     500.        3        0        0      .00   633.47  3167.45
0
 FLOW DISTRIBUTION FOR SECNO=    184.00          CWSEL=   1264.01

 STA=     401.     459.     498.    1577.    2681.    3178.
   PER Q=      3.1      3.3      5.1      1.6     86.9
    AREA=     52.5     50.3     91.6     44.4    739.0
     VEL=      2.3      2.5      2.1      1.4      4.5

 *SECNO 185.000

 3265 DIVIDED FLOW

   185.00     5.30  1266.70      .00      .00  1266.97      .27     2.68      .00  1268.60
    3800.     114.    3686.       0.      74.     871.       0.     754.     523.   1267.20
     2.03     1.55     4.23      .00     .060     .045     .060     .000  1261.40  1202.42
  .004821     480.     485.     490.        2        0        0      .00   445.51  2890.35
0
 FLOW DISTRIBUTION FOR SECNO=    185.00          CWSEL=   1266.70

 STA=    1202.    1259.    1280.    1391.    1408.    1417.    1535.    1545.    2916.
   PER Q=       .4       .7       .1       .8       .1       .4       .4     97.0
    AREA=     11.5     18.0      3.7     17.8      4.2      8.8      9.7    871.5
     VEL=      1.5      1.5      1.1      1.7      1.1      1.6      1.6      4.2

 *SECNO 186.000

 3265 DIVIDED FLOW

   186.00     3.91  1269.81      .00      .00  1269.95      .14     2.98      .00  1269.90
    3800.     471.    1371.    1959.     241.     382.     719.     767.     533.   1269.40
     2.08     1.95     3.59     2.72     .060     .045     .060     .000  1265.90   717.05
  .007198     520.     510.     510.        3        0        0      .00  1186.18  3075.90
0
1
  09-04-91     14:38:10                                                                          PAGE   54

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    186.00          CWSEL=   1269.81

 STA=     717.     1261.    2124.    2190.    2217.    2517.    2654.    2711.    2764.    2822.    2851.    2968.    2998.
   PER Q=      4.2      4.0      3.8       .3     36.1      6.8      9.5      9.3      8.2      3.2      8.8      4.1
    AREA=    110.1     65.3     54.5     11.1    381.6    128.2    111.6    106.1    102.0     43.5    141.1     51.8
     VEL=      1.5      2.3      2.7      1.1      3.6      2.0      3.2      3.3      3.1      2.8      2.4      3.0
 STA=    2998.    3076.
   PER Q=      1.6
    AREA=     35.2
     VEL=      1.7

 *SECNO 187.000

 3265 DIVIDED FLOW

   187.00     3.46  1273.06      .00      .00  1273.21      .15     3.26      .00  1273.70
    3800.     510.    2320.     970.     255.     642.     430.     784.     546.   1272.40
     2.12     2.00     3.61     2.25     .060     .045     .060     .000  1269.60   375.96
  .005432     500.     510.     550.        3        0        0      .00  1076.67  3087.85
0
 FLOW DISTRIBUTION FOR SECNO=    187.00          CWSEL=   1273.06

 STA=     376.     814.     914.    1369.    2022.    2683.    2774.    2821.    2871.    2953.    3088.
   PER Q=      5.6      3.1      3.9       .8     61.1      5.9      9.6      3.6      4.4      1.9
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   AREA=     75.3     69.1     85.0     25.9    642.0    105.6    111.7     62.7     85.5     64.5
    VEL=      2.8      1.7      1.8      1.1      3.6      2.1      3.3      2.2      2.0      1.1

 *SECNO 188.000

 3265 DIVIDED FLOW

   188.00     3.23  1276.23      .00      .00  1276.56      .33     3.35      .00  1275.00
    3800.     592.    2839.     370.     258.     544.     220.     797.     559.   1275.00
     2.16     2.29     5.21     1.68     .060     .045     .060     .000  1273.00   628.55
  .008343     500.     500.     520.        2        0        0      .00  1037.65  3142.57
0
 FLOW DISTRIBUTION FOR SECNO=    188.00          CWSEL=   1276.23

 STA=     629.     664.     714.    1427.    1954.    2323.    2562.    2895.    2972.    3143.
   PER Q=      3.8      4.2      3.3      3.9       .4     74.7      4.9      3.0      1.8
    AREA=     44.9     56.4     65.4     80.0     11.2    544.5    104.0     60.1     56.0
     VEL=      3.2      2.8      1.9      1.9      1.3      5.2      1.8      1.9      1.2

1
  09-04-91     14:38:10                                                                          PAGE   55

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 189.000

 3265 DIVIDED FLOW

    189.00     3.72  1279.22      .00      .00  1279.30      .08     2.74      .00  1280.50
    3800.     392.    1188.    2220.     215.     443.    1093.     815.     573.   1279.40
     2.23     1.82     2.68     2.03     .060     .045     .060     .000  1275.50  1022.22
  .003314     550.     550.     550.        4        0        0      .00  1300.70  2772.68
0
 FLOW DISTRIBUTION FOR SECNO=    189.00          CWSEL=   1279.22

 STA=    1022.    1292.    1519.    1528.    1924.    1994.    2014.    2057.    2105.    2177.    2220.    2288.    2425.
   PER Q=      4.1      5.9       .4     31.3      5.8      4.1      4.2     11.9      3.1      5.5      4.8      9.2
    AREA=     87.0    118.4      9.4    442.8     86.6     55.6     76.4    149.1     75.0     85.7     95.5    194.1
     VEL=      1.8      1.9      1.5      2.7      2.5      2.8      2.1      3.0      1.6      2.4      1.9      1.8
 STA=    2425.    2548.    2693.    2773.
   PER Q=      6.0      3.5       .3
    AREA=    143.4    111.4     20.7
     VEL=      1.6      1.2       .6

 *SECNO 190.000

 3265 DIVIDED FLOW

    190.00     4.22  1281.42      .00      .00  1281.72      .31     2.42      .00  1282.30
    3800.     348.    1967.    1485.     113.     347.     637.     831.     587.   1282.50
     2.26     3.08     5.67     2.33     .060     .045     .060     .000  1277.20  1245.45
  .008479     450.     470.     500.        2        0        0      .00  1133.42  2728.42
0
 FLOW DISTRIBUTION FOR SECNO=    190.00          CWSEL=   1281.42

 STA=    1245.    1382.    1405.    1661.    1788.    1931.    1987.    2021.    2067.    2126.    2330.    2346.    2365.
   PER Q=      7.6      1.6     51.8      3.1      3.5      3.2      4.0      3.1      3.1      4.0      5.2      4.6
    AREA=     88.0     25.2    346.7     48.1     58.1     54.0     51.0     45.2     46.3     93.0     44.2     44.2
     VEL=      3.3      2.4      5.7      2.4      2.3      2.3      3.0      2.6      2.5      1.6      4.4      4.0
 STA=    2365.    2626.    2728.
   PER Q=      4.5       .8
    AREA=    122.3     30.6
     VEL=      1.4      1.1

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 191.000
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 3265 DIVIDED FLOW

    191.00     3.90  1284.80      .00      .00  1284.93      .12     3.20      .00  1284.80
     3800.     155.    1629.    2016.      97.     444.    1007.     846.     602.   1286.20
      2.31     1.60     3.67     2.00     .060     .045     .060     .000  1280.90  1249.59
   .005006     500.     500.     500.        4        0        0      .00  1516.42  3083.27
0
 FLOW DISTRIBUTION FOR SECNO=    191.00          CWSEL=   1284.80

 STA=    1250.    1568.    1581.    1860.    2159.    2243.    2419.    2439.    2570.    2597.    2674.    2729.    2954.
   PER Q=      3.7       .4     42.9      3.8      4.2      8.4      4.5      3.3      6.9      4.8      3.6     12.2
    AREA=     87.1      9.9    443.7    110.2     87.3    149.8     52.3     88.7     73.1     85.8     65.7    242.0
     VEL=      1.6      1.5      3.7      1.3      1.8      2.1      3.3      1.4      3.6      2.1      2.1      1.9
 STA=    2954.    3083.
   PER Q=      1.3
    AREA=     51.9
     VEL=      1.0

 *SECNO 192.000

 3265 DIVIDED FLOW

    192.00     3.51  1287.71      .00      .00  1287.85      .14     2.93      .00  1287.20
     3800.      88.    1939.    1773.      78.     523.     891.     864.     621.   1288.00
      2.36     1.13     3.71     1.99     .060     .045     .060     .000  1284.20  1124.91
   .006506     500.     500.     530.        4        0        0      .00  1579.91  2920.63
0
 FLOW DISTRIBUTION FOR SECNO=    192.00          CWSEL=   1287.71

 STA=    1125.    1458.    1788.    1993.    2049.    2145.    2164.    2211.    2384.    2474.    2508.    2595.    2663.
   PER Q=      2.3     51.0      3.1      3.2      3.5      3.1      3.3      4.8      5.2      5.9      5.0      4.6
    AREA=     77.7    522.6     74.2     52.4     77.3     38.1     55.9    115.2     94.4     70.4     91.9     78.9
     VEL=      1.1      3.7      1.6      2.3      1.7      3.1      2.3      1.6      2.1      3.2      2.1      2.2
 STA=    2663.    2921.
   PER Q=      5.1
    AREA=    142.7
     VEL=      1.3

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 193.000

 3265 DIVIDED FLOW

    193.00     4.35  1290.65      .00      .00  1290.92      .27     3.07      .00  1290.80
     3800.     260.    2606.     935.     145.     537.     468.     879.     636.   1290.80
      2.39     1.79     4.86     2.00     .060     .045     .060     .000  1286.30  1573.10
   .006023     490.     490.     490.        2        0        0      .00  1119.72  3266.84
0
 FLOW DISTRIBUTION FOR SECNO=    193.00          CWSEL=   1290.65

 STA=    1573.    1738.    1850.    2160.    2873.    2900.    2923.    3164.    3267.
   PER Q=      4.4      2.4     68.6      3.9      5.8      4.2     10.3       .4
    AREA=     89.1     56.3    536.6    113.7     63.9     49.7    217.5     23.4
     VEL=      1.9      1.6      4.9      1.3      3.4      3.2      1.8       .7

 *SECNO 194.000

 3265 DIVIDED FLOW

    194.00     4.53  1293.33      .00      .00  1293.64      .31     2.72      .00  1293.20
     3800.     270.    2956.     574.     191.     590.     294.     891.     648.   1293.50
      2.43     1.41     5.01     1.95     .060     .045     .060     .000  1288.80   369.15
   .004942     500.     500.     500.        3        0        0      .00   924.13  3307.04
0
 FLOW DISTRIBUTION FOR SECNO=    194.00          CWSEL=   1293.33

 STA=     369.    1254.    2150.    2336.    3031.    3150.    3172.    3307.
   PER Q=      3.4      3.7     77.8      3.3      5.8      4.5      1.5
    AREA=     78.5    112.8    590.1     83.5    104.2     54.6     51.9
     VEL=      1.6      1.3      5.0      1.5      2.1      3.1      1.1
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*SECNO 195.000

3265 DIVIDED FLOW

   195.00     5.32  1296.22      .00      .00  1296.60      .38     2.96      .00  1296.10
    3800.     337.    3036.     427.     171.     561.     162.     903.     656.   1296.00
     2.46     1.97     5.41     2.63     .060     .045     .060     .000  1290.90  1562.85
  .007239     500.     500.     500.        2        0        0      .00   589.93  3314.25
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=    195.00          CWSEL=   1296.22

STA=    1563.    1616.    2125.    2221.    2430.    3232.    3296.    3314.
  PER Q=      3.1      4.5      1.2     79.9      5.5      4.5      1.2
   AREA=     53.5     77.7     40.2    561.0     80.0     65.4     16.9
    VEL=      2.2      2.2      1.2      5.4      2.6      2.6      2.7

*SECNO 196.000

3265 DIVIDED FLOW

   196.00     7.01  1299.41      .00      .00  1299.65      .24     3.04      .00  1298.80
    3800.     390.    3130.     280.     179.     739.     160.     914.     664.   1300.30
     2.49     2.18     4.24     1.75     .060     .045     .060     .000  1292.40  1466.60
  .005194     500.     500.     500.        2        0        0      .00   730.43  3075.56
0
FLOW DISTRIBUTION FOR SECNO=    196.00          CWSEL=   1299.41

STA=    1467.    1903.    1955.    1980.    2388.    2974.    3076.
  PER Q=      3.2      4.2      2.9     82.4      5.2      2.2
   AREA=     68.5     67.5     42.9    738.6    109.4     50.8
    VEL=      1.8      2.3      2.6      4.2      1.8      1.7

*SECNO 197.000

3265 DIVIDED FLOW

   197.00     7.06  1301.76      .00      .00  1302.16      .41     2.51      .00  1301.20
    3800.     128.    3637.      35.      76.     698.      31.     926.     670.   1302.20
     2.52     1.69     5.21     1.10     .060     .045     .060     .000  1294.70  1502.69
  .004346     530.     530.     530.        3        0        0      .00   341.09  2561.55
0
FLOW DISTRIBUTION FOR SECNO=    197.00          CWSEL=   1301.76

STA=    1503.    1806.    1829.    2074.    2562.
  PER Q=      3.1       .3     95.7       .9
   AREA=     65.9     10.2    697.9     31.5
    VEL=      1.8      1.0      5.2      1.1

*SECNO 198.000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

   198.00     5.51  1303.71      .00      .00  1303.93      .22     1.76      .00  1307.00
    3700.       0.    3700.       0.       0.     986.       0.     936.     674.   1306.80
     2.56      .00     3.75      .00     .060     .045     .060     .000  1298.20  1487.77
  .002904     500.     500.     540.        2        0        0      .00   320.79  1825.81
0
FLOW DISTRIBUTION FOR SECNO=    198.00          CWSEL=   1303.71
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STA=    1488.    1884.
  PER Q=    100.0
   AREA=    985.8
    VEL=      3.8

*SECNO 199.000

3265 DIVIDED FLOW

   199.00     3.48  1306.58      .00      .00  1306.92      .33     2.99      .00  1310.40
    3600.     307.    3293.       0.      95.     694.       0.     948.     680.   1310.50
     2.59     3.23     4.75      .00     .060     .045     .060     .000  1303.10  1076.11
  .010812     580.     600.     660.        3        0        0      .00   506.29  2035.48
0
 FLOW DISTRIBUTION FOR SECNO=    199.00          CWSEL=   1306.58

STA=    1076.    1085.    1115.    1126.    1360.    1364.    1425.    1437.    1441.    2082.
  PER Q=      .6      6.2       .7       .2       .1       .1       .6       .0     91.5
   AREA=     8.5     56.9      9.8      4.2      2.7      2.1      9.7      1.3    693.6
    VEL=     2.4      3.9      2.4      1.9      1.9      1.5      2.2      1.2      4.7

*SECNO 200.000

3265 DIVIDED FLOW

   200.00     4.95  1310.35      .00      .00  1310.56      .21     3.64      .00  1313.10
    3400.       0.    3400.       0.       0.     929.       0.     959.     686.   1312.90
     2.63      .00     3.66      .00     .060     .045     .060     .000  1305.40  1317.35
  .004513     530.     540.     580.        2        0        0      .00   436.97  1918.78
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    200.00          CWSEL=   1310.35

STA=    1317.    1927.
  PER Q=    100.0
   AREA=    929.1
    VEL=      3.7

*SECNO 201.000

3265 DIVIDED FLOW

   201.00     4.49  1313.09      .00      .00  1313.29      .19     2.73      .00  1313.80
    3300.      71.    3222.       6.      33.     907.       8.     971.     692.   1315.00
     2.68     2.14     3.55      .82     .060     .045     .060     .000  1308.60   913.92
  .005292     520.     560.     600.        3        0        0      .00   567.97  1997.81
0
 FLOW DISTRIBUTION FOR SECNO=    201.00          CWSEL=   1313.09

STA=     914.     984.     993.    1665.    1932.    1946.    1998.
  PER Q=      1.4       .8     97.7       .1       .1       .0
   AREA=     20.9     12.4    907.3      1.9      4.8       .9
    VEL=      2.1      2.1      3.6       .9       .9       .2

*SECNO 202.000

3265 DIVIDED FLOW

   202.00     3.98  1315.48      .00      .00  1315.69      .20     2.40      .00  1315.80
    3200.      91.    3105.       4.      44.     849.       7.     982.     698.   1317.30
     2.72     2.05     3.66      .65     .060     .045     .060     .000  1311.50   674.76
  .004205     490.     510.     540.        2        0        0      .00   442.62  1546.12
0
 FLOW DISTRIBUTION FOR SECNO=    202.00          CWSEL=   1315.48

STA=     675.     686.     699.     711.    1378.    1463.    1541.    1546.
  PER Q=       .1      1.7      1.0     97.0       .0       .1       .0
   AREA=      4.4     22.8     16.9    848.8      1.4      3.7      1.4
    VEL=       .9      2.3      2.0      3.7       .4       .7       .7

*SECNO 203.000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

   203.00     4.06  1318.26      .00      .00  1318.46      .20     2.78      .00  1320.10
    3100.      72.    2995.      33.      42.     824.      24.     993.     705.  1320.40
     2.76     1.72     3.63     1.39     .060     .045     .060     .000  1314.20   489.58
  .005979     540.     560.     590.        2        0        0      .00   585.09  1475.05
0
 FLOW DISTRIBUTION FOR SECNO=    203.00          CWSEL=   1318.26

 STA=     490.     606.    1218.    1475.
   PER Q=      2.3     96.6      1.1
    AREA=     41.9    823.8     24.0
     VEL=      1.7      3.6      1.4

 *SECNO 204.000

 3265 DIVIDED FLOW

   204.00     4.21  1321.01      .00      .00  1321.19      .18     2.73      .00  1321.80
    2900.      46.    2710.     144.      31.     778.      81.    1004.     711.  1322.00
     2.80     1.45     3.49     1.78     .060     .045     .060     .000  1316.80   507.80
  .004594     480.     520.     560.        2        0        0      .00   514.80  1427.15
0
 FLOW DISTRIBUTION FOR SECNO=    204.00          CWSEL=   1321.01

 STA=     508.     517.     525.     532.     597.     607.    1327.    1364.    1378.    1395.    1406.    1415.    1427.
   PER Q=       .2       .6       .2       .2       .3     93.5       .4       .8      1.6       .7       .7       .8
    AREA=      5.7      9.1      4.5      5.3      6.9    777.5      8.6     13.4     22.9     12.2     10.7     13.0
     VEL=      1.2      1.9      1.2      1.3      1.3      3.5      1.4      1.6      2.0      1.8      1.8      1.8

 SECNO 205.000

 3265 DIVIDED FLOW

   205.00     5.02  1323.62      .00      .00  1323.81      .18     2.62      .00  1324.10
    2800.      87.    2287.     426.      55.     638.     147.    1014.     718.  1325.50
     2.85     1.59     3.58     2.89     .060     .045     .060     .000  1318.60   361.81
  .005735     480.     510.     540.        2        0        0      .00   545.12  1431.90
0
1
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```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    205.00          CWSEL=   1323.62

 STA=     362.     641.    1218.    1314.    1329.    1396.    1432.
   PER Q=      3.1     81.7      5.0      4.5      3.2      2.4
    AREA=     54.9    638.4     41.8     38.0     36.3     31.0
     VEL=      1.6      3.6      3.4      3.3      2.5      2.2

 *SECNO 206.000

 3265 DIVIDED FLOW

   206.00     3.52  1326.12      .00      .00  1326.29      .18     2.49      .00  1327.50
    2700.       4.    2511.     185.      10.     725.     109.    1024.     724.  1328.00
     2.89      .44     3.46     1.70     .060     .045     .060     .000  1322.60   635.79
  .003729     530.     540.     560.        3        0        0      .00   478.54  1897.09

 FLOW DISTRIBUTION FOR SECNO=    206.00          CWSEL=   1326.12

 STA=     636.    1025.    1029.    1463.    1713.    1737.    1799.    1810.    1889.    1897.
   PER Q=       .2       .0     93.0      2.0      1.9      1.5       .9       .2       .3
```

```
   AREA=      9.2       .6    725.4     31.7     29.8     23.3     14.1      4.2      6.0
    VEL=       .4       .4      3.5      1.7      1.7      1.8      1.8      1.2      1.2

 *SECNO 207.000

 3265 DIVIDED FLOW

   207.00     4.17  1328.37      .00      .00  1328.60      .23     2.31      .00  1330.60
    2600.       0.    2339.     261.       0.     577.     143.    1033.     729.   1330.60
     2.93      .00     4.05     1.83     .060     .045     .060     .000  1324.20   811.70
  .006799     460.     470.     480.        2        0        0      .00   525.73  1833.77
0
 FLOW DISTRIBUTION FOR SECNO=    207.00          CWSEL=   1328.37

 STA=     812.    1204.    1630.    1660.    1678.    1695.    1752.    1778.    1791.    1821.    1834.
   PER Q=     90.0       .6      1.7      2.8      2.2      1.0       .8       .2       .2       .5
    AREA=    577.1     12.6     24.3     26.7     23.3     23.9     14.8      4.7      4.1      8.7
     VEL=      4.1      1.2      1.8      2.7      2.5      1.1      1.4      1.1      1.6      1.6

 *SECNO 208.000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

   208.00     5.59  1330.69      .00      .00  1330.99      .30     2.39      .00  1330.90
    2500.      12.    2110.     378.      14.     448.     262.    1041.     736.   1332.70
     2.96      .85     4.71     1.44     .060     .045     .060     .000  1325.10   886.45
  .003443     490.     500.     540.        2        0        0      .00   502.81  2210.11
0
 FLOW DISTRIBUTION FOR SECNO=    208.00          CWSEL=   1330.69

 STA=     886.     918.    1127.    1197.    1982.    2054.    2180.    2210.
   PER Q=       .5     84.4      4.0      4.0      3.3      3.6       .2
    AREA=     14.0    447.8     46.2     74.5     58.1     76.2      6.9
     VEL=       .8      4.7      2.2      1.4      1.4      1.2       .6

 *SECNO 209.000

 3265 DIVIDED FLOW

   209.00     4.91  1332.61      .00      .00  1332.95      .34     1.96      .00  1334.50
    2300.      52.    1897.     351.      31.     374.     196.    1049.     741.   1334.50
     2.99     1.69     5.07     1.79     .060     .045     .060     .000  1327.70   781.04
  .004158     520.     520.     520.        2        0        0      .00   404.63  2389.19
0
 FLOW DISTRIBUTION FOR SECNO=    209.00          CWSEL=   1332.61

 STA=     781.     809.     979.    1959.    1989.    2111.    2389.
   PER Q=      2.3     82.5      3.3      7.5      4.3       .2
    AREA=     30.9    374.4     48.4     64.4     73.0      9.9
     VEL=      1.7      5.1      1.6      2.7      1.4       .4

 *SECNO 210.000

 3265 DIVIDED FLOW

   210.00     4.06  1334.46      .00      .00  1334.66      .20     1.71      .00  1335.80
    2200.      11.    1966.     223.      15.     520.     162.    1057.     745.   1335.80
     3.03      .75     3.78     1.38     .060     .045     .060     .000  1330.40   357.96
  .002790     500.     505.     510.        1        0        0      .00   358.63  1749.62
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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```
 FLOW DISTRIBUTION FOR SECNO=    210.00          CWSEL=   1334.46

 STA=     358.     392.     739.    1544.    1609.    1750.
   PER Q=       .5     89.4      3.9      3.5      2.8
    AREA=     14.5    520.1     69.3     47.7     44.9
     VEL=       .7      3.8      1.2      1.6      1.4

 *SECNO 211.000

 3265 DIVIDED FLOW

    211.00     2.62  1336.32      .00      .00  1336.64      .33     1.99      .00  1338.70
     2100.       2.    1917.     181.       2.     403.      99.    1063.     749.   1338.90
      3.06      .67     4.76     1.83     .060     .045     .060     .000  1333.70   557.70
   .006944     480.     480.     480.        2        0        0      .00   318.08  1888.18
0
 FLOW DISTRIBUTION FOR SECNO=    211.00          CWSEL=   1336.32

 STA=     558.     600.    1089.    1661.    1707.    1888.
   PER Q=       .1     91.3      3.9      3.2      1.6
    AREA=       2.3    402.9     43.2     34.9     21.2
     VEL=       .7      4.8      1.9      1.9      1.6

 *SECNO 212.000

 3265 DIVIDED FLOW

    212.00     4.24  1338.14      .00      .00  1338.24      .10     1.60      .00  1341.00
     2000.     134.    1086.     780.      73.     398.     339.    1071.     753.   1340.50
      3.12     1.83     2.73     2.30     .060     .045     .060     .000  1333.90   847.16
   .001684     520.     520.     520.        3        0        0      .00   295.83  1933.94
0
 FLOW DISTRIBUTION FOR SECNO=    212.00          CWSEL=   1338.14

 STA=     847.     855.     872.     880.    1209.    1274.    1837.    1873.    1913.    1934.
   PER Q=       .7      5.3       .7     54.3       .0       .5     12.7     22.0      3.8
    AREA=      11.4     50.6     11.1    398.0      2.4      9.2    115.3    166.5     45.5
     VEL=       1.2      2.1      1.3      2.7       .3      1.1      2.2      2.6      1.7

 *SECNO 213.000
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

    213.00     2.70  1339.50      .00      .00  1340.19      .69     1.95      .00  1342.60
     1900.     117.    1783.       0.      27.     262.       0.    1078.     755.   1343.50
      3.14     4.29     6.80      .00     .060     .055     .060     .000  1336.80  1036.17
   .019342     500.     500.     500.        3        0        0      .00   127.87  1339.57
0
 FLOW DISTRIBUTION FOR SECNO=    213.00          CWSEL=   1339.50

 STA=    1036.    1041.    1052.    1057.    1437.
   PER Q=       .7      4.7       .7     93.9
    AREA=       4.5     18.3      4.5    262.4
     VEL=       3.0      4.9      3.0      6.8

 *SECNO 214.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

    14.00     3.92  1342.72      .00      .00  1342.82      .11     2.63      .00  1345.80
    1800.      81.    1718.       1.      57.     649.       3.    1083.     758.   1346.30
      3.19     1.42     2.65      .36     .060     .055     .060     .000  1338.80   704.74
   .002447     490.     480.     470.        3        0        0      .00   324.88  2006.47
0
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 FLOW DISTRIBUTION FOR SECNO=    214.00          CWSEL=   1342.72

 STA=     705.     793.    1248.    2006.
   PER Q=      4.5      95.5       .1
    AREA=     56.9    648.6      3.0
     VEL=      1.4      2.6       .4

 *SECNO 215.000

 3265 DIVIDED FLOW

1
  09-04-91     14:38:10                                                                                                PAGE   66

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


    215.00     3.59  1344.29      .00      .00  1344.43      .14     1.61      .00  1347.70
     1700.       0.    1638.      62.       0.     535.      38.    1090.     761.   1345.70
      3.24      .00     3.06     1.64     .060     .055     .060     .000  1340.70   608.11
   .004544     500.     500.     500.        4        0        0      .00   286.85  1249.58
0
 FLOW DISTRIBUTION FOR SECNO=    215.00          CWSEL=   1344.29

 STA=     608.     875.     904.     925.    1248.    1250.
   PER Q=     96.3      1.6      2.0       .0       .0
    AREA=    534.8     16.6     20.8       .4       .2
     VEL=      3.1      1.7      1.7       .5       .5

 *SECNO 216.000

 3265 DIVIDED FLOW

    216.00     4.80  1347.30      .00      .00  1347.54      .24     3.10      .00  1350.00
     1700.    1309.     391.       0.     307.     146.       0.    1097.     765.   1349.70
      3.28     4.26     2.68      .02     .060     .055     .060     .000  1342.50   396.71
   .006082     600.     590.     580.        3        0        0      .00   230.60  1035.69
0
 FLOW DISTRIBUTION FOR SECNO=    216.00          CWSEL=   1347.30

 STA=     397.     415.     451.     467.     493.     636.     982.
   PER Q=      7.7     53.9      7.2      6.4      1.7     23.0
    AREA=     40.2    170.5     36.7     40.1     19.8    146.0
     VEL=      3.2      5.4      3.4      2.7      1.5      2.7

 *SECNO 217.000

 3265 DIVIDED FLOW

    217.00     5.50  1349.50      .00      .00  1349.69      .18     2.15      .00  1352.80
     1700.    1132.     568.       0.     295.     232.       0.    1103.     767.   1352.40
      3.32     3.84     2.45      .00     .060     .055     .060     .000  1344.00   368.25
   .003595     470.     460.     450.        2        0        0      .00   213.55  1097.90
0
 FLOW DISTRIBUTION FOR SECNO=    217.00          CWSEL=   1349.50

 STA=     368.     385.     422.     439.     450.     630.     634.    1100.
   PER Q=      7.7     50.2      8.1       .2       .2       .1     33.4
    AREA=     46.6    191.5     47.1      4.5      3.0      2.3    231.6
     VEL=      2.8      4.5      2.9       .8      1.0      1.0      2.5

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 218.000

 3265 DIVIDED FLOW
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3301 HV CHANGED MORE THAN HVINS

   218.00     3.69  1352.39      .00      .00  1353.08      .69     3.40      .00  1353.60
    1700.       1.    1650.      49.       1.     244.      27.    1107.     769.   1354.50
     3.34      .76     6.76     1.80     .060     .055     .060     .000  1348.70   233.21
  .017355     500.     500.     500.        3        0        0      .00   174.14  1393.40

 FLOW DISTRIBUTION FOR SECNO=    218.00          CWSEL=   1352.39

 STA=     233.     505.     508.     662.     788.     819.     826.    1316.    1320.    1379.    1393.
   PER Q=      .0       .0     97.1       .1      1.8       .2       .0       .0       .3       .5
    AREA=      .4       .4    244.3       .8     15.4      2.0       .3       .4      3.2      5.2
     VEL=      .6       .9      6.8      1.1      2.0      1.4       .7       .7      1.6      1.6

 *SECNO 219.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

   219.00     4.98  1355.88      .00      .00  1355.97      .09     2.89      .00  1357.60
    1600.       0.    1564.      36.       0.     639.      47.    1113.     773.   1358.70
     3.40      .01     2.45      .77     .060     .055     .060     .000  1350.90    70.48
  .002538     540.     530.     530.        4        0        0      .00   369.86  1862.45
0
 FLOW DISTRIBUTION FOR SECNO=    219.00          CWSEL=   1355.88

 STA=      70.    1052.    1512.    1567.    1581.    1811.    1820.    1855.    1862.
   PER Q=    97.8       .1      1.5       .1       .1       .2       .1       .2
    AREA=   639.1      2.5     29.4      2.6      2.6      3.7      2.1      4.0
     VEL=     2.4       .6       .8       .4       .7       .7       .8       .8

 *SECNO 220.000
1
  09-04-91     14:38:10                                                                    PAGE   68


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 3265 DIVIDED FLOW

   220.00     4.14  1357.74      .00      .00  1358.05      .30     2.07      .00  1360.40
    1600.       0.    1599.       1.       0.     361.       1.    1120.     776.   1359.60
     3.43      .00     4.43      .53     .060     .055     .060     .000  1353.60   735.67
  .006470     550.     540.     540.        3        0        0      .00   131.40  2229.81
0
 FLOW DISTRIBUTION FOR SECNO=    220.00          CWSEL=   1357.74

 STA=     736.     940.    2037.    2040.    2230.
   PER Q=   100.0       .0       .0       .0
    AREA=   361.2       .7       .4       .1
     VEL=     4.4       .6       .6       .0

 *SECNO 221.000

 3265 DIVIDED FLOW

   221.00     4.48  1360.18      .00      .00  1360.36      .17     2.31      .00  1360.70
    1600.     684.     916.       0.     227.     257.       1.    1124.     777.   1361.20
     3.47     3.02     3.57      .51     .060     .055     .060     .000  1355.70   555.03
  .003827     480.     470.     460.        2        0        0      .00   172.19  2162.07
0
 FLOW DISTRIBUTION FOR SECNO=    221.00          CWSEL=   1360.18

 STA=     555.     577.     594.     607.     747.     765.     911.    2160.    2162.
   PER Q=     7.7     18.2      4.2      6.2      6.4     57.3       .0       .0
    AREA=    48.4     72.0     27.9     38.4     39.9    256.7       .3       .4
     VEL=     2.6      4.0      2.4      2.6      2.6      3.6       .5       .5

 *SECNO 222.000

 3265 DIVIDED FLOW

   222.00     4.64  1362.94      .00      .00  1363.17      .23     2.81      .00  1363.50
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    1600.    1002.     598.       0.     253.     165.       0.    1130.     780.   1364.60
     3.51     3.96     3.63      .00     .060     .055     .060     .000  1358.30   193.53
  .007824     530.     530.     540.        0        0        0      .00   234.08  1179.91
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=    222.00          CWSEL=   1362.94

 STA=     194.     224.     858.     865.     877.     885.     948.     953.     966.    1188.
   PER Q=      5.0      4.5      7.0     20.7      3.8      8.3      7.7      5.6     37.4
    AREA=     33.5     38.8     23.3     54.9     17.6     37.0     21.7     26.3    164.7
     VEL=      2.4      1.9      4.8      6.0      3.4      3.6      5.7      3.4      3.6

 *SECNO 223.000

 3265 DIVIDED FLOW

   223.00     4.12  1365.92      .00      .00  1366.00      .08     2.84      .00  1367.30
    1500.     861.     504.     135.     379.     193.     124.    1137.     785.   1367.20
     3.58     2.27     2.61     1.09     .060     .055     .060     .000  1361.80   509.89
  .003283     600.     550.     520.        3        0        0      .00   622.17  2438.70
0
 FLOW DISTRIBUTION FOR SECNO=    223.00          CWSEL=   1365.92

 STA=     510.     600.     615.     625.     672.     685.     700.     737.     764.     833.    1349.    2127.    2211.
   PER Q=      7.7     14.6      4.6      7.5      5.1      3.8      6.8      5.0      2.3     33.6      3.3      3.0
    AREA=     63.6     60.7     26.2     60.2     30.9     27.2     44.4     38.4     27.5    192.9     49.7     29.8
     VEL=      1.8      3.6      2.6      1.9      2.5      2.1      2.3      1.9      1.2      2.6      1.0      1.5
 STA=    2211.    2439.
   PER Q=      2.7
    AREA=     44.5
     VEL=       .9

 *SECNO 224.000

 3265 DIVIDED FLOW

   224.00     4.99  1367.89      .00      .00  1368.03      .14     2.02      .00  1370.40
    1500.    1158.     327.      15.     374.     131.      14.    1143.     791.   1369.60
     3.62     3.09     2.49     1.13     .060     .055     .060     .000  1362.90   199.23
  .006901     440.     440.     440.        2        0        0      .00   474.09  2206.66
0
 FLOW DISTRIBUTION FOR SECNO=    224.00          CWSEL=   1367.89

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 STA=     199.     561.     587.     597.     622.     636.     644.     657.     669.     687.     713.     730.     757.
   PER Q=      3.5     14.4      6.3      4.4     15.0      3.2      5.6      6.5      5.1      3.7      5.3      3.7
    AREA=     32.8     57.1     26.8     23.1     48.2     15.6     25.6     27.6     28.1     24.6     28.1     26.9
     VEL=      1.6      3.8      3.5      2.9      4.7      3.1      3.3      3.5      2.7      2.2      2.8      2.1
 STA=     757.     793.    1532.    2207.
   PER Q=       .6     21.8      1.0
    AREA=      9.7    131.1     13.5
     VEL=       .9      2.5      1.1

 *SECNO 225.000

 3265 DIVIDED FLOW

   225.00     3.52  1370.52      .00      .00  1370.58      .06     2.55      .00  1374.20
    1400.    1167.     230.       3.     608.     125.       3.    1151.     798.   1372.70
     3.70     1.92     1.84      .75     .060     .055     .060     .000  1367.00   249.32
  .003598     520.     520.     520.        2        0        0      .00   628.25  1649.03
0
```

```
FLOW DISTRIBUTION FOR SECNO=    225.00          CWSEL=   1370.52

STA=     249.     327.     552.     570.     613.     661.     706.     730.     744.     760.     775.     797.     815.
  PER Q=     4.5     14.7      9.3      3.9      4.3      4.4      4.7      5.1      7.9      3.7      4.0      4.1
   AREA=    48.7     88.2     46.6     39.1     43.1     38.9     34.2     29.7     40.8     24.4     30.4     28.3
    VEL=     1.3      2.3      2.8      1.4      1.4      1.6      1.9      2.4      2.7      2.1      1.8      2.0
     815.     833.     885.     916.     933.    1423.    1649.
  PER Q=     4.2      3.3      4.6       .9     16.4       .2
   AREA=    28.4     38.2     38.1     10.7    125.1      3.4
    VEL=     2.1      1.2      1.7      1.1      1.8       .7

*SECNO 226.000

3265 DIVIDED FLOW

   226.00     3.32  1373.32      .00      .00  1373.49      .18     2.91      .00  1374.50
    1400.    1210.     190.       0.     351.      70.       0.    1157.     804.  1374.90
     3.74     3.45     2.70      .00     .060     .055     .060     .000  1370.00   464.69
  .010999     500.     500.     500.        2        0        0      .00   442.24  1514.51
0
FLOW DISTRIBUTION FOR SECNO=    226.00          CWSEL=   1373.32

1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

STA=     465.     519.     531.     557.     651.     662.     677.     729.     741.    1224.    1257.    1309.    1325.
  PER Q=     5.5     14.3     14.2      6.5     11.4      4.3      5.9      3.9      3.4     12.4      4.3       .2
   AREA=    26.9     36.5     49.8     34.0     31.0     19.5     26.2     17.5     23.6     50.6     31.8      3.4
    VEL=     2.9      5.5      4.0      2.7      5.2      3.1      3.2      3.2      2.0      3.4      1.9       .9
STA=    1325.    1573.
  PER Q=    13.6
   AREA=    70.5
    VEL=     2.7

NO 227.000

3265 DIVIDED FLOW

   227.00     3.27  1377.27      .00      .00  1377.36      .10     3.87      .00  1377.70
    1400.       1.    1144.     255.       2.     434.     162.    1163.     810.  1377.00
     3.80      .37     2.63     1.57     .060     .055     .060     .000  1374.00  1233.79
  .005740     500.     500.     500.        5        0        0      .00   616.98  1886.70
0
FLOW DISTRIBUTION FOR SECNO=    227.00          CWSEL=   1377.27

STA=    1234.    1246.    1256.    1589.    1653.    1679.    1716.    1743.    1845.    1857.    1887.
  PER Q=      .0       .0     81.7      1.0       .7      7.5      5.4      2.6       .5       .6
   AREA=     1.0       .9    434.1     17.5      9.6     47.8     34.1     37.8      5.6     10.0
    VEL=      .4       .4      2.6       .8      1.0      2.2      2.2      1.0      1.1       .9

*SECNO 228.000

3265 DIVIDED FLOW

   228.00     4.48  1379.58      .00      .00  1379.68      .10     2.32      .00  1379.50
    1300.     275.     769.     256.     126.     269.     156.    1170.     816.  1380.00
     3.85     2.18     2.86     1.64     .060     .055     .060     .000  1375.10   791.24
  .003768     500.     500.     500.        3        0        0      .00   478.56  1587.44
0
FLOW DISTRIBUTION FOR SECNO=    228.00          CWSEL=   1379.58

STA=     791.     848.     858.     879.     969.    1091.    1163.    1214.    1587.
  PER Q=     6.4      8.5      5.9       .4     59.1     13.6      3.4      2.8
   AREA=    46.3     32.8     35.3     12.0    269.2     81.1     36.4     38.7
    VEL=     1.8      3.4      2.2       .4      2.9      2.2      1.2       .9

1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
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   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 229.000

 3265 DIVIDED FLOW

   229.00     3.98  1382.28      .00      .00  1382.40      .11     2.72      .00  1383.70
    1200.       1.    1113.      85.       2.     401.      52.    1176.     821.   1383.50
     3.91      .57     2.77     1.63     .060     .055     .060     .000  1378.30   934.39
  .007324     540.     540.     530.        3        0        0      .00   400.98  2259.15
0
 FLOW DISTRIBUTION FOR SECNO=    229.00          CWSEL=   1382.28

 STA=     934.     944.     949.    1381.    1585.    1603.    1785.    1795.    2246.    2259.
   PER Q=      .1       .0     92.8      2.1      2.5       .6       .6       .7       .6
    AREA=     1.3       .7    401.3     13.7     15.8      4.7      5.5      6.7      5.9
     VEL=      .6       .6      2.8      1.9      1.9      1.4      1.4      1.2      1.2

 *SECNO 230.000

 3265 DIVIDED FLOW

   230.00     3.53  1384.83      .00      .00  1384.88      .04     2.48      .00  1384.60
    1100.     329.     757.      14.     184.     455.      15.    1183.     828.   1385.60
     4.00     1.78     1.66      .92     .060     .055     .060     .000  1381.30   773.69
  .003149     530.     530.     530.        3        0        0      .00   614.36  1872.54
0
 FLOW DISTRIBUTION FOR SECNO=    230.00          CWSEL=   1384.83

 STA=     774.     954.     973.     991.    1027.    1069.    1502.    1873.
   PER Q=     3.9      7.5     11.8      5.8       .8     68.9      1.2
    AREA=    42.5     38.0     48.5     41.5     14.0    455.3     14.9
     VEL=     1.0      2.2      2.7      1.5       .7      1.7       .9

 *SECNO 231.000

 3265 DIVIDED FLOW

   231.00     2.80  1387.10      .00      .00  1387.20      .10     2.32      .00  1387.30
    1000.     627.     211.     162.     253.      78.      74.    1188.     834.   1387.80
     4.05     2.48     2.69     2.20     .060     .055     .060     .000  1384.30   757.94
  .010055     460.     460.     460.        2        0        0      .00   571.97  1767.35
0
1
  09-04-91     14:38:10                                                                          PAGE   73


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    231.00          CWSEL=   1387.10

 STA=     758.     778.     791.     817.    1016.    1027.    1048.    1185.    1206.    1331.    1432.    1467.    1486.
   PER Q=     3.0      3.1      6.0      8.1     10.5      6.1      9.7      9.4      6.9     21.1      6.3      4.7
    AREA=    14.8     12.9     24.8     40.0     25.0     23.1     42.9     30.3     39.0     78.4     25.3     19.1
     VEL=     2.0      2.4      2.4      2.0      4.2      2.6      2.3      3.1      1.8      2.7      2.5      2.5
 STA=    1486.    1754.    1767.
   PER Q=     4.0      1.2
    AREA=    21.8      7.4
     VEL=     1.8      1.7

 *SECNO 232.000
   232.00     2.67  1391.17      .00      .00  1391.24      .08     4.05      .00  1390.80
     900.     214.     326.     360.     120.     114.     197.    1194.     841.   1390.60
     4.12     1.78     2.87     1.83     .060     .055     .060     .000  1388.50  1305.62
  .004756     600.     590.     590.        4        0        0      .00   398.90  1704.51
0
 FLOW DISTRIBUTION FOR SECNO=    232.00          CWSEL=   1391.17

 STA=    1306.    1348.    1412.    1427.    1446.    1505.    1556.    1569.    1585.    1649.    1670.    1692.    1705.
   PER Q=     1.3     17.9      3.6       .8     36.3      5.6      5.5      7.6      8.7      5.9      6.5       .4
    AREA=    14.2     80.7     17.4      8.0    113.8     36.5     21.0     27.8     52.3     26.6     28.3      4.2
     VEL=      .8      2.0      1.9      1.0      2.9      1.4      2.3      2.4      1.5      2.0      2.1       .8

 *SECNO 233.000
   233.00     3.00  1393.50      .00      .00  1393.61      .11     2.37      .00  1393.00
```

```
     900.      24.     366.     511.      22.     113.     235.    1198.     844.   1393.30
     4.17     1.06     3.24     2.17    .060     .055     .060     .000  1390.50   684.60
  .005718     460.     460.     450.       4        0        0      .00   324.95  1009.55
0
 FLOW DISTRIBUTION FOR SECNO=    233.00          CWSEL=   1393.50

        685.     741.     798.     821.     841.     878.     893.     916.     963.     982.     995.    1009.
    R Q=      2.6     40.6     10.6     11.6      3.7      5.3      8.0      6.0      4.5      3.7      3.3
   AREA=     22.2    113.1     37.4     37.3     23.8     20.8     31.5     32.9     20.1     15.8     15.6
    VEL=      1.1      3.2      2.6      2.8      1.4      2.3      2.3      1.6      2.0      2.1      1.9

 *SECNO 234.000
   234.00     3.27  1396.17      .00      .00  1396.27      .10     2.66      .00  1395.90
     800.     339.     354.     107.     159.     113.      76.    1202.     848.   1396.00
     4.23     2.14     3.14     1.42     .060     .055     .060     .000  1392.90   750.48
  .005050     490.     490.     500.        2        0        0      .00   346.26  1096.73
0
1
 09-04-91     14:38:10                                                                          PAGE   74


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    234.00          CWSEL=   1396.17

 STA=     750.     822.     843.     864.     889.     910.     925.     978.    1029.    1079.    1097.
   PER Q=      3.2     13.2     12.3      5.8      7.6       .3     44.3      3.7      8.9       .8
    AREA=     26.3     39.0     38.3     23.2     28.6      3.3    112.8     24.8     44.1      6.9
     VEL=      1.0      2.7      2.6      2.0      2.1       .7      3.1      1.2      1.6       .9

 *SECNO 235.000

 3265 DIVIDED FLOW

   235.00     3.38  1398.98      .00      .00  1399.10      .11     2.83      .00  1399.10
     700.     211.     289.     200.      88.      87.     104.    1206.     852.   1398.20
     4.28     2.40     3.34     1.93     .060     .055     .060     .000  1395.60   785.55
    06665     490.     495.     500.        2        0        0      .00   266.31  1149.54
0
 FLOW DISTRIBUTION FOR SECNO=    235.00          CWSEL=   1398.98

 STA=     786.     803.     833.     853.     867.     954.     995.    1031.    1103.    1124.    1150.
   PER Q=      2.1      4.2     14.1      9.7     41.2      6.3      1.4      4.0     13.3      3.5
    AREA=     10.4     19.4     34.0     24.1     86.5     28.0     10.9     14.5     33.8     16.4
     VEL=      1.4      1.5      2.9      2.8      3.3      1.6       .9      1.9      2.8      1.5

 *SECNO 236.000

 3265 DIVIDED FLOW

   236.00     3.38  1401.78      .00      .00  1401.89      .11     2.79      .00  1401.60
     600.      28.     389.     183.      36.     123.     133.    1209.     856.   1401.30
     4.34      .79     3.16     1.38     .060     .055     .060     .000  1398.40   491.85
  .004450     510.     510.     510.        3        0        0      .00   406.05  1019.66
0
 FLOW DISTRIBUTION FOR SECNO=    236.00          CWSEL=   1401.78

 STA=     492.     573.     607.     660.     710.     769.     790.    1020.
   PER Q=      3.6      1.1     64.8      5.6     12.9      8.3      3.7
    AREA=     26.3      9.7    123.1     29.2     48.0     26.4     28.9
     VEL=       .8       .7      3.2      1.2      1.6      1.9       .8

 *SECNO 237.000
1
 09-04-91     14:38:10                                                                          PAGE   75


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW
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   237.00     3.54  1404.14      .00      .00  1404.28      .13     2.39      .00  1404.70
     500.       0.     486.      14.       0.     163.      16.    1212.     859.   1404.50
     4.38      .00     2.97      .91     .060     .055     .060     .000  1400.60   670.16
  .005007     520.     510.     500.        2        0        0      .00   126.14   807.29
0
 FLOW DISTRIBUTION FOR SECNO=    237.00          CWSEL=   1404.14

 STA=     670.     756.     785.     807.
   PER Q=     97.1      1.4      1.5
    AREA=    163.3      7.5      8.4
     VEL=      3.0       .9       .9

1
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                                                                                    THIS RUN EXECUTED 09-04-91
 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION AUGUST 1985
 ***************************************************


 T1      WATERMAN WASH FLOOD INSURANCE STUDY - STANLEY CONSULTANTS (SCI#10512)
 T2      WEST PRONG - UPPER WATERSHED - 100 YR Q - ENCROACHED PROFILE
 T3      WATERMAN WASH - WEST PRONG UPPER   FILE NAME IS: WWH2WPF  DATE: 8-24-91

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.        4.        0.        0.   .000000       .00        .0        0.  1142.310      .000

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15.000      .000    -1.000      .000      .000      .000      .000      .000      .000    15.000

1
  09-04-91     14:38:10                                                                                    PAGE   77


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST


 *PROF 2

 *SECNO 130.000
 3280 CROSS SECTION    130.00 EXTENDED       .41 FEET


 3470 ENCROACHMENT STATIONS=     930.0    1630.0  TYPE=     1  TARGET=     700.000
    130.00     5.51  1142.31      .00  1141.38  1142.45      .14      .00      .00  1142.80
     4800.       0.     3124.    1676.       0.     941.     764.       0.       0.   1140.40
       .00      .00     3.32     2.19     .055     .045     .045     .000  1136.80  1056.92
  .001539    2150.    2150.    2150.        0        0        0      .00   573.08  1630.00
0
 FLOW DISTRIBUTION FOR SECNO=    130.00          CWSEL=   1142.31

 STA=    1057.    1285.    1300.    1326.    1355.    1374.    1403.    1413.    1630.
   PER Q=     65.1      1.3      2.8      2.8      1.4      3.2      1.1     22.2
    AREA=    941.2     29.7     60.1     62.2     34.8     68.4     23.6    484.9
     VEL=      3.3      2.1      2.3      2.2      2.0      2.3      2.3      2.2

 *SECNO 131.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     850.0    1500.0  TYPE=     1  TARGET=     650.000
    131.00     5.44  1143.24      .00  1142.41  1143.44      .19      .99      .00  1144.80
     4800.       0.     4661.     139.       0.    1309.      73.      18.       6.   1144.00
       .04      .00     3.56     1.92     .055     .045     .045     .000  1137.80   872.55
  .002511     510.     510.     510.        2        0        0      .00   524.22  1500.00
0
 FLOW DISTRIBUTION FOR SECNO=    131.00          CWSEL=   1143.24
```

```
STA=     873.    1309.    1324.    1341.    1346.    1500.
  PER Q=     97.1       .6      2.0       .1       .2
   AREA=   1309.1     14.5     35.5      4.0     18.4
    VEL=      3.6      1.9      2.7      1.4       .6

*SECNO 132.000

3265 DIVIDED FLOW

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     800.0    1840.0  TYPE=     1  TARGET=    1040.000
   132.00     4.22  1144.72      .00  1144.80  1144.92      .20     1.49      .00100000.00
    4800.       0.    4445.     355.       0.    1198.     144.      33.      13.   1146.00
      .08      .00     3.71     2.47     .055     .045     .045     .000  1140.50   830.42
  .003744     490.     490.     490.        2        0        0      .00   617.34  1814.73
0
 FLOW DISTRIBUTION FOR SECNO=    132.00          CWSEL=   1144.72

 STA=     830.    1458.    1775.    1815.
   PER Q=     92.6      3.7      3.7
    AREA=   1198.1     80.5     63.1
     VEL=      3.7      2.2      2.8

 *SECNO 133.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1010.0    1960.0  TYPE=     1  TARGET=     950.000
   133.00     4.88  1146.78      .00  1146.75  1146.98      .20     2.06      .00100000.00
    4800.       0.    3855.     945.       0.    1072.     273.      48.      20.   1147.00
      .12      .00     3.60     3.46     .055     .045     .045     .000  1141.90  1021.89
  .004738     490.     490.     490.        2        0        0      .00   715.30  1881.98
0
 FLOW DISTRIBUTION FOR SECNO=    133.00          CWSEL=   1146.78

 STA=    1022.    1638.    1732.    1744.    1753.    1766.    1773.    1786.    1798.    1861.    1882.
   PER Q=     80.3       .2      1.8      1.2       .3      1.0      2.6      2.1     10.1       .3
    AREA=   1072.1      9.7     24.8     16.4      7.8     13.7     31.2     26.6    131.6     11.1
     VEL=      3.6      1.1      3.6      3.4      1.6      3.5      4.0      3.8      3.7      1.5

 *SECNO 134.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1110.0    1890.0  TYPE=     1  TARGET=     780.000
   134.00     4.92  1148.92      .00  1148.89  1149.18      .26     2.20      .00  1150.80
    4800.       0.    4800.       0.       0.    1166.       0.      63.      27.   1150.00
      .15      .00     4.12      .00     .055     .045     .045     .000  1144.00  1139.62
  .004056     500.     500.     530.        1        0        0      .00   423.92  1872.84
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    134.00          CWSEL=   1148.92

      1140.    1880.
   PER Q=    100.0
    AREA=   1166.2
     VEL=      4.1
```

```
*SECNO 135.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1180.0    1890.0  TYPE=     1  TARGET=     710.000
   135.00     5.82  1151.22      .00  1150.98  1151.52      .30     2.34      .00  1152.30
    4800.       0.    4326.     474.       0.     986.     107.      76.      32.  1152.40
      .18      .00     4.39     4.43     .055     .045     .045     .000  1145.40  1282.59
  .005397     500.     500.     540.        2        0        0      .00   460.02  1853.97
0
 FLOW DISTRIBUTION FOR SECNO=    135.00          CWSEL=   1151.22

 STA=    1283.    1705.    1768.    1790.    1805.    1854.
   PER Q=     90.1      1.0      7.4      1.5       .0
    AREA=    985.7     14.8     68.3     22.9      1.1
     VEL=      4.4      3.2      5.2      3.2       .6

*SECNO 136.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1175.0    1690.0  TYPE=     1  TARGET=     515.000
   136.00     6.39  1153.79      .00  1153.25  1154.27      .48     2.75      .00  1154.60
    4800.       0.    4800.       0.       0.     865.       0.      87.      36.  1154.80
      .21      .00     5.55      .00     .055     .045     .045     .000  1147.40  1274.12
  .005605     490.     500.     500.        2        0        0      .00   255.75  1581.38
0
 FLOW DISTRIBUTION FOR SECNO=    136.00          CWSEL=   1153.79

 STA=    1274.    1587.
   PER Q=    100.0
    AREA=    865.2
     VEL=      5.5

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 137.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1310.0    1800.0  TYPE=     1  TARGET=     490.000
   137.00     7.02  1155.82      .00  1155.29  1156.07      .25     1.80      .00100000.00
    4800.       0.    4800.       0.       0.    1199.       0.      97.      39. 100000.00
      .23      .00     4.00      .00     .055     .045     .045     .000  1148.80  1312.87
  .003705     390.     400.     410.        2        0        0      .00   424.49  1800.00
0
 FLOW DISTRIBUTION FOR SECNO=    137.00          CWSEL=   1155.82

 STA=    1313.    1846.
   PER Q=    100.0
    AREA=   1199.4
     VEL=      4.0

*SECNO 138.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     950.0    1530.0  TYPE=     1  TARGET=     580.000
   138.00     7.81  1157.11      .00  1156.50  1157.29      .17     1.22      .00  1158.00
    4600.       0.    4600.       0.       0.    1370.       0.     108.      43. 100000.00
      .27      .00     3.36      .00     .055     .045     .045     .000  1149.30   964.26
  .002650     400.     390.     380.        3        0        0      .00   491.47  1530.00
0
 FLOW DISTRIBUTION FOR SECNO=    138.00          CWSEL=   1157.11

 STA=     964.    1609.
   PER Q=    100.0
    AREA=   1370.4
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    VEL=      3.4

 *SECNO 139.000

 3265 DIVIDED FLOW

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=     940.0    1590.0  TYPE=     1  TARGET=     650.000
    139.00     6.32  1158.72      .00  1158.41  1159.03      .31     1.74      .00  1159.70
     4600.       0.    4600.       0.       0.    1037.       0.     122.      48. 100000.00
       .30      .00     4.43      .00     .055     .045     .045     .000  1152.40   968.31
   .005013     510.     490.     470.        2        0        0      .00   395.31  1524.96
0
 FLOW DISTRIBUTION FOR SECNO=    139.00          CWSEL=   1158.72

 STA=     968.    1893.
   PER Q=    100.0
    AREA=   1037.4
     VEL=      4.4

 *SECNO 140.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1070.0    1610.0  TYPE=     1  TARGET=     540.000
    140.00     5.79  1161.39      .00  1161.22  1161.70      .31     2.67      .00100000.00
     4600.       0.    4600.       0.       0.    1032.       0.     134.      53. 100000.00
       .33      .00     4.46      .00     .055     .045     .045     .000  1155.60  1077.54
   .005709     510.     500.     490.        4        0        0      .00   430.54  1610.00

 FLOW DISTRIBUTION FOR SECNO=    140.00          CWSEL=   1161.39

 STA=    1078.    1893.
   PER Q=    100.0
    AREA=   1031.5
     VEL=      4.5

 *SECNO 141.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1230.0    1570.0  TYPE=     1  TARGET=     340.000
    141.00     5.57  1163.57      .00  1163.17  1163.84      .28     2.14      .00100000.00
     4600.       0.    4600.       0.       0.    1090.       0.     146.      57. 100000.00
       .36      .00     4.22      .00     .055     .045     .045     .000  1158.00  1230.00
   .003335     500.     500.     500.        2        0        0      .00   326.33  1570.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    141.00          CWSEL=   1163.57

 STA=    1230.    1620.
   PER Q=    100.0
    AREA=   1089.8
     VEL=      4.2

 *SECNO 142.000

 3470 ENCROACHMENT STATIONS=    1340.0    1580.0  TYPE=     1  TARGET=     240.000
    142.00     6.28  1165.18      .00  1164.68  1165.68      .50     1.84      .00  1165.80
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    4600.       0.    4600.       0.       0.     807.       0.     157.      60.   1165.60
      .39      .00     5.70      .00     .055     .045     .045     .000  1158.90  1348.83
  .004068     500.     500.     520.        3        0        0      .00   179.84  1528.67
0
 FLOW DISTRIBUTION FOR SECNO=    142.00          CWSEL=   1165.18

 STA=    1349.    1540.
   PER Q=    100.0
    AREA=    807.0
     VEL=      5.7

 *SECNO 143.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1360.0    1550.0  TYPE=     1  TARGET=     190.000
    143.00     7.49  1167.30      .00  1166.82  1168.09      .80     2.41      .00100000.00
    4400.       0.    4370.      30.       0.     608.      20.     165.      62.   1168.60
      .41      .00     7.19     1.53     .055     .045     .045     .000  1159.80  1360.00
  .005863     500.     500.     510.        2        0        0      .00   164.79  1550.00
0
 FLOW DISTRIBUTION FOR SECNO=    143.00          CWSEL=   1167.30

 STA=    1360.    1493.    1515.    1550.
   PER Q=     99.3       .1       .6
    AREA=    607.5      2.0     17.5
     VEL=      7.2      1.1      1.6

1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 144.000

 3470 ENCROACHMENT STATIONS=    1530.0    1720.0  TYPE=     1  TARGET=     190.000
    144.00     7.71  1169.41      .00  1168.59  1169.81      .40     1.72      .00100000.00
    4400.       0.       0.    4400.       0.       0.     863.     174.      64. 100000.00
      .43      .00      .00     5.10     .055     .045     .045     .000  1161.70  1530.00
  .002223     500.     500.     510.        2        0        0      .00   183.76  1713.76
0
 FLOW DISTRIBUTION FOR SECNO=    144.00          CWSEL=   1169.41

 STA=    1530.    1535.    1582.    1609.    1653.    1693.    1708.    1714.
   PER Q=      .3      2.6     11.0     41.7     38.4      5.8       .1
    AREA=      8.5     62.3    117.7    317.0    288.6     65.8      2.9
     VEL=      1.7      1.9      4.1      5.8      5.9      3.9      1.0

 *SECNO 145.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1475.0    1725.0  TYPE=     1  TARGET=     250.000
    145.00     7.14  1170.64      .00  1169.95  1171.04      .40     1.23      .00100000.00
    4400.       0.    4400.       0.       0.     869.       0.     183.      66.   1171.50
      .46      .00     5.06      .00     .055     .045     .045     .000  1163.50  1475.00
  .002779     500.     500.     490.        3        0        0      .00   168.59  1668.63
0
 FLOW DISTRIBUTION FOR SECNO=    145.00          CWSEL=   1170.64

 STA=    1475.    1690.
   PER Q=    100.0
    AREA=    869.1
     VEL=      5.1

 *SECNO 146.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1480.0    1800.0  TYPE=     1  TARGET=     320.000
    146.00     7.62  1172.02      .00  1171.58  1172.28      .25     1.24      .00100000.00
    4400.       0.    3020.    1380.       0.     724.     366.     195.      69.   1173.50
```

```
      .49      .00     4.17     3.77     .055     .045     .045     .000  1164.40  1480.00
   .002239     510.     500.     490.        2        0        0      .00   266.83  1800.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    146.00          CWSEL=   1172.02

 STA=    1480.    1678.    1766.    1795.    1800.
   PER Q=     68.6     13.0     16.9      1.5
    AREA=    723.8    188.9    154.8     22.5
     VEL=      4.2      3.0      4.8      2.9

 *SECNO 147.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1230.0    1540.0  TYPE=     1  TARGET=     310.000
    147.00     7.26  1173.26      .00  1173.20  1173.69      .44     1.42      .00100000.00
     4400.       0.    3388.    1012.       0.     604.     240.     206.      72.   1175.00
       .52      .00     5.61     4.23     .055     .045     .045     .000  1166.00  1230.00
   .003692     500.     500.     500.        2        0        0      .00   213.27  1498.10
0
 FLOW DISTRIBUTION FOR SECNO=    147.00          CWSEL=   1173.26

 STA=    1230.    1390.    1432.    1483.    1498.
   PER Q=     77.0      4.1     18.3       .6
    AREA=    604.3     49.2    175.9     14.5
     VEL=      5.6      3.6      4.6      1.9

 *SECNO 148.000

 3265 DIVIDED FLOW

 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=    1050.0    1370.0  TYPE=     1  TARGET=     320.000
    148.00     7.19  1175.09  1174.38  1175.37  1176.74     1.65     3.04       .00  1175.40
     4400.       0.    4358.      42.       0.     421.      20.     213.      74.   1175.80
       .53      .00    10.35     2.09     .055     .045     .045     .000  1167.90  1123.59
   .011852     500.     500.     500.        6       11        0      .00   128.98  1294.15
0
 FLOW DISTRIBUTION FOR SECNO=    148.00          CWSEL=   1175.09

 STA=    1124.    1210.    1277.    1294.
   PER Q=     99.1       .6       .4
    AREA=    421.3     12.4      7.5
     VEL=     10.3      2.1      2.1

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 149.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=     860.0    1170.0  TYPE=     1  TARGET=     310.000
    149.00     7.36  1178.66      .00  1178.12  1178.97      .31     2.23       .00  1178.20
     4400.       8.    4351.      41.      14.     970.      28.     221.      76.   1178.30
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      .57      .56     4.48     1.47     .055     .045     .045     .000  1171.30   860.00
   .002324     500.     500.     500.        2        0        0      .00   286.81  1170.00
0
 FLOW DISTRIBUTION FOR SECNO=    149.00          CWSEL=   1178.66

 STA=     860.     909.    1112.    1150.    1170.
   PER Q=       .2     98.9       .1       .8
    AREA=     13.7    970.3      6.1     22.0
     VEL=       .6      4.5      1.0      1.6

 *SECNO 150.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1220.0    1500.0  TYPE=     1  TARGET=     280.000
    150.00     6.56  1179.86      .00  1179.53  1180.18      .33     1.21      .00  1180.10
     4200.     347.    3853.       0.     111.     822.       0.     233.      79.   1181.50
       .60     3.14     4.68      .00     .055     .045     .045     .000  1173.30  1238.54
   .002549     500.     500.     500.        3        0        0      .00   206.45  1446.63
0
 FLOW DISTRIBUTION FOR SECNO=    150.00          CWSEL=   1179.86

 STA=    1239.    1253.    1266.    1272.    1468.
   PER Q=      2.0      5.5       .8     91.7
    AREA=     34.9     60.0     15.9    822.5
     VEL=      2.4      3.9      2.1      4.7

 *SECNO 151.000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=     970.0    1300.0  TYPE=     1  TARGET=     330.000
    151.00     6.25  1181.35      .00  1181.22  1182.16      .81     1.97      .00  1181.20
     4200.       0.    4200.       0.       1.     582.       0.     241.      81.   1184.00
       .61      .42     7.22      .00     .055     .045     .045     .000  1175.10   985.13
   .006928     500.     500.     490.        2        0        0      .00   146.44  1131.56
0
 FLOW DISTRIBUTION FOR SECNO=    151.00          CWSEL=   1181.35

 STA=     985.     996.    1154.
   PER Q=       .0    100.0
    AREA=       .8    582.0
     VEL=       .4      7.2

 *SECNO 152.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     990.0    1290.0  TYPE=     1  TARGET=     300.000
    152.00     7.18  1184.28      .00  1184.17  1185.33     1.05     3.17      .00  1183.80
     4200.      69.    4094.      37.      32.     493.      21.     248.      83.   1183.30
       .63     2.12     8.31     1.74     .055     .045     .045     .000  1177.10   990.00
   .005816     510.     500.     500.        2        0        0      .00   158.74  1170.60
0
 FLOW DISTRIBUTION FOR SECNO=    152.00          CWSEL=   1184.28

 STA=     990.    1009.    1053.    1132.    1168.    1171.
   PER Q=      1.5       .1     97.5       .9       .0
    AREA=     27.2      5.3    492.9     21.0       .3
     VEL=      2.4       .8      8.3      1.8       .5

 *SECNO 153.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=     860.0    1210.0  TYPE=     1  TARGET=     350.000
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

   153.00      7.37  1187.07       .00  1186.56  1187.36       .29      2.03       .00100000.00
    4200.        0.    3781.      419.       0.     864.      125.      256.       85.   1188.00
      .66       .00     4.38      3.37      .055     .045      .045      .000  1179.70   872.91
  .003101      500.     490.      480.         2        0         0       .00   300.40  1196.16
0
 FLOW DISTRIBUTION FOR SECNO=    153.00          CWSEL=   1187.07

 STA=     873.    1122.    1145.    1177.    1196.
   PER Q=     90.0      2.6      7.3       .1
    AREA=    863.8     33.0     86.0      5.6
     VEL=      4.4      3.3      3.6       .8

 *SECNO 154.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     600.0    1040.0  TYPE=     1  TARGET=     440.000
   154.00      5.70  1188.50       .00  1188.07  1188.75       .25      1.39       .00  1189.60
    4200.       579.    3621.        0.      196.     876.        0.      268.       89.   1189.10
      .70      2.95     4.13       .00      .055     .045      .045      .000  1182.80   600.00
  .002500      500.     500.      520.         3        0         0       .00   290.09  1023.33
0
 FLOW DISTRIBUTION FOR SECNO=    154.00          CWSEL=   1188.50

 STA=     600.     604.     619.     628.     629.     653.     672.     682.    1026.
   PER Q=       .0      2.6      4.5       .0       .1      4.7      1.7     86.2
    AREA=      2.1     42.3     47.5      2.5      6.4     66.0     29.5    875.8
     VEL=       .9      2.6      3.9       .8       .9      3.0      2.5      4.1

 SECNO 155.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=     610.0     990.0  TYPE=     1  TARGET=     380.000
   155.00      5.79  1190.19       .00  1190.27  1190.97       .78      2.22       .00  1191.80
    4200.       504.    3696.        0.      110.     502.        0.      278.       91.   1190.40
      .72      4.57     7.36       .00      .055     .045      .045      .000  1184.40   610.00
  .009961      500.     500.      500.         2        0         0       .00   202.85   978.25
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=    155.00          CWSEL=   1190.19

 STA=     610.     622.     636.     656.     667.     979.
   PER Q=      1.3       .9      5.8      4.0     88.0
    AREA=     16.4     14.1     46.3     33.3    502.2
     VEL=      3.2      2.7      5.3      5.1      7.4

 *SECNO 156.000

 3470 ENCROACHMENT STATIONS=     870.0    1070.0  TYPE=     1  TARGET=     200.000
   156.00      7.02  1193.92       .00  1193.63  1194.46       .54      3.49       .00100000.00
    4200.        0.    4009.      191.       0.     668.       60.      286.       94.   1192.10
      .74       .00     6.00      3.17      .055     .045      .045      .000  1186.90   870.00
  .005154      510.     500.      500.         2        0         0       .00   200.00  1070.00
0
 FLOW DISTRIBUTION FOR SECNO=    156.00          CWSEL=   1193.92
```

```
 STA=     870.    1032.    1070.
   PER Q=     95.4      4.6
    AREA=    668.0     60.4
     VEL=      6.0      3.2

 *SECNO 157.000

 3470 ENCROACHMENT STATIONS=     900.0    1120.0  TYPE=     1  TARGET=     220.000
    157.00     7.28  1196.08      .00  1195.52  1196.47      .39     2.01      .00  1195.60
     4200.      16.    4184.       0.      17.     836.       0.     295.      96. 100000.00
       .77      .99     5.00      .00     .055     .045     .045     .000  1188.80   900.00
   .003234     500.     500.     500.        3        0        0      .00   220.00  1120.00
0
 FLOW DISTRIBUTION FOR SECNO=    157.00          CWSEL=   1196.08

 STA=     900.     932.    1128.
   PER Q=       .4     99.6
    AREA=     16.6    836.4
     VEL=      1.0      5.0

 *SECNO 158.000

 3470 ENCROACHMENT STATIONS=     830.0    1170.0  TYPE=     1  TARGET=     340.000
    158.00     8.76  1198.16      .00  1197.42  1198.51      .35     2.04      .00  1198.10
     4000.    1023.    2977.       0.     274.     590.       0.     305.      99. 100000.00
       .80     3.74     5.05      .00     .055     .045     .045     .000  1189.40   830.00
   .005395     500.     500.     500.        1        0        0      .00   340.00  1170.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    158.00          CWSEL=   1198.16

 STA=     830.     836.     860.     882.     899.     953.     965.     978.    1233.
   PER Q=       .0       .1      8.0      7.7      3.2      3.9      2.7     74.4
    AREA=      1.1      4.1     72.8     65.7     60.1     38.3     31.6    589.6
     VEL=       .6       .6      4.4      4.7      2.1      4.1      3.5      5.0

 *SECNO 159.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     900.0    1150.0  TYPE=     1  TARGET=     250.000
    159.00     7.61  1200.11      .00  1199.61  1200.69      .58     2.18      .00  1197.90
     4000.     618.    3347.      35.     214.     511.      15.     314.     103.  1197.30
       .82     2.88     6.55     2.24     .060     .045     .060     .000  1192.50   900.00
   .003593     500.     500.     500.        2        0        0      .00   227.76  1150.00
0
 FLOW DISTRIBUTION FOR SECNO=    159.00          CWSEL=   1200.11

 STA=     900.     965.     998.    1014.    1060.    1144.    1150.
   PER Q=       .5      8.4      5.3      1.3     83.7       .9
    AREA=     25.5     95.3     62.3     31.4    511.1     15.5
     VEL=       .8      3.5      3.4      1.7      6.5      2.2

 *SECNO 160.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     840.0    1070.0  TYPE=     1  TARGET=     230.000
    160.00     8.02  1201.92      .00  1201.42  1202.26      .34     1.57      .00  1202.50
     4000.    1275.    2653.      72.     303.     538.      43.     323.     105.  1200.30
       .85     4.21     4.93     1.70     .060     .045     .060     .000  1193.90   864.64
   .002840     500.     490.     500.        2        0        0      .00   197.53  1070.00
0
 FLOW DISTRIBUTION FOR SECNO=    160.00          CWSEL=   1201.92

 STA=     865.     875.     908.     921.    1042.    1070.
   PER Q=      3.1     26.3      2.4     66.3      1.8
    AREA=     43.1    221.2     38.7    537.7     42.6
```

```
     VEL=      2.9      4.8      2.5      4.9      1.7

1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
      Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 161.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     700.0    1280.0  TYPE=     1  TARGET=     580.000
    161.00     6.48  1203.68      .00  1203.23  1203.90      .22     1.64      .00  1203.40
     4000.     703.    3256.      42.     229.     828.      24.     334.     109.   1207.80
       .89     3.07     3.93     1.77     .060     .045     .060     .000  1197.20   711.18
   .003887     480.     500.     540.        2        0        0      .00   449.69  1280.00
0
 FLOW DISTRIBUTION FOR SECNO=    161.00          CWSEL=   1203.68

 STA=     711.     722.     732.     750.     759.     791.     800.     813.     879.    1240.    1270.    1280.
   PER Q=      1.9      1.6      3.3      2.3      1.4      5.0      1.9       .1     81.4       .3       .8
    AREA=     28.5     24.5     42.5     30.3     22.0     45.8     29.4      6.2    828.1      7.5     16.1
     VEL=      2.7      2.7      3.1      3.0      2.6      4.4      2.6       .4      3.9      1.4      2.0

 *SECNO 162.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     870.0    1600.0  TYPE=     1  TARGET=     730.000
    162.00     5.41  1206.01      .00  1205.84  1206.22      .21     2.33      .00  1207.40
     4000.     722.    3278.       0.     246.     849.       0.     347.     115. 100000.00
       .93     2.93     3.86      .00     .060     .045     .060     .000  1200.60   870.00
   .005749     480.     500.     540.        3        0        0      .00   621.79  1600.00
0
 FLOW DISTRIBUTION FOR SECNO=    162.00          CWSEL=   1206.01

 STA=     870.     930.     944.     990.    1109.    1604.
   PER Q=      8.8      3.9      3.8      1.6     82.0
    AREA=    106.1     42.3     57.7     40.3    849.4
     VEL=      3.3      3.7      2.6      1.5      3.9

 *SECNO 163.000

 3265 DIVIDED FLOW

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
      Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 3470 ENCROACHMENT STATIONS=    1160.0    1820.0  TYPE=     1  TARGET=     660.000
    163.00     4.46  1208.76      .00  1208.43  1209.08      .31     2.85      .00  1210.10
     4000.     466.    3534.       0.     136.     768.       0.     358.     120.   1209.30
       .96     3.43     4.60      .00     .060     .045     .060     .000  1204.30  1176.21
   .005701     490.     500.     520.        2        0        0      .00   368.98  1800.12
0
 FLOW DISTRIBUTION FOR SECNO=    163.00          CWSEL=   1208.76

 STA=    1176.    1192.    1197.    1205.    1215.    1290.    1300.    1802.
   PER Q=      1.4      2.3      4.3      1.6      1.2       .8     88.3
    AREA=     23.0     20.9     34.6     21.7     21.5     14.4    768.4
     VEL=      2.4      4.4      5.0      3.0      2.3      2.3      4.6

 SECNO 164.000

 3265 DIVIDED FLOW
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```
 3470 ENCROACHMENT STATIONS=    1240.0    1640.0  TYPE=     1  TARGET=     400.000
    164.00     4.34  1211.04      .00  1210.93  1211.28      .24     2.21      .00  1211.80
     4000.       0.    3997.       3.       0.    1008.       5.     369.     125.   1210.70
       .99      .00     3.96      .67     .060     .045     .060     .000  1206.70  1245.93
   .003515     500.     500.     520.        3        0        0      .00   363.60  1640.00
0
 FLOW DISTRIBUTION FOR SECNO=    164.00          CWSEL=   1211.04

 STA=    1246.    1625.    1640.
   PER Q=     99.9       .1
    AREA=   1008.0      4.8
     VEL=      4.0       .7

 *SECNO 165.000

 3470 ENCROACHMENT STATIONS=    1380.0    1640.0  TYPE=     1  TARGET=     260.000
    165.00     4.02  1213.12      .00  1213.03  1213.55      .43     2.26      .00100000.00
     4000.       0.    4000.       0.       0.     760.       0.     379.     128.   1213.60
      1.02      .00     5.26      .00     .060     .045     .060     .000  1209.10  1380.00
   .006048     500.     500.     500.        2        0        0      .00   256.99  1636.99
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    165.00          CWSEL=   1213.12

 STA=    1380.    1639.
   PER Q=    100.0
    AREA=    760.4
     VEL=      5.3

 *SECNO 166.000

 3470 ENCROACHMENT STATIONS=    1150.0    1390.0  TYPE=     1  TARGET=     240.000
    166.00     4.90  1215.80      .00  1215.21  1216.20      .40     2.65      .00100000.00
     4000.       0.    4000.       0.       0.     789.       0.     388.     131.   1216.60
      1.05      .00     5.07      .00     .060     .045     .060     .000  1210.90  1150.00
   .004692     530.     500.     500.        2        0        0      .00   231.41  1381.41
0
 FLOW DISTRIBUTION FOR SECNO=    166.00          CWSEL=   1215.80

 STA=    1150.    1387.
   PER Q=    100.0
    AREA=    788.8
     VEL=      5.1

 *SECNO 167.000

 3470 ENCROACHMENT STATIONS=    1170.0    1780.0  TYPE=     1  TARGET=     610.000
    167.00     5.46  1218.16      .00  1217.36  1218.33      .18     2.14      .00  1218.20
     4000.       0.    4000.       0.       0.    1187.       0.     400.     136. 100000.00
      1.09      .00     3.37      .00     .060     .045     .060     .000  1212.70  1187.86
   .003764     510.     510.     510.        2        0        0      .00   550.68  1738.54
0
 FLOW DISTRIBUTION FOR SECNO=    167.00          CWSEL=   1218.16

 STA=    1188.    1781.
   PER Q=    100.0
    AREA=   1186.6
     VEL=      3.4

 *SECNO 168.000

 3265 DIVIDED FLOW

1
  09-04-91     14:38:10                                                                          PAGE   93


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
```

```
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     920.0    1740.0  TYPE=     1  TARGET=     820.000
   168.00     6.04  1220.24      .00  1220.10  1220.51      .27     2.18      .00  1219.80
   4000.       1.    3999.       0.       1.     952.       0.     411.     141. 100000.00
     1.12      .99     4.20      .00     .060     .045     .060     .000  1214.20   920.00
  .006442    500.     450.     420.        2        0        0      .00   476.26  1695.77
0
 FLOW DISTRIBUTION FOR SECNO=    168.00          CWSEL=   1220.24

 STA=     920.     922.    1744.
   PER Q=       .0    100.0
    AREA=       .8    951.7
     VEL=      1.0      4.2

 *SECNO 169.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1000.0    2000.0  TYPE=     1  TARGET=    1000.000
   169.00     4.05  1222.05      .00  1221.69  1222.15      .10     1.64      .00  1222.10
    4000.       1.    3999.       0.       2.    1543.       0.     423.     147.   1222.90
     1.16      .70     2.59      .00     .060     .045     .060     .000  1218.00  1000.00
  .002616    500.     420.     420.        3        0        0      .00   812.19  1967.27
0
 FLOW DISTRIBUTION FOR SECNO=    169.00          CWSEL=   1222.05

 STA=    1000.    1004.    1970.
   PER Q=       .0    100.0
    AREA=      2.0   1542.6
     VEL=       .7      2.6

 *SECNO 170.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1060.0    1980.0  TYPE=     1  TARGET=     920.000
   170.00     2.98  1223.88      .00  1223.33  1224.13      .25     1.97      .00  1224.70
    4000.       0.    4000.       0.       0.    1001.       0.     436.     155. 100000.00
     1.19      .00     3.99      .00     .060     .045     .060     .000  1220.90  1082.87
  .009420    510.     440.     380.        2        0        0      .00   718.18  1979.69
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=    170.00          CWSEL=   1223.88

 STA=    1083.    1993.
   PER Q=    100.0
    AREA=   1001.4
     VEL=      4.0

 *SECNO 171.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1500.0    2270.0  TYPE=     1  TARGET=     770.000
   171.00     4.28  1227.58      .00  1226.88  1227.79      .22     3.67      .00  1227.30
    4000.       7.    3993.       0.       9.    1068.       0.     448.     163. 100000.00
     1.23      .72     3.74      .00     .060     .045     .060     .000  1223.30  1500.00
  .005879    500.     500.     520.        4        0        0      .00   632.42  2270.00
0
 FLOW DISTRIBUTION FOR SECNO=    171.00          CWSEL=   1227.58

 STA=    1500.    1540.    2433.
   PER Q=       .2     99.8
    AREA=      9.4   1067.7
     VEL=       .7      3.7
```

```
*SECNO 172.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1660.0    2660.0  TYPE=     1  TARGET=    1000.000
   172.00     4.32  1230.42      .00  1229.57  1230.59      .16     2.79      .00  1230.00
    4000.       1.    3999.       0.       1.    1233.       0.     461.     171. 100000.00
     1.27      .91     3.24      .00     .060     .045     .060     .000  1226.10  1660.00
  .005313     500.     500.     500.        4        0        0      .00   789.66  2660.00
0
 FLOW DISTRIBUTION FOR SECNO=    172.00          CWSEL=   1230.42

 STA=    1660.    1662.    2675.
   PER Q=       .0    100.0
    AREA=      1.0   1233.2
     VEL=       .9      3.2

1
  09-04-91     14:38:10                                                                                                PAGE   95


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 173.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1830.0    2960.0  TYPE=     1  TARGET=    1130.000
   173.00     4.34  1233.14      .00  1232.48  1233.33      .19     2.74      .00  1232.70
    4000.       7.    3993.       0.       6.    1132.       0.     474.     179.   1233.90
     1.31     1.14     3.53      .00     .060     .045     .060     .000  1228.80  1830.00
  .005672     480.     500.     540.        2        0        0      .00   680.21  2908.28
0
 FLOW DISTRIBUTION FOR SECNO=    173.00          CWSEL=   1233.14

 STA=    1830.    1841.    2958.
   PER Q=       .2     99.8
    AREA=      5.7   1132.4
     VEL=      1.1      3.5

*SECNO 174.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1770.0    2900.0  TYPE=     1  TARGET=    1130.000
   174.00     3.75  1235.85      .00  1235.38  1235.99      .14     2.66      .00  1235.50
    4000.       4.    3995.       1.       4.    1345.       3.     489.     189.   1235.70
     1.36      .88     2.97      .50     .060     .045     .060     .000  1232.10  1770.00
  .004989     490.     500.     540.        3        0        0      .00   964.43  2900.00
0
 FLOW DISTRIBUTION FOR SECNO=    174.00          CWSEL=   1235.85

 STA=    1770.    1782.    2883.    2900.
   PER Q=       .1     99.9       .0
    AREA=      4.4   1345.1      2.6
     VEL=       .9      3.0       .5

*SECNO 175.000

3265 DIVIDED FLOW

1
  09-04-91     14:38:10                                                                                                PAGE   96


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
```

```
3470 ENCROACHMENT STATIONS=    2140.0    3370.0  TYPE=     1  TARGET=    1230.000
   175.00     4.57  1238.87      .00  1238.48  1239.05      .18     3.06      .00  1239.40
    4000.       0.    3473.     527.       0.     990.     231.     504.     200.   1239.00
     1.40      .00     3.51     2.28     .060     .045     .060     .000  1234.30  2234.51
  .006654     530.     530.     580.        3        0        0      .00   955.92  3356.88
0
 FLOW DISTRIBUTION FOR SECNO=    175.00          CWSEL=   1238.87

STA=    2235.    3035.    3194.    3268.    3271.    3290.    3345.    3357.
  PER Q=     86.8       .8      1.7       .4      3.2      6.5       .6
   AREA=    989.8     36.6     45.9      6.4     39.3     91.1     11.7
    VEL=      3.5       .9      1.5      2.6      3.3      2.8      2.0

*SECNO 176.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2290.0    3610.0  TYPE=     1  TARGET=    1320.000
   176.00     3.94  1241.44      .00  1240.98  1241.60      .16     2.56      .00  1240.50
    3800.      15.    2899.     886.      16.     820.     416.     517.     210.   1241.90
     1.44      .95     3.54     2.13     .060     .045     .060     .000  1237.50  2290.00
  .005318     480.     430.     430.        2        0        0      .00   889.57  3610.00
0
 FLOW DISTRIBUTION FOR SECNO=    176.00          CWSEL=   1241.44

STA=    2290.    2460.    3145.    3438.    3493.    3529.    3563.    3610.
  PER Q=       .4     76.3      5.9      4.0      4.5      4.8      4.1
   AREA=     15.9    819.6    146.9     70.5     65.5     65.3     68.2
    VEL=       .9      3.5      1.5      2.1      2.6      2.8      2.3

*SECNO 177.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2610.0    3920.0  TYPE=     1  TARGET=    1310.000
   177.00     3.62  1244.12      .00  1243.50  1244.29      .17     2.68      .00  1245.40
    3800.       0.    2630.    1170.       0.     754.     434.     530.     219.   1244.50
     1.48      .00     3.49     2.70     .060     .045     .060     .000  1240.50  2884.84
  .005709     500.     490.     480.        3        0        0      .00   724.32  3920.00
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=    177.00          CWSEL=   1244.12

STA=    2885.    3343.    3667.    3739.    3832.    3842.    3901.    3920.
  PER Q=     69.2       .6      6.4      8.2      1.8     12.7      1.2
   AREA=    754.0     13.1    102.0    132.3     21.6    142.9     21.8
    VEL=      3.5      1.6      2.4      2.4      3.1      3.4      2.1

*SECNO 178.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2530.0    3730.0  TYPE=     1  TARGET=    1200.000
   178.00     3.09  1246.99      .00  1246.24  1247.19      .20     2.90      .00  1248.10
    3800.       1.    2369.    1431.       2.     670.     385.     542.     226.   1248.30
     1.52      .40     3.53     3.71     .060     .045     .060     .000  1243.90  2530.00
  .007336     450.     450.     450.        4        0        0      .00   694.40  3719.35
0
 FLOW DISTRIBUTION FOR SECNO=    178.00          CWSEL=   1246.99

STA=    2530.    2549.    3227.    3563.    3595.    3626.    3642.    3705.    3719.
  PER Q=       .0     62.3      1.8      5.1      3.7      3.7     21.8      1.6
   AREA=      1.6    670.3     28.2     59.6     49.2     38.0    188.2     22.0
    VEL=       .4      3.5      2.4      3.2      2.9      3.7      4.4      2.8

*SECNO 179.000

3265 DIVIDED FLOW
```

```
3280 CROSS SECTION    179.00 EXTENDED       .38 FEET


3470 ENCROACHMENT STATIONS=    2940.0    3980.0  TYPE=     1  TARGET=    1040.000
   179.00     4.28  1250.08      .00  1249.16  1250.22      .14     3.03      .00  1251.10
    3800.     549.    1919.    1332.     233.     590.     449.     555.     235.   1250.10
     1.56     2.35     3.25     2.96     .060     .045     .060     .000  1245.80  2940.00
  .005102     500.     500.     500.        3        0        0      .00   916.89  3980.00
0
 FLOW DISTRIBUTION FOR SECNO=    179.00          CWSEL=   1250.08

 STA=    2940.    3060.    3085.    3102.    3171.    3657.    3867.    3903.    3940.    3967.    3980.
   PER Q=      3.3      4.0      4.7      2.5     50.5      6.4      9.6     13.7      4.9       .4
    AREA=     78.7     51.6     48.9     54.0    589.8    146.3    103.6    128.1     61.3     10.0
     VEL=      1.6      3.0      3.6      1.8      3.3      1.7      3.5      4.1      3.1      1.4

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 180.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    2920.0    3700.0  TYPE=     1  TARGET=     780.000
   180.00     3.90  1252.70      .00  1251.84  1253.02      .32     2.80      .00  1253.40
    3800.     180.    2747.     873.      92.     544.     299.     568.     244.   1252.10
     1.60     1.96     5.05     2.92     .060     .045     .060     .000  1248.80  3036.45
  .006177     500.     500.     500.        3        0        0      .00   533.51  3700.00
0
 FLOW DISTRIBUTION FOR SECNO=    180.00          CWSEL=   1252.70

 STA=    3036.    3050.    3085.    3129.    3158.    3376.    3461.    3485.    3607.    3665.    3696.    3700.
   PER Q=       .8      2.1       .6      1.3     72.3      2.4       .3       .6      9.0      9.4      1.4
    AREA=     15.3     37.8     12.6     26.4    543.6     59.3      9.7     10.9    112.3     90.0     16.6
     VEL=      2.1      2.1      1.8      1.8      5.1      1.5      1.1      1.9      3.0      4.0      3.2

 *SECNO 181.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    2980.0    3500.0  TYPE=     1  TARGET=     520.000
   181.00     4.67  1255.87      .00  1254.91  1256.33      .46     3.31      .00  1255.90
    3800.       7.    3784.       9.       11.     694.       6.     577.     248.   1255.30
     1.62      .70     5.45     1.45     .060     .045     .060     .000  1251.20  3168.40
  .007409     500.     490.     490.        3        0        0      .00   328.56  3500.00
0
 FLOW DISTRIBUTION FOR SECNO=    181.00          CWSEL=   1255.87

 STA=    3168.    3186.    3226.    3490.    3500.
   PER Q=       .1       .1     99.6       .2
    AREA=      3.2      7.5    694.2      6.1
     VEL=       .7       .7      5.5      1.4

 *SECNO 182.000

 3470 ENCROACHMENT STATIONS=    2780.0    3250.0  TYPE=     1  TARGET=     470.000
   182.00     5.14  1258.44      .00  1257.65  1258.73      .29     2.40      .00  1257.70
    3800.     917.    2839.      45.     438.     585.      35.     587.     253.   1257.60
     1.65     2.09     4.85     1.26     .060     .045     .060     .000  1253.30  2780.00
  .003466     490.     490.     500.        2        0        0      .00   470.00  3250.00
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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```
FLOW DISTRIBUTION FOR SECNO=    182.00          CWSEL=   1258.44

STA=    2780.    2815.    2839.    2957.    2977.    2996.    3025.    3059.    3207.    3250.
  PER Q=      .7      1.7     11.4      3.9      3.3      1.7      1.3     74.7      1.2
   AREA=    24.6     35.1    205.3     53.5     47.2     38.2     33.7    585.2     35.4
    VEL=     1.1      1.9      2.1      2.7      2.7      1.7      1.5      4.9      1.3

 NO 183.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2760.0    3290.0  TYPE=     1  TARGET=     530.000
   183.00     4.78  1261.08      .00  1260.75  1261.42      .35     2.70      .00  1262.00
    3800.       3.    3797.       0.       5.     802.       0.     599.     258. 100000.00
     1.69      .65     4.73      .00     .060     .045     .060     .000  1256.30  2760.00
  .006835     570.     570.     580.        2        0        0      .00   379.77  3290.00
0
 FLOW DISTRIBUTION FOR SECNO=    183.00          CWSEL=   1261.08

 STA=    2760.    2790.    3325.
   PER Q=      .1     99.9
    AREA=     5.4    802.4
     VEL=      .6      4.7

 *SECNO 184.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    2500.0    3050.0  TYPE=     1  TARGET=     550.000
    184.00     5.61  1264.31      .00  1264.01  1264.77      .47     3.35      .00  1265.40
    3800.       39.    3761.       0.       30.     684.       0.     608.     262. 100000.00
     1.71     1.31     5.50      .00     .060     .045     .060     .000  1258.70  2611.21
  .006306     520.     510.     500.        3        0        0      .00   286.29  3050.00
0
 FLOW DISTRIBUTION FOR SECNO=    184.00          CWSEL=   1264.31

 STA=    2611.    2622.    2646.    2677.    2687.    3178.
   PER Q=      .3      .6      .1      .0     99.0
    AREA=     7.1     15.7      5.1     2.4    683.7
     VEL=     1.5      1.5      .8      .8      5.5

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 185.000

 3470 ENCROACHMENT STATIONS=    2100.0    2800.0  TYPE=     1  TARGET=     700.000
    185.00     5.53  1266.93      .00  1266.70  1267.24      .32     2.47      .00  1268.60
    3800.       0.    3800.       0.       0.     840.       0.     617.     265. 100000.00
     1.74      .00     4.52      .00     .060     .045     .060     .000  1261.40  2530.72
  .004205     480.     485.     490.        3        0        0      .00   269.28  2800.00
0
 FLOW DISTRIBUTION FOR SECNO=    185.00          CWSEL=   1266.93

 STA=    2531.    2916.
   PER Q=    100.0
    AREA=    839.9
     VEL=      4.5

 *SECNO 186.000

 3470 ENCROACHMENT STATIONS=    1820.0    2540.0  TYPE=     1  TARGET=     720.000
    186.00     4.39  1270.29      .00  1269.81  1270.73      .44     3.49      .00  1269.90
    3800.     779.    2948.      73.     219.     510.      25.     626.     270.  1269.40
     1.77     3.56     5.78     2.88     .060     .045     .060     .000  1265.90  2039.22
   012947     520.     510.     510.        3        0        0      .00   500.78  2540.00

 FLOW DISTRIBUTION FOR SECNO=    186.00          CWSEL=   1270.29

 STA=    2039.    2112.    2124.    2170.    2190.    2249.    2517.    2540.
```

```
  PER Q=      6.0      4.1      3.1      5.1      2.1     77.6      1.9
   AREA=     74.7     30.1     35.5     41.9     36.7    510.4     25.4
    VEL=      3.1      5.2      3.3      4.7      2.2      5.8      2.9

*SECNO 187.000

3265 DIVIDED FLOW

3280 CROSS SECTION    187.00 EXTENDED       .70 FEET


3470 ENCROACHMENT STATIONS=    1630.0    2640.0  TYPE=     1  TARGET=    1010.000
   187.00     4.40  1274.00      .00  1273.06  1274.26      .27     3.53      .00  1273.70
    3800.     142.    3658.       0.     102.     867.       0.     636.     276. 100000.00
     1.80     1.39     4.22      .00     .060     .045     .060     .000  1269.60  1742.02
  .004316     500.     510.     550.        4        0        0      .00   543.68  2640.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=    187.00          CWSEL=   1274.00

STA=    1742.    1753.    1766.    1864.    1888.    1935.    1950.    1957.    2014.    2031.    2325.    2683.
  PER Q=       .4       .5       .0       .0       .3      1.1       .2       .3       .7       .2     96.3
   AREA=     10.8     11.7      3.6      3.6      7.6     19.7      5.3      8.1     17.0     14.6    866.7
    VEL=      1.6      1.6       .5       .5      1.3      2.0      1.3      1.6      1.6       .5      4.2

*SECNO 188.000

3265 DIVIDED FLOW

3280 CROSS SECTION    188.00 EXTENDED       .02 FEET


3470 ENCROACHMENT STATIONS=    1440.0    2530.0  TYPE=     1  TARGET=    1090.000
   188.00     3.51  1276.71      .00  1276.23  1277.21      .50     2.95      .00  1275.00
    3800.     379.    3421.       0.     199.     575.       0.     646.     283. 100000.00
     1.83     1.91     5.95      .00     .060     .045     .060     .000  1273.20  1440.00
  .008527     500.     500.     520.        2        0        0      .00   597.90  2530.00
0
FLOW DISTRIBUTION FOR SECNO=    188.00          CWSEL=   1276.71

STA=    1440.    1683.    1954.    2323.    2562.
  PER Q=      3.0      5.2      1.7     90.0
   AREA=     71.9     75.3     51.3    574.7
    VEL=      1.6      2.6      1.3      6.0

*SECNO 189.000

3265 DIVIDED FLOW

3280 CROSS SECTION    189.00 EXTENDED       .31 FEET


3470 ENCROACHMENT STATIONS=    1190.0    1900.0  TYPE=     1  TARGET=     710.000
   189.00     3.61  1280.21      .00  1279.22  1280.40      .19     3.19      .00  1280.50
    3800.    1135.    2665.       0.     450.     702.       0.     659.     290. 100000.00
     1.87     2.52     3.80      .00     .060     .045     .060     .000  1276.60  1190.00
  .004189     550.     550.     550.        1        0        0      .00   608.96  1900.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=    189.00          CWSEL=   1280.21

STA=    1190.    1259.    1292.    1315.    1391.    1519.    1532.    1924.
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```
  PER Q=      4.3      7.9      3.7      3.5      9.4      1.1     70.1
   AREA=     86.1     93.7     51.0     71.5    127.8     19.7    701.7
    VEL=      1.9      3.2      2.7      1.8      2.8      2.1      3.8

*SECNO 190.000

3265 DIVIDED FLOW

3280 CROSS SECTION    190.00 EXTENDED       .46 FEET


3470 ENCROACHMENT STATIONS=    1210.0    1780.0  TYPE=     1  TARGET=     570.000
   190.00     3.96  1282.36      .00  1281.42  1282.80      .44     2.41      .00  1282.30
    3800.     752.    2839.     210.     249.     478.      79.     669.     296.   1282.50
     1.90     3.02     5.93     2.66     .060     .045     .060     .000  1278.40  1236.20
  .006527     450.     470.     500.        2        0        0      .00   434.71  1780.00
0
 FLOW DISTRIBUTION FOR SECNO=    190.00          CWSEL=   1282.36

 STA=    1236.    1250.    1262.    1331.    1361.    1382.    1404.    1425.    1456.    1517.    1661.    1745.    1780.
   PER Q=      .4       .3       .6      6.1      7.4      4.0       .4       .2       .3     74.7       .5      5.0
    AREA=     9.0      8.6     15.5     66.9     65.7     46.5     11.7      9.4     15.9    478.5     13.0     65.8
     VEL=      1.5      1.5      1.5      3.4      4.3      3.2      1.4       .9       .8      5.9      1.4      2.9

*SECNO 191.000

3265 DIVIDED FLOW

3280 CROSS SECTION    191.00 EXTENDED       .24 FEET


3470 ENCROACHMENT STATIONS=    1510.0    1920.0  TYPE=     1  TARGET=     410.000
   191.00     4.74  1285.74      .00  1284.80  1286.13      .39     3.33      .00  1284.80
    3800.     316.    3434.      50.     111.     661.      29.     678.     300.   1286.20
     1.93     2.85     5.19     1.76     .060     .045     .060     .000  1281.00  1510.00
  .006799     500.     500.     500.        3        0        0      .00   354.87  1920.00
0
1
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   ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=    191.00          CWSEL=   1285.74

 STA=    1510.    1514.    1539.    1556.    1568.    1581.    1860.    1920.
   PER Q=      .4      1.5      1.7      3.0      1.7     90.4      1.3
    AREA=     7.0     26.5     24.5     31.3     21.4    661.3     28.5
     VEL=      2.3      2.2      2.6      3.7      2.9      5.2      1.8

*SECNO 192.000
3280 CROSS SECTION    192.00 EXTENDED       .42 FEET


3470 ENCROACHMENT STATIONS=    1430.0    1790.0  TYPE=     1  TARGET=     360.000
   192.00     4.52  1288.72      .00  1287.71  1289.01      .29     2.87      .00  1287.20
    3800.      94.    3705.       2.      42.     854.       2.     688.     304.   1288.00
     1.96     2.21     4.34     1.15     .060     .045     .060     .000  1284.20  1430.00
  .004913     500.     500.     530.        3        0        0      .00   360.00  1790.00
0
 FLOW DISTRIBUTION FOR SECNO=    192.00          CWSEL=   1288.72

 STA=    1430.    1458.    1788.    1790.
   PER Q=      2.5     97.5       .0
    AREA=    42.2    854.1      1.6
     VEL=      2.2      4.3      1.2

*SECNO 193.000

3470 ENCROACHMENT STATIONS=    1900.0    2170.0  TYPE=     1  TARGET=     270.000
   193.00     4.94  1291.24      .00  1290.65  1291.75      .50     2.74      .00  1290.80
    3800.      27.    3768.       5.      24.     660.       4.     697.     308.   1290.80
     1.98     1.16     5.71     1.11     .060     .045     .060     .000  1286.30  1900.00
  .006427     490.     490.     490.        1        0        0      .00   270.00  2170.00
0
 FLOW DISTRIBUTION FOR SECNO=    193.00          CWSEL=   1291.24
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 STA=    1900.    1953.    2160.    2170.
   PER Q=       .7     99.2       .1
    AREA=     23.6    659.9      4.3
     VEL=      1.2      5.7      1.1

 *SECNO 194.000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=    2140.0    2340.0  TYPE=     1  TARGET=     200.000
    194.00     5.16  1293.96      .00  1293.33  1294.40      .44     2.66      .00  1293.20
     3800.      10.    3789.       1.       7.     708.       2.     705.     311.   1293.50
      2.01     1.32     5.35      .88     .060     .045     .060     .000  1288.80  2140.00
   .004464     500.     500.     500.        1        0        0      .00   200.00  2340.00
0
 FLOW DISTRIBUTION FOR SECNO=    194.00          CWSEL=   1293.96

 STA=    2140.    2150.    2336.    2340.
   PER Q=       .3     99.7       .0
    AREA=      7.3    707.9      1.6
     VEL=      1.3      5.4       .9

 *SECNO 195.000

 3470 ENCROACHMENT STATIONS=    2230.0    2430.0  TYPE=     1  TARGET=     200.000
    195.00     5.71  1296.61      .00  1296.22  1297.16      .55     2.76      .00100000.00
     3800.       0.    3800.       0.       0.     639.       0.     713.     313. 100000.00
      2.03      .00     5.94      .00     .060     .045     .060     .000  1290.90  2230.00
   .006976     500.     500.     500.        1        0        0      .00   200.00  2430.00
0
 FLOW DISTRIBUTION FOR SECNO=    195.00          CWSEL=   1296.61

 STA=    2230.    2430.
   PER Q=    100.0
    AREA=    639.4
     VEL=      5.9

 *SECNO 196.000

 3470 ENCROACHMENT STATIONS=    2000.0    2290.0  TYPE=     1  TARGET=     290.000
    196.00     7.34  1299.74      .00  1299.41  1300.07      .33     2.91      .00100000.00
     3800.       0.    3800.       0.       0.     823.       0.     721.     316. 100000.00
      2.06      .00     4.62      .00     .060     .045     .060     .000  1292.40  2000.00
   .004932     500.     500.     500.        3        0        0      .00   290.00  2290.00
0
 FLOW DISTRIBUTION FOR SECNO=    196.00          CWSEL=   1299.74

 STA=    2000.    2388.
   PER Q=    100.0
    AREA=    822.5
     VEL=      4.6

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 197.000

 3470 ENCROACHMENT STATIONS=    1780.0    2070.0  TYPE=     1  TARGET=     290.000
    197.00     7.26  1301.96      .00  1301.76  1302.34      .38     2.28      .00  1301.20
     3800.     108.    3692.       0.      59.     737.       0.     731.     319. 100000.00
      2.09     1.83     5.01      .00     .060     .045     .060     .000  1294.70  1780.00
   .003772     530.     530.     530.        3        0        0      .00   236.58  2016.58
0
 FLOW DISTRIBUTION FOR SECNO=    197.00          CWSEL=   1301.96
```

```
 STA=    1780.    1789.    1806.    1829.    2074.
   PER Q=      1.1      1.3       .5     97.2
    AREA=     19.3     24.9     14.8    737.1
     VEL=      2.2      2.0      1.2      5.0

 *SECNO 198.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1480.0    1880.0  TYPE=     1  TARGET=     400.000
    198.00     5.55  1303.75      .00  1303.71  1303.96      .21     1.62      .00100000.00
    3700.       0.    3700.       0.       0.    1000.       0.     741.     322. 100000.00
     2.13      .00     3.70      .00     .060     .045     .060     .000  1298.20  1487.38
   .002794     500.     500.     540.        2        0        0      .00   322.80  1826.18
0
 FLOW DISTRIBUTION FOR SECNO=    198.00          CWSEL=   1303.75

 STA=    1487.    1884.
   PER Q=    100.0
    AREA=    999.8
     VEL=      3.7

 *SECNO 199.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1500.0    2080.0  TYPE=     1  TARGET=     580.000
    199.00     3.51  1306.61      .00  1306.58  1307.01      .41     3.05      .00  1310.40
    3600.       0.    3600.       0.       0.     703.       0.     753.     327. 100000.00
     2.16      .00     5.12      .00     .060     .045     .060     .000  1303.10  1568.25
   .012381     580.     600.     660.        4        0        0      .00   425.64  2035.61
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
              QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=    199.00          CWSEL=   1306.61

 STA=    1568.    2082.
   PER Q=    100.0
    AREA=    702.8
     VEL=      5.1

 *SECNO 200.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1260.0    1940.0  TYPE=     1  TARGET=     680.000
    200.00     5.02  1310.42      .00  1310.35  1310.61      .19     3.60      .00  1313.10
    3400.       0.    3400.       0.       0.     964.       0.     763.     333.   1312.90
     2.21      .00     3.53      .00     .060     .045     .060     .000  1305.40  1316.49
   .004055     530.     540.     580.        3        0        0      .00   441.69  1919.05
0
 FLOW DISTRIBUTION FOR SECNO=    200.00          CWSEL=   1310.42

 STA=    1316.    1927.
   PER Q=    100.0
    AREA=    963.6
     VEL=      3.5

 *SECNO 201.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1050.0    1670.0  TYPE=     1  TARGET=     620.000
    201.00     4.48  1313.08      .00  1313.09  1313.29      .21     2.68      .00  1313.80
    3300.       0.    3300.       0.       0.     897.       0.     775.     339.   1315.00
     2.25      .00     3.68      .00     .060     .045     .060     .000  1308.60  1066.40
   .005752     520.     560.     600.        3        0        0      .00   502.79  1655.36
```

```
0
 FLOW DISTRIBUTION FOR SECNO=    201.00          CWSEL=   1313.08

 STA=    1066.    1665.
   PER Q=    100.0
    AREA=    897.4
     VEL=      3.7

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 202.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     850.0    1390.0  TYPE=     1  TARGET=     540.000
    202.00     4.04  1315.54      .00  1315.48  1315.75      .21     2.46      .00100000.00
     3200.      0.    3200.       0.       0.     870.       0.     786.     344.   1317.30
      2.29     .00     3.68      .00     .060     .045     .060     .000  1311.50   850.00
   .004094    490.     510.     540.        2        0        0      .00   376.39  1369.19
0
 FLOW DISTRIBUTION FOR SECNO=    202.00          CWSEL=   1315.54

 STA=     850.    1378.
   PER Q=    100.0
    AREA=    869.6
     VEL=      3.7

 *SECNO 203.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     690.0    1220.0  TYPE=     1  TARGET=     530.000
    203.00     4.10  1318.30      .00  1318.26  1318.51      .21     2.76      .00  1320.10
     3100.      0.    3100.       0.       0.     840.       0.     797.     349.   1320.40
      2.33     .00     3.69      .00     .060     .045     .060     .000  1314.20   724.17
   .006074    540.     560.     590.        2        0        0      .00   488.34  1212.85
0
 FLOW DISTRIBUTION FOR SECNO=    203.00          CWSEL=   1318.30

 STA=     724.    1218.
   PER Q=    100.0
    AREA=    840.3
     VEL=      3.7

 *SECNO 204.000

 3265 DIVIDED FLOW

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=     710.0    1340.0  TYPE=     1  TARGET=     630.000
    204.00     4.31  1321.11      .00  1321.01  1321.30      .20     2.79      .00100000.00
     2900.      0.    2900.       0.       0.     815.       0.     806.     355.   1322.00
      2.37     .00     3.56      .00     .060     .045     .060     .000  1316.80   714.01
   .004744    480.     520.     560.        2        0        0      .00   414.91  1314.52
0
 FLOW DISTRIBUTION FOR SECNO=    204.00          CWSEL=   1321.11

 STA=     714.    1327.
   PER Q=    100.0
    AREA=    814.9
```

```
    VEL=      3.6

 *SECNO 205.000

 3265 DIVIDED FLOW

 3470 ENCROACHMENT STATIONS=     690.0    1250.0  TYPE=     1  TARGET=     560.000
    205.00     3.81  1323.81      .00  1323.62  1324.05      .24     2.75      .00  1324.10
    2800.       0.    2800.       0.       0.     711.       0.     815.     360.   1325.50
     2.40      .00     3.94      .00     .060     .045     .060     .000  1320.00   700.54
   .006211     480.     510.     540.        2        0        0      .00   380.75  1213.15
0
 FLOW DISTRIBUTION FOR SECNO=    205.00          CWSEL=   1323.81

 STA=     701.    1218.
   PER Q=    100.0
    AREA=    710.9
     VEL=      3.9

 *SECNO 206.000

 3265 DIVIDED FLOW

 3470 ENCROACHMENT STATIONS=    1090.0    1460.0  TYPE=     1  TARGET=     370.000
    206.00     3.70  1326.30      .00  1326.12  1326.48      .19     2.43      .00100000.00
    2700.       0.    2700.       0.       0.     782.       0.     825.     364. 100000.00
     2.45      .00     3.45      .00     .060     .045     .060     .000  1322.60  1090.00
   .003375     530.     540.     560.        3        0        0      .00   322.24  1422.36
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 DISTRIBUTION FOR SECNO=    206.00          CWSEL=   1326.30

 STA=    1090.    1463.
   PER Q=    100.0
    AREA=    782.1
     VEL=      3.5

 *SECNO 207.000

 3470 ENCROACHMENT STATIONS=     880.0    1200.0  TYPE=     1  TARGET=     320.000
    207.00     4.12  1328.32      .00  1328.37  1328.66      .34     2.18      .00100000.00
    2600.       0.    2600.       0.       0.     556.       0.     832.     367. 100000.00
     2.48      .00     4.67      .00     .060     .045     .060     .000  1324.20   880.00
   .006859     460.     470.     480.        2        0        0      .00   248.62  1128.62
0
 FLOW DISTRIBUTION FOR SECNO=    207.00          CWSEL=   1328.32

 STA=     880.    1204.
   PER Q=    100.0
    AREA=    556.4
     VEL=      4.7

 *SECNO 208.000

 3265 DIVIDED FLOW

 3470 ENCROACHMENT STATIONS=     910.0    1150.0  TYPE=     1  TARGET=     240.000
    208.00     5.79  1330.89      .00  1330.69  1331.32      .43     2.67      .00  1330.90
    2500.       3.    2497.       0.       4.     472.       0.     838.     369.   1332.70
     2.50      .77     5.29      .00     .060     .045     .060     .000  1325.10   910.00
   .004227     490.     500.     540.        1        0        0      .00   131.34  1041.39
0
 DISTRIBUTION FOR SECNO=    208.00          CWSEL=   1330.89

 STA=     910.     921.    1127.
   PER Q=      .1     99.9
    AREA=     3.8    471.9
     VEL=      .8      5.3
```

```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 209.000

3470 ENCROACHMENT STATIONS=     850.0    1030.0  TYPE=     1  TARGET=     180.000
   209.00     5.38  1333.08     .00  1332.61  1333.54     .46     2.22      .00  1334.50
    2300.      0.    2300.      0.       0.     422.      0.     843.     371.   1334.50
     2.53     .00     5.46     .00     .060     .045    .060     .000  1327.70   869.49
  .004304    520.     520.    520.        2        0       0      .00   104.15   973.63
0
 FLOW DISTRIBUTION FOR SECNO=    209.00          CWSEL=   1333.08

 STA=     869.     979.
   PER Q=    100.0
    AREA=    421.6
     VEL=      5.5

*SECNO 210.000

3470 ENCROACHMENT STATIONS=     540.0     800.0  TYPE=     1  TARGET=     260.000
   210.00     4.51  1334.91     .00  1334.46  1335.12     .21     1.58      .00  1335.80
    2200.      0.    2200.      0.       0.     592.      0.     849.     372.   1335.80
     2.57     .00     3.72     .00     .060     .045    .060     .000  1330.40   567.05
  .002346    500.     505.    510.        2        0       0      .00   166.24   733.30
0
 FLOW DISTRIBUTION FOR SECNO=    210.00          CWSEL=   1334.91

 STA=     567.     739.
   PER Q=    100.0
    AREA=    592.0
     VEL=      3.7

*SECNO 211.000

3470 ENCROACHMENT STATIONS=     750.0    1100.0  TYPE=     1  TARGET=     350.000
   211.00     2.80  1336.50     .00  1336.32  1336.86     .36     1.74      .00  1338.70
    2100.      0.    2100.      0.       0.     436.      0.     855.     374.   1338.90
     2.59     .00     4.82     .00     .060     .045    .060     .000  1333.70   825.53
  .006563    480.     480.    480.        0        0       0      .00   179.74  1005.27
0
 FLOW DISTRIBUTION FOR SECNO=    211.00          CWSEL=   1336.50

 STA=     826.    1089.
   PER Q=    100.0
    AREA=    435.6
     VEL=      4.8
```



```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 212.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     810.0    1220.0  TYPE=     1  TARGET=     410.000
   212.00     4.21  1338.71     .00  1338.14  1338.91     .20     2.05      .00  1341.00
    2000.     231.    1769.      0.      93.     479.      0.     861.     376.   1340.50
     2.63     2.50     3.70     .00     .060     .045    .060     .000  1334.50   845.55
  .002570    520.     520.    520.        1        0       0      .00   180.77  1113.99
0
 FLOW DISTRIBUTION FOR SECNO=    212.00          CWSEL=   1338.71

 STA=     846.     855.     872.     881.    1209.
```

```
  PER Q=      1.4      8.8      1.4     88.4
   AREA=     16.5     60.4     15.7    478.6
    VEL=      1.7      2.9      1.8      3.7

*SECNO 213.000

 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=    1000.0    1460.0  TYPE=     1  TARGET=     460.000
   213.00     3.68  1340.48      .00  1339.50  1340.81      .33     1.90      .00  1342.60
    1900.     159.    1741.       0.      50.     368.       0.     866.     378.   1343.50
     2.66     3.16     4.73      .00     .060     .055     .060     .000  1336.80  1033.22
  .006350     500.     500.     500.       2        0        0      .00   138.30  1341.48
0
 FLOW DISTRIBUTION FOR SECNO=    213.00          CWSEL=   1340.48

 STA=    1033.    1041.    1052.    1060.    1437.
  PER Q=      1.3      5.7      1.3     91.6
   AREA=     10.9     28.6     10.9    367.7
    VEL=      2.3      3.8      2.3      4.7

*SECNO 214.000

3265 DIVIDED FLOW

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     720.0     1240.0  TYPE=     1  TARGET=     520.000
   214.00     3.83  1342.63      .00  1342.72  1342.74      .11     1.93      .00  1345.80
    1800.      76.    1724.       0.      51.     628.       0.     872.     380. 100000.00
     2.71     1.50     2.74      .00     .060     .055     .060     .000  1338.80   752.31
  .002718     490.     480.     470.       1        0        0      .00   270.50  1124.06
0
 FLOW DISTRIBUTION FOR SECNO=    214.00          CWSEL=   1342.63

 STA=     752.     773.     793.    1248.
  PER Q=      2.2      2.1     95.8
   AREA=     26.2     24.7    628.4
    VEL=      1.5      1.5      2.7

*SECNO 215.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     560.0     1030.0  TYPE=     1  TARGET=     470.000
   215.00     3.61  1344.31      .00  1344.29  1344.45      .14     1.71      .00  1347.70
    1700.       0.    1638.      62.       0.     536.      38.     880.     383.   1345.70
     2.76      .00     3.06     1.66     .060     .055     .060     .000  1340.70   608.07
  .004514     500.     500.     500.       2        0        0      .00   282.56   924.60
0
 FLOW DISTRIBUTION FOR SECNO=    215.00          CWSEL=   1344.31

 STA=     608.     875.     904.     925.
  PER Q=     96.3      1.6      2.0
   AREA=    536.0     16.7     20.9
    VEL=      3.1      1.7      1.7

*SECNO 216.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     360.0      990.0  TYPE=     1  TARGET=     630.000
   216.00     4.80  1347.30      .00  1347.30  1347.54      .24     3.09      .00  1350.00
    1700.    1308.     392.       0.     308.     146.       0.     887.     387.   1349.70
     2.80     4.25     2.68      .00     .060     .055     .060     .000  1342.50   396.70
  .006069     600.     590.     580.       3        0        0      .00   229.25   921.09
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=    216.00          CWSEL=   1347.30

STA=     397.     415.     451.     467.     479.     493.     521.     530.     534.     629.     636.     982.
  PER Q=      7.7     53.9      7.2      2.7      3.8       .3      1.0       .2       .1       .1     23.0
   AREA=     40.2    170.5     36.7     16.8     23.4      3.6      9.2      2.3      2.2      2.7    146.2
    VEL=      3.2      5.4      3.4      2.7      2.7      1.2      1.9      1.2      1.0      1.0      2.7

*SECNO 217.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     350.0    1150.0  TYPE=     1  TARGET=     800.000
   217.00     5.50  1349.50      .00  1349.50  1349.69      .18     2.15      .00  1352.80
    1700.    1132.     568.       0.     295.     232.       0.     892.     389.  1352.40
     2.84     3.84     2.45      .00     .060     .055     .060     .000  1344.00   368.25
  .003597     470.     460.     450.        2        0        0      .00   213.54  1097.90
0
FLOW DISTRIBUTION FOR SECNO=    217.00          CWSEL=   1349.50

STA=     368.     385.     422.     439.     450.     630.     634.    1100.
  PER Q=      7.7     50.2      8.1       .2       .2       .1     33.4
   AREA=     46.6    191.5     47.1      4.5      3.0      2.3    231.5
    VEL=      2.8      4.5      2.9       .8      1.0      1.0      2.5

*SECNO 218.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     425.0     725.0  TYPE=     1  TARGET=     300.000
   218.00     3.69  1352.39      .00  1352.39  1353.14      .75     3.46      .00  1353.60
    1700.       1.    1699.       0.       1.     244.       0.     896.     391.  1354.50
     2.86      .93     6.95      .00     .060     .055     .060     .000  1348.70   503.07
  .018378     500.     500.     500.        3        0        0      .00    97.69   654.32
0
FLOW DISTRIBUTION FOR SECNO=    218.00          CWSEL=   1352.39

STA=     503.     505.     508.     662.
  PER Q=       .0       .0    100.0
   AREA=       .3       .4    244.4
    VEL=       .9       .9      7.0

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 219.000

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     700.0    1020.0  TYPE=     1  TARGET=     320.000
   219.00     5.05  1355.95      .00  1355.88  1356.04      .09     2.90      .00  1357.60
    1600.       0.    1600.       0.       0.     656.       0.     902.     393. 100000.00
     2.92      .00     2.44      .00     .060     .055     .060     .000  1350.90   713.56
  .002483     540.     530.     530.        3        0        0      .00   267.47   981.02
0
FLOW DISTRIBUTION FOR SECNO=    219.00          CWSEL=   1355.95

STA=     714.    1052.
  PER Q=    100.0
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   AREA=    656.0
    VEL=      2.4

 *SECNO 220.000

 3265 DIVIDED FLOW

 3470 ENCROACHMENT STATIONS=     730.0    1050.0  TYPE=     1  TARGET=     320.000
    220.00     4.17  1357.77      .00  1357.74  1358.07      .30     2.03      .00100000.00
     1600.       0.    1600.       0.       0.     364.       0.     908.     396.   1359.60
      2.96      .00     4.40      .00     .060     .055     .060     .000  1353.60   735.58
   .006337     550.     540.     540.        4        0        0      .00   122.37   932.94
0
 FLOW DISTRIBUTION FOR SECNO=    220.00          CWSEL=   1357.77

 STA=     736.     940.
   PER Q=    100.0
    AREA=    363.9
     VEL=      4.4

 *SECNO 221.000

 3265 DIVIDED FLOW

1
  09-04-91     14:38:10                                                                                                PAGE  115


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=     710.0    1090.0  TYPE=     1  TARGET=     380.000
    221.00     4.86  1360.56      .00  1360.18  1360.85      .29     2.78      .00  1360.70
     1600.     299.     1299.      1.      92.     288.       2.     912.     397.   1361.20
      2.99     3.26     4.51      .59     .060     .055     .060     .000  1355.70   728.76
   .005526     480.     470.     460.        3        0        0      .00   132.44   959.53

 FLOW DISTRIBUTION FOR SECNO=    221.00          CWSEL=   1360.56

 STA=     729.     747.     767.     911.     953.     960.
   PER Q=      9.2      9.5     81.2       .0       .0
    AREA=     45.1     46.8    287.8       .7      1.2
     VEL=      3.3      3.3      4.5       .6       .6

 *SECNO 222.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     720.0    1370.0  TYPE=     1  TARGET=     650.000
    222.00     5.13  1363.43      .00  1362.94  1363.60      .18     2.75      .00  1363.50
     1600.     940.     660.       0.     265.     211.       0.     917.     399.   1364.60
      3.03     3.54     3.13      .00     .060     .055     .060     .000  1358.30   752.46
   .004895     530.     530.     540.        2        0        0      .00   220.46  1182.18
0
 FLOW DISTRIBUTION FOR SECNO=    222.00          CWSEL=   1363.43

 STA=     752.     767.     779.     841.     858.     865.     877.     886.     948.     953.     968.    1188.
   PER Q=      1.1      1.0       .1      4.1      6.9     19.5      3.9      8.8      7.4      6.0     41.2
    AREA=     11.6     10.2      2.6     28.0     26.7     60.9     21.7     46.0     24.3     33.2    210.7
     VEL=      1.5      1.5       .6      2.3      4.1      5.1      2.9      3.1      4.8      2.9      3.1

 *SECNO 223.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     490.0    1480.0  TYPE=     1  TARGET=     990.000
    223.00     4.17  1365.97      .00  1365.92  1366.07      .10     2.47      .00  1367.30
     1500.     950.     550.       0.     391.     197.       0.     924.     403.   1367.20
      3.09     2.43     2.79      .00     .060     .055     .060     .000  1361.80   509.68
   .003698     600.     550.     520.        3        0        0      .00   334.32  1344.03
0
1
  09-04-91     14:38:10                                                                                                PAGE  116
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=    223.00          CWSEL=   1365.97

STA=     510.     539.     600.     615.     625.     672.     685.     700.     737.     764.     833.    1349.
  PER Q=     3.2      5.3     15.8      5.0      8.4      5.6      4.2      7.5      5.5      2.6     36.7
   AREA=    31.0     35.2     61.4     26.7     62.5     31.5     27.9     45.5     39.6     29.6    197.1
    VEL=     1.6      2.3      3.9      2.8      2.0      2.7      2.3      2.5      2.1      1.3      2.8

*SECNO 224.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     490.0    1670.0  TYPE=     1  TARGET=    1180.000
   224.00     5.09  1367.99      .00  1367.89  1368.12      .13     2.04      .00  1370.40
    1500.    1161.     337.       2.     386.     141.       3.     930.     407.   1369.60
     3.14     3.01     2.38      .64     .060     .055     .060     .000  1362.90   537.58
  .006003     440.     440.     440.        2        0        0      .00   374.81  1599.59
0
FLOW DISTRIBUTION FOR SECNO=    224.00          CWSEL=   1367.99

STA=     538.     561.     587.     598.     622.     636.     644.     657.     669.     687.     713.     730.     757.
  PER Q=     3.4     14.2      6.2      4.4     14.6      3.2      5.6      6.5      5.3      3.9      5.4      4.0
   AREA=    24.4     59.4     27.8     24.3     49.5     16.3     26.7     28.7     29.7     27.0     29.7     29.3
    VEL=     2.1      3.6      3.4      2.7      4.4      3.0      3.1      3.4      2.7      2.2      2.7      2.0
STA=     757.     795.    1532.    1600.
  PER Q=      .8     22.5       .1
   AREA=    13.0    141.3      2.5
    VEL=     1.0      2.4       .6

*SECNO 225.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     500.0    1650.0  TYPE=     1  TARGET=    1150.000
   225.00     3.53  1370.53      .00  1370.52  1370.60      .06     2.48      .00  1374.20
    1400.    1156.     241.       3.     564.     126.       4.     937.     412.   1372.70
     3.21     2.05     1.91      .78     .060     .055     .060     .000  1367.00   500.00
  .003833     520.     520.     520.        2        0        0      .00   545.82  1649.09
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=    225.00          CWSEL=   1370.53

STA=     500.     552.     570.     613.     661.     706.     730.     744.     760.     775.     797.     815.     833.
  PER Q=    15.5      9.6      4.1      4.5      4.6      4.9      5.3      8.2      3.8      4.2      4.2      4.3
   AREA=    88.2     46.8     39.6     43.7     39.4     34.5     29.8     41.0     24.6     30.6     28.5     28.6
    VEL=     2.5      2.9      1.5      1.5      1.6      2.0      2.5      2.8      2.2      1.9      2.1      2.1
STA=     833.     885.     916.     933.    1423.    1649.
  PER Q=     3.5      4.8       .9     17.2       .2
   AREA=    38.8     38.4     10.9    126.2      3.5
    VEL=     1.2      1.8      1.2      1.9       .8

*SECNO 226.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    1220.0    1600.0  TYPE=     1  TARGET=     380.000
   226.00     2.91  1374.01      .00  1373.32  1374.32      .31     3.72      .00  1374.50
    1400.     830.     570.       0.     175.     138.       0.     943.     417.   1374.90
     3.24     4.74     4.11      .00     .060     .055     .060     .000  1371.10  1220.00
  .020261     500.     500.     500.        4        0        0      .00   257.27  1530.80
0
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```
 FLOW DISTRIBUTION FOR SECNO=    226.00          CWSEL=   1374.01

 STA=    1220.    1224.    1257.    1309.    1353.    1573.
   PER Q=      3.3     31.5     20.4      4.1     40.7
    AREA=      9.5     73.8     67.8     24.2    138.5
     VEL=      4.8      6.0      4.2      2.4      4.1

 *SECNO 227.000

 3470 ENCROACHMENT STATIONS=    1280.0    1590.0  TYPE=     1  TARGET=     310.000
    227.00     3.73  1377.73      .00  1377.27  1377.82      .09     3.50      .00  1377.70
     1400.       0.    1399.       1.       0.     576.       1.     948.     420.   1377.00
      3.30      .01     2.43      .92     .060     .055     .060     .000  1374.00  1280.00
   .003514     500.     500.     500.        5        0        0      .00   310.00  1590.00
0
 FLOW DISTRIBUTION FOR SECNO=    227.00          CWSEL=   1377.73

 STA=    1280.    1589.    1590.
   PER Q=     99.9       .1
    AREA=    575.9      1.1
     VEL=      2.4       .9

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 228.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     870.0    1120.0  TYPE=     1  TARGET=     250.000
    228.00     4.79  1379.89      .00  1379.58  1380.13      .24     2.30      .00  1379.50
     1300.      64.    1231.       5.      49.     306.       4.     954.     423.   1380.00
      3.33     1.30     4.02     1.30     .060     .055     .060     .000  1375.10   870.00
   .006471     500.     500.     500.        4        0        0      .00   226.50  1120.00
0
 FLOW DISTRIBUTION FOR SECNO=    228.00          CWSEL=   1379.89

 STA=     870.     879.     969.    1091.    1120.
   PER Q=      1.4      3.5     94.7       .4
    AREA=      9.6     39.8    305.9      4.2
     VEL=      1.9      1.1      4.0      1.3

 *SECNO 229.000

 3470 ENCROACHMENT STATIONS=    1000.0    1330.0  TYPE=     1  TARGET=     330.000
    229.00     4.37  1382.67      .00  1382.28  1382.75      .08     2.62      .00100000.00
     1200.       0.    1200.       0.       0.     520.       0.     959.     426. 100000.00
      3.40      .00     2.31      .00     .060     .055     .060     .000  1378.30  1018.76
   .003705     540.     540.     530.        3        0        0      .00   311.24  1330.00
0
 FLOW DISTRIBUTION FOR SECNO=    229.00          CWSEL=   1382.67

 STA=    1019.    1381.
   PER Q=    100.0
    AREA=    520.1
     VEL=      2.3

 *SECNO 230.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    1110.0    1470.0  TYPE=     1  TARGET=     360.000
    230.00     3.63  1384.93      .00  1384.83  1385.02      .09     2.27      .00100000.00
     1100.       0.    1100.       0.       0.     469.       0.     965.     430. 100000.00
      3.46      .00     2.35      .00     .060     .055     .060     .000  1381.30  1110.00
   .005080     530.     530.     530.        3        0        0      .00   345.64  1470.00

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  09-04-91     14:38:10                                                                                PAGE  119
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=    230.00          CWSEL=   1384.93

 STA=    1110.    1502.
   PER Q=    100.0
    AREA=    469.0
     VEL=      2.3

 *SECNO 231.000

 3470 ENCROACHMENT STATIONS=    1240.0    1540.0  TYPE=     1  TARGET=     300.000
    231.00     2.76  1387.86      .00  1387.10  1388.01      .15     2.99      .00  1387.30
     1000.     263.     493.     244.     103.     145.      84.     969.     433.   1387.80
      3.50     2.55     3.40     2.89     .060     .055     .060     .000  1385.10  1240.00
   .008843     460.     460.     460.        2        0        0      .00   252.89  1492.89
0
 FLOW DISTRIBUTION FOR SECNO=    231.00          CWSEL=   1387.86

 STA=    1240.    1258.    1284.    1339.    1432.    1467.    1493.
   PER Q=       .6      7.0     18.7     49.3     14.0     10.4
    AREA=      5.8     28.2     69.1    144.9     48.0     36.3
     VEL=      1.1      2.5      2.7      3.4      2.9      2.9

 *SECNO 232.000

 3470 ENCROACHMENT STATIONS=    1360.0    1550.0  TYPE=     1  TARGET=     190.000
    232.00     3.16  1391.66      .00  1391.17  1391.78      .13     3.78      .00  1390.80
      900.     330.     472.      99.     139.     143.      53.     974.     436.   1390.60
      3.56     2.37     3.30     1.86     .060     .055     .060     .000  1388.50  1360.00
   .004665     600.     590.     590.        4        0        0      .00   190.00  1550.00
0
 FLOW DISTRIBUTION FOR SECNO=    232.00          CWSEL=   1391.66

 STA=    1360.    1412.    1427.    1446.    1505.    1550.
   PER Q=     27.1      6.5      3.0     52.4     11.0
    AREA=     96.8     24.7     17.3    142.7     53.2
     VEL=      2.5      2.4      1.6      3.3      1.9

 *SECNO 233.000

 3470 ENCROACHMENT STATIONS=     740.0     880.0  TYPE=     1  TARGET=     140.000
    233.00     3.46  1393.96      .00  1393.50  1394.14      .17     2.35      .00  1393.00
      900.       2.     516.     383.       1.     139.     138.     977.     438.   1393.30
      3.60     1.29     3.71     2.77     .060     .055     .060     .000  1390.50   740.00
   .005709     460.     460.     450.        3        0        0      .00   140.00   880.00
0
1
  09-04-91     14:38:10                                                                          PAGE  120

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=    233.00          CWSEL=   1393.96

 STA=     740.     741.     798.     821.     841.     878.     880.
   PER Q=       .2     57.3     16.1     16.8      9.1       .5
    AREA=      1.3    139.0     48.1     46.5     40.5      2.8
     VEL=      1.3      3.7      3.0      3.3      2.0      1.6

 *SECNO 234.000

 3470 ENCROACHMENT STATIONS=     860.0    1010.0  TYPE=     1  TARGET=     150.000
    234.00     3.81  1396.71      .00  1396.17  1396.88      .18     2.75      .00  1395.90
      800.     224.     532.      43.      91.     141.      27.     980.     440.   1396.00
      3.64     2.46     3.78     1.60     .060     .055     .060     .000  1392.90   860.00
   .005432     490.     490.     500.        3        0        0      .00   150.00  1010.00
0
 FLOW DISTRIBUTION FOR SECNO=    234.00          CWSEL=   1396.71

 STA=     860.     864.     875.     889.     910.     925.     978.    1002.    1010.
   PER Q=       .9      1.9      9.5     13.7      2.1     66.5      3.9      1.6
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   AREA=      4.3      9.3     26.8     39.9     11.0    140.9     19.6      7.5
    VEL=      1.6      1.6      2.8      2.7      1.5      3.8      1.6      1.7

*SECNO 235.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     800.0     960.0  TYPE=     1  TARGET=     160.000
   235.00     3.87  1399.47      .00  1398.98  1399.62      .15     2.74      .00  1399.10
     700.     303.     384.      13.     116.     109.       7.     983.     441.   1398.20
     3.68     2.61     3.54     1.90     .060     .055     .060     .000  1395.60   800.00
  .005687     490.     495.     500.        0        0        0      .00   140.68   960.00
0
 FLOW DISTRIBUTION FOR SECNO=    235.00          CWSEL=   1399.47

 STA=     800.     803.     833.     853.     869.     907.     954.     960.
   PER Q=     1.2      9.6     19.4     12.7       .3     54.9      1.9
    AREA=     4.5     33.6     43.2     31.3      3.5    108.5      7.0
     VEL=     1.9      2.0      3.1      2.8       .6      3.5      1.9

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  09-04-91     14:38:10                                                                                    PAGE  121


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 236.000

 3470 ENCROACHMENT STATIONS=     530.0     700.0  TYPE=     1  TARGET=     170.000
   236.00     3.69  1402.09      .00  1401.78  1402.25      .16     2.63      .00  1401.60
     600.      62.     485.      53.      50.     139.      35.     986.     443.   1401.30
     3.73     1.25     3.49     1.51     .060     .055     .060     .000  1398.40   530.00
  .004613     510.     510.     510.        3        0        0      .00   170.00   700.00
0
 FLOW DISTRIBUTION FOR SECNO=    236.00          CWSEL=   1402.09

 STA=     530.     573.     607.     660.     700.
   PER Q=     6.4      3.9     80.9      8.8
    AREA=    29.6     20.0    139.2     34.9
     VEL=     1.3      1.2      3.5      1.5

 *SECNO 237.000

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=     640.0     790.0  TYPE=     1  TARGET=     150.000
   237.00     3.72  1404.32      .00  1404.14  1404.43      .11     2.19      .00  1404.70
     500.       0.     484.      16.       0.     178.      16.     988.     445.   1404.50
     3.78      .00     2.71     1.02     .060     .055     .060     .000  1400.60   666.94
  .003946     520.     510.     500.        2        0        0      .00   117.59   790.00
0
 FLOW DISTRIBUTION FOR SECNO=    237.00          CWSEL=   1404.32

 STA=     667.     756.     785.     790.
   PER Q=    96.8      2.1      1.1
    AREA=   178.4     11.4      4.4
     VEL=     2.7       .9      1.3

1
  09-04-91     14:38:10                                                                                    PAGE  122


                                                                                    THIS RUN EXECUTED 09-04-91

 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION AUGUST 1985
   ***************************************************


 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST
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WATERMAN WASH - WEST PRO

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STEN
130.000	1141.38	.00	1141.45	1210.30	.00	1971.13	2828.86	.00	.00	1047.90	1285.40	.00
130.000	1142.31	.93	1142.45	573.08	.00	3124.11	1675.89	700.00	930.00	1047.90	1285.40	1630.00
131.000	1142.41	.00	1142.77	420.14	.00	4719.22	80.78	.00	.00	864.30	1309.00	.00
131.000	1143.24	.83	1143.44	524.22	.00	4660.51	139.49	650.00	850.00	864.30	1309.00	1500.00
132.000	1144.80	.00	1144.99	635.67	.00	4428.29	371.71	.00	.00	790.10	1457.70	.00
132.000	1144.72	-.08	1144.92	617.34	.00	4445.40	354.60	1040.00	800.00	790.10	1457.70	1840.00
133.000	1146.75	.00	1146.94	785.27	77.50	3794.45	928.05	.00	.00	1006.30	1638.10	.00
133.000	1146.78	.03	1146.98	715.30	.00	3854.88	945.12	950.00	1010.00	1006.30	1638.10	1960.00
134.000	1148.89	.00	1149.15	519.57	50.91	4749.09	.00	.00	.00	1119.40	1879.90	.00
134.000	1148.92	.03	1149.18	423.92	.00	4800.00	.00	780.00	1110.00	1119.40	1879.90	1890.00
135.000	1150.98	.00	1151.17	1110.96	27.49	3409.90	1362.61	.00	.00	1275.50	1704.70	.00
135.000	1151.22	.23	1151.52	460.02	.00	4325.59	474.41	710.00	1180.00	1275.50	1704.70	1890.00
136.000	1153.25	.00	1153.72	632.71	549.87	4250.13	.00	.00	.00	1264.30	1587.40	.00
136.000	1153.79	.54	1154.27	255.75	.00	4800.00	.00	515.00	1175.00	1264.30	1587.40	1690.00
137.000	1155.29	.00	1155.41	1083.68	1537.95	3262.05	.00	.00	.00	1308.90	1845.60	.00
137.000	1155.82	.54	1156.07	424.49	.00	4800.00	.00	490.00	1310.00	1308.90	1845.60	1800.00
138.000	1156.50	.00	1156.63	1102.91	1190.09	3409.91	.00	.00	.00	957.70	1608.90	.00
138.000	1157.11	.61	1157.29	491.47	.00	4600.00	.00	580.00	950.00	957.70	1608.90	1530.00
139.000	1158.41	.00	1158.72	719.90	327.35	4272.65	.00	.00	.00	965.40	1893.20	.00
139.000	1158.72	.31	1159.03	395.31	.00	4600.00	.00	650.00	940.00	965.40	1893.20	1590.00
140.000	1161.22	.00	1161.38	1274.11	886.23	3713.77	.00	.00	.00	1063.30	1892.60	.00
140.000	1161.39	.17	1161.70	430.54	.00	4600.00	.00	540.00	1070.00	1063.30	1892.60	1610.

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
141.000	1163.17	.00	1163.35	1664.82	233.06	3792.82	574.12	.00	.00	1220.00	1620.00	.00
141.000	1163.57	.40	1163.84	326.33	.00	4600.00	.00	340.00	1230.00	1220.00	1620.00	1570.00
142.000	1164.68	.00	1165.09	906.53	430.00	3972.30	197.70	.00	.00	1346.20	1540.40	.00
142.000	1165.18	.50	1165.68	179.84	.00	4600.00	.00	240.00	1340.00	1346.20	1540.40	1580.00
143.000	1166.82	.00	1167.21	597.77	395.40	3745.97	258.63	.00	.00	1281.00	1493.20	.00
143.000	1167.30	.47	1168.09	164.79	.00	4370.10	29.90	190.00	1360.00	1281.00	1493.20	1550.00
144.000	1168.59	.00	1168.84	678.35	.00	.00	4400.00	.00	.00	.00	.00	.00
144.000	1169.41	.82	1169.81	183.76	.00	.00	4400.00	190.00	1530.00	.00	.00	1720.00
145.000	1169.95	.00	1170.23	400.55	31.94	4081.08	286.98	.00	.00	1290.00	1689.90	.00
145.000	1170.64	.69	1171.04	168.59	.00	4400.00	.00	250.00	1475.00	1290.00	1689.90	1725.00
146.000	1171.58	.00	1171.78	443.22	.29	2704.78	1694.93	.00	.00	1252.50	1677.70	.00
146.000	1172.02	.44	1172.28	266.83	.00	3019.93	1380.07	320.00	1480.00	1252.50	1677.70	1800.00
147.000	1173.20	.00	1173.53	339.15	.00	3296.33	1103.66	.00	.00	1024.10	1390.20	.00
147.000	1173.26	.05	1173.69	213.27	.00	3387.62	1012.38	310.00	1230.00	1024.10	1390.20	1540.00
148.000	1175.37	.00	1176.27	302.95	413.43	3656.14	330.43	.00	.00	1122.50	1209.80	.00
148.000	1175.09	-.28	1176.74	128.98	.00	4358.34	41.66	320.00	1050.00	1122.50	1209.80	1370.00
149.000	1178.12	.00	1178.42	686.58	201.71	3980.29	218.00	.00	.00	909.00	1111.80	.00
149.000	1178.66	.54	1178.97	286.81	7.64	4350.94	41.42	310.00	860.00	909.00	1111.80	1170.00
150.000	1179.53	.00	1179.85	282.59	530.08	3651.23	18.69	.00	.00	1272.80	1468.20	[illegible]
150.000	1179.86	.33	1180.18	206.45	347.20	3852.80	.00	280.00	1220.00	1272.80	1468.20	1500.00
151.000	1181.22	.00	1182.00	259.78	143.91	4056.09	.00	.00	.00	995.60	1153.80	.00
151.000	1181.35	.13	1182.16	146.44	.34	4199.65	.00	330.00	970.00	995.60	1153.80	1300.00

152.000	1184.17	.00	1184.99	280.13	456.80	3718.99	24.20	.00	.00	1052.70	1131.60	.00
152.000	1184.28	.11	1185.33	158.74	68.79	4094.28	36.93	300.00	990.00	1052.70	1131.60	1290.00
153.000	1186.56	.00	1186.81	472.03	644.95	3274.31	280.74	.00	.00	859.50	1122.20	.00
153.000	1187.07	.51	1187.36	300.40	.00	3780.75	419.25	350.00	860.00	859.50	1122.20	1210.00
154.000	1188.07	.00	1188.36	356.03	671.50	3528.50	.00	.00	.00	800.90	1025.80	.00
154.000	1188.50	.43	1188.75	290.09	578.74	3621.26	.00	440.00	600.00	800.90	1025.80	1040.00
155.000	1190.27	.00	1190.97	274.15	560.99	3635.29	3.71	.00	.00	818.20	979.00	.00
155.000	1190.19	-.08	1190.97	202.85	503.58	3696.42	.00	380.00	610.00	818.20	979.00	990.00
156.000	1193.63	.00	1193.95	656.38	728.13	3158.82	313.05	.00	.00	858.40	1032.30	.00
156.000	1193.92	.29	1194.46	200.00	.00	4008.51	191.49	200.00	870.00	858.40	1032.30	1070.00
157.000	1195.52	.00	1195.83	1179.06	481.77	3529.10	189.13	.00	.00	931.80	1128.00	.00
157.000	1196.08	.56	1196.47	220.00	16.38	4183.62	.00	220.00	900.00	931.80	1128.00	1120.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
158.000	1197.42	.00	1197.89	609.69	941.18	3058.82	.00	.00	.00	978.00	1233.20	.00
158.000	1198.16	.74	1198.51	340.00	1023.20	2976.80	.00	340.00	830.00	978.00	1233.20	1170.00
159.000	1199.61	.00	1200.09	649.73	798.40	2979.94	221.66	.00	.00	1060.30	1144.10	.00
159.000	1200.11	.51	1200.69	227.76	618.13	3347.24	34.63	250.00	900.00	1060.30	1144.10	1150.00
160.000	1201.42	.00	1201.64	712.89	1556.62	2200.67	242.71	.00	.00	922.50	1042.20	.00
160.000	1201.92	.50	1202.26	197.53	1274.65	2653.13	72.23	230.00	840.00	922.50	1042.20	1070.00
161.000	1203.23	.00	1203.49	460.24	876.93	2979.01	144.06	.00	.00	878.50	1239.60	.00
161.000	1203.68	.44	1203.90	449.69	702.57	3255.86	41.57	580.00	700.00	878.50	1239.60	1280.00
162.000	1205.84	.00	1205.99	944.29	1230.90	2687.08	82.02	.00	.00	1108.90	1604.30	.00
162.000	1206.01	.17	1206.22	621.79	721.56	3278.44	.00	730.00	870.00	1108.90	1604.30	1600.00
163.000	1208.43	.00	1208.74	481.55	835.43	3164.57	.00	.00	.00	1462.40	1801.70	.00
163.000	1208.76	.33	1209.08	368.98	466.41	3533.59	.00	660.00	1160.00	1462.40	1801.70	1820.00
164.000	1210.93	.00	1211.15	517.28	224.31	3772.78	2.91	.00	.00	1240.60	1624.50	.00
164.000	1211.04	.11	1211.28	363.60	.00	3996.80	3.20	400.00	1240.00	1240.60	1624.50	1640.00
165.000	1213.03	.00	1213.30	544.37	225.16	3443.51	331.33	.00	.00	1297.90	1639.30	.00
165.000	1213.12	.08	1213.55	256.99	.00	4000.00	.00	260.00	1380.00	1297.90	1639.30	1640.00
166.000	1215.21	.00	1215.42	516.76	175.49	3778.40	46.11	.00	.00	954.30	1386.50	.00
166.000	1215.80	.59	1216.20	231.41	.00	4000.00	.00	240.00	1150.00	954.30	1386.50	1390.00
167.000	1217.36	.00	1217.67	385.55	148.31	3851.69	.00	.00	.00	1184.90	1781.00	.00
167.000	1218.16	.80	1218.33	550.68	.00	4000.00	.00	610.00	1170.00	1184.90	1781.00	1780.00
168.000	1220.10	.00	1220.32	901.38	403.22	3483.31	113.47	.00	.00	921.80	1744.40	.00
168.000	1220.24	.13	1220.51	476.26	.79	3999.21	.00	820.00	920.00	921.80	1744.40	1740.00
169.000	1221.69	.00	1221.78	1059.04	949.69	2976.13	74.18	.00	.00	1033.20	1969.60	.00
169.000	1222.05	.35	1222.15	812.19	1.42	3998.58	.00	1000.00	1000.00	1033.20	1969.60	2000.00
170.000	1223.33	.00	1223.58	793.22	1362.59	2457.12	180.29	.00	.00	1079.00	1992.70	.00
170.000	1223.88	.55	1224.13	718.18	.00	4000.00	.00	920.00	1060.00	1079.00	1992.70	1980.00
171.000	1226.88	.00	1227.00	1344.15	1493.11	2506.89	.00	.00	.00	1540.20	2432.80	.00
171.000	1227.58	.70	1227.79	632.42	6.71	3993.29	.00	770.00	1500.00	1540.20	2432.80	2270.00
172.000	1229.57	.00	1229.72	1365.53	1344.16	2598.74	57.10	.00	.00	1662.40	2674.90	.00
172.000	1230.42	.86	1230.59	789.66	.93	3999.07	.00	1000.00	1660.00	1662.40	2674.90	2660.00
173.000	1232.48	.00	1232.61	1441.60	1633.98	2332.44	33.57	.00	.00	1841.40	2957.50	.00
173.000	1233.14	.66	1233.33	680.21	6.50	3993.50	.00	1130.00	1830.00	1841.40	2957.50	2960.00
174.000	1235.38	.00	1235.46	2040.13	1649.40	2256.80	93.79	.00	.00	1781.90	2882.60	.00
174.000	1235.85	.47	1235.99	964.43	3.86	3994.83	1.31	1130.00	1770.00	1781.90	2882.60	2900.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
175.000	1238.48	.00	1238.59	1776.64	1441.58	2260.96	297.46	.00	.00	2233.30	3034.70	.00
175.000	1238.87	.39	1239.05	955.92	.00	3473.22	526.77	1230.00	2140.00	2233.30	3034.70	3370.00
176.000	1240.98	.00	1241.08	1847.57	1440.23	1951.61	408.16	.00	.00	2459.50	3145.10	.00
176.000	1241.44	.46	1241.60	889.57	15.03	2899.28	885.69	1320.00	2290.00	2459.50	3145.10	3610.
177.000	1243.50	.00	1243.63	1339.74	1448.77	1735.66	615.57	.00	.00	2872.70	3343.20	.00
177.000	1244.12	.63	1244.29	724.32	.00	2630.31	1169.69	1310.00	2610.00	2872.70	3343.20	3920.00
178.000	1246.24	.00	1246.35	1347.07	1904.42	867.62	1027.96	.00	.00	2736.80	3227.30	.00
178.000	1246.99	.75	1247.19	694.40	.65	2368.78	1430.57	1200.00	2530.00	2736.80	3227.30	3730.00
179.000	1249.16	.00	1249.25	1424.77	2072.70	772.90	954.40	.00	.00	3284.90	3656.60	.00
179.000	1250.08	.92	1250.22	916.89	549.06	1919.20	1331.73	1040.00	2940.00	3284.90	3656.60	3980.00
180.000	1251.84	.00	1251.98	1037.59	1359.61	1461.17	979.21	.00	.00	3169.30	3376.40	.00
180.000	1252.70	.87	1253.02	533.51	180.48	2746.81	872.71	780.00	2920.00	3169.30	3376.40	3700.00
181.000	1254.91	.00	1255.09	1113.00	1228.63	1842.66	728.71	.00	.00	3228.70	3489.70	.00
181.000	1255.87	.96	1256.33	328.56	7.45	3783.71	8.84	520.00	2980.00	3228.70	3489.70	3500.00
182.000	1257.65	.00	1257.88	1198.36	1552.05	2247.82	.14	.00	.00	3059.10	3206.80	.00
182.000	1258.44	.79	1258.73	470.00	916.78	2838.58	44.64	470.00	2780.00	3059.10	3206.80	3250.00
183.000	1260.75	.00	1260.98	855.68	923.75	2876.25	.00	.00	.00	2903.50	3325.20	.00
183.000	1261.08	.32	1261.42	379.77	3.47	3796.53	.00	530.00	2760.00	2903.50	3325.20	3290.00
184.000	1264.01	.00	1264.29	633.47	496.28	3303.72	.00	.00	.00	2802.00	3177.80	.00
184.000	1264.31	.30	1264.77	286.29	39.47	3760.53	.00	550.00	2500.00	2802.00	3177.80	3050.00
185.000	1266.70	.00	1266.97	445.51	114.16	3685.83	.00	.00	.00	2222.70	2915.50	.00
185.000	1266.93	.23	1267.24	269.28	.00	3800.00	.00	700.00	2100.00	2222.70	2915.50	2800.00
186.000	1269.81	.00	1269.95	1186.18	470.68	1370.73	1958.59	.00	.00	2249.10	2516.70	.00
186.000	1270.29	.48	1270.73	500.78	779.22	2947.85	72.93	720.00	1820.00	2249.10	2516.70	2540.00
187.000	1273.06	.00	1273.21	1076.67	510.25	2320.16	969.59	.00	.00	2324.80	2683.20	.00
187.000	1274.00	.94	1274.26	543.68	141.54	3658.45	.00	1010.00	1630.00	2324.80	2683.20	2640.00
188.000	1276.23	.00	1276.56	1037.65	591.62	2838.57	369.81	.00	.00	2322.70	2562.00	.
188.000	1276.71	.48	1277.21	597.90	378.78	3421.22	.00	1090.00	1440.00	2322.70	2562.00	2530.00
189.000	1279.22	.00	1279.30	1300.70	391.93	1187.94	2220.12	.00	.00	1532.80	1924.40	.00
189.000	1280.21	.99	1280.40	608.96	1135.08	2664.92	.00	710.00	1190.00	1532.80	1924.40	1900.00
190.000	1281.42	.00	1281.72	1133.42	348.35	1966.69	1484.95	.00	.00	1516.90	1661.00	.00
190.000	1282.36	.94	1282.80	434.71	751.76	2838.55	209.69	570.00	1210.00	1516.90	1661.00	1780.00
191.000	1284.80	.00	1284.93	1516.42	155.01	1629.11	2015.88	.00	.00	1580.60	1859.80	.00
191.000	1285.74	.94	1286.13	354.87	315.99	3433.84	50.17	410.00	1510.00	1580.60	1859.80	1920.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
192.000	1287.71	.00	1287.85	1579.91	87.80	1939.47	1772.73	.00	.00	1457.80	1787.80	.00
192.000	1288.72	1.00	1289.01	360.00	93.57	3704.60	1.83	360.00	1430.00	1457.80	1787.80	1790.00
193.000	1290.65	.00	1290.92	1119.72	259.76	2605.63	934.61	.00	.00	1952.60	2160.20	.00
193.000	1291.24	.60	1291.75	270.00	27.21	3768.03	4.76	270.00	1900.00	1952.60	2160.20	2170.00
194.000	1293.33	.00	1293.64	924.13	269.64	2956.06	574.31	.00	.00	2149.50	2336.40	.00
194.000	1293.96	.63	1294.40	200.00	9.70	3788.91	1.39	200.00	2140.00	2149.50	2336.40	2340.00
195.000	1296.22	.00	1296.60	589.93	337.18	3036.19	426.63	.00	.00	2221.30	2430.20	.00
195.000	1296.61	.39	1297.16	200.00	.00	3800.00	.00	200.00	2230.00	2221.30	2430.20	2430.00
196.000	1299.41	.00	1299.65	730.43	389.58	3130.10	280.32	.00	.00	1979.50	2387.50	.00
196.000	1299.74	.33	1300.07	290.00	.00	3800.00	.00	290.00	2000.00	1979.50	2387.50	2290.00
197.000	1301.76	.00	1302.16	341.09	128.20	3637.03	34.76	.00	.00	1828.70	2074.00	.
197.000	1301.96	.21	1302.34	236.58	108.12	3691.88	.00	290.00	1780.00	1828.70	2074.00	2070.
198.000	1303.71	.00	1303.93	320.79	.00	3700.00	.00	.00	.00	1432.60	1883.60	.00
198.000	1303.75	.04	1303.96	322.80	.00	3700.00	.00	400.00	1480.00	1432.60	1883.60	1880.00

199.000	1306.58	.00	1306.92	506.29	306.95	3293.05	.00	.00	.00	1535.80	2082.00	.00
199.000	1306.61	.02	1307.01	425.64	.00	3600.00	.00	580.00	1500.00	1535.80	2082.00	2080.00
200.000	1310.35	.00	1310.56	436.97	.00	3400.00	.00	.00	.00	1264.50	1927.40	.00
200.000	1310.42	.07	1310.61	441.69	.00	3400.00	.00	680.00	1260.00	1264.50	1927.40	1940.00
201.000	1313.09	.00	1313.29	567.97	71.35	3222.48	6.17	.00	.00	1063.80	1664.80	.00
201.000	1313.08	-.01	1313.29	502.79	.00	3300.00	.00	620.00	1050.00	1063.80	1664.80	1670.00
202.000	1315.48	.00	1315.69	442.62	90.72	3105.06	4.22	.00	.00	845.10	1377.60	.00
202.000	1315.54	.06	1315.75	376.39	.00	3200.00	.00	540.00	850.00	845.10	1377.60	1390.00
203.000	1318.26	.00	1318.46	585.09	72.18	2994.54	33.28	.00	.00	691.00	1217.90	.00
203.000	1318.30	.04	1318.51	488.34	.00	3100.00	.00	530.00	690.00	691.00	1217.90	1220.00
204.000	1321.01	.00	1321.19	514.80	45.71	2710.38	143.90	.00	.00	703.70	1327.10	.00
204.000	1321.11	.09	1321.30	414.91	.00	2900.00	.00	630.00	710.00	703.70	1327.10	1340.00
205.000	1323.62	.00	1323.81	545.12	87.33	2287.03	425.65	.00	.00	698.30	1218.00	.00
205.000	1323.81	.19	1324.05	380.75	.00	2800.00	.00	560.00	690.00	698.30	1218.00	1250.00
206.000	1326.12	.00	1326.29	478.54	4.40	2510.56	185.04	.00	.00	1076.40	1463.20	.00
206.000	1326.30	.18	1326.48	322.24	.00	2700.00	.00	370.00	1090.00	1076.40	1463.20	1460.00
207.000	1328.37	.00	1328.60	525.73	.00	2338.86	261.14	.00	.00	761.00	1204.30	.00
207.000	1328.32	-.05	1328.66	248.62	.00	2600.00	.00	320.00	880.00	761.00	1204.30	1200.00
208.000	1330.69	.00	1330.99	502.81	11.90	2109.92	378.18	.00	.00	921.00	1126.70	.00
208.000	1330.89	.20	1331.32	131.34	2.94	2497.06	.00	240.00	910.00	921.00	1126.70	1150.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
209.000	1332.61	.00	1332.95	404.63	52.22	1896.71	351.06	.00	.00	864.80	979.30	.00
209.000	1333.08	.47	1333.54	104.15	.00	2300.00	.00	180.00	850.00	864.80	979.30	1030.00
210.000	1334.46	.00	1334.66	358.63	10.84	1966.19	222.98	.00	.00	564.30	738.90	.00
210.000	1334.91	.45	1335.12	166.24	.00	2200.00	.00	260.00	540.00	564.30	738.90	800.00
211.000	1336.32	.00	1336.64	318.08	1.55	1916.96	181.50	.00	.00	797.80	1089.20	.00
211.000	1336.50	.19	1336.86	179.74	.00	2100.00	.00	350.00	750.00	797.80	1089.20	1100.00
212.000	1338.14	.00	1338.24	295.83	133.99	1086.20	779.81	.00	.00	952.30	1209.20	.00
212.000	1338.71	.57	1338.91	180.77	231.22	1768.78	.00	410.00	810.00	952.30	1209.20	1220.00
213.000	1339.50	.00	1340.19	127.87	116.56	1783.44	.00	.00	.00	1224.50	1437.40	.00
213.000	1340.48	.97	1340.81	138.30	159.33	1740.67	.00	460.00	1000.00	1224.50	1437.40	1460.00
214.000	1342.72	.00	1342.82	324.88	80.62	1718.30	1.09	.00	.00	819.70	1248.40	.00
214.000	1342.63	-.09	1342.74	270.50	76.45	1723.55	.00	520.00	720.00	819.70	1248.40	1240.00
215.000	1344.29	.00	1344.43	286.85	.00	1637.52	62.48	.00	.00	583.50	875.30	.00
215.000	1344.31	.02	1344.45	282.56	.00	1637.63	62.37	470.00	560.00	583.50	875.30	1030.00
216.000	1347.30	.00	1347.54	230.60	1308.67	391.33	.00	.00	.00	739.80	981.80	.00
216.000	1347.30	.00	1347.54	229.25	1308.43	391.57	.00	630.00	360.00	739.80	981.80	990.00
217.000	1349.50	.00	1349.69	213.55	1131.94	568.06	.00	.00	.00	942.20	1099.80	.00
217.000	1349.50	.00	1349.69	213.54	1132.02	567.98	.00	800.00	350.00	942.20	1099.80	1150.00
218.000	1352.39	.00	1353.08	174.14	.64	1650.34	49.02	.00	.00	552.90	662.30	.00
218.000	1352.39	.00	1353.14	97.69	.66	1699.34	.00	300.00	425.00	552.90	662.30	725.00
219.000	1355.88	.00	1355.97	369.86	.00	1564.05	35.95	.00	.00	703.40	1051.70	.00
219.000	1355.95	.06	1356.04	267.47	.00	1600.00	.00	320.00	700.00	703.40	1051.70	1020.00
220.000	1357.74	.00	1358.05	131.40	.00	1599.32	.68	.00	.00	725.20	940.20	.00
220.000	1357.77	.02	1358.07	122.37	.00	1600.00	.00	320.00	730.00	725.20	940.20	1050.00
221.000	1360.18	.00	1360.36	172.19	683.62	916.00	.38	.00	.00	823.60	911.40	.00
221.000	1360.56	.38	1360.85	132.44	299.46	1299.44	1.11	380.00	710.00	823.60	911.40	1090.00
222.000	1362.94	.00	1363.17	234.08	1001.81	598.19	.00	.00	.00	967.90	1187.50	.00
222.000	1363.43	.49	1363.60	220.46	940.45	659.55	.00	650.00	720.00	967.90	1187.50	1370.00
223.000	1365.92	.00	1366.00	622.17	861.21	503.70	135.09	.00	.00	1218.60	1348.70	.00
223.000	1365.97	.05	1366.07	334.32	949.79	550.21	.00	990.00	490.00	1218.60	1348.70	1480.00

224.000	1367.89	.00	1368.03	474.09	1157.99	326.68	15.33	.00	.00	1223.00	1531.60	.00
224.000	1367.99	.10	1368.12	374.81	1161.30	337.06	1.64	1180.00	490.00	1223.00	1531.60	1670.00
225.000	1370.52	.00	1370.58	628.25	1167.30	230.14	2.56	.00	.00	1157.90	1422.70	.00
225.000	1370.53	.01	1370.60	545.82	1156.48	240.77	2.76	1150.00	500.00	1157.90	1422.70	1650.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
226.000	1373.32	.00	1373.49	442.24	1209.60	190.40	.00	.00	.00	1402.80	1572.50	.00
226.000	1374.01	.69	1374.32	257.27	830.45	569.55	.00	380.00	1220.00	1402.80	1572.50	1600.00
227.000	1377.27	.00	1377.36	616.98	.69	1143.81	255.50	.00	.00	1280.70	1588.50	.00
227.000	1377.73	.47	1377.82	310.00	.00	1398.98	1.02	310.00	1280.00	1280.70	1588.50	1590.00
228.000	1379.58	.00	1379.68	478.56	274.99	768.79	256.21	.00	.00	969.30	1090.80	.00
228.000	1379.89	.31	1380.13	226.50	64.03	1230.59	5.38	250.00	870.00	969.30	1090.80	1120.00
229.000	1382.28	.00	1382.40	400.98	1.17	1113.44	85.38	.00	.00	975.10	1381.30	.00
229.000	1382.67	.38	1382.75	311.24	.00	1200.00	.00	330.00	1000.00	975.10	1381.30	1330.00
230.000	1384.83	.00	1384.88	614.36	328.89	757.43	13.68	.00	.00	1069.10	1502.30	.00
230.000	1384.93	.10	1385.02	345.64	.00	1100.00	.00	360.00	1110.00	1069.10	1502.30	1470.00
231.000	1387.10	.00	1387.20	571.97	627.36	210.69	161.95	.00	.00	1338.90	1432.30	.00
231.000	1387.86	.76	1388.01	252.89	263.35	492.73	243.92	300.00	1240.00	1338.90	1432.30	1540.00
232.000	1391.17	.00	1391.24	398.90	213.55	326.45	360.00	.00	.00	1445.90	1505.20	.00
232.000	1391.66	.49	1391.78	190.00	329.53	471.56	98.90	190.00	1360.00	1445.90	1505.20	1550.00
233.000	1393.50	.00	1393.61	324.95	23.52	365.80	510.68	.00	.00	741.40	797.80	.00
233.000	1393.96	.46	1394.14	140.00	1.74	515.71	382.56	140.00	740.00	741.40	797.80	880.00
234.000	1396.17	.00	1396.27	346.26	338.65	354.06	107.29	.00	.00	924.60	978.10	.00
234.000	1396.71	.54	1396.88	150.00	224.24	532.30	43.46	150.00	860.00	924.60	978.10	1010.00
235.000	1398.98	.00	1399.10	266.31	210.99	288.64	200.37	.00	.00	907.40	954.40	
235.000	1399.47	.48	1399.62	140.68	302.72	384.01	13.27	160.00	800.00	907.40	954.40	960
236.000	1401.78	.00	1401.89	406.05	28.23	388.77	182.99	.00	.00	607.20	659.80	.00
236.000	1402.09	.31	1402.25	170.00	62.11	485.29	52.59	170.00	530.00	607.20	659.80	700.00
237.000	1404.14	.00	1404.28	126.14	.00	485.53	14.47	.00	.00	660.10	755.60	.00
237.000	1404.32	.18	1404.43	117.59	.00	483.90	16.10	150.00	640.00	660.10	755.60	790.00

WATERMAN WASH - WEST PRO

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
130.000	.00	.00	.00	1136.80	4800.00	1141.38	.00	1141.45	13.91	2.70	2341.76	1287.09
130.000	.00	.00	.00	1136.80	4800.00	1142.31	.00	1142.45	15.39	3.32	1704.92	1223.73
131.000	510.00	.00	.00	1137.80	4800.00	1142.41	.00	1142.77	63.83	4.83	1005.60	600.81
131.000	510.00	.00	.00	1137.80	4800.00	1143.24	.00	1143.44	25.11	3.56	1381.65	957.82
132.000	490.00	.00	.00	1140.50	4800.00	1144.80	.00	1144.99	33.77	3.57	1394.75	826.01
132.000	490.00	.00	.00	1140.50	4800.00	1144.72	.00	1144.92	37.44	3.71	1341.74	784.42
133.000	490.00	.00	.00	1141.90	4800.00	1146.75	.00	1146.94	47.74	3.58	1375.63	694.70
133.000	490.00	.00	.00	1141.90	4800.00	1146.78	.00	1146.98	47.38	3.60	1344.86	697.37
134.000	500.00	.00	.00	1144.00	4800.00	1148.89	.00	1149.15	40.47	4.10	1202.77	754.54
134.000	500.00	.00	.00	1144.00	4800.00	1148.92	.00	1149.18	40.56	4.12	1166.24	753.70
135.000	500.00	.00	.00	1145.40	4800.00	1150.98	.00	1151.17	39.31	3.82	1515.17	765
135.000	500.00	.00	.00	1145.40	4800.00	1151.22	.00	1151.52	53.97	4.39	1092.79	653.38
136.000	500.00	.00	.00	1147.40	4800.00	1153.25	.00	1153.72	69.35	5.80	991.19	576.40
136.000	500.00	.00	.00	1147.40	4800.00	1153.79	.00	1154.27	56.05	5.55	865.18	641.15

137.000	400.00	.00	.00	1148.80	4800.00	1155.29	.00	1155.41	28.60	3.18	1842.08	897.61
137.000	400.00	.00	.00	1148.80	4800.00	1155.82	.00	1156.07	37.05	4.00	1199.43	788.60
138.000	390.00	.00	.00	1149.30	4600.00	1156.50	.00	1156.63	33.88	3.10	1731.39	790.26
138.000	390.00	.00	.00	1149.30	4600.00	1157.11	.00	1157.29	26.50	3.36	1370.42	893.60
139.000	490.00	.00	.00	1152.40	4600.00	1158.41	.00	1158.72	54.73	4.64	1124.58	621.80
139.000	490.00	.00	.00	1152.40	4600.00	1158.72	.00	1159.03	50.13	4.43	1037.38	649.72
140.000	500.00	.00	.00	1155.60	4600.00	1161.22	.00	1161.38	51.26	3.45	1588.20	642.47
140.000	500.00	.00	.00	1155.60	4600.00	1161.39	.00	1161.70	57.09	4.46	1031.55	608.79
141.000	500.00	.00	.00	1158.00	4600.00	1163.17	.00	1163.35	31.19	3.72	1690.93	823.65
141.000	500.00	.00	.00	1158.00	4600.00	1163.57	.00	1163.84	33.35	4.22	1089.82	796.59
142.000	500.00	.00	.00	1158.90	4600.00	1164.68	.00	1165.09	38.97	5.51	1127.01	736.86
142.000	500.00	.00	.00	1158.90	4600.00	1165.18	.00	1165.68	40.68	5.70	806.97	721.20
143.000	500.00	.00	.00	1159.80	4400.00	1166.82	.00	1167.21	46.20	5.28	992.37	647.32
143.000	500.00	.00	.00	1159.80	4400.00	1167.30	.00	1168.09	58.63	7.19	627.05	574.62
144.000	500.00	.00	.00	1161.70	4400.00	1168.59	.00	1168.84	23.78	.00	1099.96	902.31
144.000	500.00	.00	.00	1161.70	4400.00	1169.41	.00	1169.81	22.23	.00	862.80	933.29
145.000	500.00	.00	.00	1163.50	4400.00	1169.95	.00	1170.23	33.99	4.37	1070.09	754.73
145.000	500.00	.00	.00	1163.50	4400.00	1170.64	.00	1171.04	27.79	5.06	869.10	834.65

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
146.000	500.00	.00	.00	1164.40	4400.00	1171.58	.00	1171.78	28.74	3.53	1223.78	820.78
146.000	500.00	.00	.00	1164.40	4400.00	1172.02	.00	1172.28	22.39	4.17	1090.03	929.88
147.000	500.00	.00	.00	1166.00	4400.00	1173.20	.00	1173.53	43.23	4.68	960.84	669.19
147.000	500.00	.00	.00	1166.00	4400.00	1173.26	.00	1173.69	36.92	5.61	843.84	724.12
148.000	500.00	.00	.00	1167.90	4400.00	1175.37	.00	1176.27	71.52	8.22	681.72	520.29
148.000	500.00	.00	.00	1167.90	4400.00	1175.09	1174.38	1176.74	118.52	10.35	441.17	404.16
149.000	500.00	.00	.00	1171.30	4400.00	1178.12	.00	1178.42	28.78	4.63	1168.77	820.21
149.000	500.00	.00	.00	1171.30	4400.00	1178.66	.00	1178.97	23.24	4.48	1012.08	912.65
150.000	500.00	.00	.00	1173.30	4200.00	1179.53	.00	1179.85	28.59	4.77	979.36	785.51
150.000	500.00	.00	.00	1173.30	4200.00	1179.86	.00	1180.18	25.49	4.68	933.20	831.95
151.000	500.00	.00	.00	1175.10	4200.00	1181.22	.00	1182.00	71.17	7.20	638.64	497.84
151.000	500.00	.00	.00	1175.10	4200.00	1181.35	.00	1182.16	69.28	7.22	582.88	504.61
152.000	500.00	.00	.00	1177.10	4200.00	1184.17	.00	1184.99	50.94	7.68	687.64	588.46
152.000	500.00	.00	.00	1177.10	4200.00	1184.28	.00	1185.33	58.16	8.31	546.65	550.71
153.000	490.00	.00	.00	1179.70	4200.00	1186.56	.00	1186.81	28.15	4.34	1127.43	791.66
153.000	490.00	.00	.00	1179.70	4200.00	1187.07	.00	1187.36	31.01	4.38	988.33	754.19
154.000	500.00	.00	.00	1182.80	4200.00	1188.07	.00	1188.36	34.11	4.52	1010.76	719.11
154.000	500.00	.00	.00	1182.80	4200.00	1188.50	.00	1188.75	25.00	4.13	1071.97	840.07
155.000	500.00	.00	.00	1184.40	4200.00	1190.27	.00	1190.97	90.29	7.08	657.93	442.00
155.000	500.00	.00	.00	1184.40	4200.00	1190.19	.00	1190.97	99.61	7.36	612.35	420.83
156.000	500.00	.00	.00	1186.90	4200.00	1193.63	.00	1193.95	42.01	5.07	1040.33	648.00
156.000	500.00	.00	.00	1186.90	4200.00	1193.92	.00	1194.46	51.54	6.00	728.47	585.01
157.000	500.00	.00	.00	1188.80	4200.00	1195.52	.00	1195.83	33.83	4.79	1164.04	722.12
157.000	500.00	.00	.00	1188.80	4200.00	1196.08	.00	1196.47	32.34	5.00	853.04	738.55
158.000	500.00	.00	.00	1189.40	4000.00	1197.42	.00	1197.89	51.62	6.06	852.42	556.74
158.000	500.00	.00	.00	1189.40	4000.00	1198.16	.00	1198.51	53.95	5.05	863.27	544.57
159.000	500.00	.00	.00	1192.50	4000.00	1199.61	.00	1200.09	38.05	6.36	998.59	648.50
159.000	500.00	.00	.00	1192.50	4000.00	1200.11	.00	1200.69	35.93	6.55	740.96	667.28
160.000	490.00	.00	.00	1193.90	4000.00	1201.42	.00	1201.64	26.27	4.56	1245.40	780.39
160.000	490.00	.00	.00	1193.90	4000.00	1201.92	.00	1202.26	28.40	4.93	883.31	750.55
161.000	500.00	.00	.00	1197.20	4000.00	1203.23	.00	1203.49	57.41	4.31	1008.22	527.92

161.000	500.00	.00	.00	1197.20	4000.00	1203.68	.00	1203.90	38.87	3.93	1080.79	641.62
162.000	500.00	.00	.00	1200.60	4000.00	1205.84	.00	1205.99	44.48	3.44	1396.90	599.73
162.000	500.00	.00	.00	1200.60	4000.00	1206.01	.00	1206.22	57.49	3.86	1095.78	527.57

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
163.000	500.00	.00	.00	1204.30	4000.00	1208.43	.00	1208.74	70.77	4.75	928.47	475.49
163.000	500.00	.00	.00	1204.30	4000.00	1208.76	.00	1209.08	57.01	4.60	904.53	529.79
164.000	500.00	.00	.00	1206.70	4000.00	1210.93	.00	1211.15	34.93	3.88	1074.05	676.77
164.000	500.00	.00	.00	1206.70	4000.00	1211.04	.00	1211.28	35.15	3.96	1012.85	674.67
165.000	500.00	.00	.00	1209.10	4000.00	1213.03	.00	1213.30	54.21	4.37	1031.58	543.29
165.000	500.00	.00	.00	1209.10	4000.00	1213.12	.00	1213.55	60.48	5.26	760.36	514.33
166.000	500.00	.00	.00	1210.90	4000.00	1215.21	.00	1215.42	33.75	3.74	1157.61	688.54
166.000	500.00	.00	.00	1210.90	4000.00	1215.80	.00	1216.20	46.92	5.07	788.75	583.98
167.000	510.00	.00	.00	1212.70	4000.00	1217.36	.00	1217.67	60.54	4.58	896.75	514.08
167.000	510.00	.00	.00	1212.70	4000.00	1218.16	.00	1218.33	37.64	3.37	1186.58	652.00
168.000	450.00	.00	.00	1214.20	4000.00	1220.10	.00	1220.32	56.26	3.91	1201.09	533.28
168.000	450.00	.00	.00	1214.20	4000.00	1220.24	.00	1220.51	64.42	4.20	952.49	498.36
169.000	420.00	.00	.00	1215.60	4000.00	1221.69	.00	1221.78	22.37	2.34	1731.64	845.68
169.000	420.00	.00	.00	1218.00	4000.00	1222.05	.00	1222.15	26.16	2.59	1544.58	782.11
170.000	440.00	.00	.00	1217.90	4000.00	1223.33	.00	1223.58	86.11	3.63	1035.42	431.07
170.000	440.00	.00	.00	1220.90	4000.00	1223.88	.00	1224.13	94.20	3.99	1001.35	412.13
171.000	500.00	.00	.00	1221.80	4000.00	1226.88	.00	1227.00	55.65	3.08	1473.53	536.18
171.000	500.00	.00	.00	1223.30	4000.00	1227.58	.00	1227.79	58.79	3.74	1077.10	521.69
172.000	500.00	.00	.00	1224.90	4000.00	1229.57	.00	1229.72	53.15	3.53	1389.56	548.67
172.000	500.00	.00	.00	1226.10	4000.00	1230.42	.00	1230.59	53.13	3.24	1234.19	548.77
173.000	500.00	.00	.00	1228.30	4000.00	1232.48	.00	1232.61	64.91	3.24	1436.18	496[illegible]
173.000	500.00	.00	.00	1228.80	4000.00	1233.14	.00	1233.33	56.72	3.53	1138.11	531.[illegible]
174.000	500.00	.00	.00	1230.60	4000.00	1235.38	.00	1235.46	51.39	2.47	1751.72	557.97
174.000	500.00	.00	.00	1232.10	4000.00	1235.85	.00	1235.99	49.89	2.97	1352.09	566.31
175.000	530.00	.00	.00	1234.30	4000.00	1238.48	.00	1238.59	67.93	3.06	1495.34	485.32
175.000	530.00	.00	.00	1234.30	4000.00	1238.87	.00	1239.05	66.54	3.51	1220.76	490.37
176.000	430.00	.00	.00	1237.50	3800.00	1240.98	.00	1241.08	45.60	3.10	1677.56	562.74
176.000	430.00	.00	.00	1237.50	3800.00	1241.44	.00	1241.60	53.18	3.54	1251.89	521.09
177.000	490.00	.00	.00	1239.60	3800.00	1243.50	.00	1243.63	59.17	3.44	1398.80	494.01
177.000	490.00	.00	.00	1240.50	3800.00	1244.12	.00	1244.29	57.09	3.49	1187.70	502.93
178.000	450.00	.00	.00	1242.70	3800.00	1246.24	.00	1246.35	61.99	2.56	1412.32	482.63
178.000	450.00	.00	.00	1243.90	3800.00	1246.99	.00	1247.19	73.36	3.53	1057.09	443.67
179.000	500.00	.00	.00	1244.20	3800.00	1249.16	.00	1249.25	54.31	2.72	1563.77	515.63
179.000	500.00	.00	.00	1245.80	3800.00	1250.08	.00	1250.22	51.02	3.25	1272.31	532.00

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
180.000	500.00	.00	.00	1248.30	3800.00	1251.84	.00	1251.98	55.05	3.89	1347.42	512.15
180.000	500.00	.00	.00	1248.80	3800.00	1252.70	.00	1253.02	61.77	5.05	934.52	483.48
181.000	490.00	.00	.00	1250.80	3800.00	1254.91	.00	1255.09	72.64	4.13	1221.86	445.87
181.000	490.00	.00	.00	1251.20	3800.00	1255.87	.00	1256.33	74.09	5.45	711.05	441.46
182.000	490.00	.00	.00	1253.30	3800.00	1257.65	.00	1257.88	45.85	4.81	1298.52	561[illegible]
182.000	490.00	.00	.00	1253.30	3800.00	1258.44	.00	1258.73	34.66	4.85	1058.16	645[illegible]
183.000	570.00	.00	.00	1256.30	3800.00	1260.75	.00	1260.98	65.15	4.18	1130.81	470.78
183.000	570.00	.00	.00	1256.30	3800.00	1261.08	.00	1261.42	68.35	4.73	807.80	459.63

184.000	510.00	.00	.00	1258.70	3800.00	1264.01	.00	1264.29	64.17	4.47	977.86	474.35
184.000	510.00	.00	.00	1258.70	3800.00	1264.31	.00	1264.77	63.06	5.50	713.89	478.54
185.000	485.00	.00	.00	1261.40	3800.00	1266.70	.00	1266.97	48.21	4.23	945.18	547.27
185.000	485.00	.00	.00	1261.40	3800.00	1266.93	.00	1267.24	42.05	4.52	839.85	586.00
186.000	510.00	.00	.00	1265.90	3800.00	1269.81	.00	1269.95	71.98	3.59	1341.93	447.89
186.000	510.00	.00	.00	1265.90	3800.00	1270.29	.00	1270.73	129.47	5.78	754.70	333.96
187.000	510.00	.00	.00	1269.60	3800.00	1273.06	.00	1273.21	54.32	3.61	1327.41	515.57
187.000	510.00	.00	.00	1269.60	3800.00	1274.00	.00	1274.26	43.16	4.22	968.51	578.43
188.000	500.00	.00	.00	1273.00	3800.00	1276.23	.00	1276.56	83.43	5.21	1022.50	416.03
188.000	500.00	.00	.00	1273.20	3800.00	1276.71	.00	1277.21	85.27	5.95	773.21	411.51
189.000	550.00	.00	.00	1275.50	3800.00	1279.22	.00	1279.30	33.14	2.68	1751.02	660.08
189.000	550.00	.00	.00	1276.60	3800.00	1280.21	.00	1280.40	41.89	3.80	1151.40	587.13
190.000	470.00	.00	.00	1277.20	3800.00	1281.42	.00	1281.72	84.79	5.67	1096.90	412.68
190.000	470.00	.00	.00	1278.40	3800.00	1282.36	.00	1282.80	65.27	5.93	806.36	470.37
191.000	500.00	.00	.00	1280.90	3800.00	1284.80	.00	1284.93	50.06	3.67	1547.53	537.06
191.000	500.00	.00	.00	1281.00	3800.00	1285.74	.00	1286.13	67.99	5.19	800.64	460.84
192.000	500.00	.00	.00	1284.20	3800.00	1287.71	.00	1287.85	65.06	3.71	1491.56	471.13
192.000	500.00	.00	.00	1284.20	3800.00	1288.72	.00	1289.01	49.13	4.34	897.93	542.16
193.000	490.00	.00	.00	1286.30	3800.00	1290.65	.00	1290.92	60.23	4.86	1150.25	489.64
193.000	490.00	.00	.00	1286.30	3800.00	1291.24	.00	1291.75	64.27	5.71	687.70	474.00
194.000	500.00	.00	.00	1288.80	3800.00	1293.33	.00	1293.64	49.42	5.01	1075.58	540.54
194.000	500.00	.00	.00	1288.80	3800.00	1293.96	.00	1294.40	44.64	5.35	716.78	568.75
195.000	500.00	.00	.00	1290.90	3800.00	1296.22	.00	1296.60	72.39	5.41	894.53	446.62
195.000	500.00	.00	.00	1290.90	3800.00	1296.61	.00	1297.16	69.76	5.94	639.40	454.97
196.000	500.00	.00	.00	1292.40	3800.00	1299.41	.00	1299.65	51.94	4.24	1077.77	527.29
196.000	500.00	.00	.00	1292.40	3800.00	1299.74	.00	1300.07	49.32	4.62	822.54	541.10

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
197.000	530.00	.00	.00	1294.70	3800.00	1301.76	.00	1302.16	43.46	5.21	805.46	576.39
197.000	530.00	.00	.00	1294.70	3800.00	1301.96	.00	1302.34	37.72	5.01	796.10	618.74
198.000	500.00	.00	.00	1298.20	3700.00	1303.71	.00	1303.93	29.04	3.75	985.80	686.61
198.000	500.00	.00	.00	1298.20	3700.00	1303.75	.00	1303.96	27.94	3.70	999.82	700.04
199.000	600.00	.00	.00	1303.10	3600.00	1306.58	.00	1306.92	108.12	4.75	788.63	346.22
199.000	600.00	.00	.00	1303.10	3600.00	1306.61	.00	1307.01	123.81	5.12	702.80	323.53
200.000	540.00	.00	.00	1305.40	3400.00	1310.35	.00	1310.56	45.13	3.66	929.08	506.09
200.000	540.00	.00	.00	1305.40	3400.00	1310.42	.00	1310.61	40.55	3.53	963.56	533.94
201.000	560.00	.00	.00	1308.60	3300.00	1313.09	.00	1313.29	52.92	3.55	948.15	453.61
201.000	560.00	.00	.00	1308.60	3300.00	1313.08	.00	1313.29	57.52	3.68	897.37	435.10
202.000	510.00	.00	.00	1311.50	3200.00	1315.48	.00	1315.69	42.05	3.66	899.54	493.46
202.000	510.00	.00	.00	1311.50	3200.00	1315.54	.00	1315.75	40.94	3.68	869.58	500.10
203.000	560.00	.00	.00	1314.20	3100.00	1318.26	.00	1318.46	59.79	3.63	889.72	400.90
203.000	560.00	.00	.00	1314.20	3100.00	1318.30	.00	1318.51	60.74	3.69	840.34	397.77
204.000	520.00	.00	.00	1316.80	2900.00	1321.01	.00	1321.19	45.94	3.49	889.81	427.85
204.000	520.00	.00	.00	1316.80	2900.00	1321.11	.00	1321.30	47.44	3.56	814.90	421.05
205.000	510.00	.00	.00	1318.60	2800.00	1323.62	.00	1323.81	57.35	3.58	840.32	369.73
205.000	510.00	.00	.00	1320.00	2800.00	1323.81	.00	1324.05	62.11	3.94	710.93	355.27
206.000	540.00	.00	.00	1322.60	2700.00	1326.12	.00	1326.29	37.29	3.46	844.51	442.14
206.000	540.00	.00	.00	1322.60	2700.00	1326.30	.00	1326.48	33.75	3.45	782.10	464.74
207.000	470.00	.00	.00	1324.20	2600.00	1328.37	.00	1328.60	67.99	4.05	720.22	315.31
207.000	470.00	.00	.00	1324.20	2600.00	1328.32	.00	1328.66	68.59	4.67	556.39	313.95
208.000	500.00	.00	.00	1325.10	2500.00	1330.69	.00	1330.99	34.43	4.71	723.79	426.06
208.000	500.00	.00	.00	1325.10	2500.00	1330.89	.00	1331.32	42.27	5.29	475.70	384.51

209.000	520.00	.00	.00	1327.70	2300.00	1332.61	.00	1332.95	41.58	5.07	600.88	356.68
209.000	520.00	.00	.00	1327.70	2300.00	1333.08	.00	1333.54	43.04	5.46	421.60	350.60
210.000	505.00	.00	.00	1330.40	2200.00	1334.46	.00	1334.66	27.90	3.78	696.68	416.53
210.000	505.00	.00	.00	1330.40	2200.00	1334.91	.00	1335.12	23.46	3.72	591.99	454.2[illegible]
211.000	480.00	.00	.00	1333.70	2100.00	1336.32	.00	1336.64	69.44	4.76	504.54	252.[illegible]
211.000	480.00	.00	.00	1333.70	2100.00	1336.50	.00	1336.86	65.63	4.82	435.62	259.23
212.000	520.00	.00	.00	1333.90	2000.00	1338.14	.00	1338.24	16.84	2.73	810.24	487.44
212.000	520.00	.00	.00	1334.50	2000.00	1338.71	.00	1338.91	25.70	3.70	571.14	394.54
213.000	500.00	.00	.00	1336.80	1900.00	1339.50	.00	1340.19	193.42	6.80	289.53	136.62
213.000	500.00	.00	.00	1336.80	1900.00	1340.48	.00	1340.81	63.50	4.73	418.12	238.44

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
214.000	480.00	.00	.00	1338.80	1800.00	1342.72	.00	1342.82	24.47	2.65	708.54	363.89
214.000	480.00	.00	.00	1338.80	1800.00	1342.63	.00	1342.74	27.18	2.74	679.28	345.24
215.000	500.00	.00	.00	1340.70	1700.00	1344.29	.00	1344.43	45.44	3.06	572.95	252.18
215.000	500.00	.00	.00	1340.70	1700.00	1344.31	.00	1344.45	45.14	3.06	573.66	253.03
216.000	590.00	.00	.00	1342.50	1700.00	1347.30	.00	1347.54	60.82	2.68	453.42	217.99
216.000	590.00	.00	.00	1342.50	1700.00	1347.30	.00	1347.54	60.69	2.68	453.76	218.22
217.000	460.00	.00	.00	1344.00	1700.00	1349.50	.00	1349.69	35.95	2.45	526.57	283.54
217.000	460.00	.00	.00	1344.00	1700.00	1349.50	.00	1349.69	35.97	2.45	526.46	283.47
218.000	500.00	.00	.00	1348.70	1700.00	1352.39	.00	1353.08	173.55	6.76	272.42	129.05
218.000	500.00	.00	.00	1348.70	1700.00	1352.39	.00	1353.14	183.78	6.95	245.12	125.40
219.000	530.00	.00	.00	1350.90	1600.00	1355.88	.00	1355.97	25.38	2.45	686.21	317.62
219.000	530.00	.00	.00	1350.90	1600.00	1355.95	.00	1356.04	24.83	2.44	655.98	321.10
220.000	540.00	.00	.00	1353.60	1600.00	1357.74	.00	1358.05	64.70	4.43	362.45	198.[illegible]
220.000	540.00	.00	.00	1353.60	1600.00	1357.77	.00	1358.07	63.37	4.40	363.92	201.[illegible]
221.000	470.00	.00	.00	1355.70	1600.00	1360.18	.00	1360.36	38.27	3.57	483.99	258.62
221.000	470.00	.00	.00	1355.70	1600.00	1360.56	.00	1360.85	55.26	4.51	381.60	215.24
222.000	530.00	.00	.00	1358.30	1600.00	1362.94	.00	1363.17	78.24	3.63	417.78	180.88
222.000	530.00	.00	.00	1358.30	1600.00	1363.43	.00	1363.60	48.95	3.13	476.02	228.69
223.000	550.00	.00	.00	1361.80	1500.00	1365.92	.00	1366.00	32.83	2.61	696.04	261.77
223.000	550.00	.00	.00	1361.80	1500.00	1365.97	.00	1366.07	36.98	2.79	588.08	246.68
224.000	440.00	.00	.00	1362.90	1500.00	1367.89	.00	1368.03	69.01	2.49	518.96	180.57
224.000	440.00	.00	.00	1362.90	1500.00	1367.99	.00	1368.12	60.03	2.38	529.98	193.60
225.000	520.00	.00	.00	1367.00	1400.00	1370.52	.00	1370.58	35.98	1.84	736.37	233.39
225.000	520.00	.00	.00	1367.00	1400.00	1370.53	.00	1370.60	38.33	1.91	693.30	226.12
226.000	500.00	.00	.00	1370.00	1400.00	1373.32	.00	1373.49	109.99	2.70	421.06	133.49
226.000	500.00	.00	.00	1371.10	1400.00	1374.01	.00	1374.32	202.61	4.11	313.80	98.36
227.000	500.00	.00	.00	1374.00	1400.00	1377.27	.00	1377.36	57.40	2.63	598.48	184.79
227.000	500.00	.00	.00	1374.00	1400.00	1377.73	.00	1377.82	35.14	2.43	577.07	236.19
228.000	500.00	.00	.00	1375.10	1300.00	1379.58	.00	1379.68	37.68	2.86	551.83	211.78
228.000	500.00	.00	.00	1375.10	1300.00	1379.89	.00	1380.13	64.71	4.02	359.48	161.60
229.000	540.00	.00	.00	1378.30	1200.00	1382.28	.00	1382.40	73.24	2.77	455.71	140.22
229.000	540.00	.00	.00	1378.30	1200.00	1382.67	.00	1382.75	37.05	2.31	520.06	197.15
230.000	530.00	.00	.00	1381.30	1100.00	1384.83	.00	1384.88	31.49	1.66	654.60	196.02
230.000	530.00	.00	.00	1381.30	1100.00	1384.93	.00	1385.02	50.80	2.35	468.96	154.33

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
231.000	460.00	.00	.00	1384.30	1000.00	1387.10	.00	1387.20	100.55	2.69	404.86	99.73

231.000	460.00	.00	.00	1385.10	1000.00	1387.86	.00	1388.01	88.43	3.40	332.32	106.34
232.000	590.00	.00	.00	1388.50	900.00	1391.17	.00	1391.24	47.56	2.87	430.90	130.50
232.000	590.00	.00	.00	1388.50	900.00	1391.66	.00	1391.78	46.65	3.30	334.66	131.77
233.000	460.00	.00	.00	1390.50	900.00	1393.50	.00	1393.61	57.18	3.24	370.38	119.02
233.000	460.00	.00	.00	1390.50	900.00	1393.96	.00	1394.14	57.09	3.71	278.27	119.11
234.000	490.00	.00	.00	1392.90	800.00	1396.17	.00	1396.27	50.50	3.14	347.16	112.57
234.000	490.00	.00	.00	1392.90	800.00	1396.71	.00	1396.88	54.32	3.78	259.37	108.55
235.000	495.00	.00	.00	1395.60	700.00	1398.98	.00	1399.10	66.65	3.34	278.09	85.75
235.000	495.00	.00	.00	1395.60	700.00	1399.47	.00	1399.62	56.87	3.54	231.59	92.82
236.000	510.00	.00	.00	1398.40	600.00	1401.78	.00	1401.89	44.50	3.16	291.59	89.94
236.000	510.00	.00	.00	1398.40	600.00	1402.09	.00	1402.25	46.13	3.49	223.75	88.34
237.000	510.00	.00	.00	1400.60	500.00	1404.14	.00	1404.28	50.07	2.97	179.20	70.66
237.000	510.00	.00	.00	1400.60	500.00	1404.32	.00	1404.43	39.46	2.71	194.15	79.60

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WATERMAN WASH - WEST PRO

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
130.000	4800.00	1141.38	.00	.00	.00	1210.30	.00
130.000	4800.00	1142.31	.93	.00	.93	573.08	.00
131.000	4800.00	1142.41	.00	1.03	.00	420.14	510.00
131.000	4800.00	1143.24	.83	.93	.83	524.22	510.00
132.000	4800.00	1144.80	.00	2.39	.00	635.67	490.00
132.000	4800.00	1144.72	-.08	1.48	-.08	617.34	490.00
133.000	4800.00	1146.75	.00	1.95	.00	785.27	490.00
133.000	4800.00	1146.78	.03	2.06	.03	715.30	490.00
134.000	4800.00	1148.89	.00	2.14	.00	519.57	500.00
134.000	4800.00	1148.92	.03	2.14	.03	423.92	500.00
135.000	4800.00	1150.98	.00	2.09	.00	1110.96	500.00
135.000	4800.00	1151.22	.23	2.30	.23	460.02	500.00
136.000	4800.00	1153.25	.00	2.27	.00	632.71	500.00
136.000	4800.00	1153.79	.54	2.57	.54	255.75	500.00
137.000	4800.00	1155.29	.00	2.03	.00	1083.68	400.00
137.000	4800.00	1155.82	.54	2.03	.54	424.49	400.00
138.000	4600.00	1156.50	.00	1.22	.00	1102.91	390.00
138.000	4600.00	1157.11	.61	1.29	.61	491.47	390.00
139.000	4600.00	1158.41	.00	1.91	.00	719.90	490.00
139.000	4600.00	1158.72	.31	1.61	.31	395.31	490.00
140.000	4600.00	1161.22	.00	2.81	.00	1274.11	500.00
140.000	4600.00	1161.39	.17	2.67	.17	430.54	500.00
141.000	4600.00	1163.17	.00	1.95	.00	1664.82	500.00
141.000	4600.00	1163.57	.40	2.17	.40	326.33	500.00
142.000	4600.00	1164.68	.00	1.51	.00	906.53	500.00
142.000	4600.00	1165.18	.50	1.61	.50	179.84	500.00
143.000	4400.00	1166.82	.00	2.15	.00	597.77	500.00
143.000	4400.00	1167.30	.47	2.12	.47	164.79	500.00
144.000	4400.00	1168.59	.00	1.76	.00	678.35	500.00
144.000	4400.00	1169.41	.82	2.11	.82	183.76	500.00
145.000	4400.00	1169.95	.00	1.36	.00	400.55	500.00
145.000	4400.00	1170.64	.69	1.23	.69	168.59	500.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
146.000	4400.00	1171.58	.00	1.63	.00	443.22	500.00
146.000	4400.00	1172.02	.44	1.38	.44	266.83	500.00
147.000	4400.00	1173.20	.00	1.62	.00	339.15	500.00
147.000	4400.00	1173.26	.05	1.23	.05	213.27	500.00
148.000	4400.00	1175.37	.00	2.17	.00	302.95	500.00
148.000	4400.00	1175.09	-.28	1.83	-.28	128.98	500.00
149.000	4400.00	1178.12	.00	2.75	.00	686.58	500.00
149.000	4400.00	1178.66	.54	3.57	.54	286.81	500.00
150.000	4200.00	1179.53	.00	1.42	.00	282.59	500.00
150.000	4200.00	1179.86	.33	1.20	.33	206.45	500.00
151.000	4200.00	1181.22	.00	1.68	.00	259.78	500.00
151.000	4200.00	1181.35	.13	1.49	.13	146.44	500.00
152.000	4200.00	1184.17	.00	2.95	.00	280.13	500.00
152.000	4200.00	1184.28	.11	2.93	.11	158.74	500.00
153.000	4200.00	1186.56	.00	2.39	.00	472.03	490.00
153.000	4200.00	1187.07	.51	2.79	.51	300.40	490.00
154.000	4200.00	1188.07	.00	1.51	.00	356.03	500.00
154.000	4200.00	1188.50	.43	1.43	.43	290.09	500.00
155.000	4200.00	1190.27	.00	2.20	.00	274.15	500.00
155.000	4200.00	1190.19	-.08	1.69	-.08	202.85	500.00
156.000	4200.00	1193.63	.00	3.36	.00	656.38	500.00
156.000	4200.00	1193.92	.29	3.73	.29	200.00	500.00
157.000	4200.00	1195.52	.00	1.90	.00	1179.06	500.00
157.000	4200.00	1196.08	.56	2.17	.56	220.00	500.00
158.000	4000.00	1197.42	.00	1.90	.00	609.69	500.00
158.000	4000.00	1198.16	.74	2.08	.74	340.00	500.00
159.000	4000.00	1199.61	.00	2.18	.00	649.73	500.00
159.000	4000.00	1200.11	.51	1.95	.51	227.76	500.00
160.000	4000.00	1201.42	.00	1.81	.00	712.89	490.00
160.000	4000.00	1201.92	.50	1.81	.50	197.53	490.00
161.000	4000.00	1203.23	.00	1.81	.00	460.24	500.00
161.000	4000.00	1203.68	.44	1.75	.44	449.69	500.00
162.000	4000.00	1205.84	.00	2.61	.00	944.29	500.00
162.000	4000.00	1206.01	.17	2.33	.17	621.79	500.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
163.000	4000.00	1208.43	.00	2.59	.00	481.55	500.00
163.000	4000.00	1208.76	.33	2.76	.33	368.98	500.00
164.000	4000.00	1210.93	.00	2.49	.00	517.28	500.00
164.000	4000.00	1211.04	.11	2.27	.11	363.60	500.00
165.000	4000.00	1213.03	.00	2.11	.00	544.37	500.00
165.000	4000.00	1213.12	.08	2.08	.08	256.99	500.00
166.000	4000.00	1215.21	.00	2.18	.00	516.76	500.00
166.000	4000.00	1215.80	.59	2.68	.59	231.41	500.00
167.000	4000.00	1217.36	.00	2.15	.00	385.55	510.00
167.000	4000.00	1218.16	.80	2.36	.80	550.68	510.00
168.000	4000.00	1220.10	.00	2.75	.00	901.38	450.00
168.000	4000.00	1220.24	.13	2.08	.13	476.26	450.00

169.000	4000.00	1221.69	.00	1.59	.00	1059.04	420.00
169.000	4000.00	1222.05	.35	1.81	.35	812.19	420.00
170.000	4000.00	1223.33	.00	1.64	.00	793.22	440.00
170.000	4000.00	1223.88	.55	1.83	.55	718.18	440.00
171.000	4000.00	1226.88	.00	3.54	.00	1344.15	500.00
171.000	4000.00	1227.58	.70	3.70	.70	632.42	500.00
172.000	4000.00	1229.57	.00	2.69	.00	1365.53	500.00
172.000	4000.00	1230.42	.86	2.85	.86	789.66	500.00
173.000	4000.00	1232.48	.00	2.91	.00	1441.60	500.00
173.000	4000.00	1233.14	.66	2.71	.66	680.21	500.00
174.000	4000.00	1235.38	.00	2.90	.00	2040.13	500.00
174.000	4000.00	1235.85	.47	2.71	.47	964.43	500.00
175.000	4000.00	1238.48	.00	3.10	.00	1776.64	530.00
175.000	4000.00	1238.87	.39	3.02	.39	955.92	530.00
176.000	3800.00	1240.98	.00	2.50	.00	1847.57	430.00
176.000	3800.00	1241.44	.46	2.57	.46	889.57	430.00
177.000	3800.00	1243.50	.00	2.52	.00	1339.74	490.00
177.000	3800.00	1244.12	.63	2.68	.63	724.32	490.00
178.000	3800.00	1246.24	.00	2.74	.00	1347.07	450.00
178.000	3800.00	1246.99	.75	2.86	.75	694.40	450.00
179.000	3800.00	1249.16	.00	2.92	.00	1424.77	500.00
179.000	3800.00	1250.08	.92	3.09	.92	916.89	500.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
180.000	3800.00	1251.84	.00	2.68	.00	1037.59	500.00
180.000	3800.00	1252.70	.87	2.62	.87	533.51	500.00
181.000	3800.00	1254.91	.00	3.07	.00	1113.00	490.00
181.000	3800.00	1255.87	.96	3.17	.96	328.56	490.00
182.000	3800.00	1257.65	.00	2.74	.00	1198.36	490.00
182.000	3800.00	1258.44	.79	2.57	.79	470.00	490.00
183.000	3800.00	1260.75	.00	3.10	.00	855.68	570.00
183.000	3800.00	1261.08	.32	2.64	.32	379.77	570.00
184.000	3800.00	1264.01	.00	3.25	.00	633.47	510.00
184.000	3800.00	1264.31	.30	3.23	.30	286.29	510.00
185.000	3800.00	1266.70	.00	2.69	.00	445.51	485.00
185.000	3800.00	1266.93	.23	2.62	.23	269.28	485.00
186.000	3800.00	1269.81	.00	3.11	.00	1186.18	510.00
186.000	3800.00	1270.29	.48	3.36	.48	500.78	510.00
187.000	3800.00	1273.06	.00	3.25	.00	1076.67	510.00
187.000	3800.00	1274.00	.94	3.71	.94	543.68	510.00
188.000	3800.00	1276.23	.00	3.17	.00	1037.65	500.00
188.000	3800.00	1276.71	.48	2.71	.48	597.90	500.00
189.000	3800.00	1279.22	.00	3.00	.00	1300.70	550.00
189.000	3800.00	1280.21	.99	3.50	.99	608.96	550.00
190.000	3800.00	1281.42	.00	2.20	.00	1133.42	470.00
190.000	3800.00	1282.36	.94	2.15	.94	434.71	470.00
191.000	3800.00	1284.80	.00	3.38	.00	1516.42	500.00
191.000	3800.00	1285.74	.94	3.38	.94	354.87	500.00
192.000	3800.00	1287.71	.00	2.91	.00	1579.91	500.00
192.000	3800.00	1288.72	1.00	2.97	1.00	360.00	500.00
193.000	3800.00	1290.65	.00	2.93	.00	1119.72	490.00
193.000	3800.00	1291.24	.60	2.53	.60	270.00	490.00

194.000	3800.00	1293.33	.00	2.68	.00	924.13	500.00
194.000	3800.00	1293.96	.63	2.71	.63	200.00	500.00
195.000	3800.00	1296.22	.00	2.90	.00	589.93	500.00
195.000	3800.00	1296.61	.39	2.65	.39	200.00	500.00
196.000	3800.00	1299.41	.00	3.18	.00	730.43	500.00
196.000	3800.00	1299.74	.33	3.13	.33	290.00	500.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
197.000	3800.00	1301.76	.00	2.35	.00	341.09	530.00
197.000	3800.00	1301.96	.21	2.23	.21	236.58	530.00
198.000	3700.00	1303.71	.00	1.95	.00	320.79	500.00
198.000	3700.00	1303.75	.04	1.78	.04	322.80	500.00
199.000	3600.00	1306.58	.00	2.88	.00	506.29	600.00
199.000	3600.00	1306.61	.02	2.86	.02	425.64	600.00
200.000	3400.00	1310.35	.00	3.77	.00	436.97	540.00
200.000	3400.00	1310.42	.07	3.81	.07	441.69	540.00
201.000	3300.00	1313.09	.00	2.74	.00	567.97	560.00
201.000	3300.00	1313.08	-.01	2.66	-.01	502.79	560.00
202.000	3200.00	1315.48	.00	2.39	.00	442.62	510.00
202.000	3200.00	1315.54	.06	2.46	.06	376.39	510.00
203.000	3100.00	1318.26	.00	2.78	.00	585.09	560.00
203.000	3100.00	1318.30	.04	2.76	.04	488.34	560.00
204.000	2900.00	1321.01	.00	2.75	.00	514.80	520.00
204.000	2900.00	1321.11	.09	2.81	.09	414.91	520.00
205.000	2800.00	1323.62	.00	2.61	.00	545.12	510.00
205.000	2800.00	1323.81	.19	2.71	.19	380.75	510.00
206.000	2700.00	1326.12	.00	2.50	.00	478.54	540.00
206.000	2700.00	1326.30	.18	2.49	.18	322.24	540.00
207.000	2600.00	1328.37	.00	2.25	.00	525.73	470.00
207.000	2600.00	1328.32	-.05	2.02	-.05	248.62	470.00
208.000	2500.00	1330.69	.00	2.33	.00	502.81	500.00
208.000	2500.00	1330.89	.20	2.57	.20	131.34	500.00
209.000	2300.00	1332.61	.00	1.91	.00	404.63	520.00
209.000	2300.00	1333.08	.47	2.19	.47	104.15	520.00
210.000	2200.00	1334.46	.00	1.85	.00	358.63	505.00
210.000	2200.00	1334.91	.45	1.83	.45	166.24	505.00
211.000	2100.00	1336.32	.00	1.86	.00	318.08	480.00
211.000	2100.00	1336.50	.19	1.60	.19	179.74	480.00
212.000	2000.00	1338.14	.00	1.83	.00	295.83	520.00
212.000	2000.00	1338.71	.57	2.21	.57	180.77	520.00
213.000	1900.00	1339.50	.00	1.36	.00	127.87	500.00
213.000	1900.00	1340.48	.97	1.76	.97	138.30	500.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
214.000	1800.00	1342.72	.00	3.21	.00	324.88	480.00
214.000	1800.00	1342.63	-.09	2.15	-.09	270.50	480.00
215.000	1700.00	1344.29	.00	1.58	.00	286.85	500.00
215.000	1700.00	1344.31	.02	1.68	.02	282.56	500.00
216.000	1700.00	1347.30	.00	3.00	.00	230.60	590.00

216.000	1700.00	1347.30	.00	2.99	.00	229.25	590.00
217.000	1700.00	1349.50	.00	2.21	.00	213.55	460.00
217.000	1700.00	1349.50	.00	2.20	.00	213.54	460.00
218.000	1700.00	1352.39	.00	2.89	.00	174.14	500.00
218.000	1700.00	1352.39	.00	2.89	.00	97.69	500.00
219.000	1600.00	1355.88	.00	3.49	.00	369.86	530.00
219.000	1600.00	1355.95	.06	3.55	.06	267.47	530.00
220.000	1600.00	1357.74	.00	1.86	.00	131.40	540.00
220.000	1600.00	1357.77	.02	1.82	.02	122.37	540.00
221.000	1600.00	1360.18	.00	2.44	.00	172.19	470.00
221.000	1600.00	1360.56	.38	2.80	.38	132.44	470.00
222.000	1600.00	1362.94	.00	2.75	.00	234.08	530.00
222.000	1600.00	1363.43	.49	2.86	.49	220.46	530.00
223.000	1500.00	1365.92	.00	2.98	.00	622.17	550.00
223.000	1500.00	1365.97	.05	2.54	.05	334.32	550.00
224.000	1500.00	1367.89	.00	1.97	.00	474.09	440.00
224.000	1500.00	1367.99	.10	2.02	.10	374.81	440.00
225.000	1400.00	1370.52	.00	2.63	.00	628.25	520.00
225.000	1400.00	1370.53	.01	2.55	.01	545.82	520.00
226.000	1400.00	1373.32	.00	2.79	.00	442.24	500.00
226.000	1400.00	1374.01	.69	3.47	.69	257.27	500.00
227.000	1400.00	1377.27	.00	3.95	.00	616.98	500.00
227.000	1400.00	1377.73	.47	3.72	.47	310.00	500.00
228.000	1300.00	1379.58	.00	2.31	.00	478.56	500.00
228.000	1300.00	1379.89	.31	2.16	.31	226.50	500.00
229.000	1200.00	1382.28	.00	2.70	.00	400.98	540.00
229.000	1200.00	1382.67	.38	2.78	.38	311.24	540.00
230.000	1100.00	1384.83	.00	2.55	.00	614.36	530.00
230.000	1100.00	1384.93	.10	2.27	.10	345.64	530.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
231.000	1000.00	1387.10	.00	2.27	.00	571.97	460.00
231.000	1000.00	1387.86	.76	2.92	.76	252.89	460.00
232.000	900.00	1391.17	.00	4.06	.00	398.90	590.00
232.000	900.00	1391.66	.49	3.80	.49	190.00	590.00
233.000	900.00	1393.50	.00	2.34	.00	324.95	460.00
233.000	900.00	1393.96	.46	2.31	.46	140.00	460.00
234.000	800.00	1396.17	.00	2.67	.00	346.26	490.00
234.000	800.00	1396.71	.54	2.74	.54	150.00	490.00
235.000	700.00	1398.98	.00	2.81	.00	266.31	495.00
235.000	700.00	1399.47	.48	2.76	.48	140.68	495.00
236.000	600.00	1401.78	.00	2.80	.00	406.05	510.00
236.000	600.00	1402.09	.31	2.62	.31	170.00	510.00
237.000	500.00	1404.14	.00	2.36	.00	126.14	510.00
237.000	500.00	1404.32	.18	2.23	.18	117.59	510.00

SUMMARY OF ERRORS AND SPECIAL NOTES

FLOODWAY DATA, WATERMAN WASH - WEST PRO
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
130.000	573.	1705.	2.8	1142.3	1141.4	.9
131.000	627.	1382.	3.5	1143.2	1142.4	.8
132.000	984.	1342.	3.6	1144.8	1144.8	.0
133.000	860.	1345.	3.6	1146.8	1146.8	.0
134.000	733.	1166.	4.1	1148.9	1148.9	.0
135.000	571.	1093.	4.4	1151.2	1151.0	.2
136.000	307.	865.	5.5	1153.8	1153.3	.5
137.000	487.	1199.	4.0	1155.8	1155.3	.5
138.000	566.	1370.	3.4	1157.1	1156.5	.6
139.000	557.	1037.	4.4	1158.7	1158.4	.3
140.000	532.	1032.	4.5	1161.4	1161.2	.2
141.000	340.	1090.	4.2	1163.6	1163.2	.4
142.000	180.	807.	5.7	1165.2	1164.7	.5
143.000	190.	627.	7.0	1167.3	1166.8	.5
144.000	184.	863.	5.1	1169.4	1168.6	.8
145.000	194.	869.	5.1	1170.6	1169.9	.7
146.000	320.	1090.	4.0	1172.0	1171.6	.4
147.000	268.	844.	5.2	1173.3	1173.2	.1
148.000	171.	441.	10.0	1175.2	1175.4	-.2
149.000	310.	1012.	4.3	1178.6	1178.1	.5
150.000	208.	933.	4.5	1179.8	1179.5	.3
151.000	146.	583.	7.2	1181.3	1181.2	.1
152.000	181.	547.	7.7	1184.3	1184.2	.1
153.000	323.	988.	4.2	1187.1	1186.6	.5
154.000	423.	1072.	3.9	1188.5	1188.1	.4
155.000	368.	612.	6.9	1190.3	1190.3	.0
156.000	200.	728.	5.8	1193.9	1193.6	.3
157.000	220.	853.	4.9	1196.1	1195.5	.6
158.000	340.	863.	4.6	1198.1	1197.4	.7
159.000	250.	741.	5.4	1200.1	1199.6	.5
160.000	205.	883.	4.5	1201.9	1201.4	.5
161.000	569.	1081.	3.7	1203.6	1203.2	.4
162.000	730.	1096.	3.7	1206.0	1205.8	.2
163.000	624.	905.	4.4	1208.7	1208.4	.3
164.000	394.	1013.	3.9	1211.0	1210.9	.1
165.000	257.	760.	5.3	1213.1	1213.0	.1
166.000	231.	789.	5.1	1215.8	1215.2	.6
167.000	551.	1187.	3.4	1218.2	1217.4	.8
168.000	776.	952.	4.2	1220.2	1220.1	.1
169.000	967.	1545.	2.6	1222.1	1221.7	.4
170.000	897.	1001.	4.0	1223.8	1223.3	.5
171.000	770.	1077.	3.7	1227.6	1226.9	.7

FLOODWAY DATA, WATERMAN WASH - WEST PRO
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
172.000	1000.	1234.	3.2	1230.5	1229.6	.9
173.000	1078.	1138.	3.5	1233.2	1232.5	.7
174.000	1130.	1352.	3.0	1235.9	1235.4	.5
175.000	1122.	1221.	3.3	1238.9	1238.5	.4
176.000	1320.	1252.	3.0	1241.5	1241.0	.5
177.000	1035.	1188.	3.2	1244.1	1243.5	.6
178.000	1189.	1057.	3.6	1246.9	1246.2	.7
179.000	1040.	1272.	3.0	1250.1	1249.2	.9
180.000	664.	935.	4.1	1252.7	1251.8	.9
181.000	332.	711.	5.3	1255.9	1254.9	1.0

182.000	470.	1058.	3.6	1258.4	1257.6	.8
183.000	530.	808.	4.7	1261.1	1260.8	.3
184.000	439.	714.	5.3	1264.3	1264.0	.3
185.000	269.	840.	4.5	1266.9	1266.7	.2
186.000	501.	755.	5.0	1270.3	1269.8	.5
187.000	898.	969.	3.9	1274.0	1273.1	.9
188.000	1090.	773.	4.9	1276.7	1276.2	.5
189.000	710.	1151.	3.3	1280.2	1279.2	1.0
190.000	544.	806.	4.7	1282.3	1281.4	.9
191.000	410.	801.	4.7	1285.7	1284.8	.9
192.000	360.	898.	4.2	1288.7	1287.7	1.0
193.000	270.	688.	5.5	1291.2	1290.6	.6
194.000	200.	717.	5.3	1293.9	1293.3	.6
195.000	200.	639.	5.9	1296.6	1296.2	.4
196.000	290.	823.	4.6	1299.7	1299.4	.3
197.000	237.	796.	4.8	1302.0	1301.8	.2
198.000	339.	1000.	3.7	1303.7	1303.7	.0
199.000	467.	703.	5.1	1306.6	1306.6	.0
200.000	603.	964.	3.5	1310.5	1310.4	.1
201.000	589.	897.	3.7	1313.1	1313.1	.0
202.000	519.	870.	3.7	1315.6	1315.5	.1
203.000	489.	840.	3.7	1318.3	1318.3	.0
204.000	601.	815.	3.6	1321.1	1321.0	.1
205.000	513.	711.	3.9	1323.8	1323.6	.2
206.000	332.	782.	3.5	1326.3	1326.1	.2
207.000	249.	556.	4.7	1328.4	1328.4	.0
208.000	131.	476.	5.3	1330.9	1330.7	.2
209.000	104.	422.	5.5	1333.1	1332.6	.5
210.000	166.	592.	3.7	1334.9	1334.5	.4
211.000	180.	436.	4.8	1336.5	1336.3	.2
212.000	268.	571.	3.5	1338.7	1338.1	.6
213.000	308.	418.	4.5	1340.5	1339.5	1.0

1

FLOODWAY DATA, WATERMAN WASH - WEST PRO
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
214.000	372.	679.	2.6	1342.7	1342.7	.0
215.000	317.	574.	3.0	1344.3	1344.3	.0
216.000	524.	454.	3.7	1347.3	1347.3	.0
217.000	730.	526.	3.2	1349.5	1349.5	.0
218.000	151.	245.	6.9	1352.4	1352.4	.0
219.000	267.	656.	2.4	1356.0	1355.9	.1
220.000	197.	364.	4.4	1357.7	1357.7	.0
221.000	231.	382.	4.2	1360.6	1360.2	.4
222.000	430.	476.	3.4	1363.4	1362.9	.5
223.000	834.	588.	2.6	1365.9	1365.9	.0
224.000	1062.	530.	2.8	1368.0	1367.9	.1
225.000	1149.	693.	2.0	1370.5	1370.5	.0
226.000	311.	314.	4.5	1374.0	1373.3	.7
227.000	310.	577.	2.4	1377.8	1377.3	.5
228.000	250.	359.	3.6	1379.9	1379.6	.3
229.000	311.	520.	2.3	1382.7	1382.3	.4
230.000	360.	469.	2.3	1384.9	1384.8	.1
231.000	253.	332.	3.0	1387.9	1387.1	.8
232.000	190.	335.	2.7	1391.7	1391.2	.5
233.000	140.	278.	3.2	1394.0	1393.5	.5
234.000	150.	259.	3.1	1396.7	1396.2	.5
235.000	160.	232.	3.0	1399.5	1399.0	.5
236.000	170.	224.	2.7	1402.1	1401.8	.3
237.000	123.	194.	2.6	1404.3	1404.1	.2

1

THIS RUN EXECUTED 09-04-91

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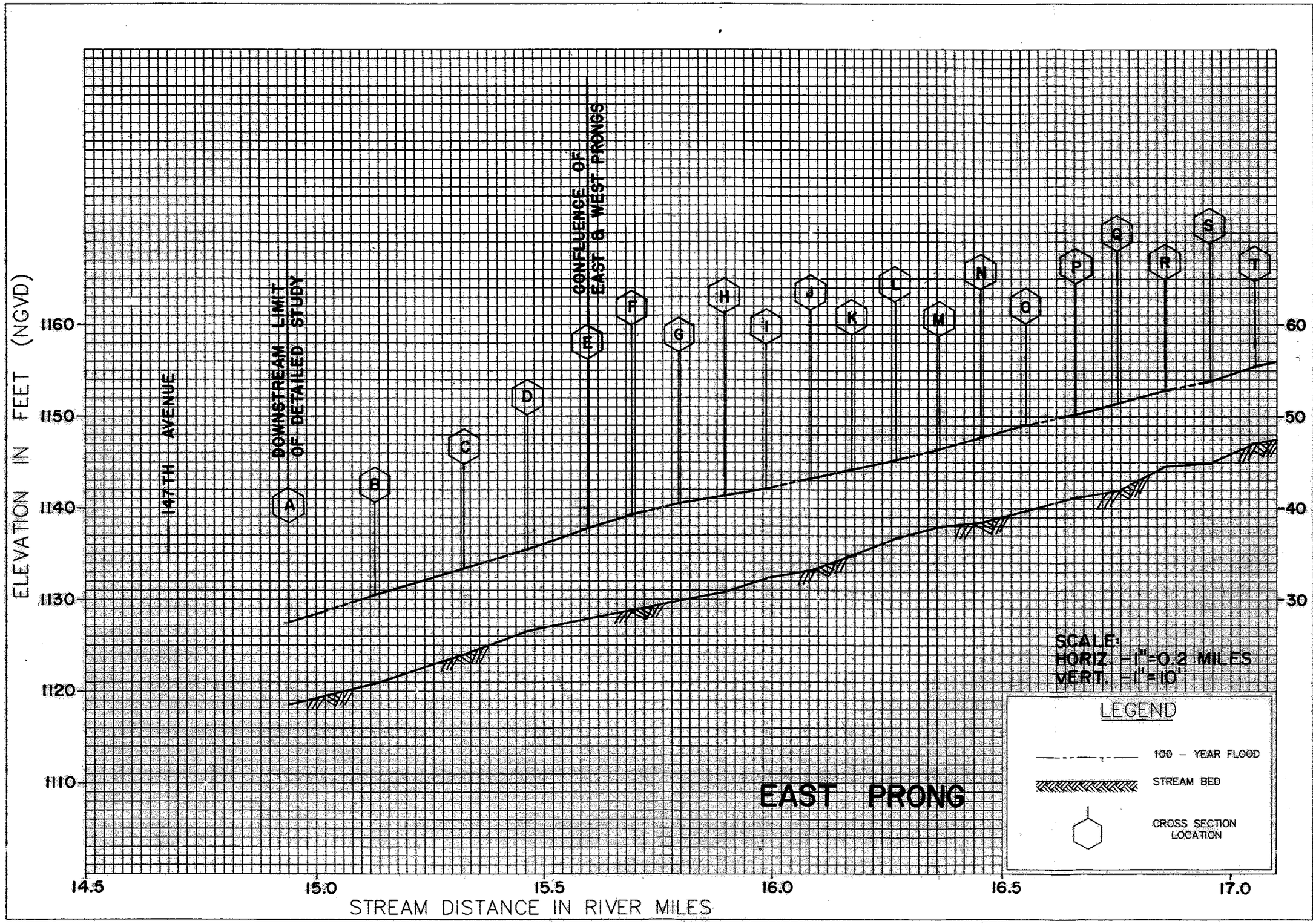
HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06

APPENDIX E

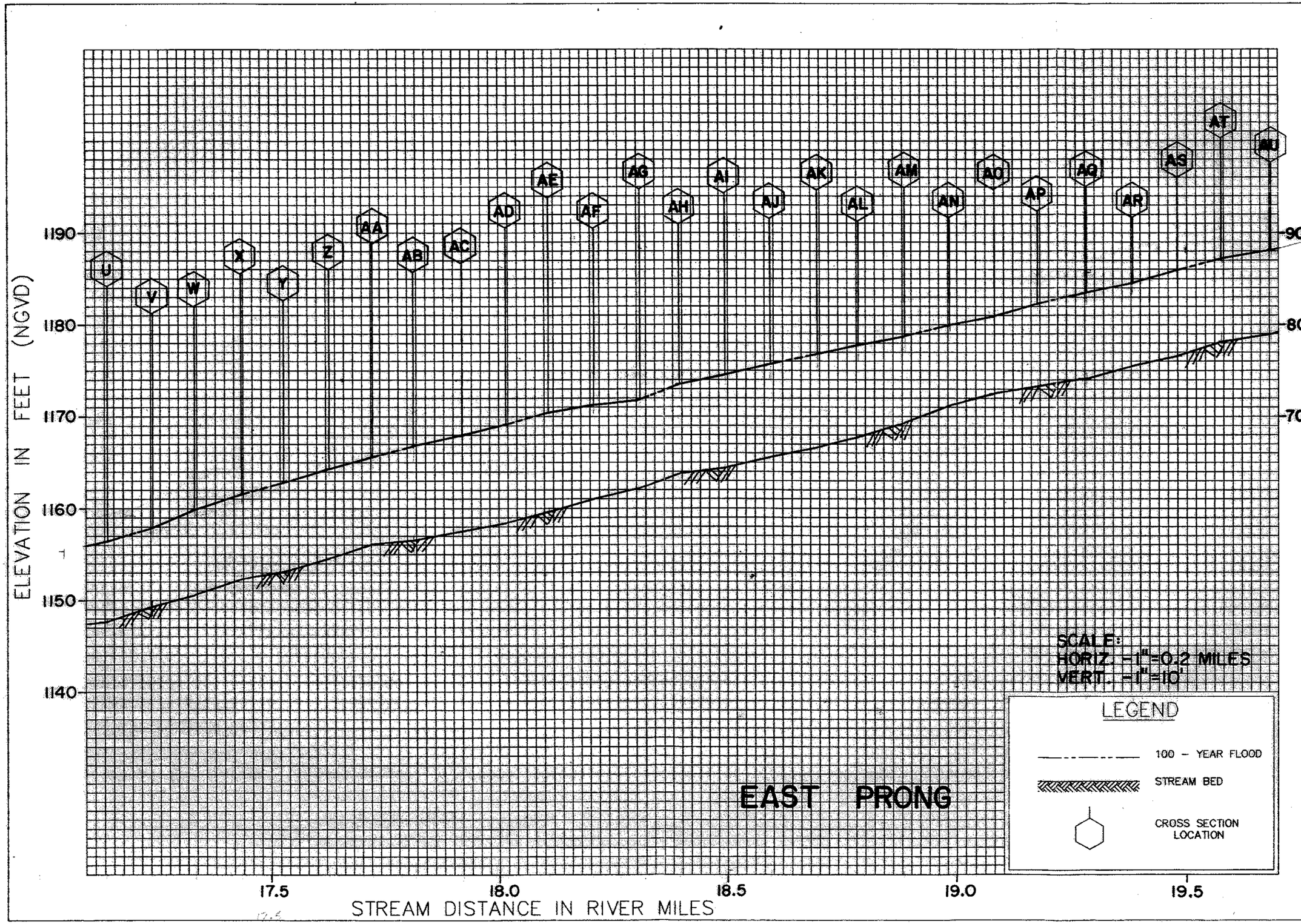
WATER SURFACE PROFILES (East and West Prongs)



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

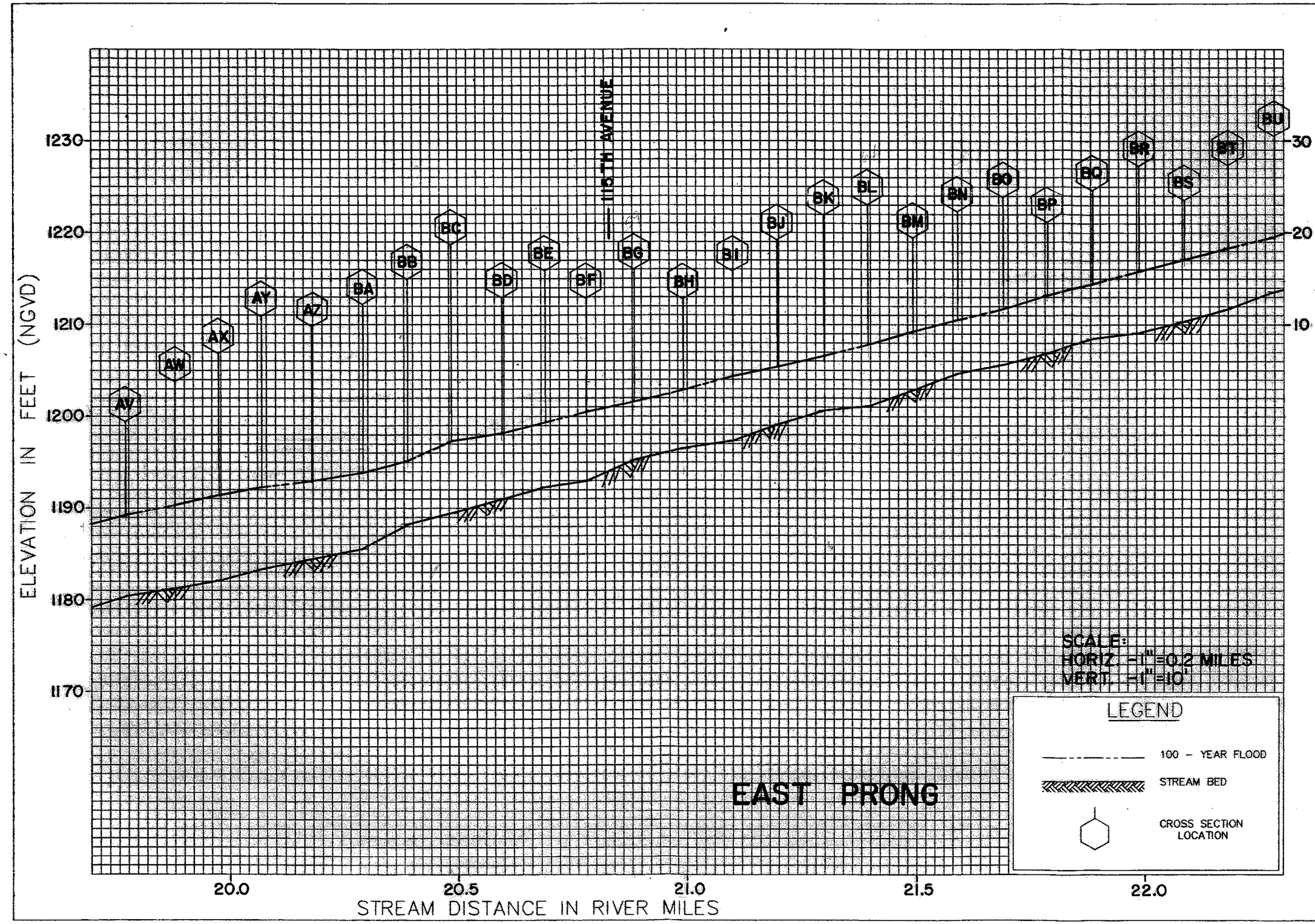
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

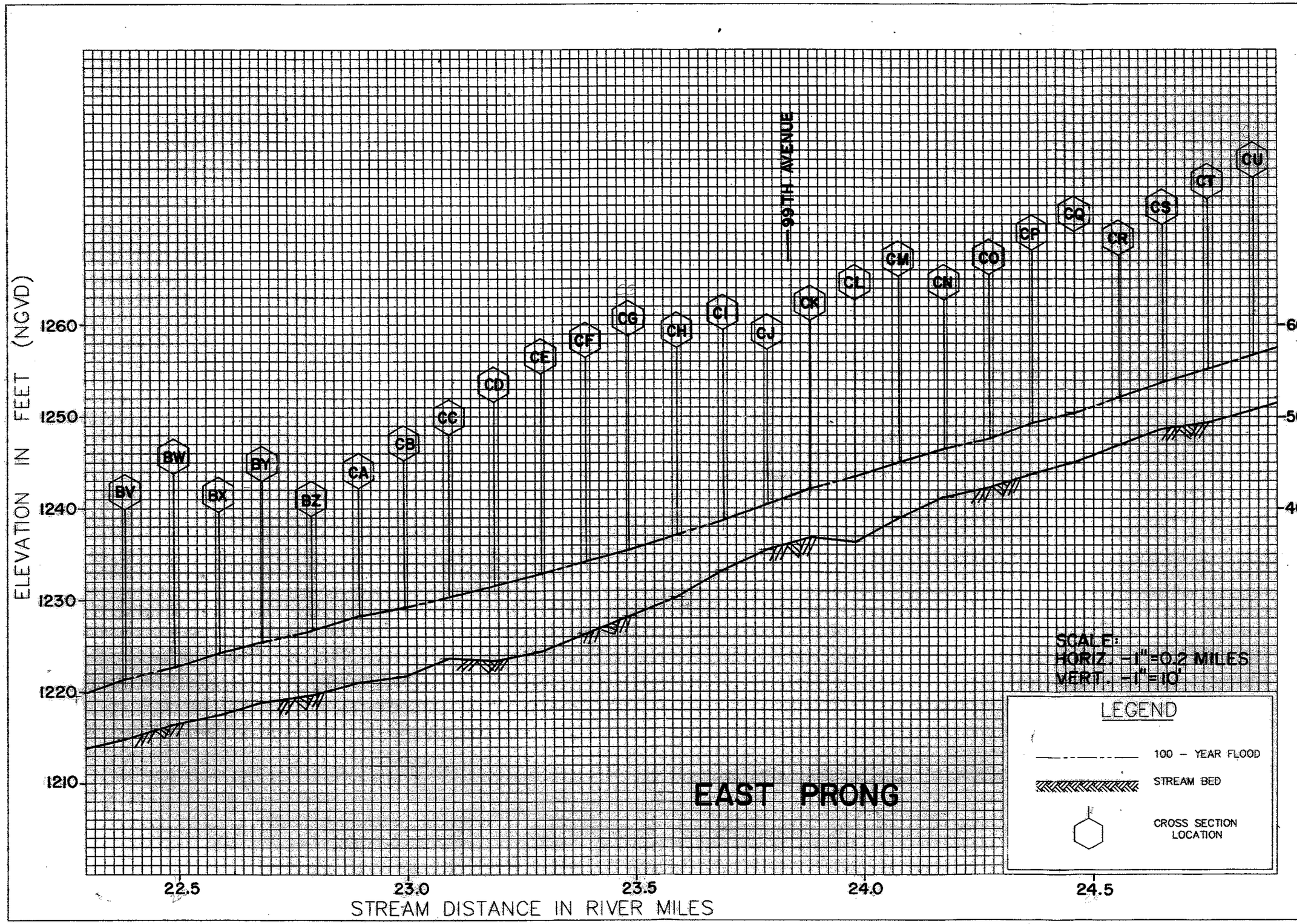
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

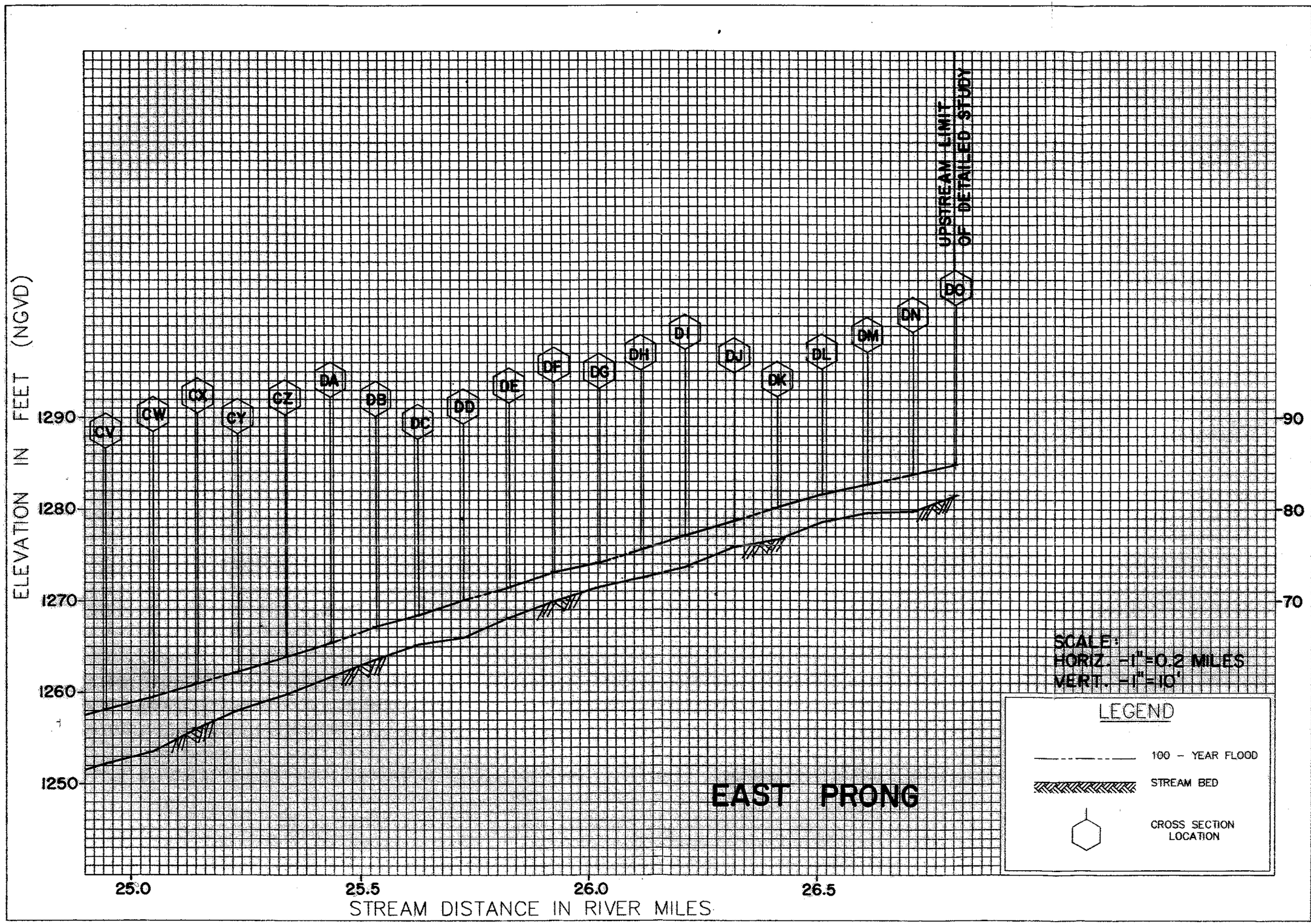
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

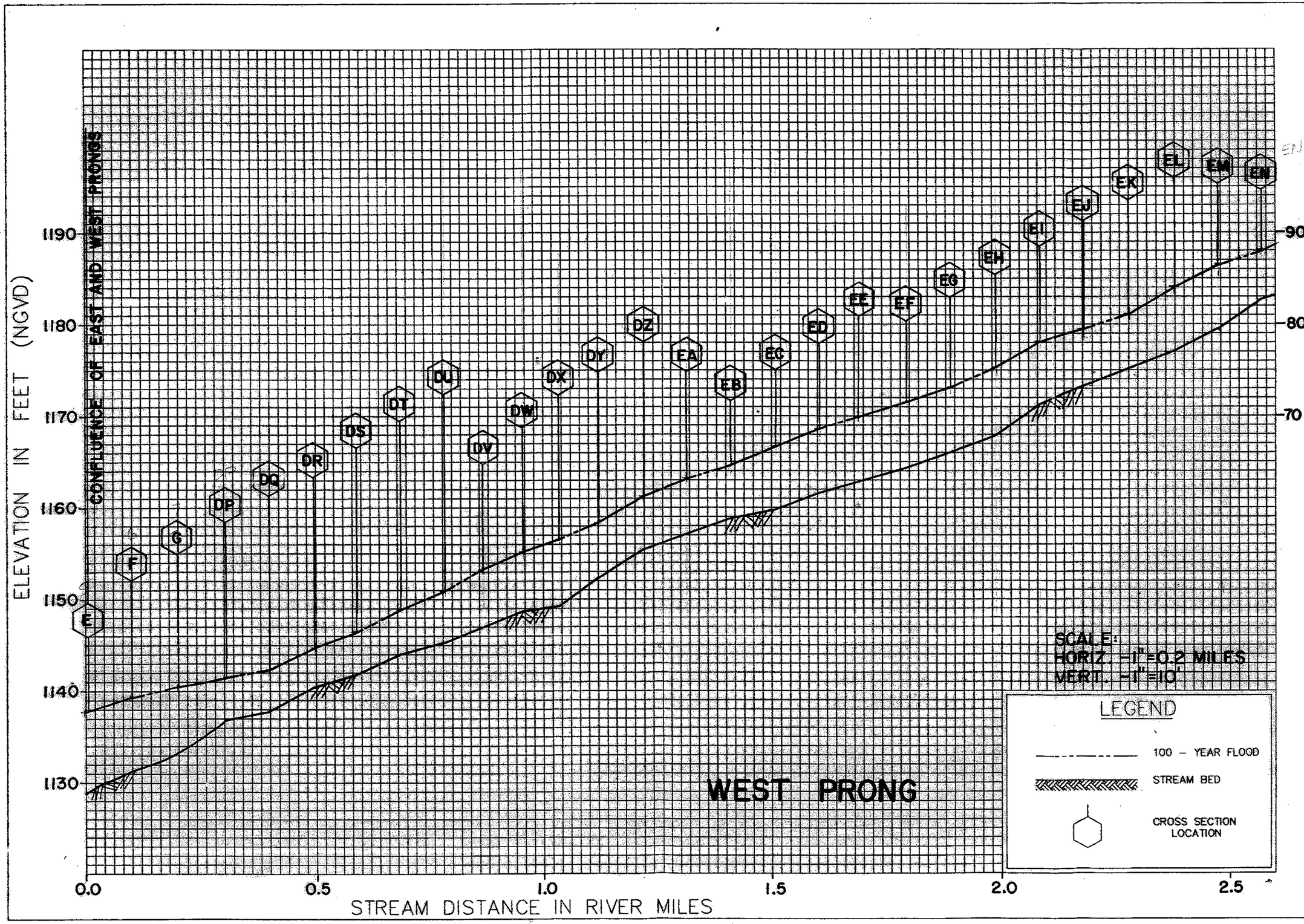
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

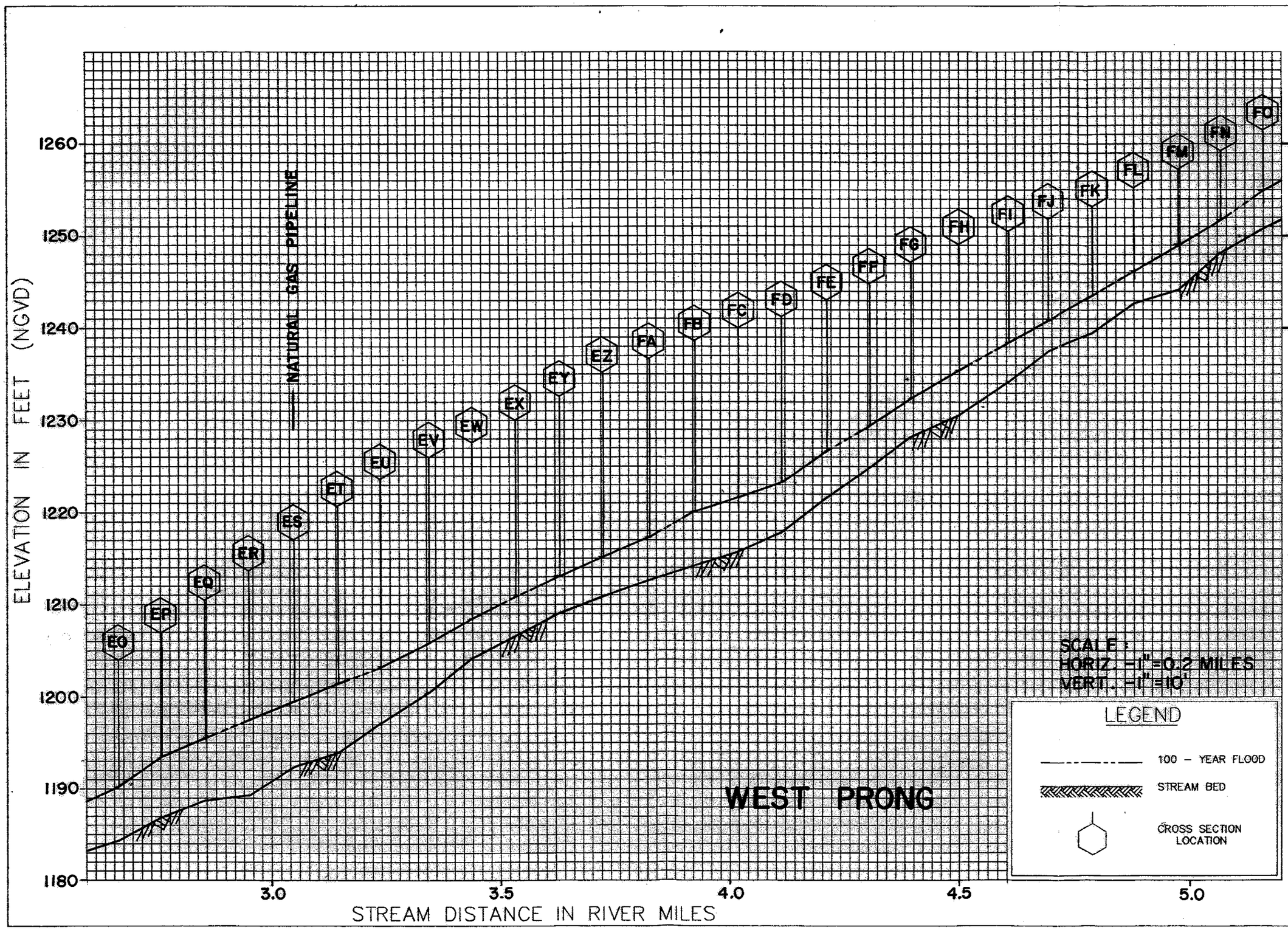
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

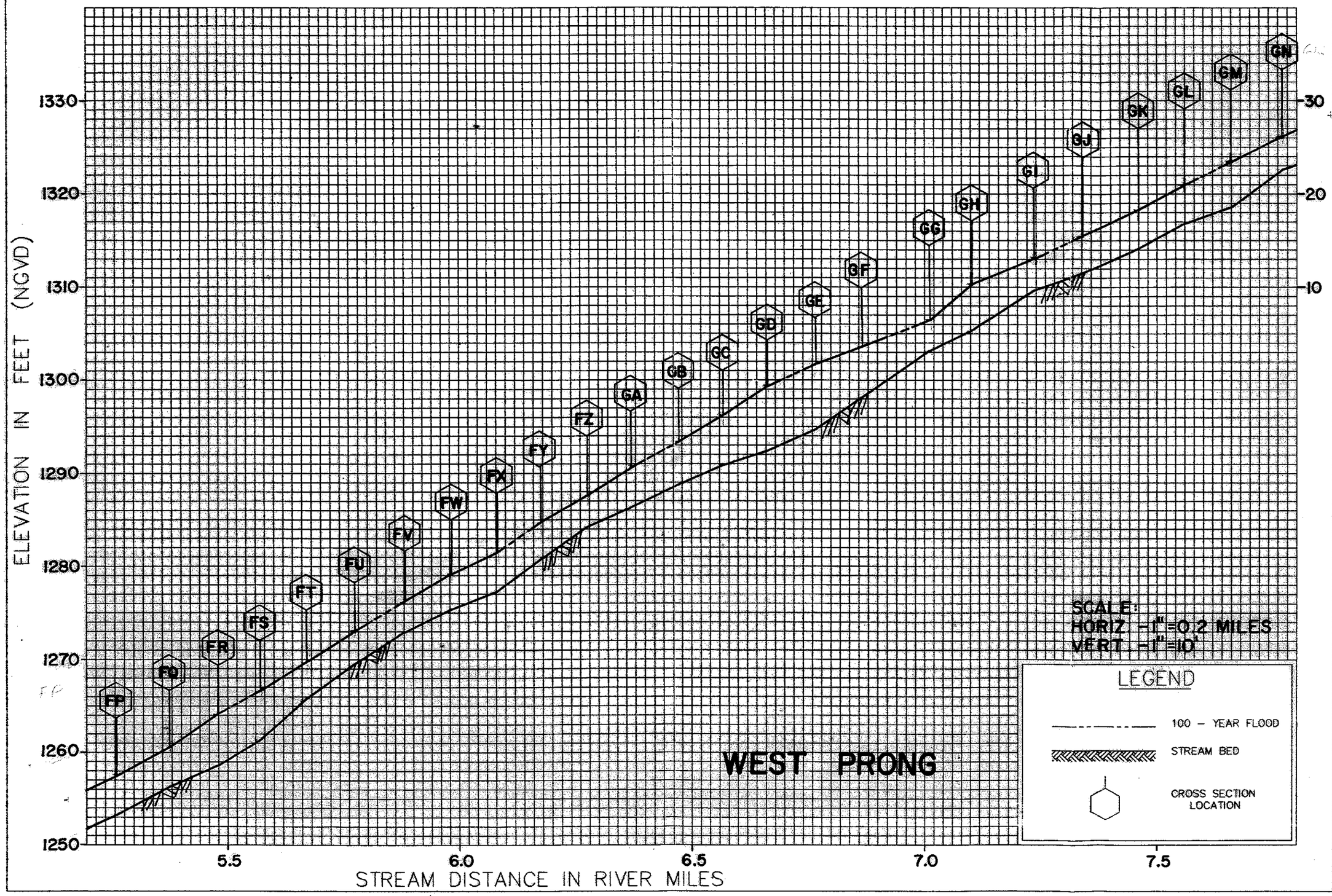
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

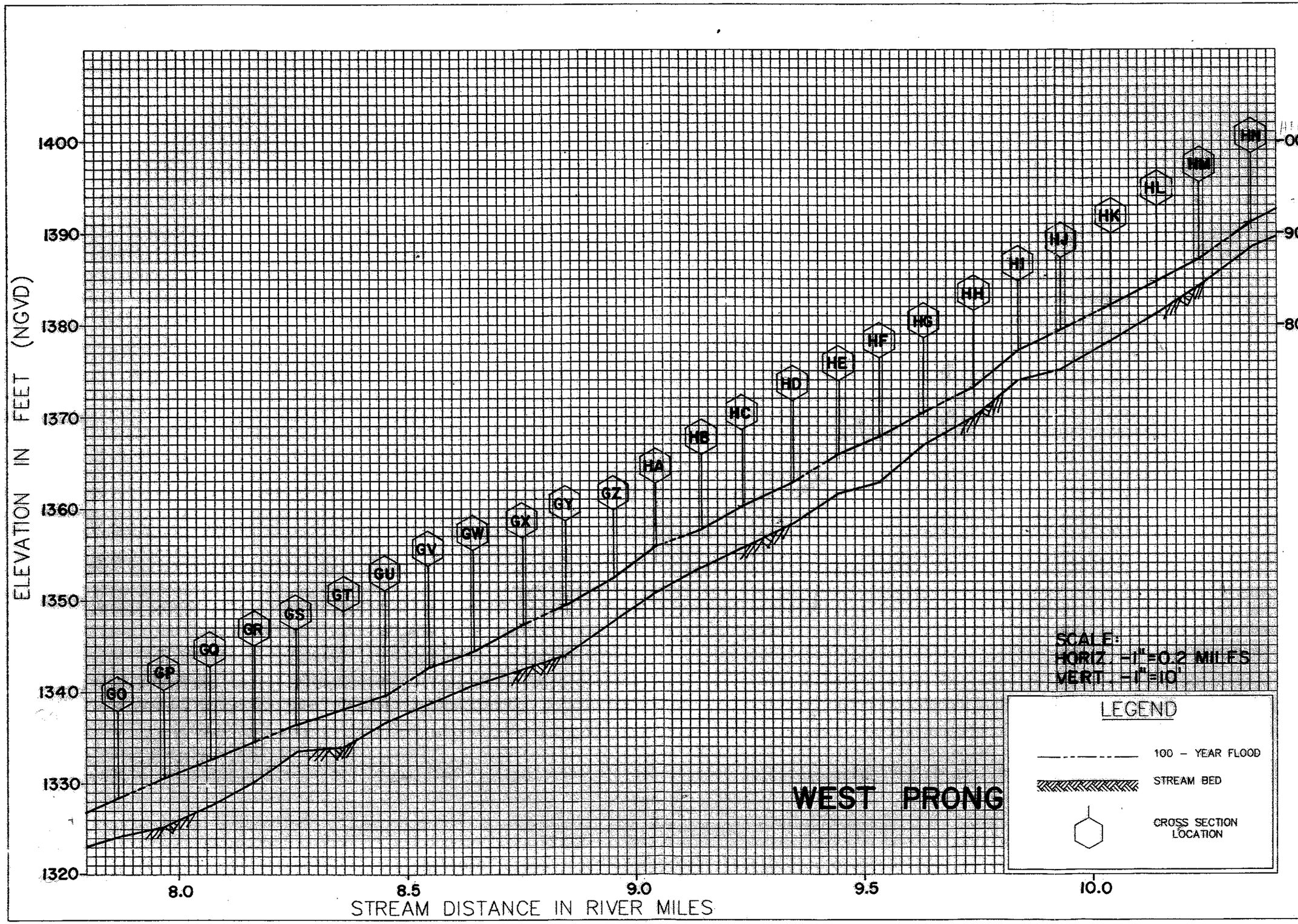
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

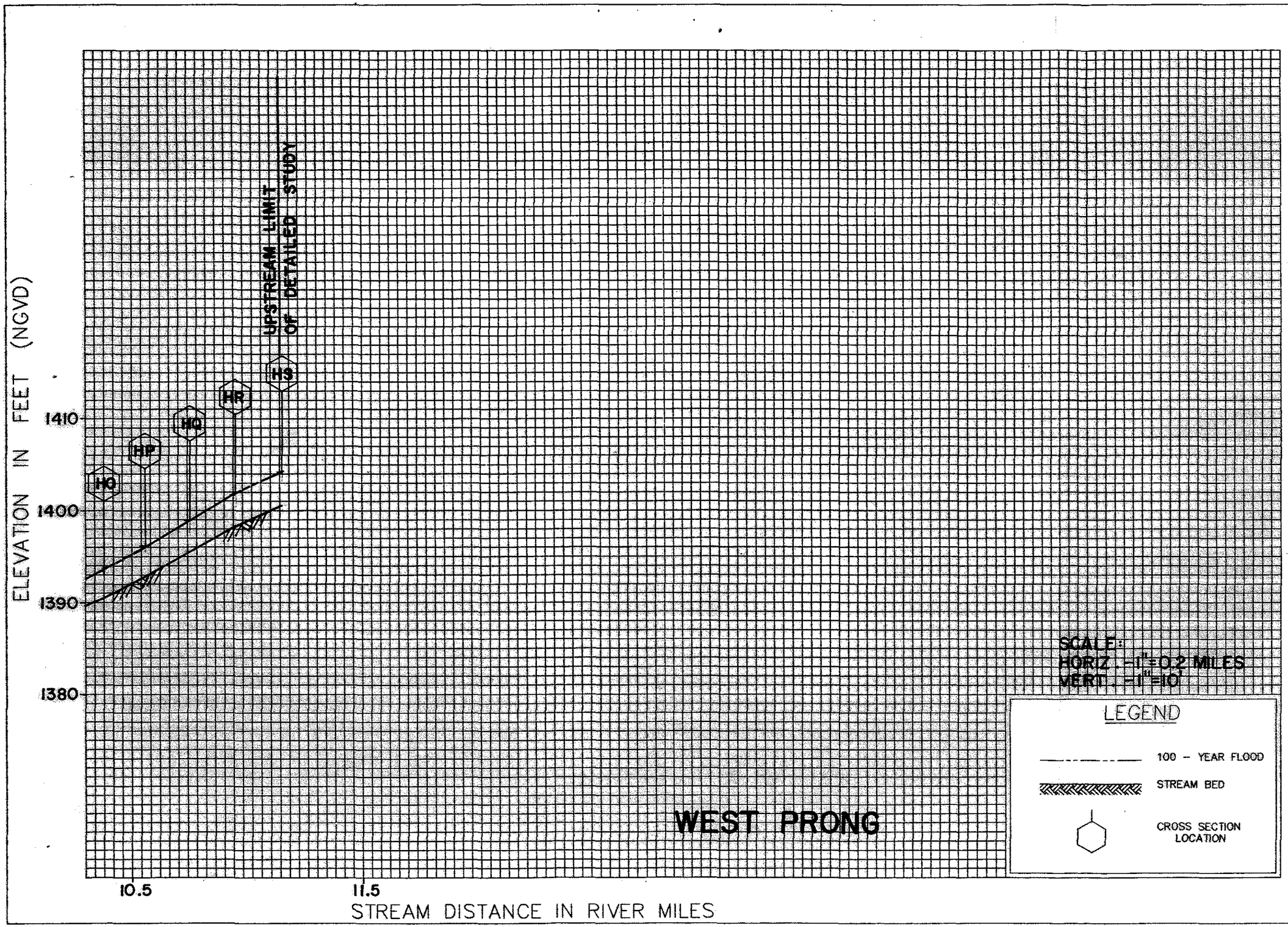
FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

FEDERAL EMERGENCY MANAGEMENT AGENCY



FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

FEDERAL EMERGENCY MANAGEMENT AGENCY

APPENDIX F

HEC-1 INPUT DATA

Computed by PLO Date AUG. 91
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Job No. 10512 Page No.
Subject WATERMAN WASH

Sheet No. 1 of 5

DETERMINE Tc's & LAG FOR DRAINAGE AREAS

METHODOLOGY

1) FROM TOPOGRAPHY
   a) DETERMINE SLOPE
   b) DETERMINE HYDRAULIC LENGTH (ℓ)

2) USING UPLAND METHOD (NEH, Ch 15) DETERMINE Tc BY
   a) DETERMINE VELOCITY (V) FROM FIG 15.2
   b) DETERMINE TRAVEL TIME T_t FROM EQ. 15.1
   c) SUM T_t's TO OBTAIN Tc

3) CALCULATE LAG (L) USING EQ 15.3

EQ. 15.1 → $T_t = \frac{\ell}{3600\,V}$

EQ 15.3 → $L = 0.6\,T_c$

SHT 2 of 5

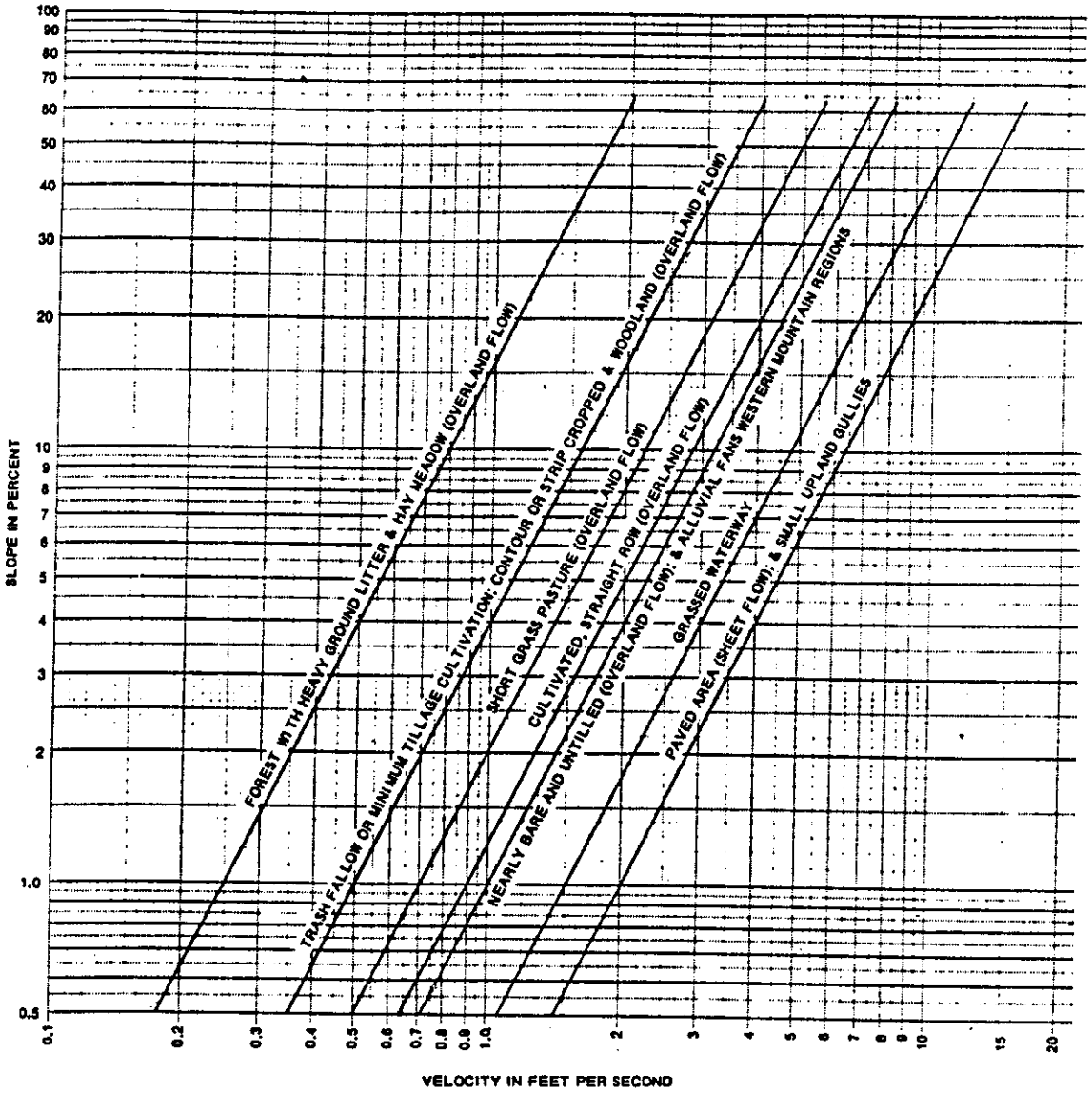

Figure 15.2.—Velocities for upland method of estimating T_c

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Job No. 1052 Page No.
Subject: WATERMAN WASH

Sheet No. 3 of 5

DRAINAGE AREA#	SLOPE %	VELOCITY (ft/s) FROM FIG. 15.2	HYDRAULIC LENGTH (FT)	T_t (hr) FROM EQ. 15.1	T_c (hr) SUM T_t's	LAG (hr) EQ. 15.3
A	30.0	5.5	2000	0.10		
	1.9	1.45	16,600	3.18	3.28	1.97
B	29.0	5.4	5000	0.26		
	1.7	1.4	20,600	4.09	4.35	2.61
C	22.0	4.8	900	0.05		
	1.2	1.15	15,000	3.62	3.67	2.20
D	1.0	1.0	31,500	8.75	8.75	5.25
E	1.1	1.1	21,500	5.43	5.43	3.26
F	22.9	4.9	3500	0.20		
	0.9	0.97	76,000	21.76	21.96	13.18
145	20.0	4.5	4,000	0.25		
	1.4	1.25	33000	7.33	7.58	4.55

3904

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SHEET NO. 4 OF 5
CALCULATED BY TDC DATE AUG 91
CHECKED BY GSB DATE AUG 91
SCALE

Drainage Area #	Slope (%)	Velocity (Ft/s) (From Fig. 15.2	Hydraulic Length (ft)	T_t (hr) EQ 15.1	T_c (hr) Sum T_t's	Lag (hr) EQ 15.3
I (m+w)	11.9	3.5	6,700	0.53		
	1.0	1.0	47,500	13.19	13.72	8.23
II (m+w)	31.9	5.7	3,300	0.16		
	0.8	0.9	16,600	5.12	5.28	3.17
III (m+w)	22.4	4.9	3,700	0.21		
	0.81	0.9	26,000	8.02	8.23	4.94
IV (m+w)	14.9	3.9	6,800	0.48		
	1.14	1.1	58,200	14.70	15.18	9.11
V	0.5	0.71	11,000	4.30	4.36	2.58
VI (m+w)	26.7	5.30	3,000	0.16		
	0.8	0.9	27,500	8.49	8.65	5.19
VII	0.5	0.71	23,000	9.0	9.0	5.4
VIII	0.8	0.9	21,300	6.57	6.57	3.94
IX	0.6	0.78	31,000	11.04	11.04	6.62
X (m+w	29.2	5.5	6,200	0.31		
	1.2	1.15	46,000	11.11	11.42	6.85

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JOB Waterman Wash
SHEET NO. 5 OF 5
CALCULATED BY TDC DATE AUG 91
CHECKED BY GSB DATE AUG 91
SCALE

Drainage Area #	Slope (%)	Velocity (Ft/s) (From Fig. 15.2)	Hydraulic Length (Ft)	T_t (hr) EQ 15.1	T_c (hr) Sum T_t's	Lag (hr) EQ 15.3
XI (mtn)	53.5	7.4	1,000	0.04		
	0.6	0.78	21,500	7.66	7.7	4.62
XII	0.6	0.78	45,000	16.03	16.03	9.62
XIII	0.5	0.71	34,500	13.50	13.54	8.10
XIV (mtn)	26.7	5.25	9,500	0.50		
	1.0	1.0	43,500	12.08	12.58	7.55

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Computed by BCO Date Aug 91

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Subject WATERMAN WASH

Sheet No. 1 of 9

LOSSES —

→ REFERENCES / AREA:

BUCKEYE
CASA GRANDE } UNPUBLISHED SOIL SURVEYS
CHANDLER
CENTRAL MARICOPA

→ METHOD:

ESTIMATE % AREAS FOR EACH SOIL TYPE

ESTIMATE % IMPERVIOUS FOR EACH SUB-BASIN, DEDUCT FROM TOTAL

WEIGHT UL FROM TABLE 4.3

WEIGHT IL FROM TABLE 4.3 (NORMAL)

ESTIMATE SOIL COVER/LAND USE % TABLE 4.1

10 % OF AGRICULTURE SHOWN WAS USED

WEIGHT IA

IA + IL = STRTL (STARTING LOSS FOR HEC 1)

3004

Job No. 12512 Page No.

Subject WATERMAN WASH

Computed by BLO Date

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Sheet No. 2 of 9

SOILS LIST

UPPER - BASIN

SANDY LOAM	LOAM
DATELAND	CIPRIANO
DENURA	GUNSIGHT
GROWLER	QUILOTOSA
MOHALL	
MOMOLI	

Job No. 12512 Page No.

Computed by BCO Date Aug 91

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Subject WATERMAN WASH

Sheet No. 3 of 9

UPPER BASIN

SUB-BASIN	AREA
A	2.78
B	6.87
C	1.09
D	11.06
E	2.72
F	60.1
145	12.83
I	32.21
II	7.1
III	7.02
IV	10.54
V	2.45
VI	7.60
VII	4.08
VIII	10.07
IX	9.20
X	18.09
XI	4.78
XII	10.32
XIII	5.03
XIV	21.1

TOTAL 247.04 SQ. MI

Job No. _____ Page No. _____

Subject WATERMAN WASH

Computed by BCO Date Aug 91

Checked by GSB Date Aug 91

Reviewed by _____ Date _____

Approved by _____ Date _____

Sheet No. 4 of 9

SUB-BASIN	AREA SANDY LOAM IL=0.6 UL=0.4	AREA LOAM IL=0.7 UL=0.25	WEIGHTED IL AVG.	WEIGHTED UL AVG.
A	2.621	0.159	0.61	0.39
B	5.841	1.029	0.62	0.38
C	0.386	0.704	0.66	0.30
D	9.40	1.66	0.62	0.38
E	2.640	0.0805	0.60	0.40
F	52.840	8.260	0.61	0.38
145	5.132	7.698	0.66	0.31
I	25.77	6.44	0.62	0.37

3004

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Job No. Page No.
Subject WATERMAN WASH

Sheet No. 5 of 9

SUB-BASIN	SANDY LOAM IL=0.6 UL=0.4	LOAM IL=0.7 UL=0.25	WEIGHTED IL AVG.	WEIGHTED UL AVG.
II	5.68	1.42	0.62	0.37
III	6.669	0.351	0.61	0.39
IV	9.576	1.064	0.61	0.39
V	2.45	—	0.60	0.40
VI	6.46	1.14	0.62	0.38
VII	4.08	—	0.60	0.40
VIII	7.049	3.021	0.63	0.36
IX	9.20	—	0.60	0.40

3004

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Job No. Page No.
Subject WATERMAN WASH

Sheet No. 6 of 9

SUB BASIN	SANDY LOAM IL=0.6 UL=0.4	LOAM IL=0.7 UL=0.25	WEIGHTED IL AVG.	WEIGHTED UL AVG
X	9.045	9.045	0.65	0.33
XI	4.541	0.239	0.61	0.39
XII	9.923	0.307	0.60	0.40
XIII	5.03	—	0.60	0.40
XIV	15.825	5.275	0.63	0.36

3004

Table 4.1
Surface Retention Loss for
Various Land Surfaces in Maricopa County

Land-use and/or Surface Cover (1)	Surface Retention Loss IA, inches (2)
Natural	
Desert and rangeland, flat slope	0.35
Hillslopes, Sonoran Desert	0.15
Mountain, with vegetated surface	0.25
Developed (Residential and Commercial)	
Lawn and turf	0.20
Desert landscape	0.10
Pavement	0.05
Agricultural	
Tilled fields and irrigated pasture	0.50

Table 4.3
Initial Loss Plus Uniform Loss Rate Parameter Values
for Bare Ground according to Soil Texture Classification

Soil Texture Classification (1)	Uniform Loss Rate CNSTL (2)	Initial Loss, inches IL[1]		
		Dry (3)	Normal (4)	Saturated (5)
sand	4.6	1.3	1.3	0
loamy sand	1.2	0.8	0.8	0
sandy loam	0.40	0.7	0.6	0
loam	0.25	0.8	0.7	0
silty loam	0.15	0.6	0.5	0
silt	0.10	0.6	0.5	0
sandy clay loam	0.06	0.6	0.5	0
clay loam	0.04	0.5	0.4	0
silty clay loam	0.04	0.6	0.5	0
sandy clay	0.02	0.4	0.3	0
silty clay	0.02	0.4	0.3	0
clay	0.01	0.3	0.2	0

[1] Selection of IL:
Dry = Nonirrigated lands such as desert and rangeland;
Normal = Irrigated lawn, turf, and permanent pasture;
Saturated = Irrigated agricultural land.

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Subject WATERMAN WASH
Sheet No. 3 of 9

SUB-BASIN	DRAINAGE AREA SQ.MI.	(0.15) HILLSLOPE SQ.MI.	(0.35) DESERT & RANGELAND mi²	WEIGHTED IA VALUE	IL	STRTL IA+IL	UL	ASSUMED IMPERVIOUS %
A	2.78	0.22	2.56	0.33	.61	0.94	.39	0
B	6.87	0.34	6.53	0.34	.62	0.96	.38	0
C	1.09	0.17	0.92	0.32	.66	0.98	.30	4
D	11.06	0.55	10.51	0.34	.62	0.96	.38	2
E	2.72	0	2.72	0.35	.60	0.95	.40	1
F	60.1	3.06	58.04	0.34	.61	0.95	.38	3
145	12.83	8.98	3.85	0.21	.66	0.87	.31	10
I	32.21	3.22	28.99	0.33	.62	0.95	.37	1
II	7.1	0.57	6.53	0.33	.62	0.95	.37	0
III	7.02	0.21	6.81	0.34	.61	0.95	.39	0
IV	10.54	0.64	10.0	0.34	.61	0.95	.39	0

3004

Job No. 10312 Page No.

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Subject WATERMAN WASH

Sheet No. 9 of 9

SUB-BASIN	DRAINAGE AREA SQ. MI.	(0.15) HILLSLOPE SQ. MI.	(0.35) DESERT + RANGELAND MI.²	WEIGHTED IA VALUE	IL	STRTL IA+IL	UL	ASSUMED IMPERVIOUS %
V	2.45	0	2.45	0.35	.60	0.95	.40	0
VI	7.60	0.38	7.22	0.34	.62	0.96	.38	2
VII	4.08	0	4.08	0.35	.60	0.95	.40	1
VIII	10.07	0.50	9.57	0.34	.63	0.97	.36	5
IX	9.20	0	9.20	0.35	.60	0.95	.40	0
X	18.09	2.71	15.38	0.32	.65	0.97	.33	10
XI	4.78	0.10	4.68	0.35	.61	0.96	.39	2
XII	10.32	0.10	10.22	0.35	.60	0.95	.40	1
XIII	5.03	0	5.03	0.35	.60	0.95	.40	0
XIV	21.1	2.19	16.08	0.33	.63	0.96	.36	5

3004

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JOB

SHEET NO. 1 OF 4

CALCULATED BY TDC DATE 1/22/90

CHECKED BY GSB DATE Aug 91

SCALE Cross Sections For Normal Depth Routing

	Reach #	Ft. Upstream Of Confluence	X-Section # Used
West Prong	5	38,000'	208
	6	26000'	183
	7	13 000'	156
	8	5000'	140
East Prong	12	43000'	95
	13	39000'	87
	14	32000'	72
	15	23 000'	55
	16	14200'	36
	17	6000'	20

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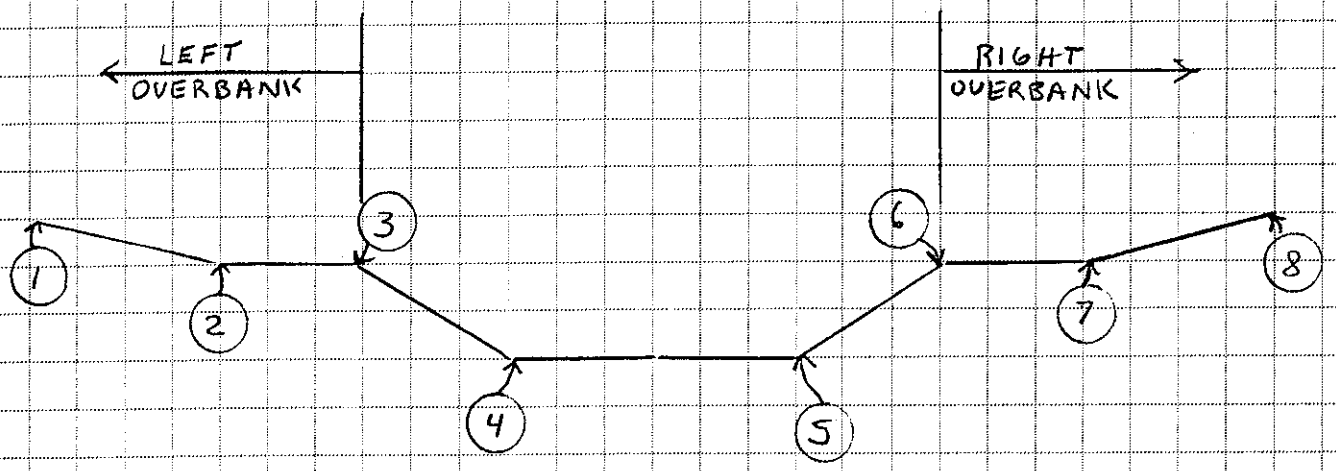
SHEET NO. 2 OF 4

CALCULATED BY TDC DATE 1/23/90

CHECKED BY GSB DATE AUG 91

SCALE



Normal Depth Point Locations For X-Sect.

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JOB [illegible]
SHEET NO. 3 OF 4
CALCULATED BY TDC DATE 11 23 90
CHECKED BY GSB DATE AUG 91
SCALE EAST PRONG X-SECTIONS

Reach # 17 (X-Sect # 20)

Elev (Y)	Dist. (X)
1159.7	0
1153.3	1401
1153.8	1617
1147.1	1637
1147.1	1662
1151.8	1694
1153.1	1720
1158.6	2801

Reach #16 (X-Sect # 36)

Elev. (Y)	Dist (X)
1181.2	0
1175.1	478
1173.3	966
1165.7	976
1165.7	994
1172.4	1006
1175.8	1381
1180.7	1907

Reach # 15 (X-Sect # 55)

Elev (Y)	Dist (X)
1200.1	0
1195.8	227
1194.7	1232
1189.5	1239
1189.5	1255
1194.4	1266
1196.9	1799
1198.3	2061

Reach # 14 (X-Sect # 72)

Elev (Y)	Dist (X)
1220.3	0
1216.8	1194
1215.5	1486
1211.9	1503
1211.8	1526
1217.3	1532
1217.4	1791
1220.3	2510

Reach # 13 (X-Sect # 87)

Elev (Y)	Dist (X)
1241.6	0
1238.9	459
1237.7	960
1233.3	976
1233.6	1014
1236.7	1025
1237.9	1374
1241.8	2432

Reach # 12 (X-Sect # 95)

Elev (Y)	Dist (X)
1253.5	0
1249.5	754
1248.4	1102
1244.0	1112
1244.1	1126
1247.8	1138
1249.8	1342
1255	2306

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SHEET NO. 4 OF 4

CALCULATED BY TDL DATE 1/23/96

CHECKED BY GEB DATE AUG 91

SCALE WEST PRONG X-SECTIONS

Reach #8 (X-Sect #140)

Elev (Y)	Dist. (X)
1160.5	0
1160.6	700
1160.1	736
1156.2	760
1156.6	879
1159.0	921
1161.0	1012
1160	2810

Reach #7 (X-Sect # 156)

Elev (Y)	Dist (X)
1195.3	0
1193.4	711
1192.3	922
1187.8	940
1186.9	999
1192.1	1016
1193.2	1293
1195.3	1738

Reach #6 (X-Sect #183)

Elev (Y)	Dist. (X)
1263.5	0
1262.2	1804
1258.5	2973
1256.3	2985
1256.3	3043
1260.7	3060
1262.6	3096
1262.9	3218

Reach #5 (X-Sect # 208)

Elev (Y)	Dist (X)
1336.5	0
1333.8	580
1330.9	921
1325.1	936
1326.6	1012
1329.9	1025
1333.4	1554
1335.9	2381

REACH #'s 1, 2, 3, 4, 9, 10, 65, 11 (X-SECT # 7)

ELEV (Y)	DIST (X)
20	100
12	101
12	190
10	195
10	205
12	210
12	299
20	300

← ADDED AUG 91

"n" OVERBANK = 0.070

"n" CHANNEL = 0.035

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DESIGNED BY GSB DATE Aug 91 SHEET NO. 1 PAGE NO.
CHECKED BY TAC DATE Oct 91 OF 2 JOB NO. 10512
REVIEWED BY DATE SUBJECT: WATERMAN WASH
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ESTIMATE COMPUTATION TIME INTERVAL (UPPER WATERSHED)

SUBBASIN	TC (HRS)
A	3.78
B	4.35
C	3.67
D	8.75
E	5.43
F	21.96
145	7.58
I	13.72
II	5.28
III	8.23
IV	15.18
V	4.30
VI	8.65
VII	9.00
VIII	6.57
IX	11.04
X	11.42
XI	7.70
XII	16.03
XIII	13.50
XIV	12.58
21	198.22

AVG TC = 198.22/21 = 9.44 HRS

TIME INTERVAL = 0.133 X AVG TC
= 0.133 x 9.44
= 1.26 HRS = 75 MIN

USE OF THIS TIME INTERVAL RESULTS IN NUMEROUS HEC 1 WARNING MESSAGES SUGGESTING A SHORTER TIME INTERVAL. A SENSITIVITY ANALYSIS INDICATES USE OF A 10 MINUTE TIME INTERVAL DOES NOT CHANGE RESULTING PEAK FLOWS SIGNIFICANTLY WHILE ELIMINATING MOST OF THE TIME INTERVAL WARNING MESSAGES.

∴ USE 10 MIN TIME INTERVAL

SC 3020

Job No. 10512 Page No.

Computed by RCO Date Aug 91
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Subject WATERMAN WASH

Sheet No. 2 of 2

CALCULATE # OF SUBREACHES FOR EACH ROUTING REACH (NSTPS)

ASSUME: $\Delta t = 10$ min.
$V = 5$ fps

PROCEDURE

1) DETERMINE REACH LENGTH

2) DETERMINE (T_t) IN MINUTES FOR FLOW TO TRAVEL FROM TOP OF REACH TO BOTTOM OF REACH IF $V = 5$ fps.

3) DIVIDE TRAVEL TIME BY Δt

REACH #	LENGTH (ft)	V (fps)	T_T (min.)	Δt (min)	NSTPS ($T_T/\Delta t$)
1	26,000	5	86.81	10	8.6 ≈ 9
2	11,400	5	37.98	10	3.8 ≈ 4
3	6,500	5	21.70	10	2.2 ≈ 3
4	6,500	5	21.70	10	2.2 ≈ 3
5	8,500	5	28.33	10	2.8 ≈ 3
6	17,000	5	56.70	10	5.7 ≈ 6
7	9,000	5	30.00	10	3.0 ≈ 3
8	9,500	5	31.67	10	3.2 ≈ 4
9	45,200	5	150.80	10	15.1 ≈ 16
10	29,900	5	99.7	10	9.97 ≈ 10
65	32,500	5	108.5	10	10.9 ≈ 11
11	12,500	5	41.23	10	4.1 ≈ 5
12	5,400	5	18.0	10	1.8 ≈ 2
13	2,000	5	6.7	10	.7 ≈ 1
14	11,100	5	37.0	10	3.7 ≈ 4
15	10,400	5	34.7	10	3.5 ≈ 4
16	8,200	5	27.3	10	2.7 ≈ 3
17	9,800	5	32.7	10	3.3 ≈ 4

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CHECKED BY TOL DATE Oct 91 OF 10 JOB NO. 10512
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PRECIPITATION AND AERIAL REDUCTION —

→ USE NOAA ATLAS 2, PRECIP-FREQ OF WESTERN U.S.

→ PLOT 2, 5, 10, 25, 50 AND 100 YEAR POINT VALUES ON FIGURE 1

→ DRAW LINE OF BEST FIT AND DETERMINE CORRECTED VALUE FOR 100 YEAR 24 HOUR.

→ USE FIG. 15 OF NOAA TECHNICAL MEMORANDUM NWS HYDRO 40 TO DETERMINE AERIAL REDUCTION

JD RECORDS FOR HEC 1 :

AREA	POINT PRECIP	REDUCTION FACTOR	REDUCED PRECIP
0.1	4.40	1.00	4.40
10	4.40	0.95	4.18
50	"	0.88	3.85
100	"	0.85	3.74
200	"	0.82	3.61
300	"	0.80	3.54
400	"	0.79	3.50
500	"	0.78	3.45

```
JD   4.40   0.1
PC
|
PC
JD   4.18   10
JD   3.85   50
JD   3.74   100
JD   3.61   200
JD   3.54   300
JD   3.50   400
JD   3.45   500
```

MAX 9 VALUES IN HEC 1

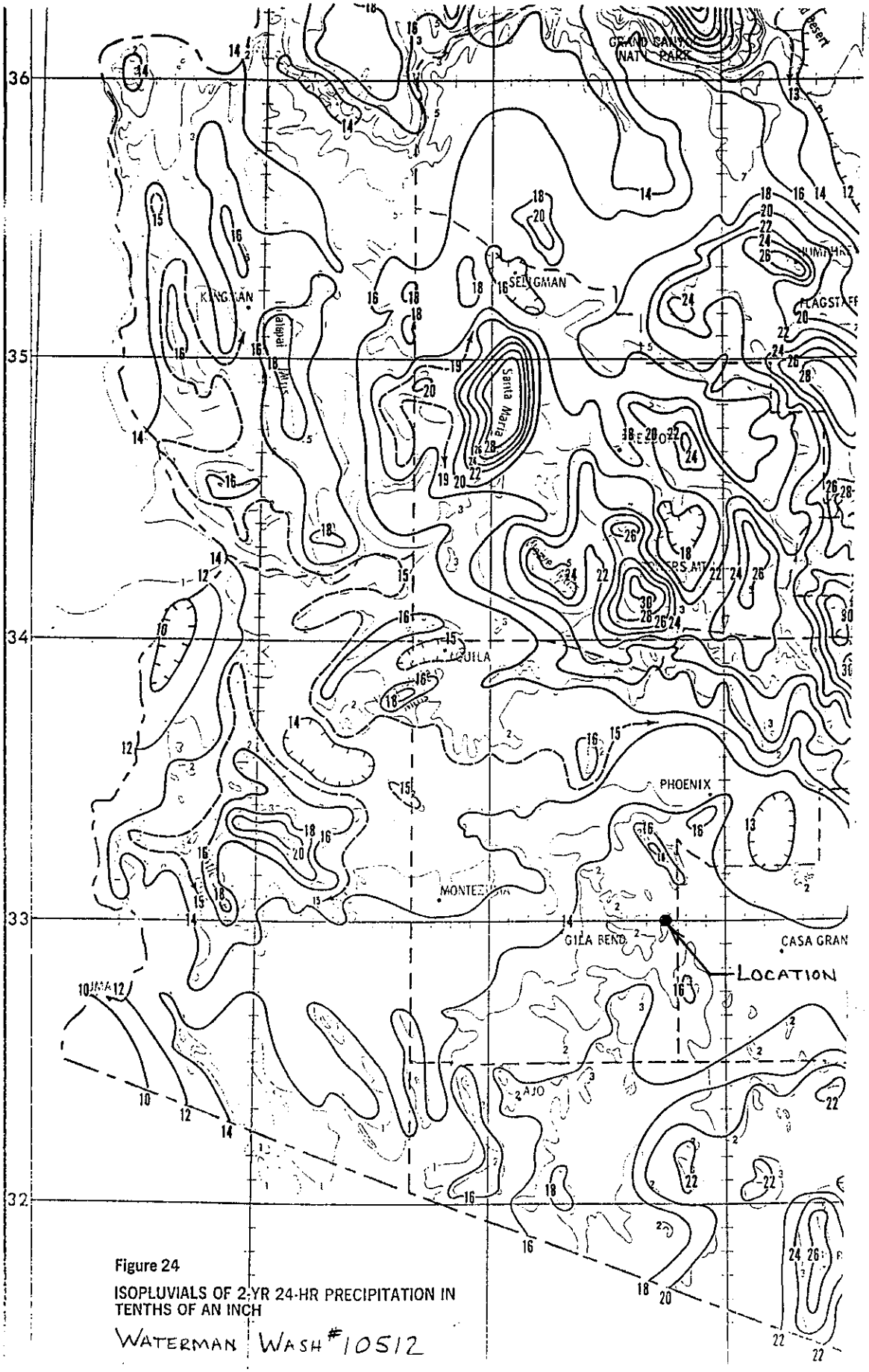

Figure 24

ISOPLUVIALS OF 2-YR 24-HR PRECIPITATION IN TENTHS OF AN INCH

WATERMAN WASH #10512

3 of 10

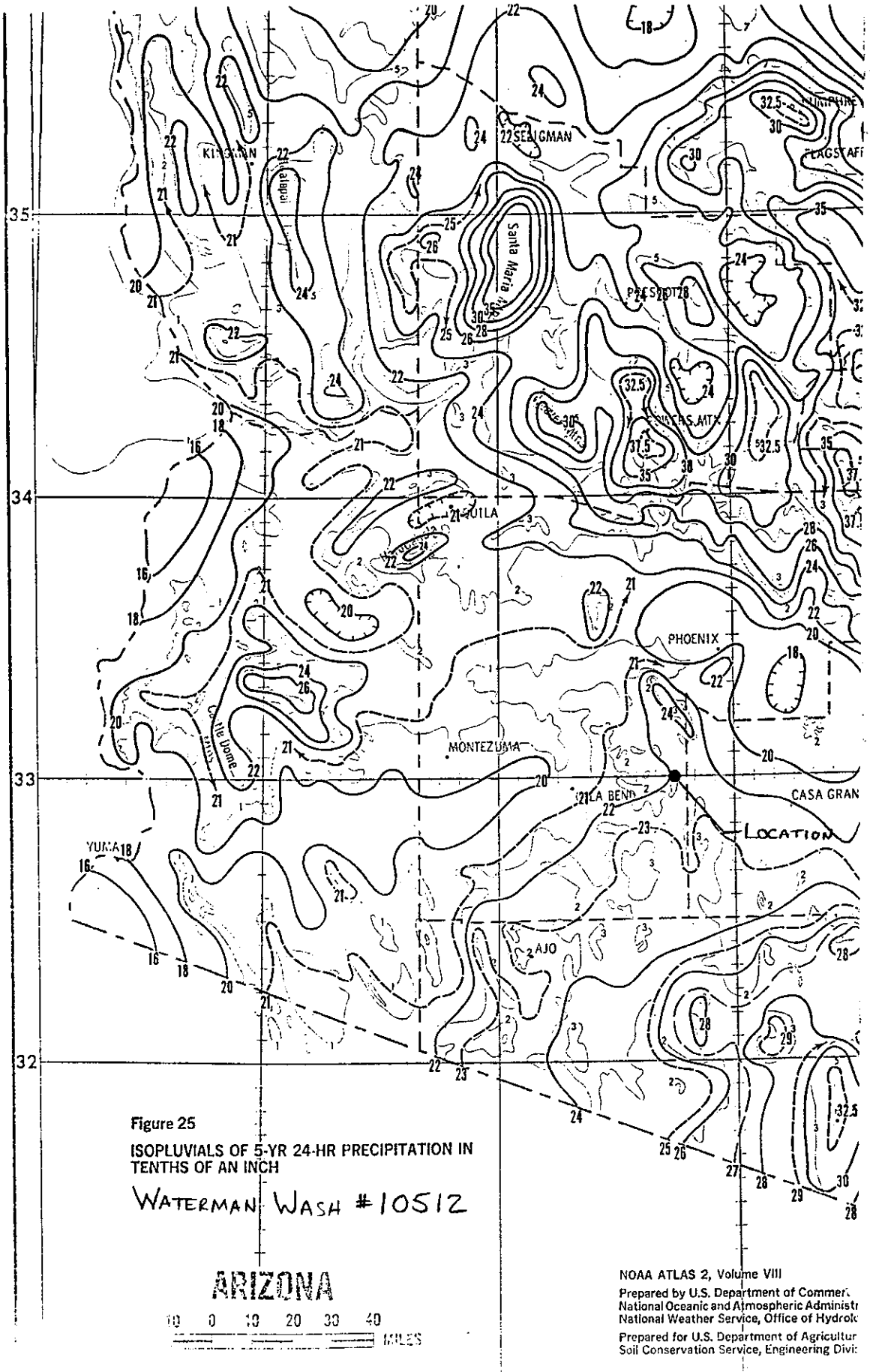

Figure 25

ISOPLUVIALS OF 5-YR 24-HR PRECIPITATION IN TENTHS OF AN INCH

WATERMAN WASH #10512

ARIZONA

10 0 10 20 30 40 MILES

NOAA ATLAS 2, Volume VIII

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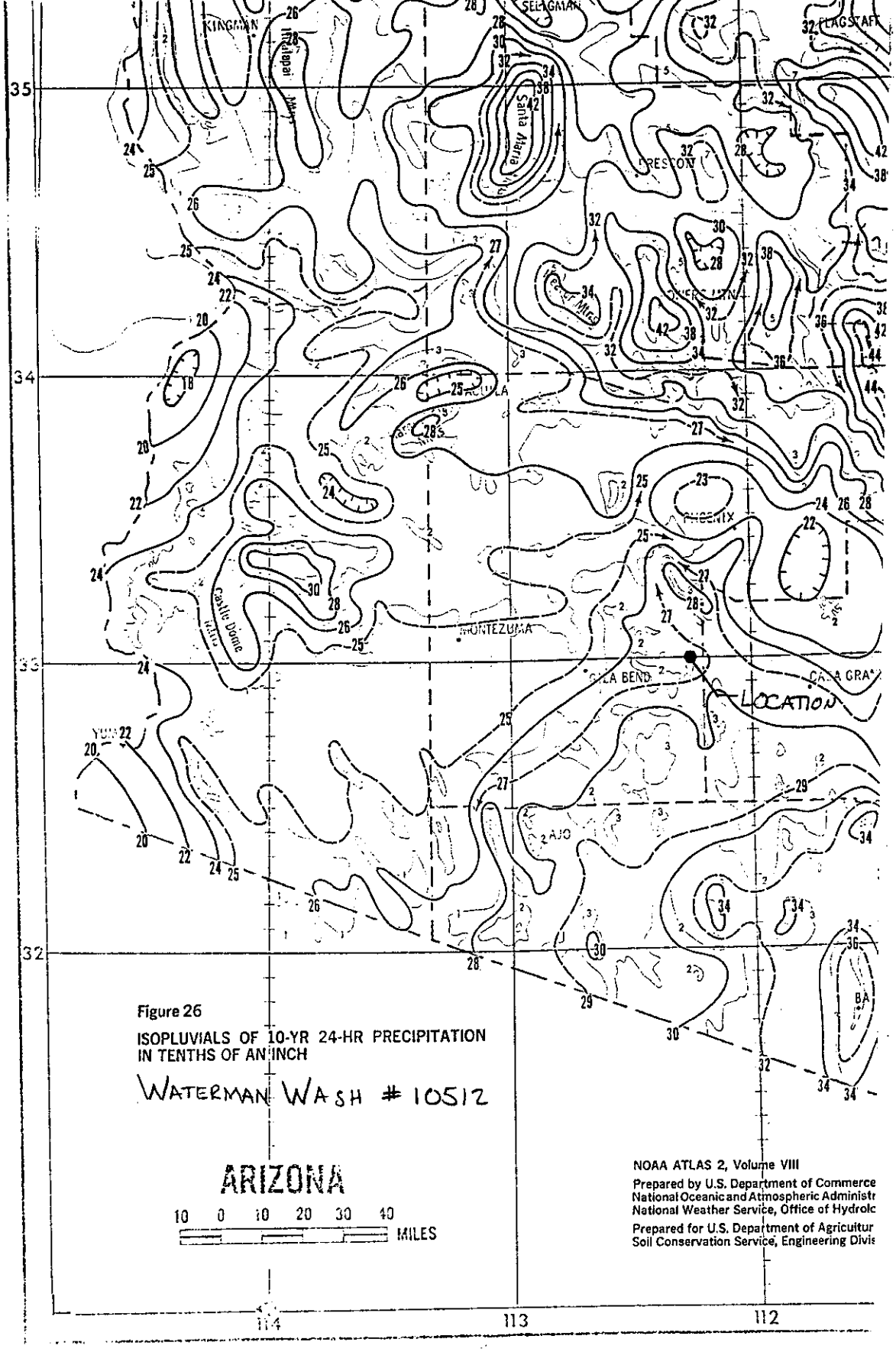
National Oceanic and Atmospheric Administr
National Weather Service, Office of Hydrol

Prepared for U.S. Department of Agricultur
Soil Conservation Service, Engineering Divi



4 of 10

Figure 26

ISOPLUVIALS OF 10-YR 24-HR PRECIPITATION IN TENTHS OF AN INCH

WATERMAN WASH # 10512

ARIZONA

10 0 10 20 30 40 MILES

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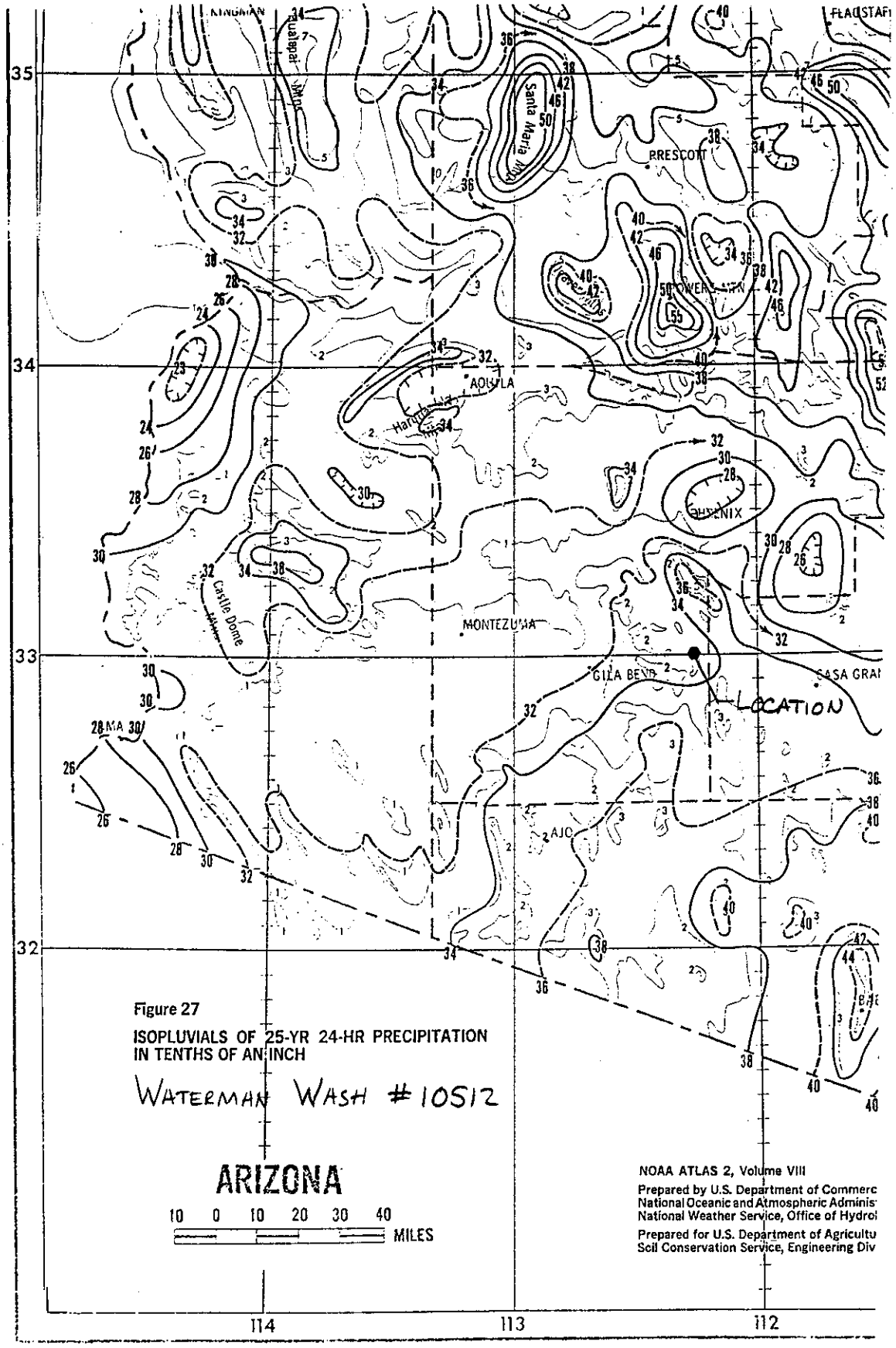

Figure 27

ISOPLUVIALS OF 25-YR 24-HR PRECIPITATION IN TENTHS OF AN INCH

WATERMAN WASH #10512

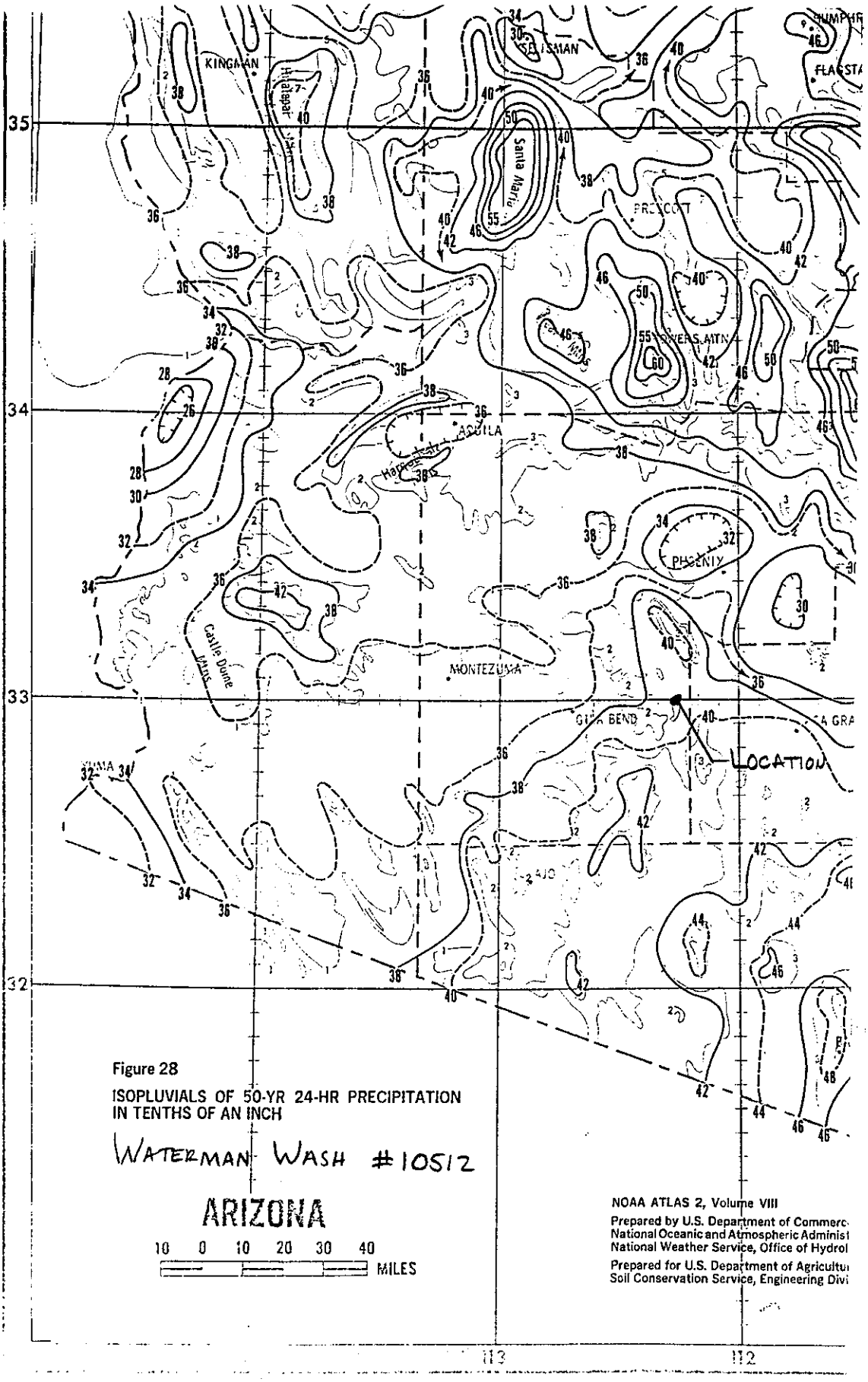

Figure 28

ISOPLUVIALS OF 50-YR 24-HR PRECIPITATION IN TENTHS OF AN INCH

WATERMAN WASH #10512

ARIZONA

10 0 10 20 30 40 MILES

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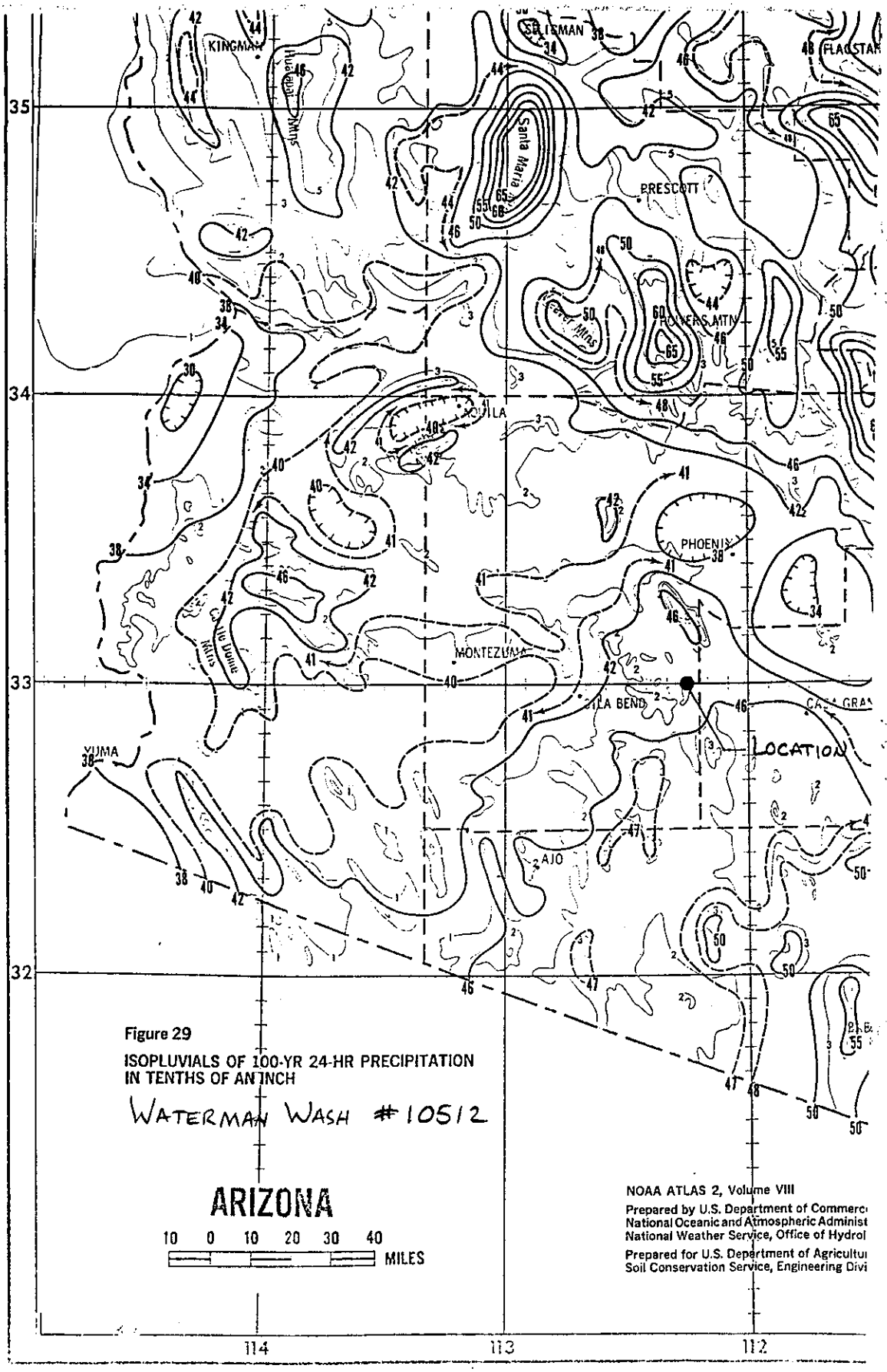

Figure 29

ISOPLUVIALS OF 100-YR 24-HR PRECIPITATION IN TENTHS OF AN INCH

WATERMAN WASH #10512

ARIZONA

10 0 10 20 30 40 MILES

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Steps to be used to determine precipitation values for various durations and return periods.

STEP 1. From the precipitation maps in the manual "Hydrologic Design for Highway Drainage in Arizona", determine the precipitation values for the 6 and 24 hour duration storms for return periods of 2, 5, 10, 25, 50 and 100 years. Tabulate these values in Table 1 in the column headed 'Map Values'

TABLE 1

Return Period (Years)	Precipitation Values (inches)			
	6 hour duration		24 hour duration	
	Map Value	Corrected Value	Map Value	Corrected Value
2			1.60	1.60
5			2.25	2.30
10			2.70	2.75
25			3.35	3.35
50			3.90	3.85
100			4.45	4.40

NOTE: There is a possibility of making an error while reading the maps because, (1) a site is not easy to locate precisely on a series of 12 maps, (2) there may be some slight registration differences in printing, and (3) precise interpolation between isolines is difficult. In order to minimize any errors in reading the maps, these values should be plotted on the diagram "Precipitation Depth versus Return Period" Fig. 1.

Project No. 384-2 Waterman Wash Station _____

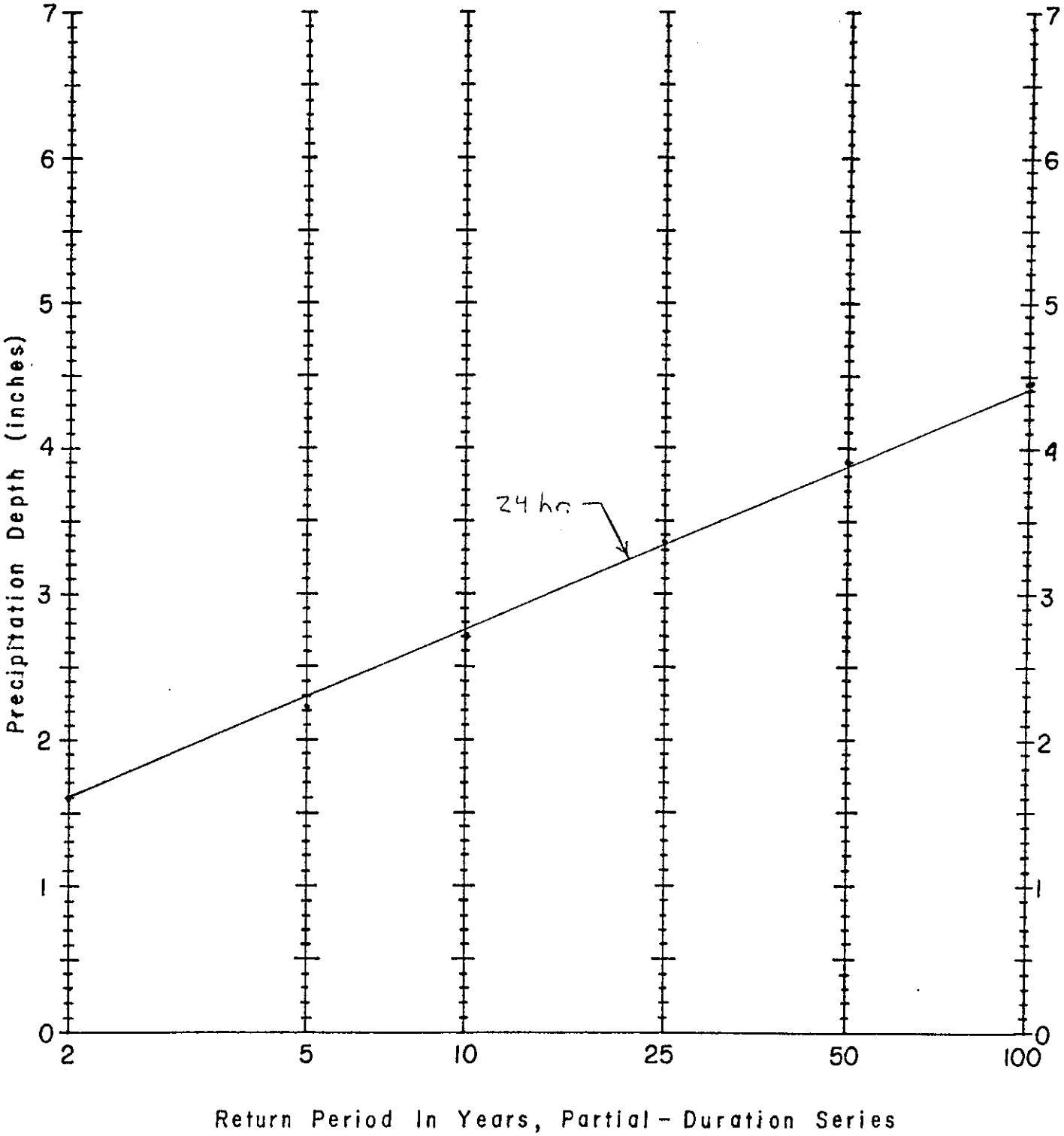

Figure 1 Precipitation Depth Versus Return Period for Partial-Duration Series

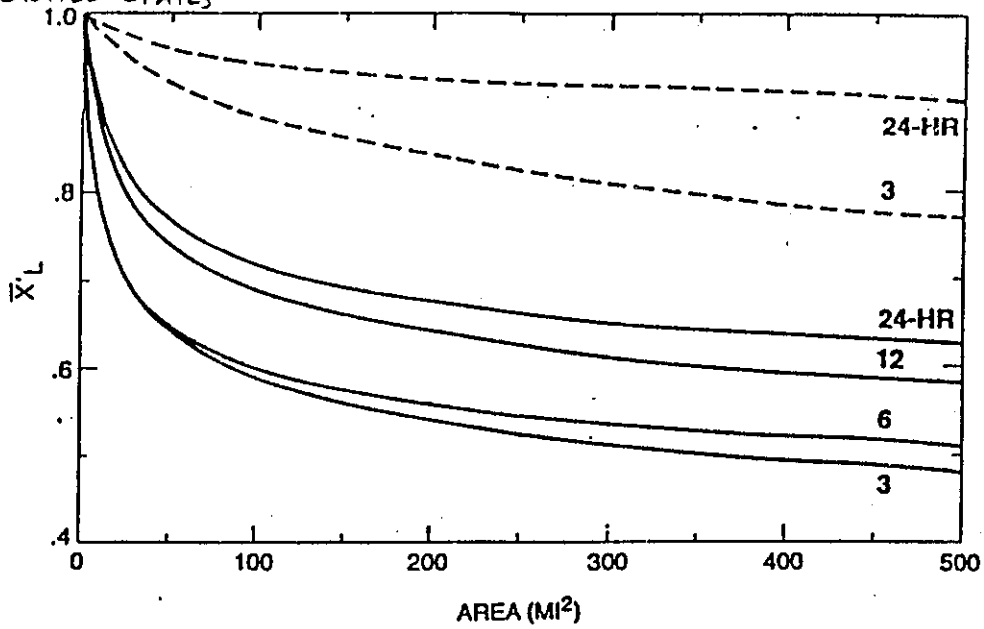

Figure 14.--$\bar{X}'_L$ (2.54-yr depth-area ratio, see sec. 4.3) for 3-, 6-, 12-, and 24-hr in southeast Arizona. Dashed lines are 3-hr and 24-hr Chicago $\bar{X}'_L$ (from TR 24)

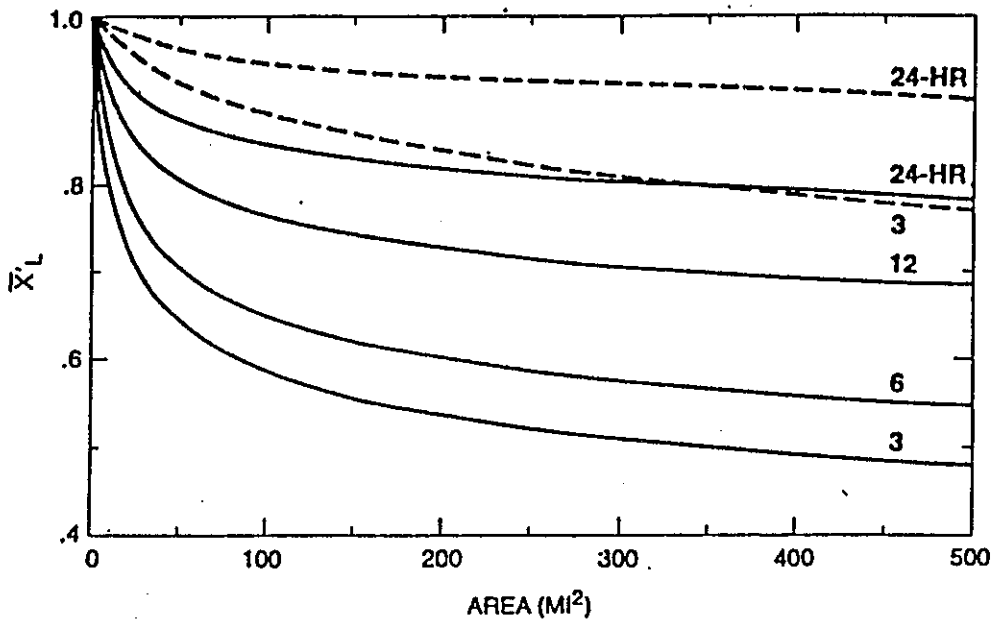

Figure 15.--Same as figure 14, but for central Arizona.

be attributed to a mixture of storm types, but still different from these found in the central Plains.

The recorder-pair data for distances greater than 15 mi contain little information on the structure of 1- and 2-hr storms. This is supported by the low

BEST AVAILABLE

APPENDIX G

RAILROAD EMBANKMENT AND CULVERTS

DESIGNED BY GSB DATE AUG 91 SHEET NO. 1 PAGE NO.
CHECKED BY TDC DATE OCT 91 OF 4 JOB NO. 10512
REVIEWED BY DATE SUBJECT: WATERMAN WASH
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METHODOLOGY FOR ESTIMATING HIGH WATER STAGE ALONG SPRR:

1. ESTIMATE TOP OF RAILROAD EMBANKMENT FROM AERIAL TOPOGRAPHY.
2. ESTIMATE TOP OF RAIL ELEVATION BY ADDING AN ASSUMED 0.5 FEET HEIGHT OF RAIL.
3. SUBTRACT MEASURE DOWN OBTAINED IN FIELD FROM TOP OF RAIL TO FLOW LINE OF UPSTREAM SIDE OF CULVERT.
4. ADD THE MAXIMUM AVERAGE STAGE ELEVATION FROM HEC-1 RUN TO THE ESTIMATED CULVERT FLOW LINE TO OBTAIN AN ESTIMATED STAGE ELEVATION FOR EACH CULVERT.
5. MAP THE POTENTIAL FLOOD ZONE ALONG THE RAILROAD EMBANKMENT AS A FUNCTION OF THESE ELEVATIONS. RAILROAD TRACK FLOOD ZONE ALSO INCLUDES EXISTING DIVERSION CHANNEL WHICH INTERCONNECTS CERTAIN GROUPS OF CULVERTS

Computed by B.CO Date 8/13/91
Checked by SB Date Aug 91
Reviewed by Date
Approved by Date

Job No. 10512 Page No.
Subject WATERMAN WASH
Sheet No. 2 of 4

	CULVERT	TOP OF RAILROAD EMBANK.	HEIGHT OF RR RAIL	TOP OF RR RAIL	MEASURE-DOWN TO CULVERT FE	ESTIMATED FE	MAXIMUM AVERAGE HEC-1 STAGE	ESTIMATED STAGE ELEVATION
STRUCTURE A	1	1510.6	0.5 FT	1511.1	7.7 FT	1503.4	3.11 FT	1506.51
	2	1508.0	0.5	1508.5	6.0	1502.5	3.11	1505.61
	3	1506.0	0.5	1506.5	7.5	1499.0	3.11	1502.11
	4	1499.6	0.5	1500.1	7.0	1493.1	3.11	1496.21
	5	1497.1	0.5	1497.6	6.0	1491.6	3.11	1494.71
	6	1491.5	0.5	1492.0	7.0	1485.0	3.11	1488.11
STRUCTURE B	7	1476.0	0.5	1476.5	7.0	1469.5	3.01	1472.51
	8	1473.2	0.5	1473.7	7.4	1466.3	3.01	1469.31
	9	1464.6	0.5	1465.1	7.0	1458.1	3.01	1461.11
	10	1458.8	0.5	1459.3	7.8	1451.5	3.01	1454.51
	11	1444.0	0.5	1444.5	6.0	1438.5	3.01	1441.51
	12	1423.7	0.5	1424.2	8.5	1415.7	3.01	1418.71
	13	1422.1	0.5	1422.6	9.4	1413.2	3.01	1416.21
STRUCT C	14	1420.0	0.5	1420.5	7.8	1412.7	2.49	1415.19
	15	1420.0	0.5	1420.5	7.2	1413.3	2.49	1415.79
	16	1420.0	0.5	1420.5	8.2	1412.3	2.49	1414.79
	17	1411.6	0.5	1412.1	8.6	1403.5	3.54	1407.04

Job No. 10512 Page No.

Subject WATERMAN WASH

Computed by BCO Date 8/13/91

Checked by CSB Date Aug 91

Reviewed by Date

Approved by Date

Sheet No. 3 of 4

	CULVERT	TOP OF RAILROAD EMBANK	HEIGHT OF RR RAIL	TOP OF RR RAIL	MEASURE-DOWN TO CULVERT FE	ESTIMATED FE	MAXIMUM AVERAGE HEC-1 STAGE	ESTIMATED STAGE ELEVATION
STRUCTURE D	18	1404.9	0.5	1405.4	8.3	1397.1	3.54	1400.64
	19	1400.4	0.5	1400.9	6.2	1394.7	3.54	1398.24
	20	1396.6	0.5	1397.1	6.0	1391.1	3.54	1394.64
	21	1390.3	0.5	1390.8	7.9	1382.9	3.54	1386.44
STRUCTURE E	22	1386.8	0.5	1387.3	7.1	1380.2	1.58	1381.78
	23	1380.0	0.5	1380.5	7.8	1372.7	1.58	1374.28
	24	1372.6	0.5	1373.1	5.6	1367.5	1.58	1369.08
	25	1367.6	0.5	1368.1	6.3	1361.8	1.58	1363.38
	26	1364.4	0.5	1364.9	6.5	1358.4	1.58	1359.98
	27	1360.0	0.5	1360.5	7.9	1352.6	1.58	1354.18
	28	1353.8	0.5	1354.3	7.2	1347.1	1.58	1348.68
	29	1349.7	0.5	1350.2	5.7	1344.5	1.58	1346.08
STRUCTURE F	30	1342.4	0.5	1342.9	7.8	1335.1	2.56	1337.66
	31	1337.2	0.5	1337.7	6.1	1331.6	2.56	1334.16
	32	1325.2	0.5	1325.7	5.6	1320.1	2.56	1322.66
	33	1320.0	0.5	1320.5	10.0	1310.5	2.56	1313.06
	34	1318.7	0.5	1319.2	6.7	1312.5	2.56	1315.06

Job No. 10512 Page No.

Subject WATERMAN WASH

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Sheet No. 4 of 4

CULVERT	TOP OF RAILROAD EMBANK.	HEIGHT OF RR RAIL	TOP OF RR RAIL	MEASURE-DOWN TO CULVERT FE	ESTIMATED FE	MAXIMUM AVERAGE HEC-1 STAGE	ESTIMATED STAGE ELEVATION
35	1315.3	0.5	1315.8	6.3	1309.5	2.56	1312.06
36	1309.7	0.5	1310.2	6.3	1303.9	2.56	1306.46
37	1303.9	0.5	1304.4	5.5	1298.9	2.56	1301.46
38	1301.5	0.5	1302.0	7.8	1294.2	2.56	1296.76
39	1301.2	0.5	1301.7	8.3	1293.4	2.56	1295.96
40	1301.8	0.5	1302.3	7.0	1295.3	2.56	1297.86
41	1299.9	0.5	1300.4	4.7	1295.7	2.56	1298.26
42	1298.1	0.5	1298.6	7.00	1291.6	2.56	1294.16
43	1297.1	0.5	1297.6	5.3	1292.3	2.56	1294.86
44	1296.5	0.5	1297.00	6.0	1291.0	2.56	1293.56
45	1295.6	0.5	1296.1	4.4	1291.7	2.56	1294.26
46	1295.0	0.5	1295.5	5.6	1289.9	2.56	1292.46

STRUCTURE F

Determine Stage/Discharge Curves For Each R.R. Structure

Methodology

For Pipe Culverts

1) From Measurement Taken In The Field, Determine Maximum Headwater (HW) Available.

2) From Charts Provided In HEC 5 "Hydraulic Charts for the Selection of Highway Culverts" Determine Discharge Rates For Various HW Values From Top Of Pipe To Maximum HW.

3) From Fig 3.22 of The Concrete Pipe Handbook, Determine Discharge Rates For Various HW From Invert To Top Of Pipe.

For Box Culverts + Misc Bridge Type Crossings

1) Same As (1) Above

2) From Charts Provided In HEC 10 "Capacity Charts For The Hydraulic Design Of Highway Culverts" Determine Discharge Rates For Various HW Values From Top Of Pipe To Maximum HW. Use HEC 10 Procedures For Non-Chart Widths.

3) Determine The Capacity Of All Non-Pipe Structures Using HEC 10 Charts. For Multispan Structures Use The Sum Of The Individual Span Capacities

4) Using Mannings Equation Determine Discharge Rates For Various HW From Invert To Top Of Structure

Stanley Consultants Used A Computer Program To Complete Step 4 Above.

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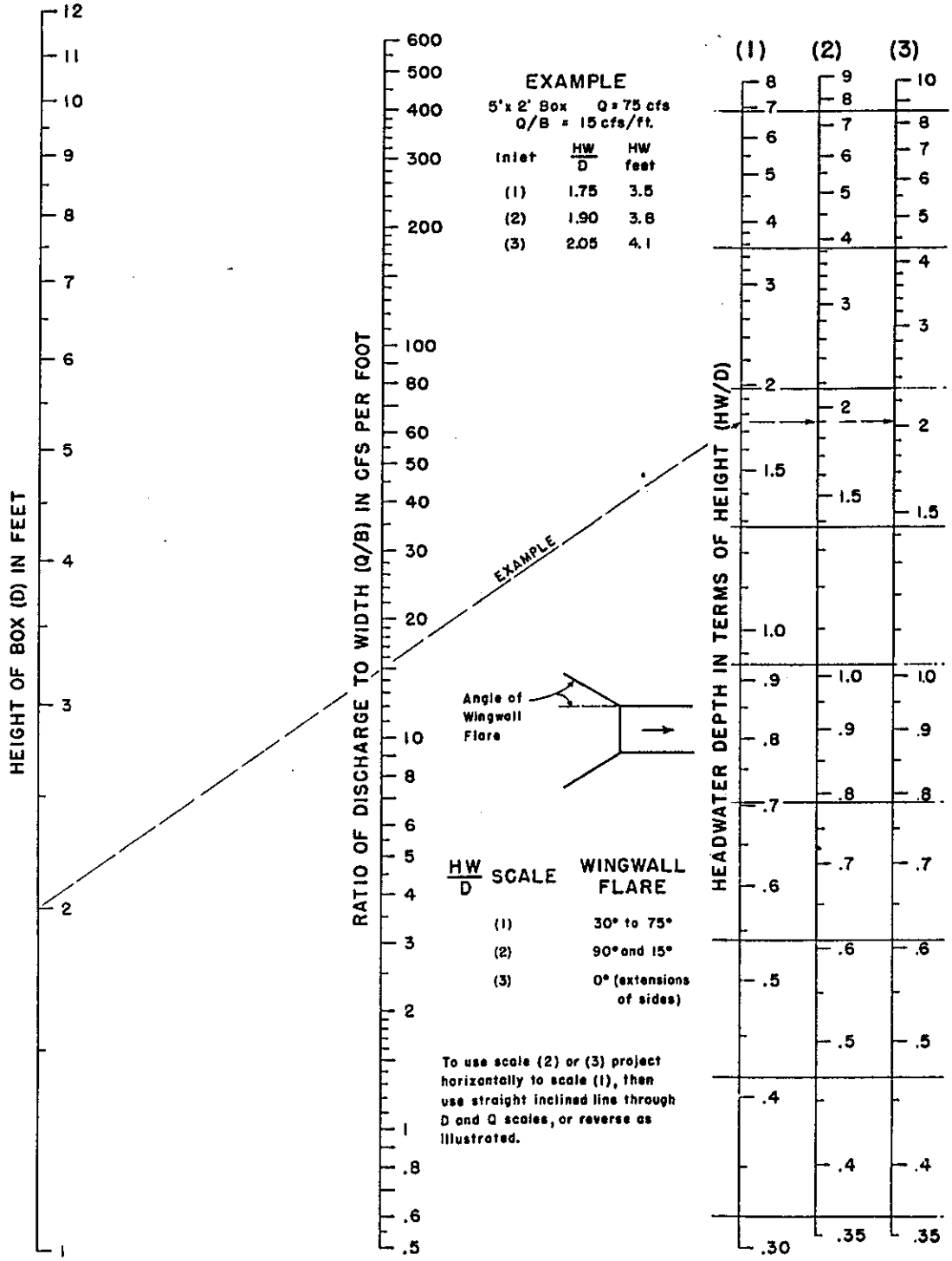
HEC 5

CHART I



HEADWATER DEPTH FOR BOX CULVERTS WITH INLET CONTROL

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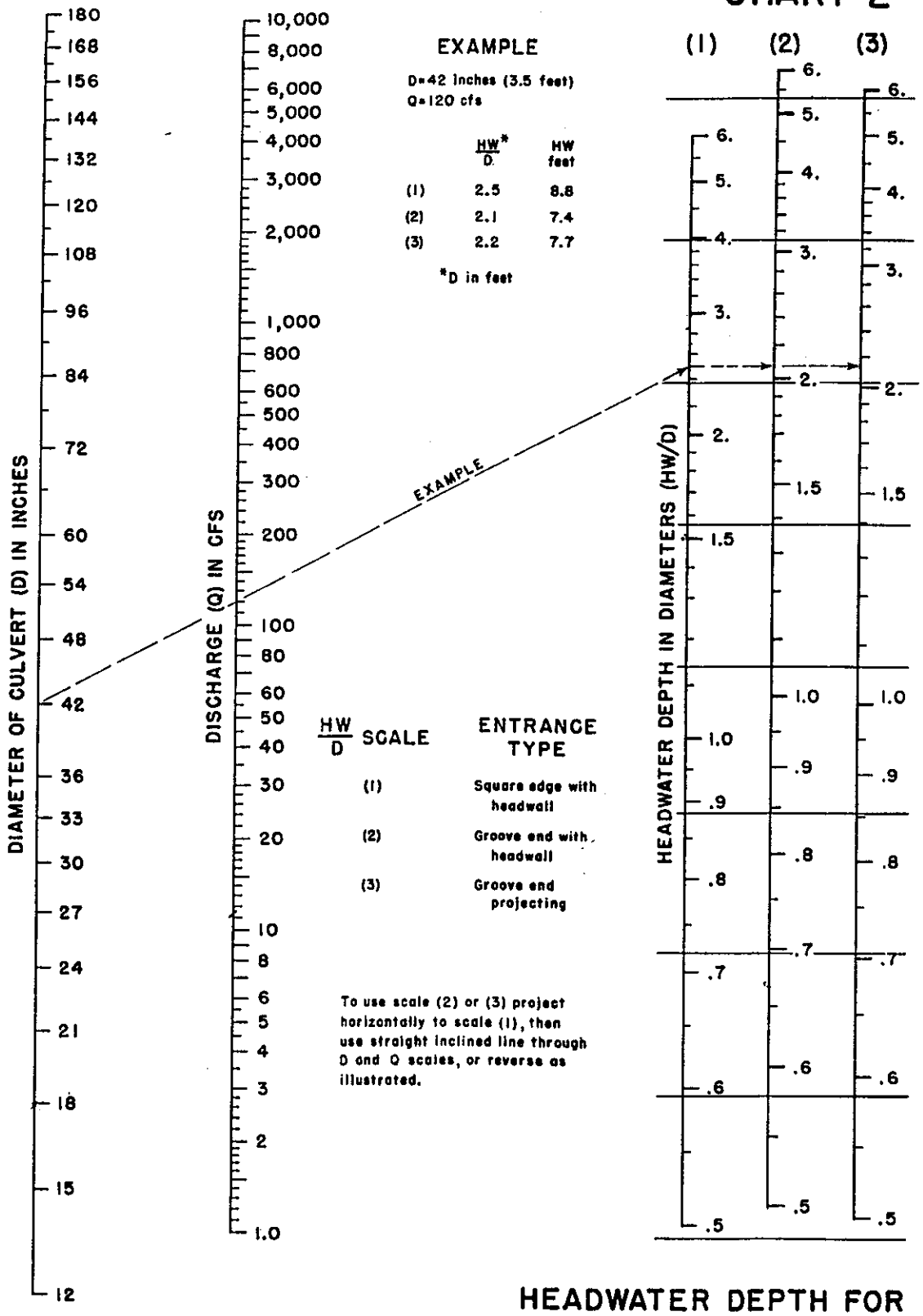
CHART 2



HEADWATER DEPTH FOR CONCRETE PIPE CULVERTS WITH INLET CONTROL

HEADWATER SCALES 2 & 3
REVISED MAY 1964

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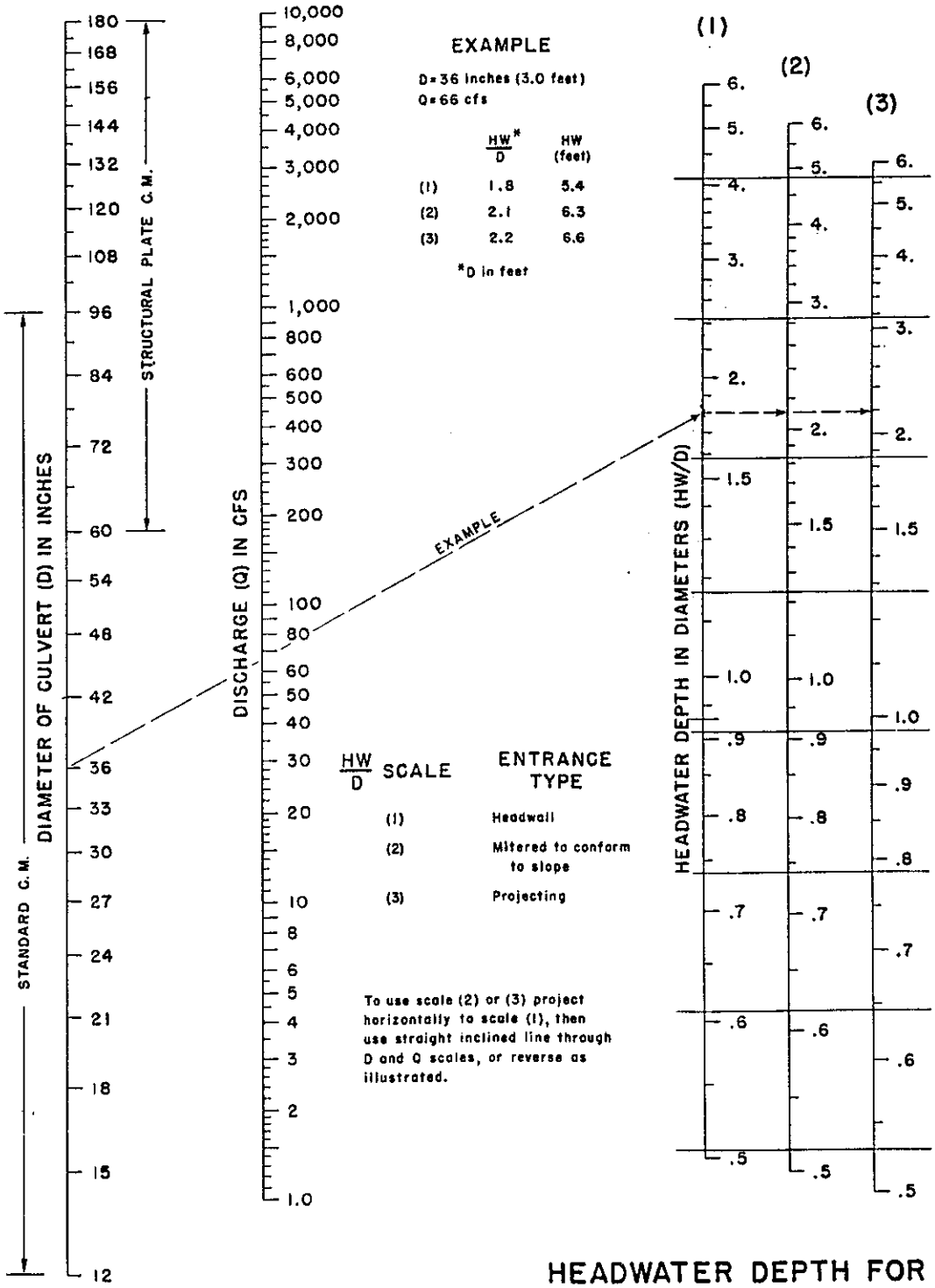
CHART 5



HEADWATER DEPTH FOR C. M. PIPE CULVERTS WITH INLET CONTROL

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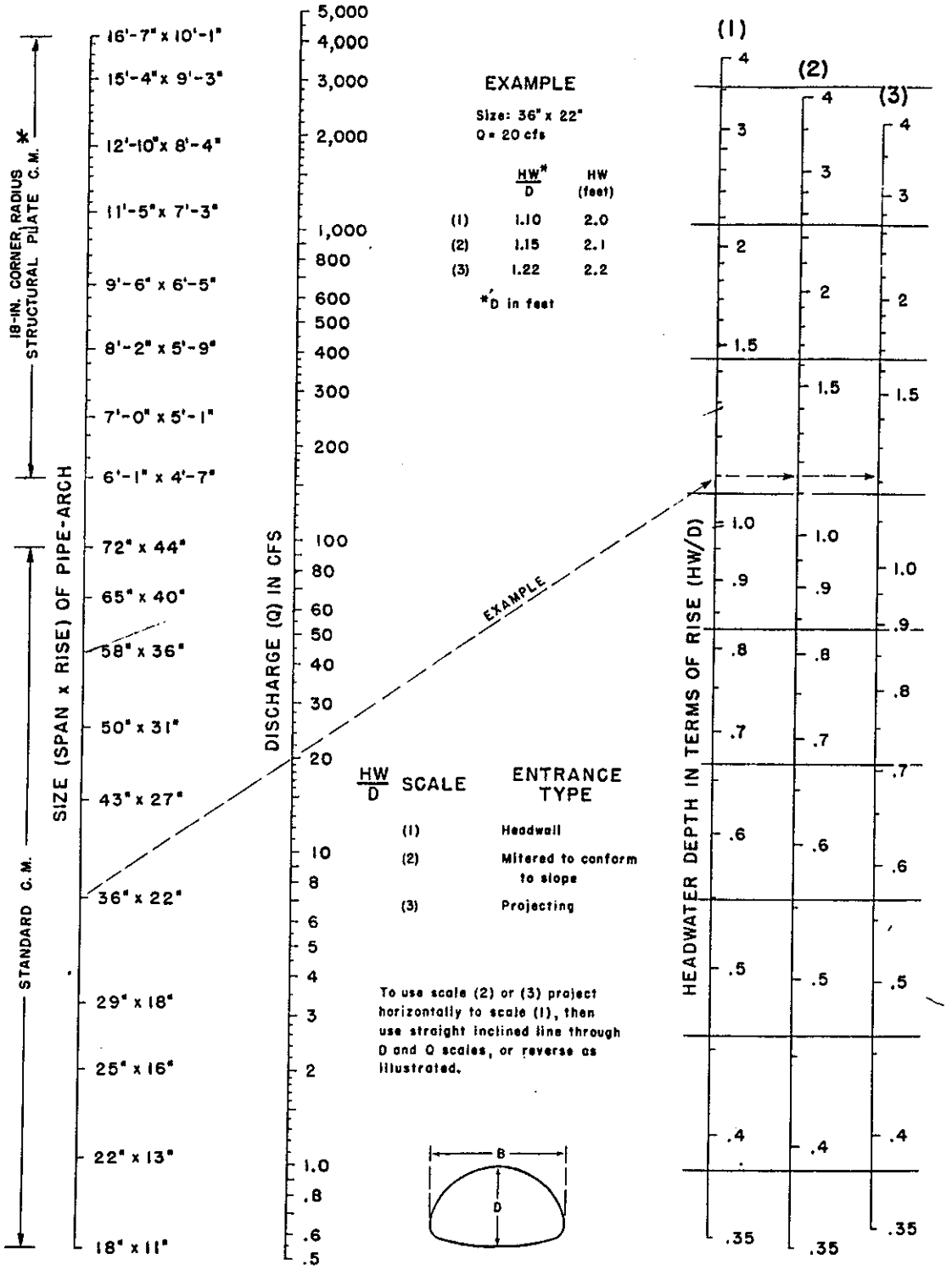
HEC 5

CHART 6



*ADDITIONAL SIZES NOT DIMENSIONED ARE LISTED IN FABRICATOR'S CATALOG

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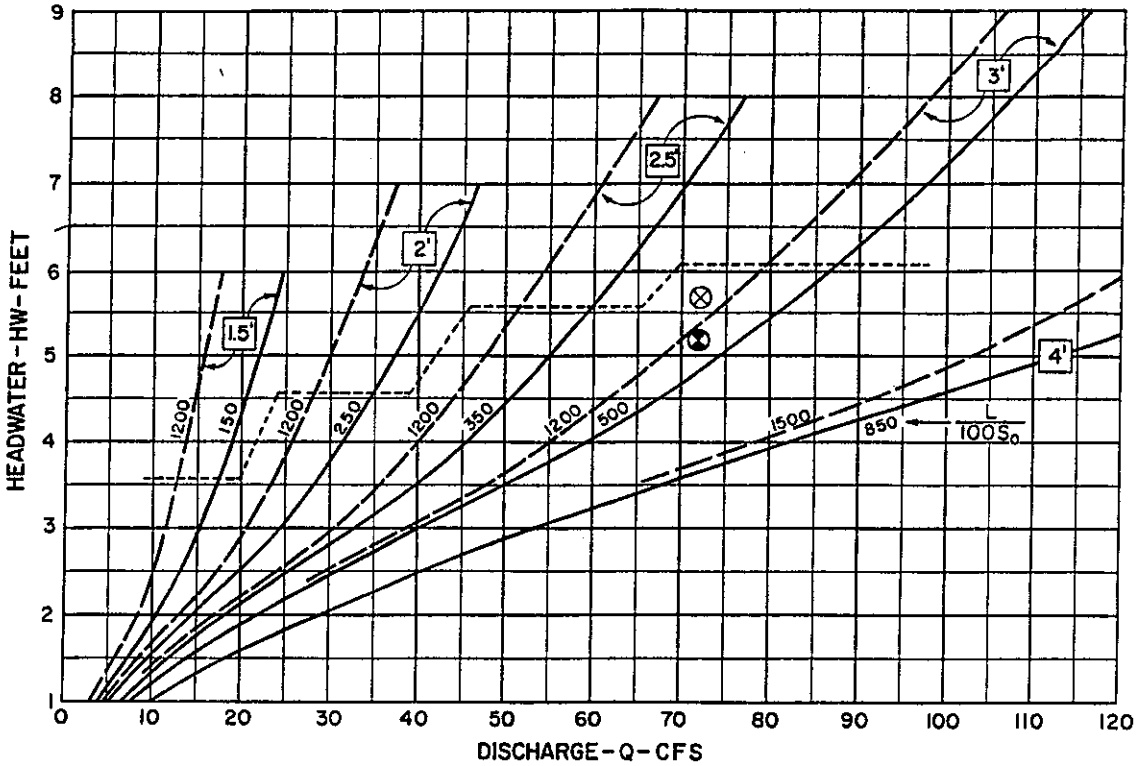
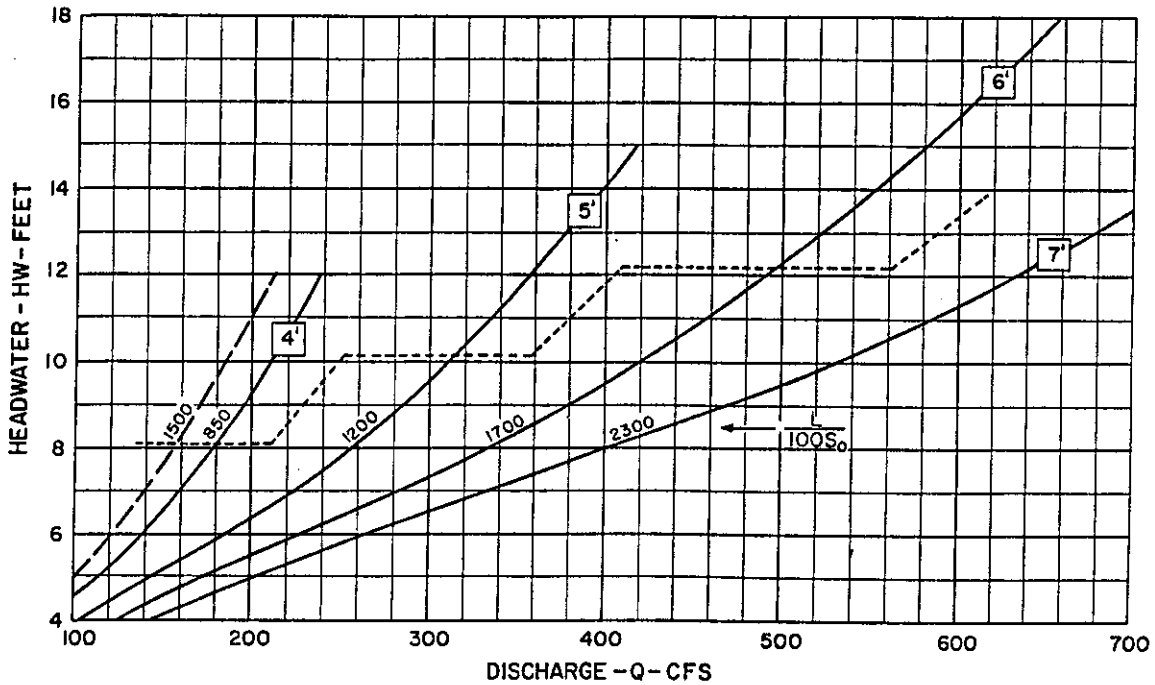
HEADWATER DEPTH FOR C. M. PIPE-ARCH CULVERTS WITH INLET CONTROL

CHART 4





EXAMPLE

⊗ GIVEN:
72 CFS; AHW = 5.7 FT.
L = 200 FT.; S_0 = 0.002

⊗ SELECT 3' x 3'
HW = 5.2 FT.

CULVERT CAPACITY
SQUARE CONCRETE BOX
90° AND 15° WINGWALL FLARE
1.5' X 1.5' TO 7' X 7'

BUREAU OF PUBLIC ROADS JAN. 1963

HANDBOOK OF CONCRETE CULVERT PIPE HYDRAULICS

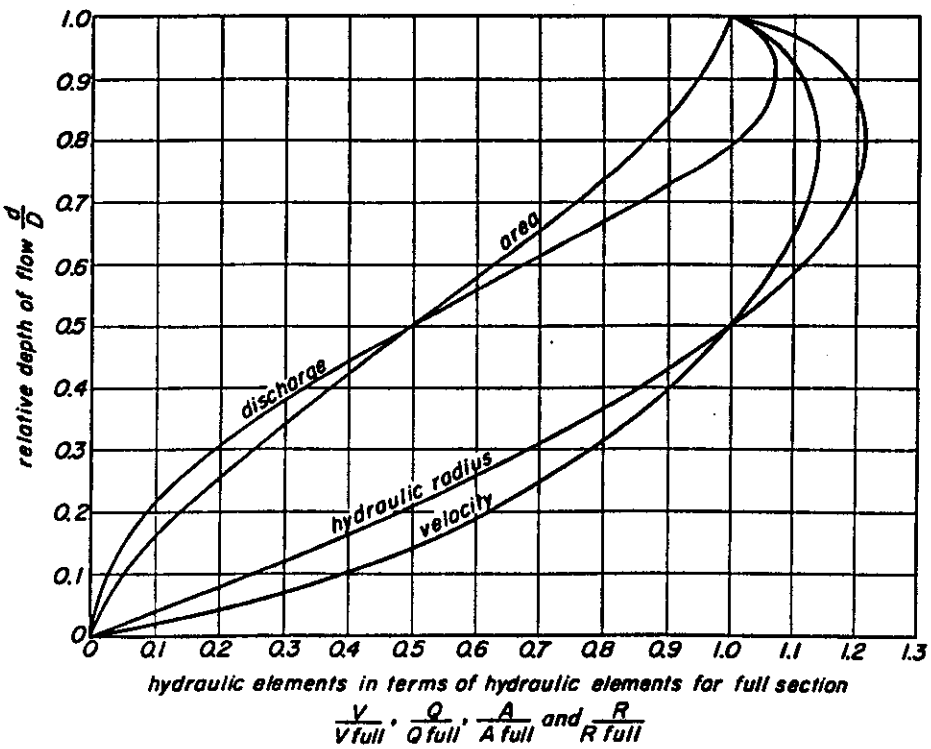


Fig. 36. Hydraulic elements—relative flow properties of a circular conduit.

The preliminary hydrology model submitted to Maricopa County Flood Control District modeled the area south of the S.P.R.R. as 46 seperate drainage areas draining into 44 drainage structures along the railroad. The approach to determine a flood plain south of the railroad was to be as follows:

Proposed Methodology for Delineation Waterman Wash Floodplain, South of Southern Pacific Railroad.

1.) Prepare delineation of entire basin watershed, including subareas which contribute to each individual cross drainage structures on the railroad.

2.) Model subareas using HEC-1 methodology to produce 100-year peak discharge and flood hydrograph approaching each structure.

3.) Compare peak discharge against Dibble and Associates report as a check.

4.) Calculate incremental hydraulic capacity of each drainage structure (elevation-discharge curve).

5.) Return HEC-1 model to include routing of each subarea thru a "Null Structure". Summate outflow hydrographs and route downstream, combining with subareas North of S.P.R.R. to produce model of entire watershed.

6.) When aerial mapping is available, determine reservoir capacity upstream of each structure (elevation-storage curve).

7.) Rerun HEC-1 with reservoir in place for each structure to determine peak discharges for project and depth of ponding upstream of S.P.R.R.

8.) Delineate floodplain by connecting ponding limits of each reservoir, mapping a smooth line for the AH zone limits.

Upon receipt of the aerial mapping it was evident that modeling each structure and accompanying drainage area separately was not the proper approach. The detailed mapping showed that because of the topography severed of the drainage

areas were interconnected and therefor the structures which drain the areas work as a system. From site visits and investigations it is felt that before floodwater would overtop the railroad it would flow to the east behind the railroad in search of an outlet.

We then revised the HEC-1 model by summing certain drainage areas and combining the discharges of the structures which drained the summed drainage areas. Loss Rate parameters were revised by calculating weighted numbers from the combined areas. The Lag Time used for the combined areas was the longest lag time of the subbasins which were combined to make one larger area.

An elevation-storage curve was determined from the aerial mapping.

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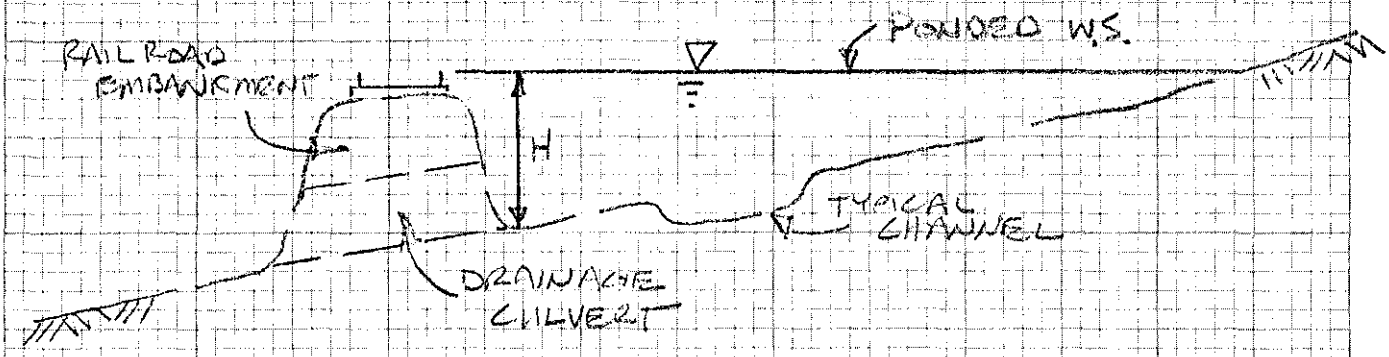
TYPICAL ELEV - VS - AREA FOR RAILROAD STRUCTURES

TYPICAL SECTION:



① H VARIES. ESTIMATED AVG H = 7'.

② ESTIMATE SURFACE AREA @ H = 7' BY PLANIMETER ON TOPOGRAPHIC MAP.

③ ESTIMATE AREA @ EVEN FOOT INCREMENTS FROM H = 0' TO 7' BY PROPORTION TO AREA @ H = 7'

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STAGE – AREA ESTIMATES:

STAGE	— AREA — STRUCT A CULVERTS 1–6	STRUCT B CULVERTS 7–13	STRUCT C CULVERTS 14,15,16	STRUCT D CULVERTS 17–21	STRUCT E CULVERTS 22–29	STRUCT F CULVERTS 30–46
0	0	0	0	0	0	0
1	8.5	17.3	0.6	11.1	7.6	46.2
2	17.0	34.6	1.1	22.2	15.3	92.3
3	25.5	51.9	1.7	33.3	22.9	138.5
4	34.1	69.3	2.3	44.5	30.6	184.7
5	42.6	86.6	2.9	55.6	38.2	230.9
6	51.1	103.9	3.4	66.7	45.9	277.0
7	59.6	121.2	4.0	77.8	53.5	323.2

SC 3020

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Stage/Discharge Summary

Drain. Area #	M.P #	Descript.	HW HEIGHT VS. DISCHARGE (CFS) 1'	2'	3'	4'	5'	6'	7'	8'	9'
1	21.75	DBL BOX	45.4	127.7	226.5	334.7		592	800 (7.7)		
2	21.90	(2) 36" CMP	16.8	56.0	70	100	122	142			
3	22.0	SGL. BOX	27.4	78.6	141.6	214		359	439 (7.5)		
4	22.25	(2) 36" CMP	16.8	56	70	100	122	142	160		
5	22.40	36" x 58"	14.4	48	60	84	102	120	145		
6	22.65	2(36") CMP	16.8	56	70	100	122	142	160		
7	23.2	(2) 42" CMP	17.3	63.2	107.1	120	158	184	208		
8	23.3	DBL. BOX	46.5	131	232.8	342		573	701 (7.5)		
9	23.65	(2) 42" CMP	17.3	63.2	107.1	120	158	184	208		
10	23.9	(2) 48" CMP	19.9	71	130.6	142	190	228	266	280 (7.75)	
11	24.4	DBL BOX	43.1	121.5	222	350 (4.5)		484			
12	24.9	QUAD BOX	110	220	330	440	540	640	750		
13	25.0	DBL. BOX	35.5	96.4	166.8	242.1	320.3		540 (7.5)		700 (9.5)
14	25.4	SGL. BOX	32.3	94.1	171.5	263		440	554 (7.75)		
15	25.5	SGL BOX	32.3	94.1	169		313		443 (7.25)		

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DRAIN AREA #	M.P. #	DESC.	HW HEIGHT VS DISCHARGE (CFS) 1'	2'	3'	4'	5'	6'	7'	8'	9'
16	25.7	(2) 60"x38"	33.6	112	140	180	222	260	296	324	
17	26.2	DBL. BOX	52.8	151.2	271.9	416		696		(8.5) 950	
18	26.5	DBL. BOX	42.5	120	213.1	315.4		594		806	
19	26.7	SGL. BOX	30.4	88.4		221		302			
20	27.0	SGL. BOX	30.4	88.4		221		302			
21	27.4	DBL. BOX	46.3	129.9	230.1	339.7	454	580		798	
22	27.75	DBL. BOX	43.3	121.3	214.5	316.4	424		600		
23	28.0	SGL. BOX	27	77.3	138.8	202		339		436	
24	28.3	(3) 27" S.P.	22.8	61	72	96	114	(5.6) 123			
25	28.5	DBL. BOX	43	127.4	227.1	346		(6.25) 534			
26	28.7	(2) 48" CMP	19.9	71	130.6	142	190	228	260	(7.75) 280	
27	29.0	(2) 36"x58"	28.8	96	120	168	204	240	290	312	
28	29.3	(3) 36"x58"	43.2	144	180	252	306	360	435	468	
29	29.5	DBL. BOX	15.3	41.6		100	(5.1) 136				
30	29.8	SGL. BOX	29.4	84.4	152.3	227.9	371		(7.75) 469		
31	30.0	TRP. BOX	67.4	190.6	339.4	512		747			
32	30.5	DBL. BOX	45.9	129.6	225	332	(5.5) 455				

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DRAIN AREA #	M.P. #	DESC.	HW HEIGHT VS DISCHARGE (CFS) 1'	2'	3'	4'	5'	6'	7'	8'	9'
33	31.0 (-200)	SGL. BOX	29.3	84.1	151.4	226.4	306.3	393		571	>718 (1.0)
34	31.0 (+100)	(4) BOX	137.3	462.1	735.7		1458		2006		
35	31.2	SGL. BOX	26.6	76.4	138		255	320 (6.5)			
36	31.5	SGL. BOX	30.4	88.4		221		317 (6.3)			
37	31.8	DBL. BOX	30.8	83.5		202	260 (5.5)				
38	32.1	SGL. BOX	27.9	80	144.0	215.3	291.4	369		497	
39	32.3	TRP. BOX	87.5	251.7	454.2	680	924		141.9	1688 (8.25)	
40	32.4	DBL. BOX	45.9	129.2	229.5	340	476		662 (7.75)		
41	32.7	(4) 40" S.P.	22.5	76.5	121.5	142.5	177.5	215	225 (6.3)		
42	33.1	(2) 36"x58"	28.8	96	120	168	204	240	290		
43	33.3	SGL BOX		14.2	23.0	29	35	36 (5.3)			
	33.4	DBL. BOX		80 (2.5)	100	136	164	176			
44	33.7	SGL. BOX		20.1	30	36	39 (4.5)				
	33.8	DBL. BOX		80 (2.5)	100	136	164	176			

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Elev / Discharge Curve - Structure A (CFS)

Str. #	H 1	2	3	4	5	6	7
1	45.4	127.7	226.5	334.7	463.4	592	900
2	16.8	56	70	100	122	142	142
3	27.4	28.6	141.6	214	286.5	359	439
4	16.8	56	70	100	122	142	160
5	14.4	48	60	84	102	120	145
6	16.8	56	70	100	122	142	160
	138	422	638	933	1218	1497	1846

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Elev / Discharge Curve - Structure B (CFS)

Str #	1	2	3	4	5	6	7
				ft			
7	17.3	63.2	107.1	120	158	184	208
8	46.5	131	232.8	342	458	573	701
9	17.3	63.2	107.1	120	158	184	208
10	19.9	71	130.6	142	190	228	260
11	43.1	121.5	222	350	417	484	484
12	110	220	330	440	540	640	750
13	35.5	96.4	166.8	242.1	320.3	430	540
	290	766	1296	1756	2241	2723	3151

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ELEV/DISCHARGE CURVE - STRUCTURE C (CFS)

STR #	H 1	2	3	4	5	6	7
14	32.3	94.1	171.5	263	351.5	440	554
15	32.3	94.1	169	241	313	378	443
16	33.6	112	140	180	222	260	296
	98	300	481	684	887	1078	1293

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Subject WATERMAN WASH

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Sheet No. 18 of 20

ELEV/DISCHARGE CURVE - STRUCTURE D (CFS)

STR #	H 1	2	3	4	5	6	7
17	52.8	151.2	271.9	416	556	696	823
18	42.5	120	213.1	315.4	454.7	594	700
19	30.4	88.4	154.7	221	261.5	302	302
20	30.4	88.4	154.7	221	261.5	302	302
21	46.3	129.9	230.1	339.7	454	580	689
	202	578	1025	1513	1988	2474	2816

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Subject WATERMAN WASH

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ELEV / DISCHARGE CURVE - STRUCTURE E (CFS)

STR #	H 1	2	3	4	5	6	7
22	43.3	121.3	214.5	316.4	424	512	600
23	27	77.3	138.8	202	270.5	339	387.5
24	22.8	61	72	96	114	123	123
25	43	127.4	227.1	346	440	534	534
26	19.9	71	130.6	142	190	228	260
27	28.8	96	120	168	204	240	290
28	43.2	144	180	252	306	360	435
29	15.3	41.6	71	100	118	136	136
	243	740	1154	1622	2067	2472	2766

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Elev / Discharge Curve - Structure F (CFS)

Str #	H 1	2	3	4	5	6	7
30	29.4	84.4	152.3	227.9	371	404	437
31	67.4	190.6	339.4	512	630	747	747
32	45.9	129.6	225	332	394	455	455
33	29.3	84.1	151.4	226.4	306.3	393	482
34	137.3	402.1	735.7	1096.9	1458	1732	2006
35	26.6	76.4	138	196.5	255	320	320
36	30.4	88.4	154.7	221	269	317	317
37	30.8	83.5	142.8	202	231	260	260
38	27.9	80	144	215.3	291.4	369	433
39	87.5	251.7	454.2	680	924	1416	1554
40	45.9	129.2	229.5	340	470	566	662
41	22.5	76.5	121.5	142.5	177.5	215	225
42	28.8	96	120	168	204	240	290
43/44	30	94.2	123	165	199	212	212
45/46	35	100.1	130	172	203	215	215
	675	1967	3362	4898	6353	7861	8615

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JOB Waterman Wash

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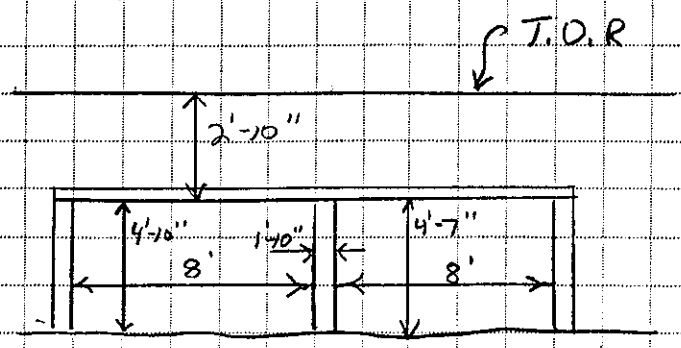
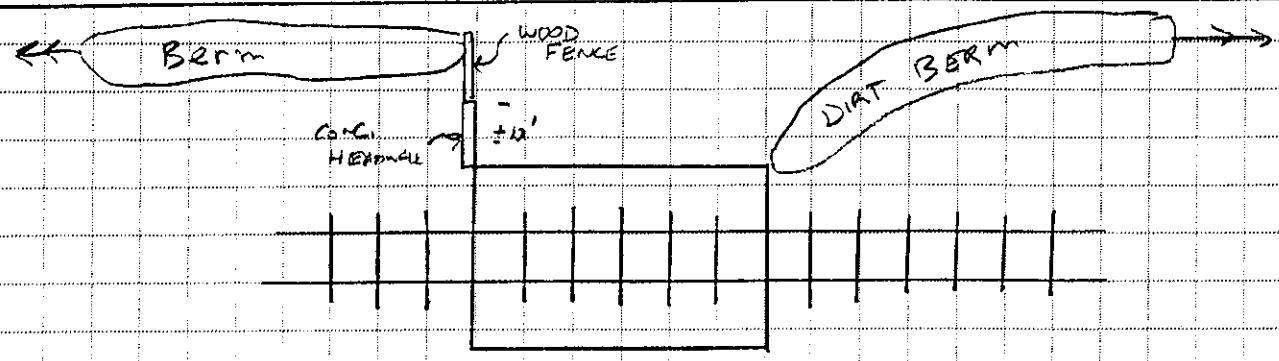
STRUCTURE # 1

MP 21.75





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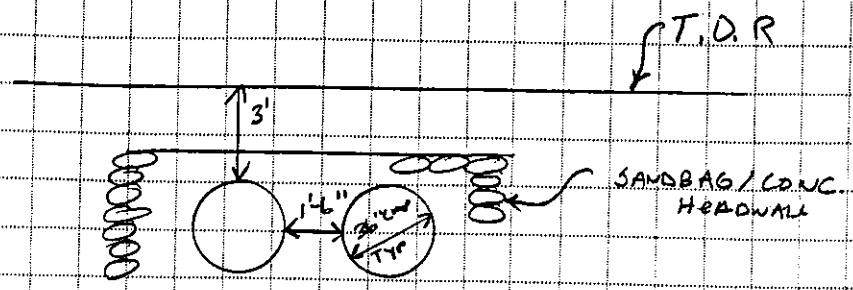
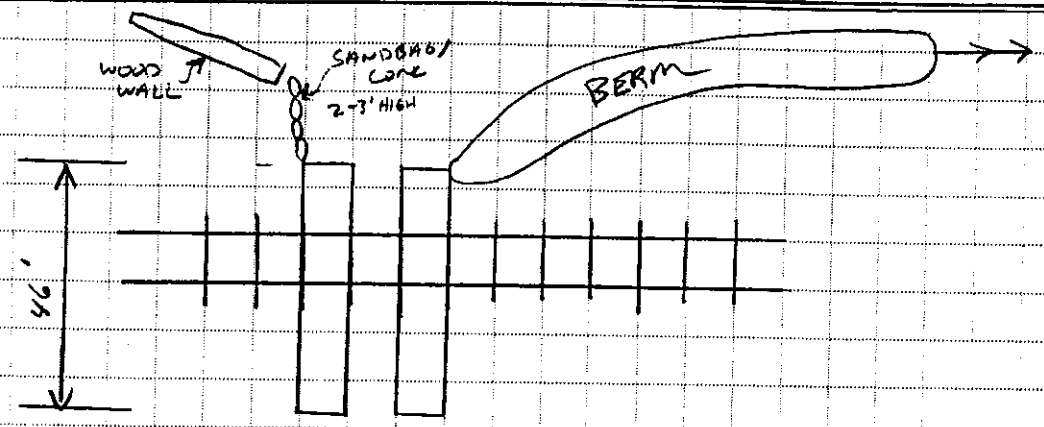
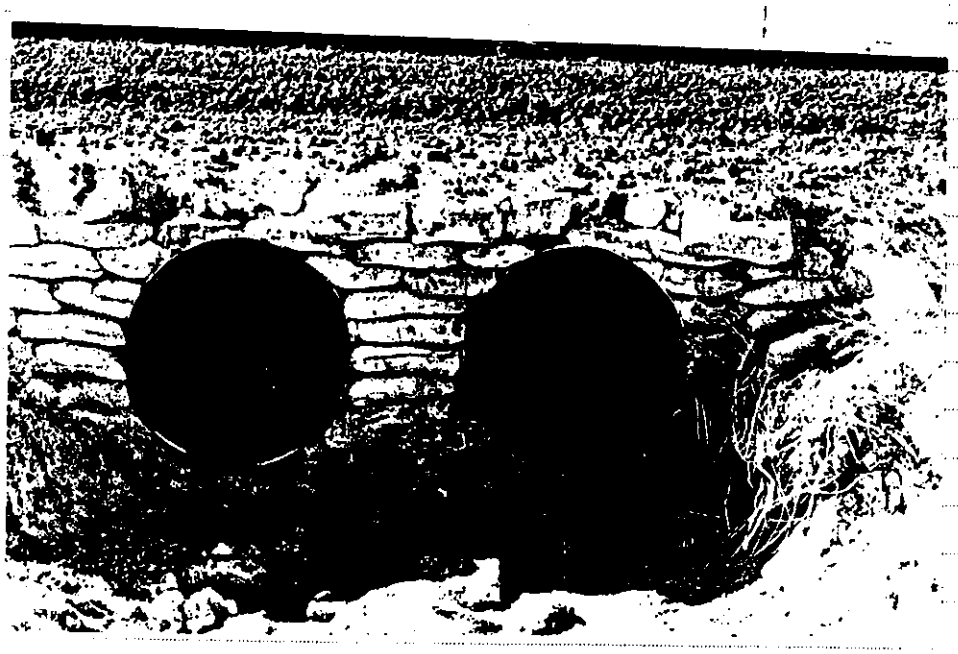
SCALE

MP 21.90

STRUCTURE # 2







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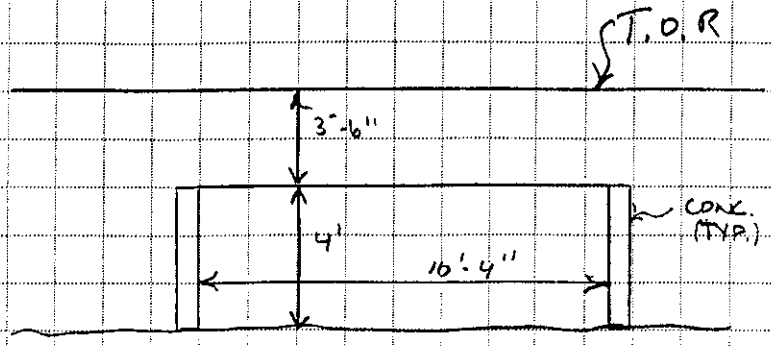
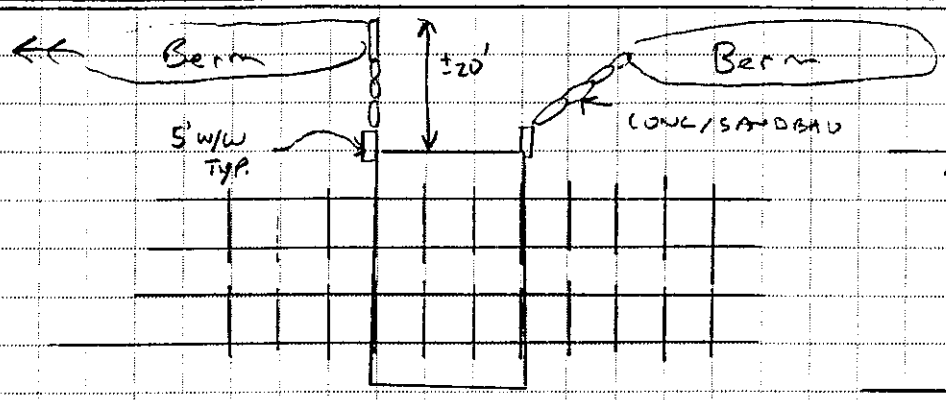
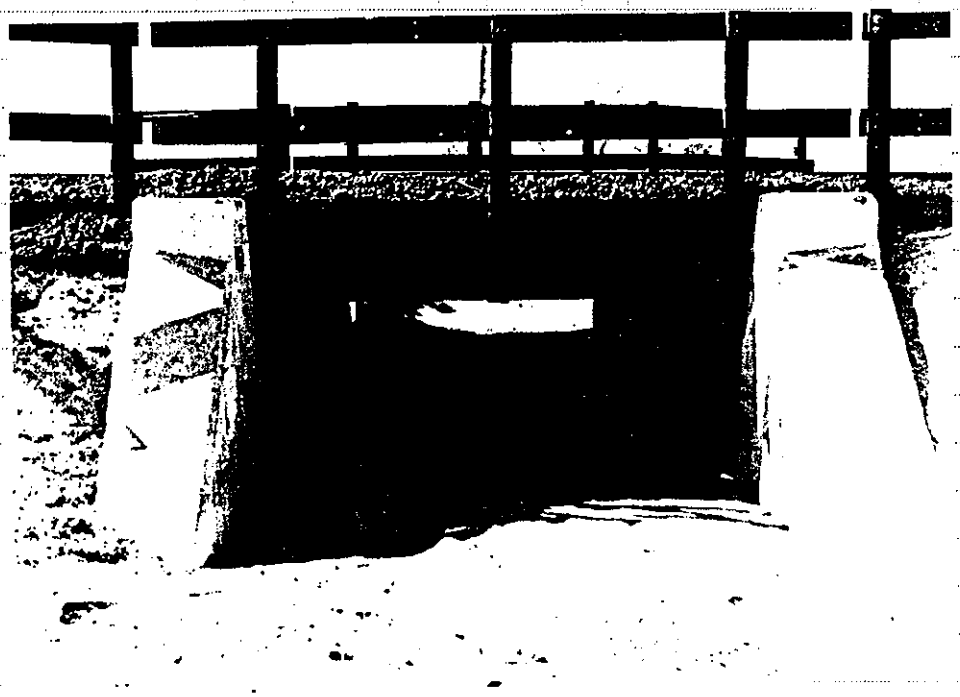
SCALE

STRUCTURE #3

MP 22.0







PRODUCT 205 NEBS Inc. Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB

SHEET NO. 4 OF 46

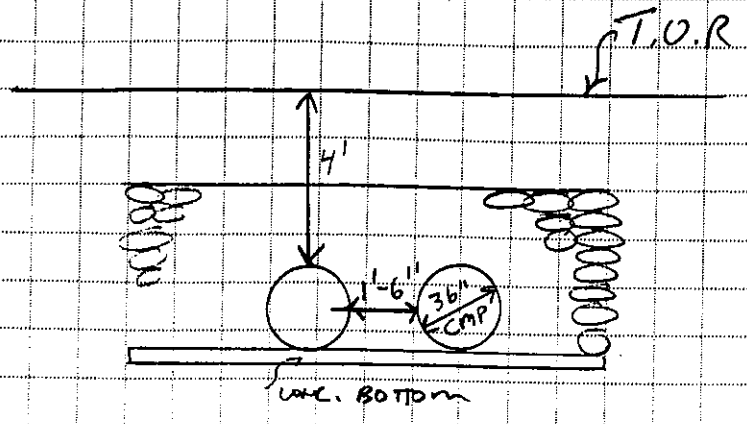
CALCULATED BY TDC / DM DATE 7-3-89

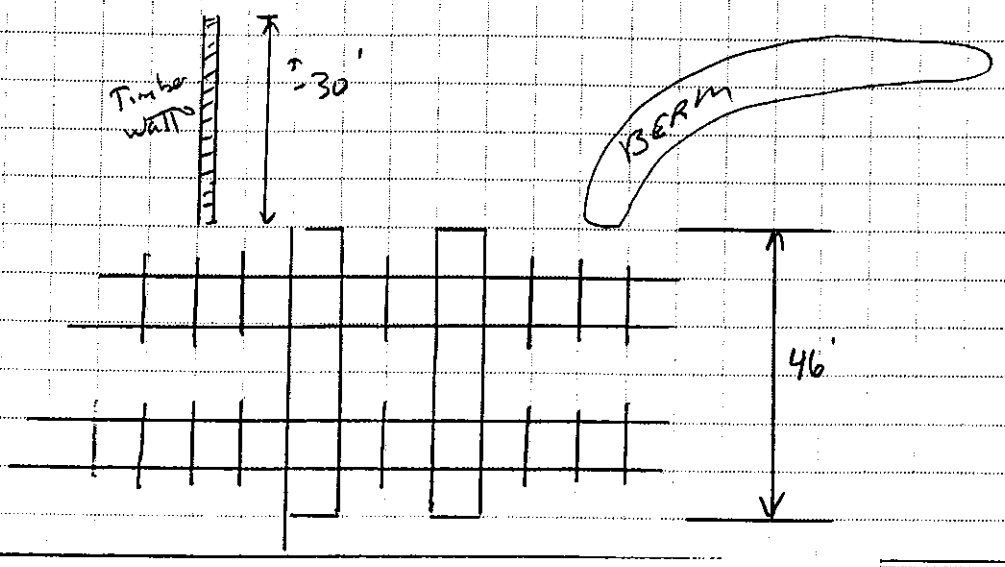
CHECKED BY GSB DATE Aug 91

SCALE

STRUCTURE #4

MP 22.25





PRODUCT 205-1 NEBS Inc. Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB

SHEET NO. 5 OF 46

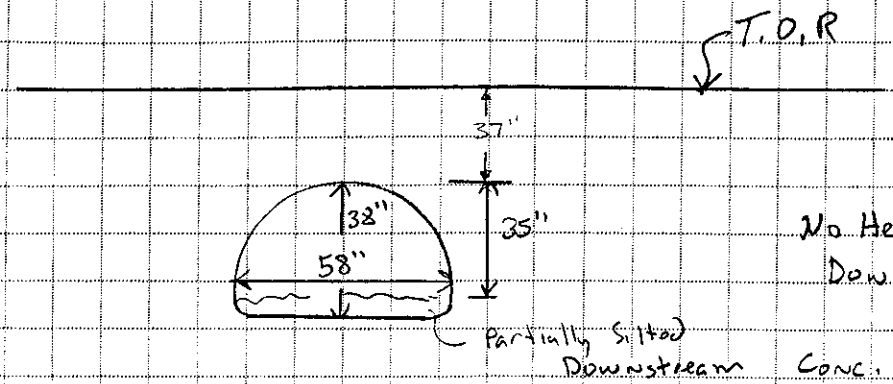
CALCULATED BY TDC / DM DATE 7-3-89

CHECKED BY GSB DATE Aug 91

SCALE

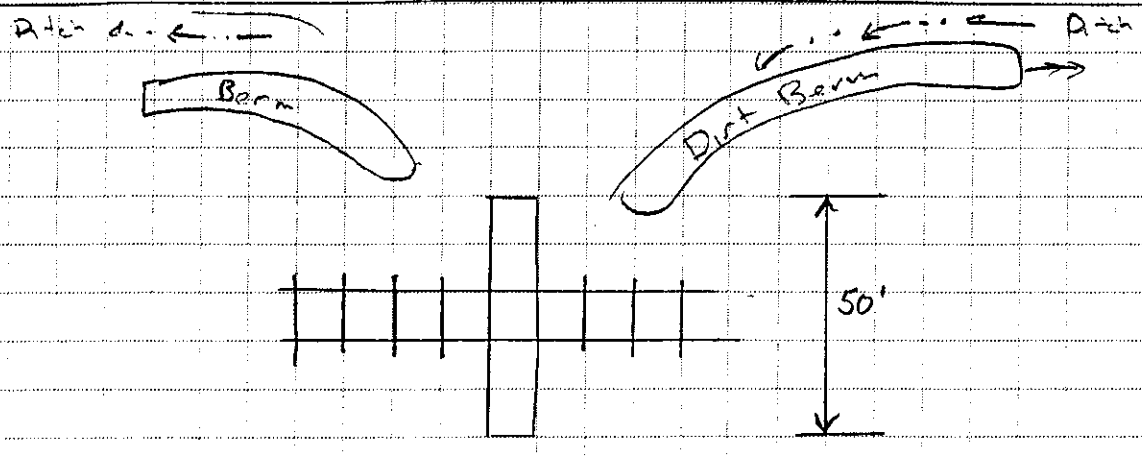
STRUCTURE #5

MP 22.40



No Headwall Downstream

Conc. Headwall with No wingwall. Upstream



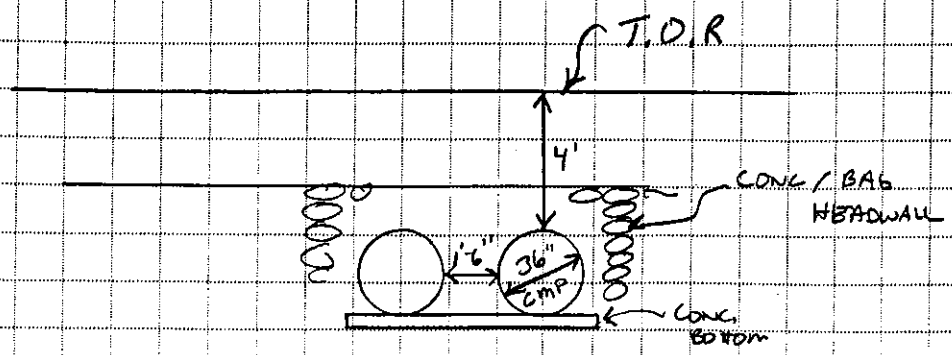
PRODUCT 205-1 NEBS Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

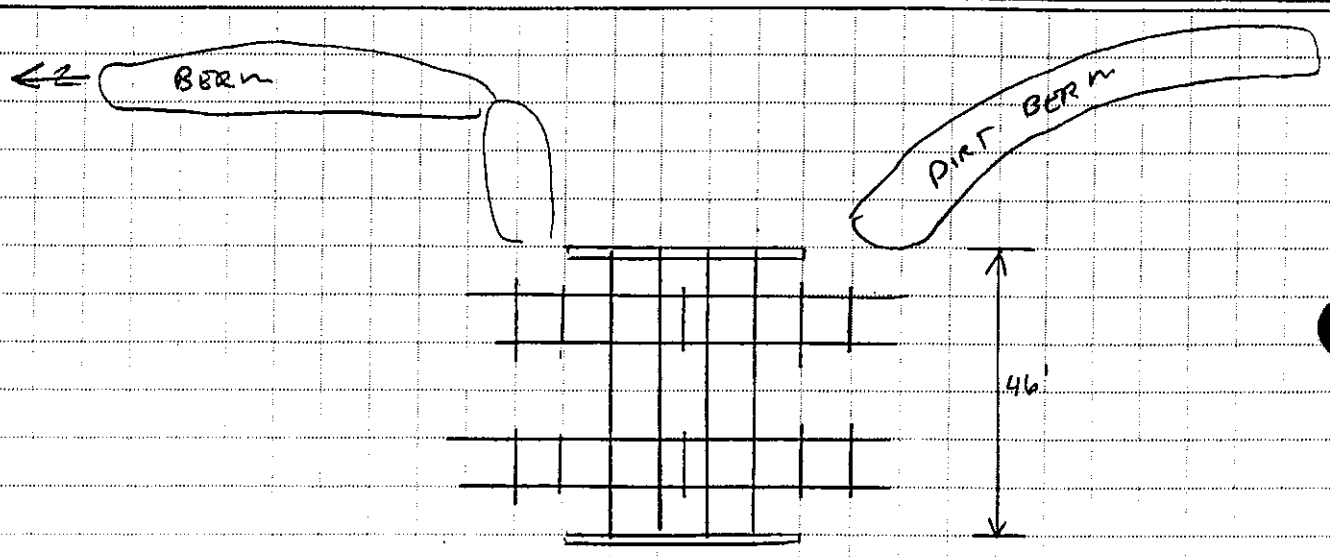
STANLEY

JOB Waterman Wash
SHEET NO. 6 OF 46
CALCULATED BY TDC/DM DATE 7-3-89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 6

MP 22.65





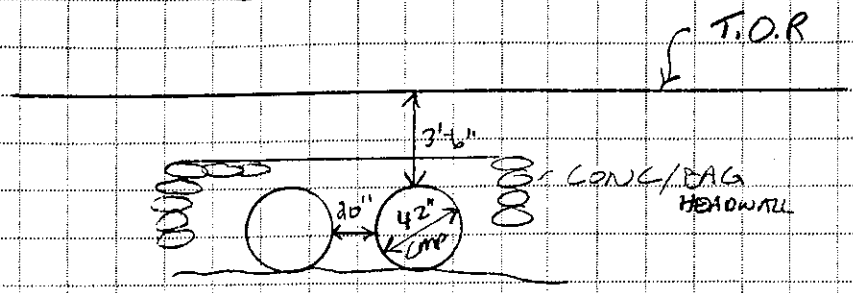
PRODUCT 205-1 NEBS Inc. Groton, Mass. 01471 ™; Order PHONE TOLL FREE 1-800-225-6380

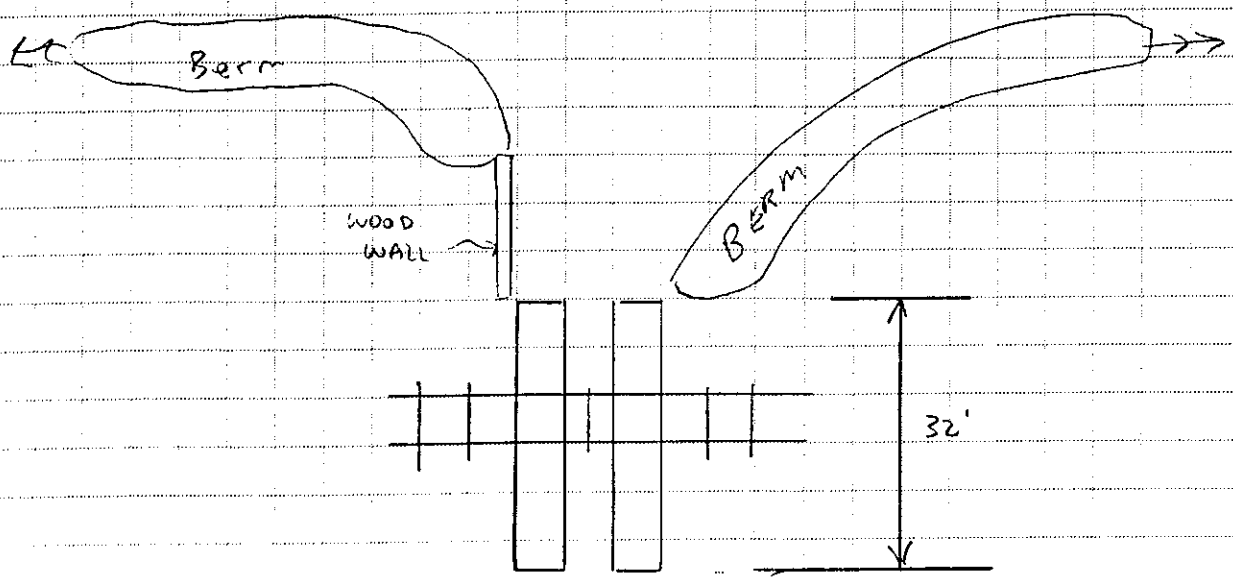
STANLEY

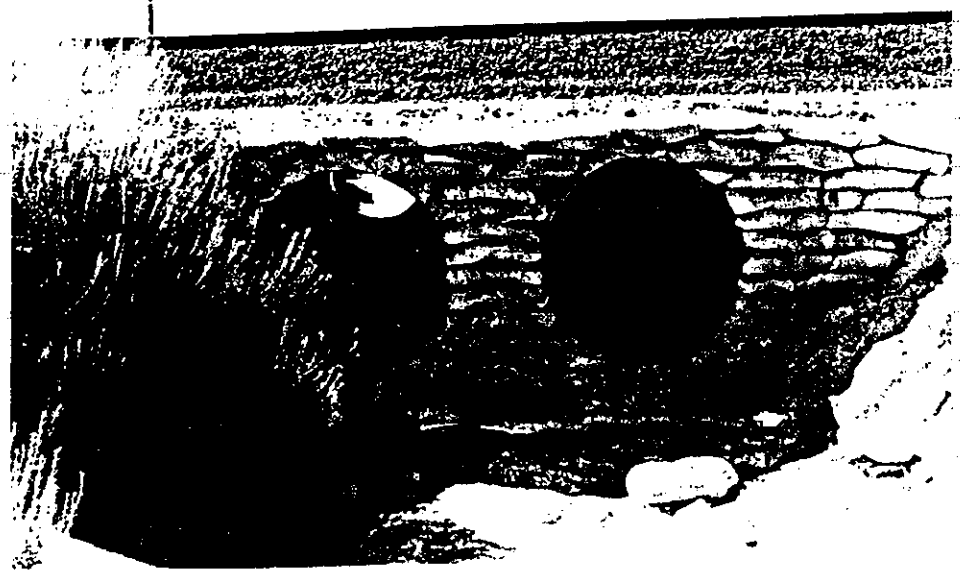
JOB: Wiehman Wash
SHEET NO. 7 OF 46
CALCULATED BY: TPC / DM DATE: 7-3-89
CHECKED BY: GSB DATE: Aug 91
SCALE:

STRUCTURE # 7

MP 23.20







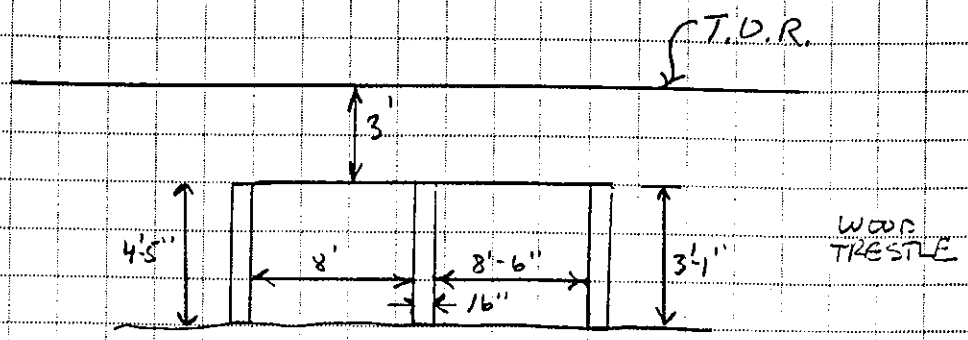
PRODUCT 205-1 NEBS ... Order PHONE TOLL FREE 1-800-225-6380

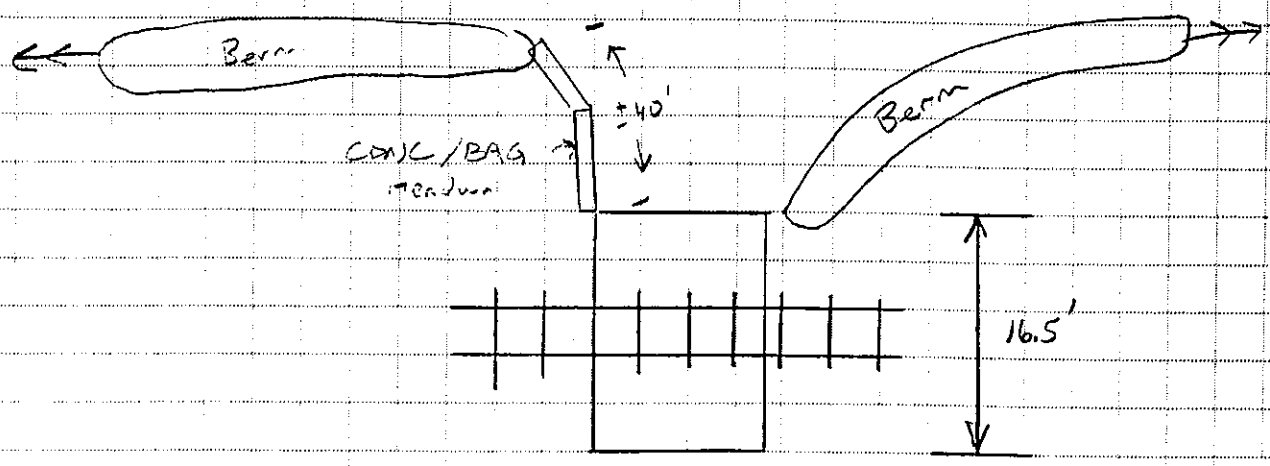
STANLEY

JOB Waterman Wash
SHEET NO. 8 OF 46
CALCULATED BY TDC/DM DATE 7-3-89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 8

MP 23.30





STANLEY

SHEET NO. 9 OF 46

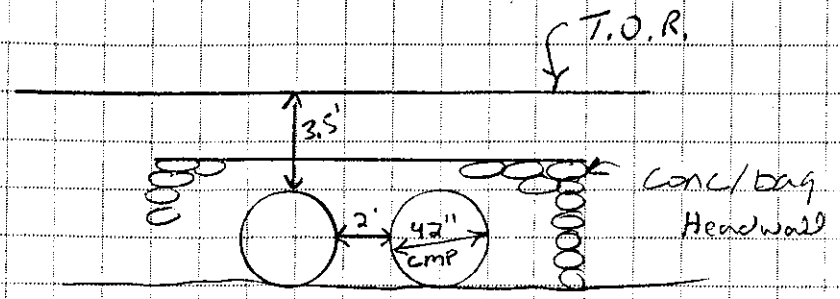
CALCULATED BY TDC/DM DATE 7-3-89

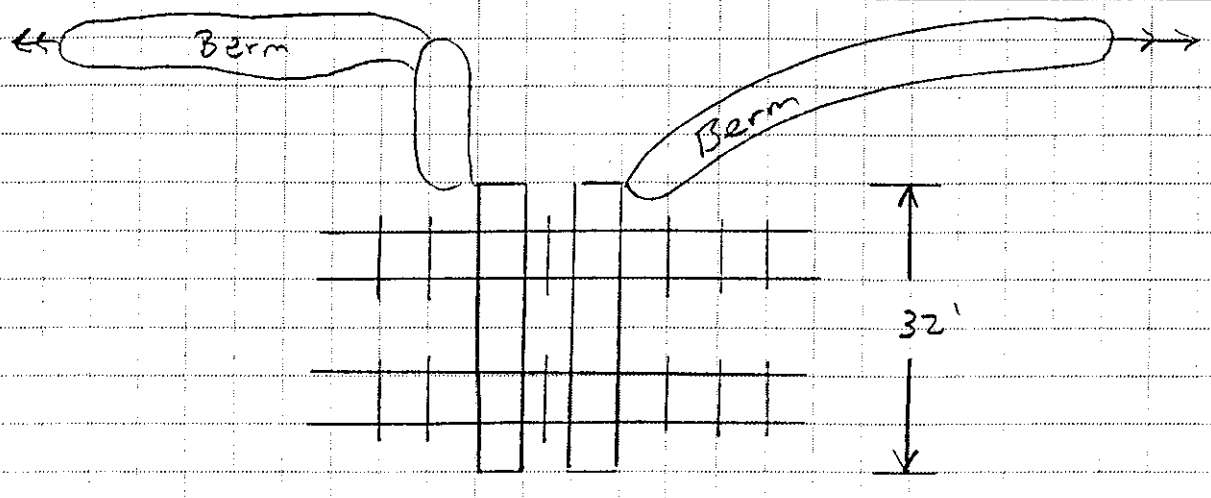
CHECKED BY GSB DATE Aug 91

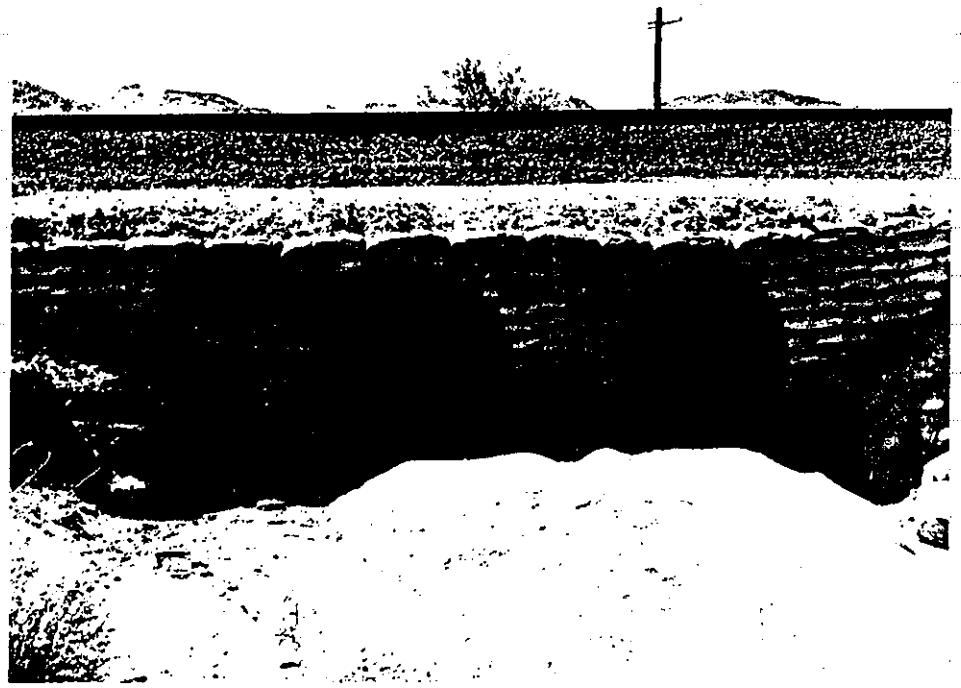
SCALE

STRUCTURE # 9

MP 23.65







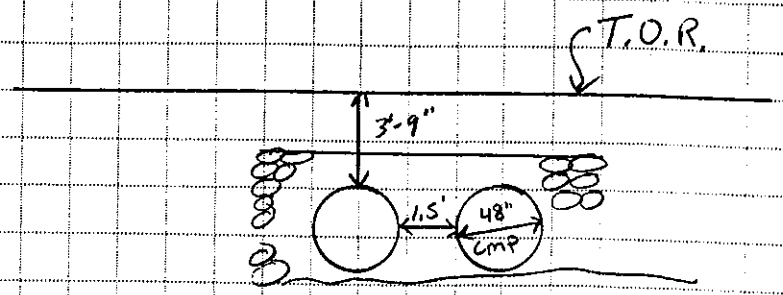
PRODUCT 205-1 NEBS Inc. Groton, Mass. 01471 To Order PHONE TOLL FREE 1-800-225-6380

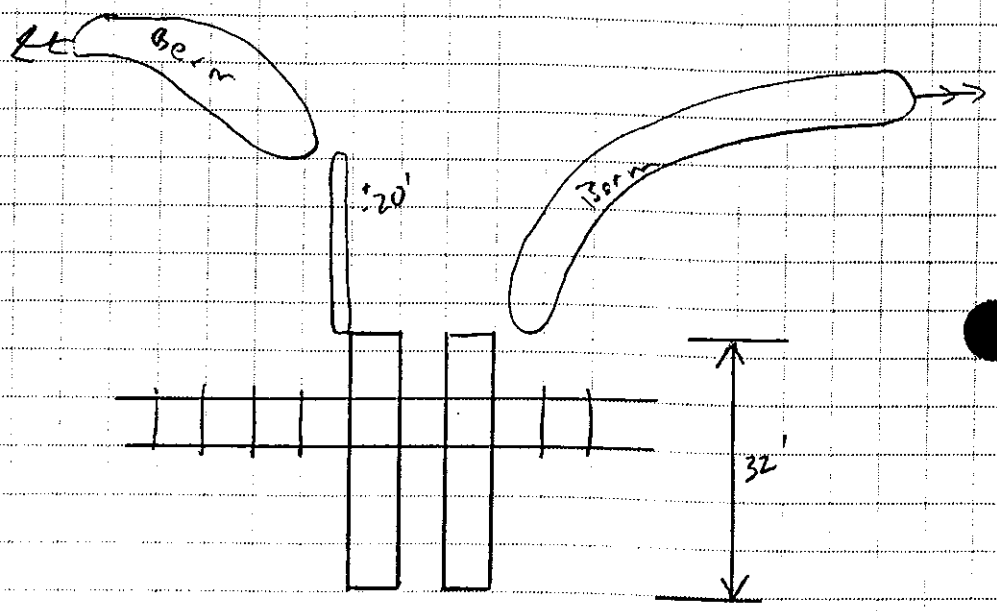
STANLEY

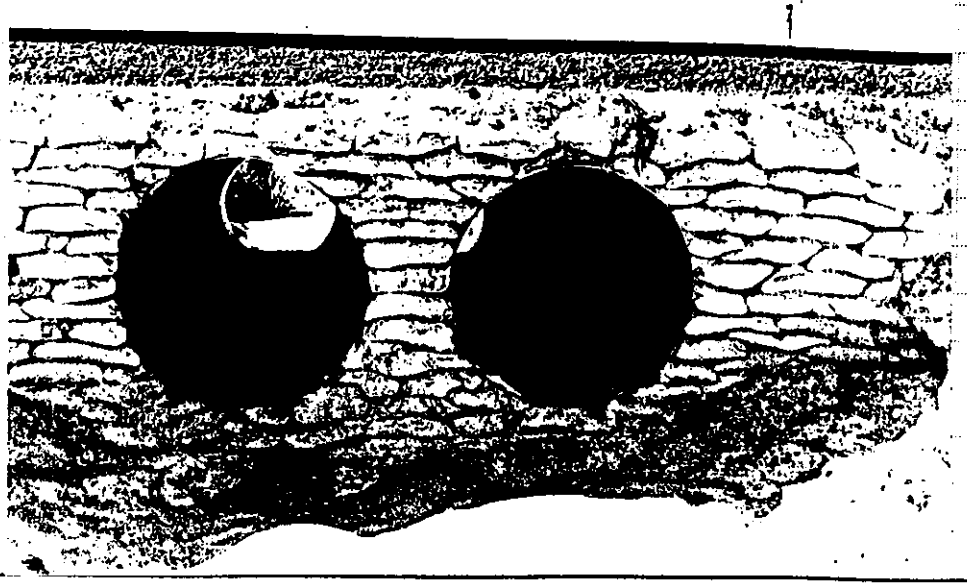
JOB Waterman Wash
SHEET NO. 10 OF 46
CALCULATED BY TPC/DM DATE 7-3-89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 10

MP 23.9b







STANLEY

JOB

SHEET NO. 11 OF

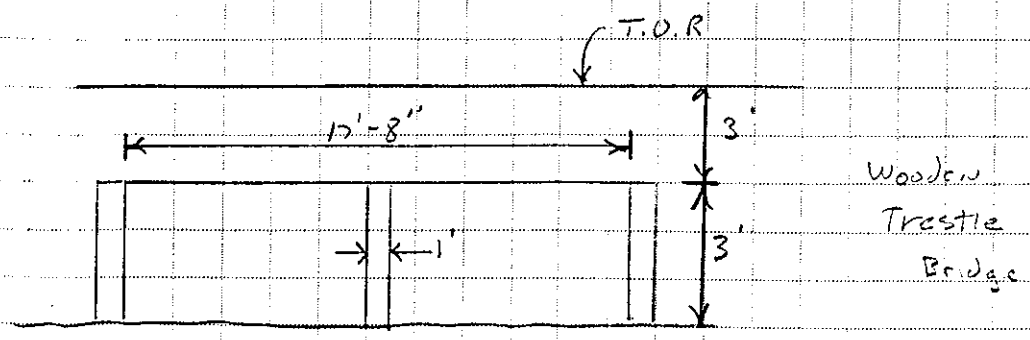
CALCULATED BY DWB/TDC DATE 6/19/89

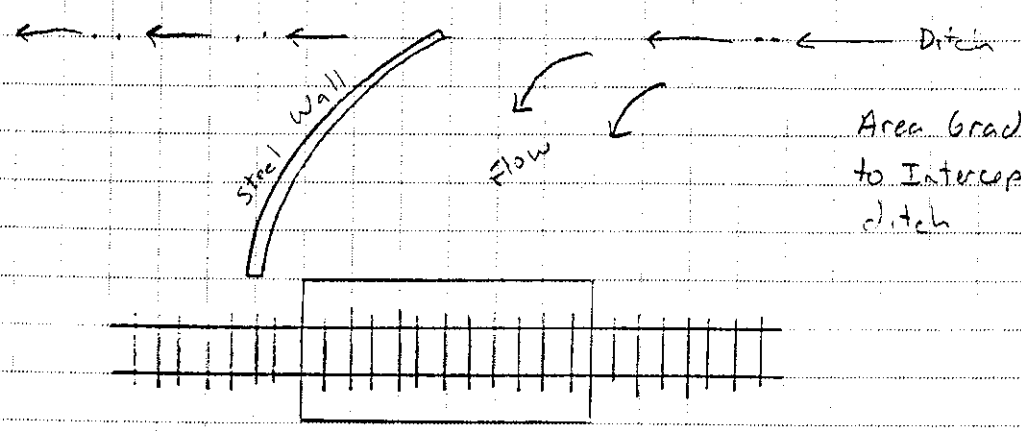
CHECKED BY CJS DATE Aug 91

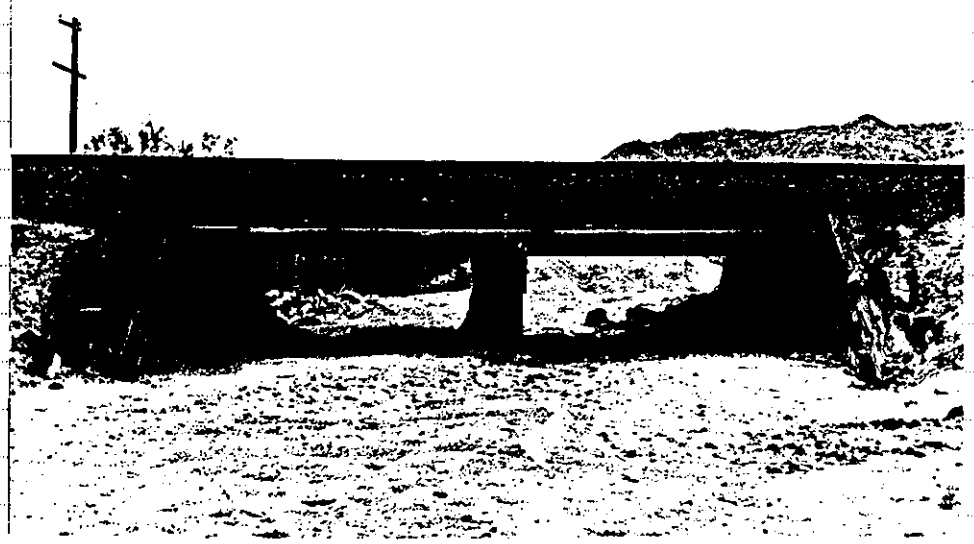
SCALE

STRUCTURE # 11

MP 24.4







PRODUCT 205-1 / NEBS / Inc., Groton, Mass. 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY CONSULTANTS
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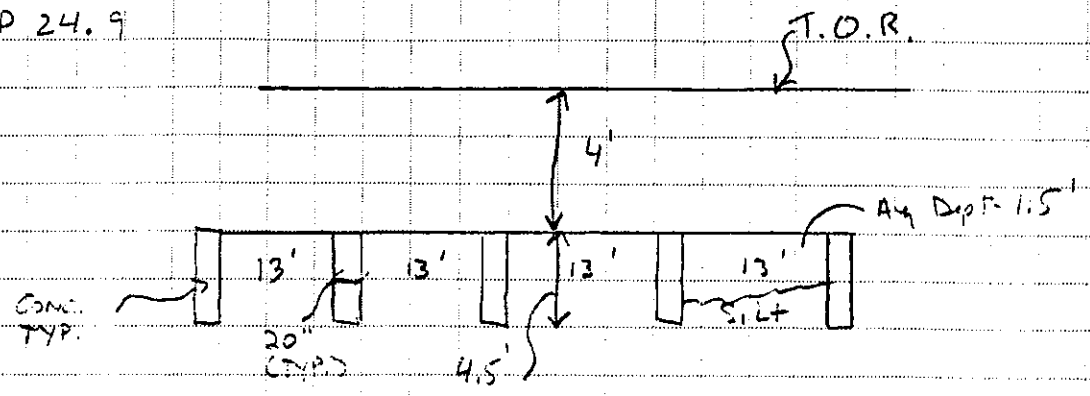
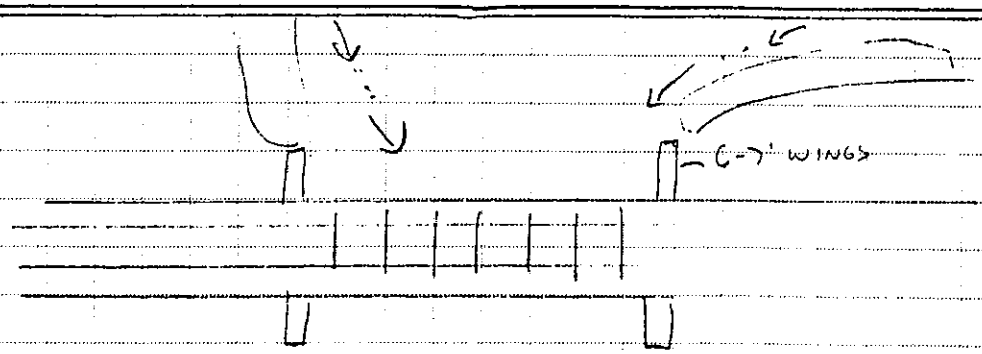
ENGINEERS • PLANNERS • SURVEYORS
3117 NORTH 16TH STREET
PHOENIX, AZ 85016 • (602) 279-0901

JOB Waterman Wash
SHEET NO. 12 OF 46
CALCULATED BY DWB / TPC DATE 11/1/89
CHECKED BY CSB DATE Aug 91
SCALE

STRUCTURE # 12

MP 24.9





NO PICTURE

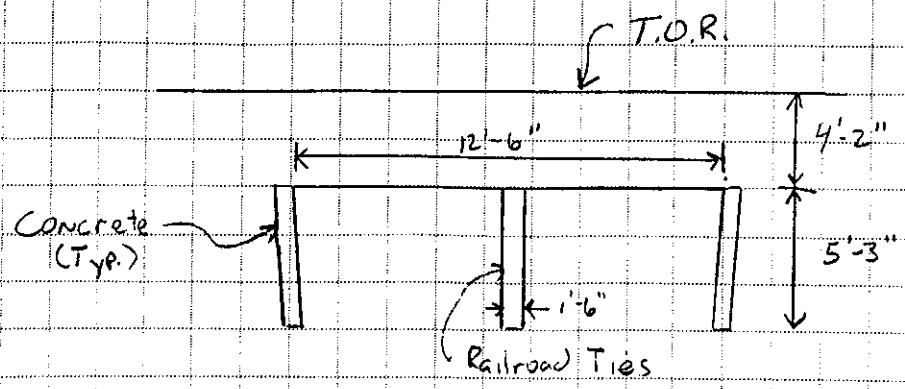
PRODUCT 205-1 NEBS, Inc. Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

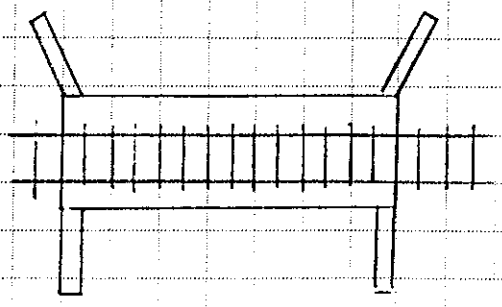
STANLEY

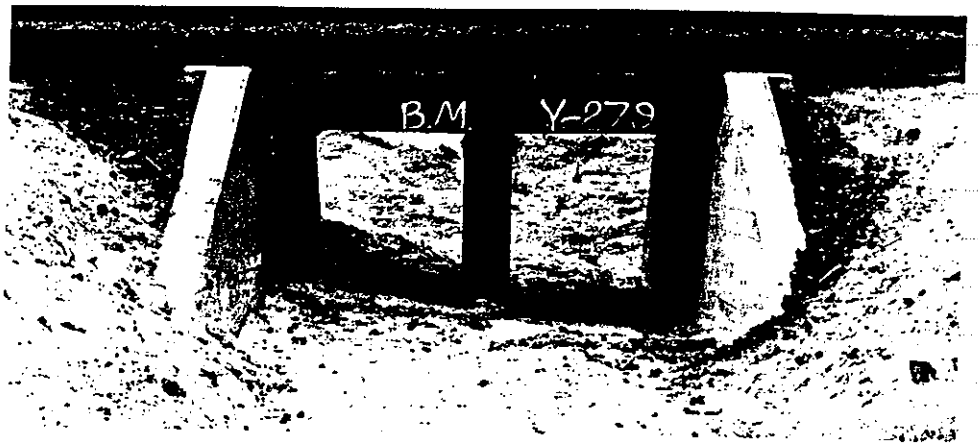
JOB Waterman Wash
SHEET NO. 13 OF 46
CALCULATED BY DWB / TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 13

MP 25







PRODUCT 205 NCBS

STANLEY

JOB Waterman Wash

SHEET NO. 14 OF 46

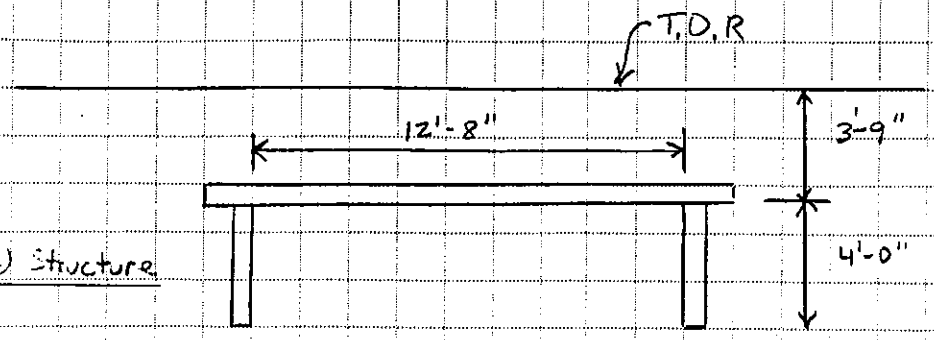
CALCULATED BY DWB / TDC DATE 6/19/89

CHECKED BY GSB DATE Aug 91

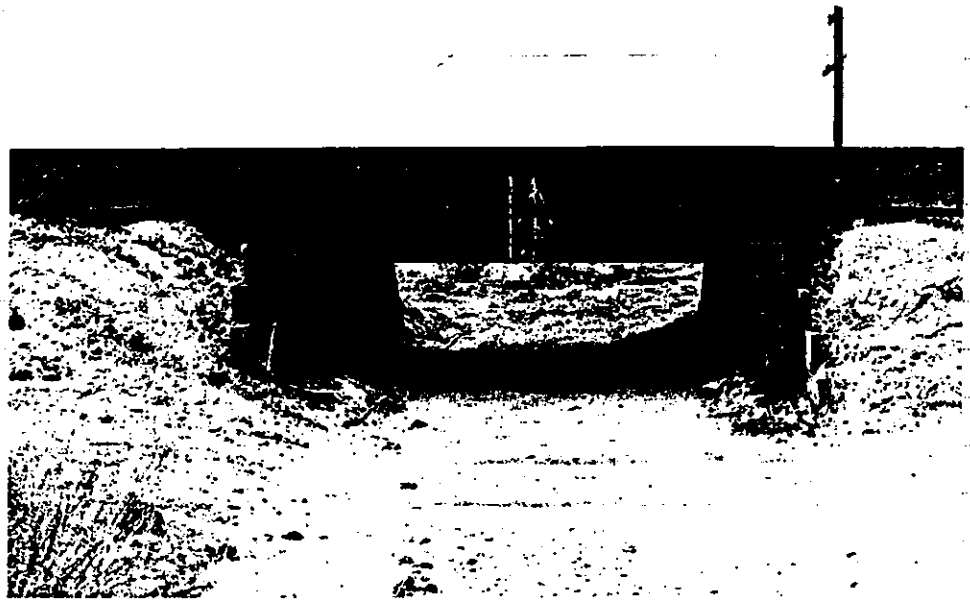
SCALE

STRUCTURE # 14

MP 25.4



All Wood Structure



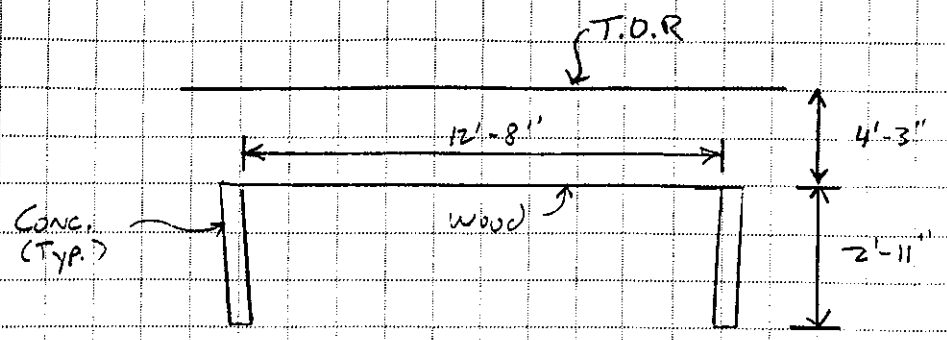
PRODUCT 205 NEBS

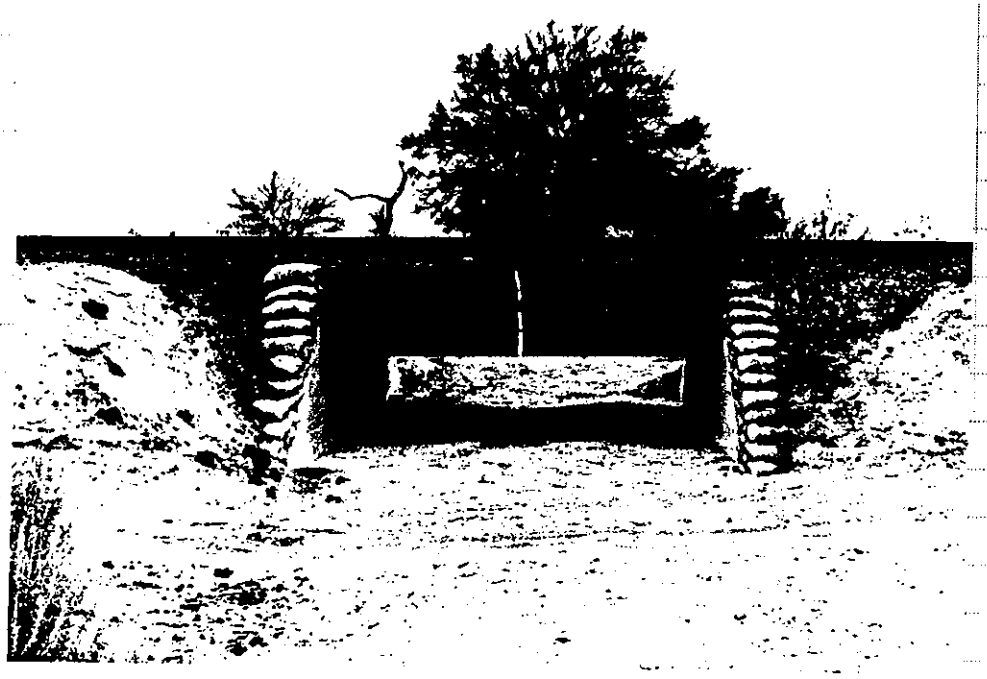
STANLEY

JOB Donley Ran Wash
SHEET NO. 15 OF 46
CALCULATED BY DWB / TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

MP 25.5

STRUCTURE # 15





PRODUCT 225 NEBS Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB [illegible]

SHEET NO. 16 OF [illegible]

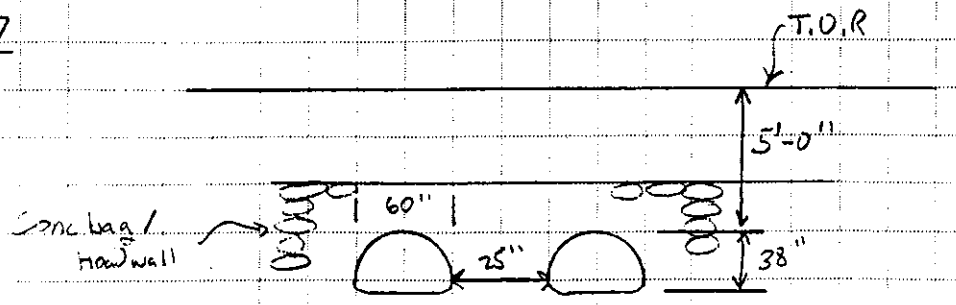
CALCULATED BY DWB / TPC DATE 6/19/89

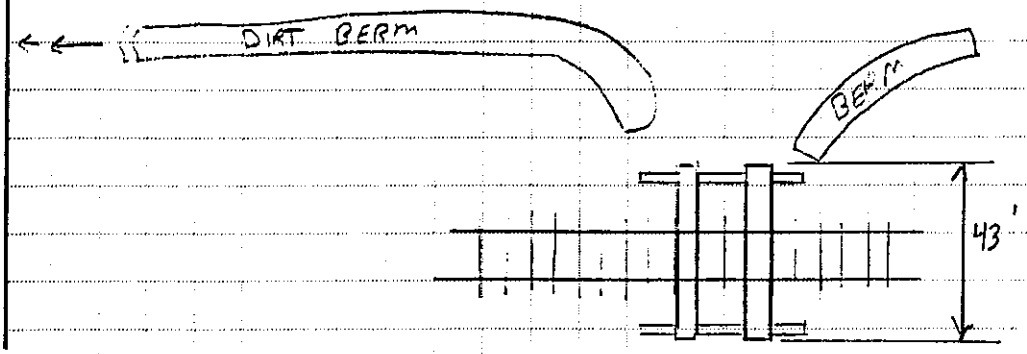
CHECKED BY GSB DATE Aug 91

SCALE

STRUCTURE # 16

MP 25.7





STANLEY

JOB Waterman Wash

SHEET NO. 17 OF 16

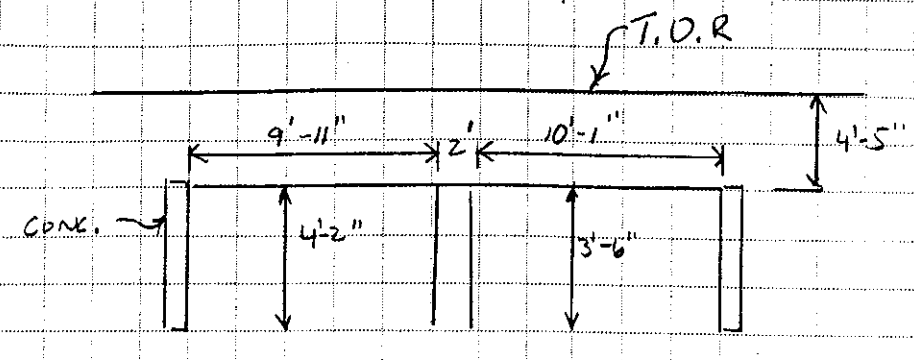
CALCULATED BY DWB / TDC DATE 6/19/89

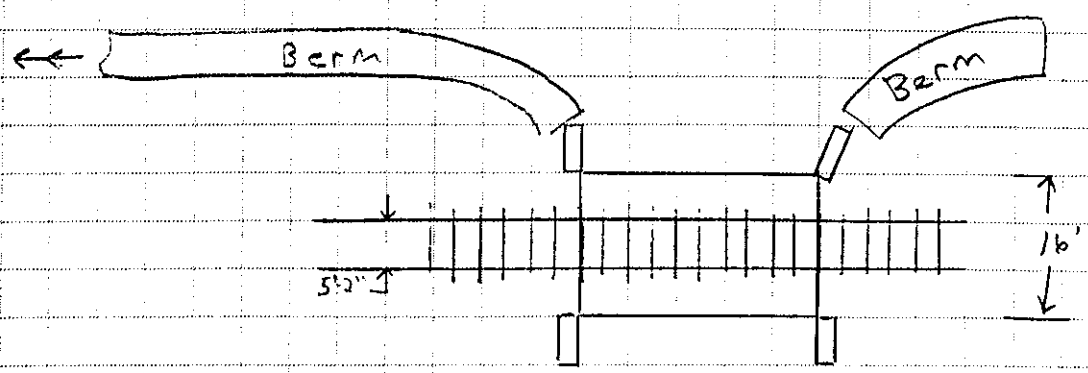
CHECKED BY GSB DATE Aug 91

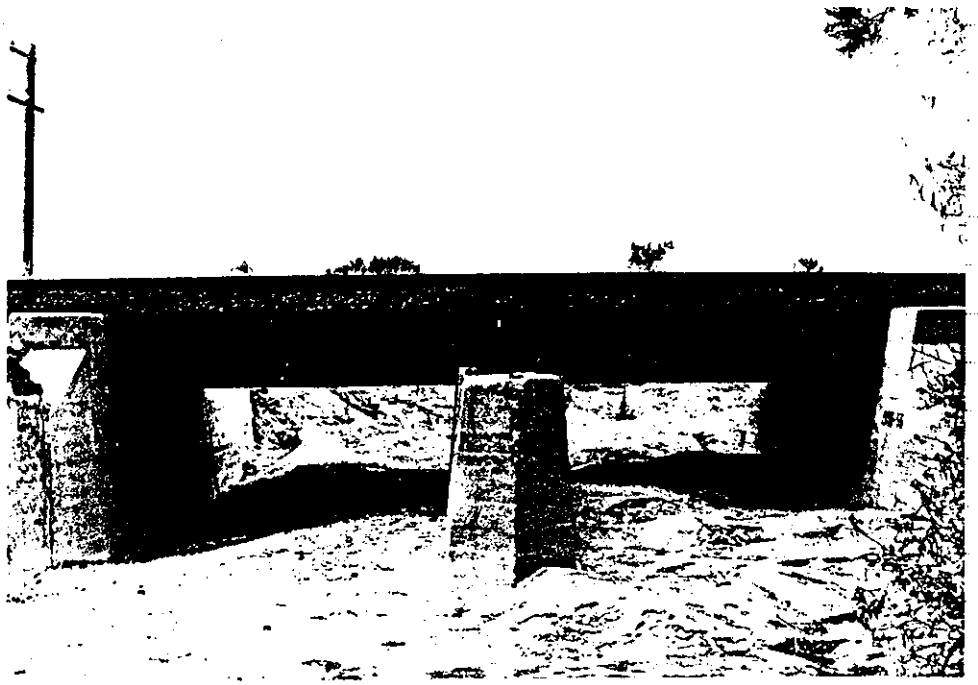
SCALE

STRUCTURE #17

MP 26.2







PRODUCT 2051 NEBS Order Phone TOLL FREE 1-800-225-6380

STANLEY

JOB: Waterman Wash

SHEET NO. 18 OF 46

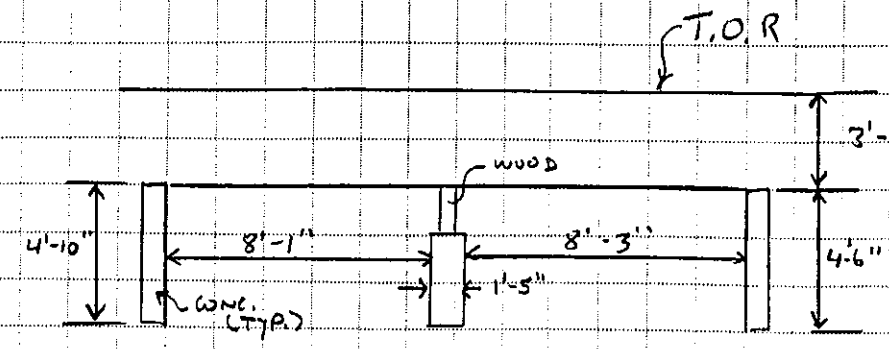
CALCULATED BY: DWB/TDC DATE: 6/19/89

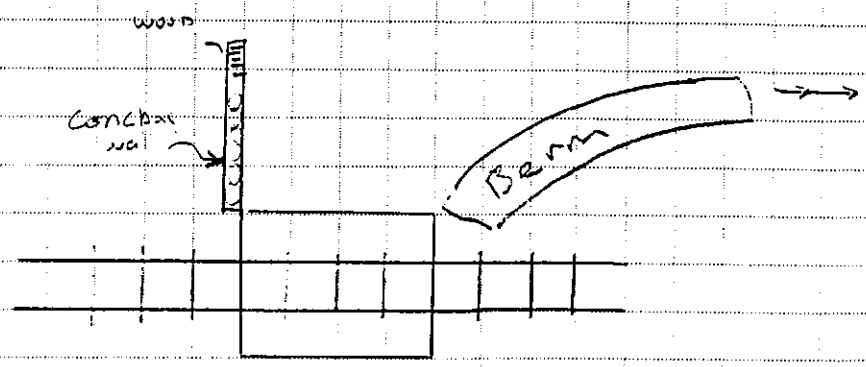
CHECKED BY: GSB DATE: Aug 91

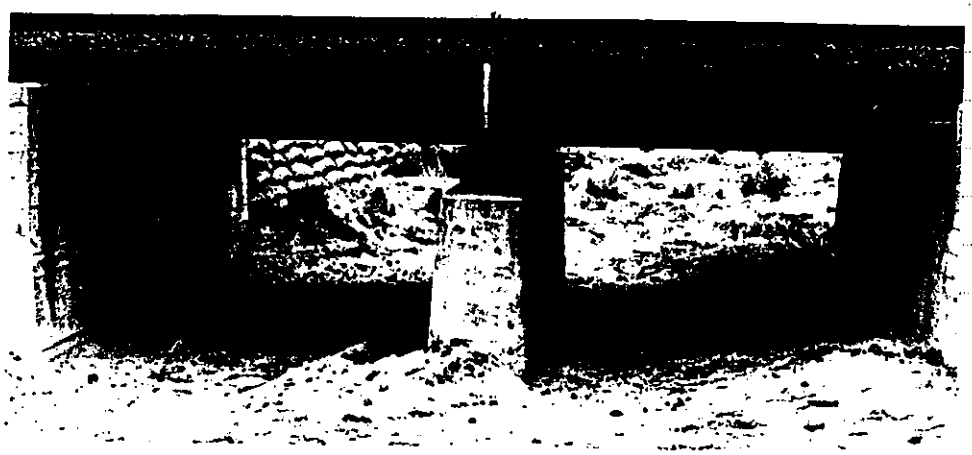
SCALE:

STRUCTURE # 18

MP 26.5







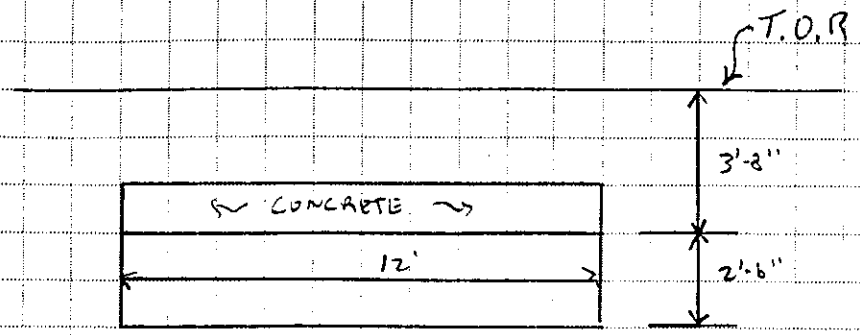
PRODUCT 225 N686 Stanley Mills 1111 Tilghman PHONE TOLL FREE 1-800-225-6390

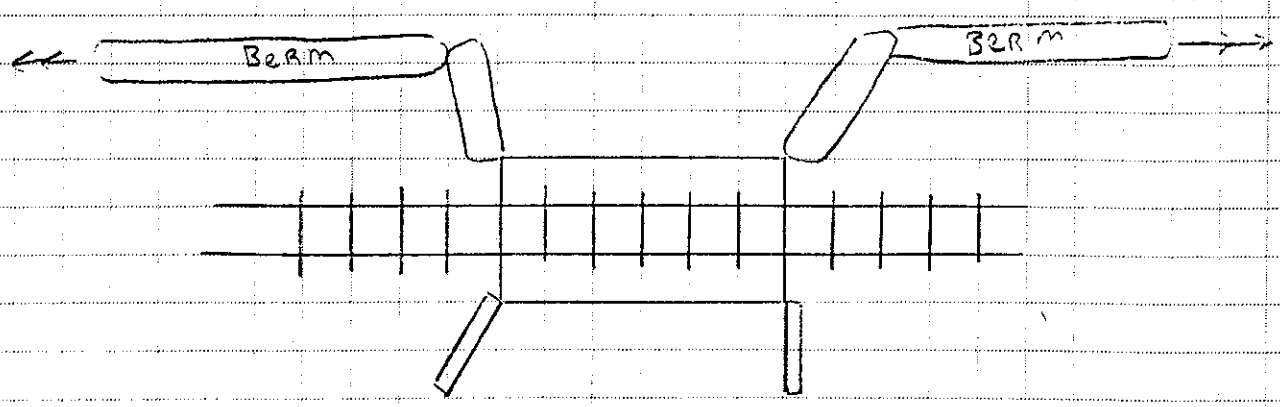
STANLEY

JOB Waterman Wash
SHEET NO. 19 OF 46
CALCULATED BY DWB / TDL DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 19

MP 26.7



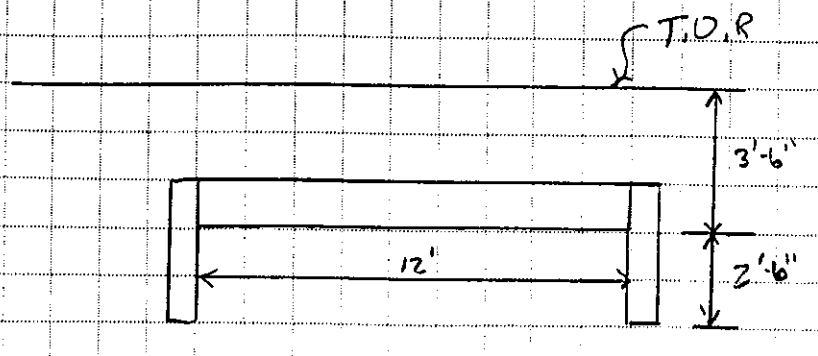


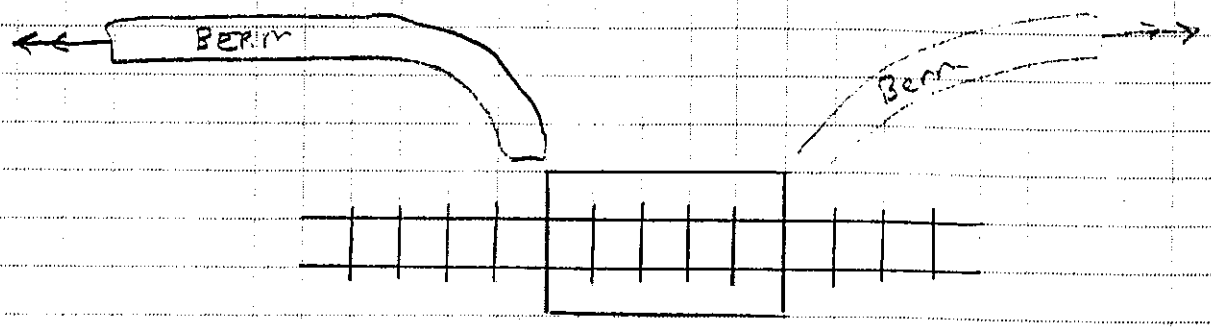
STANLEY

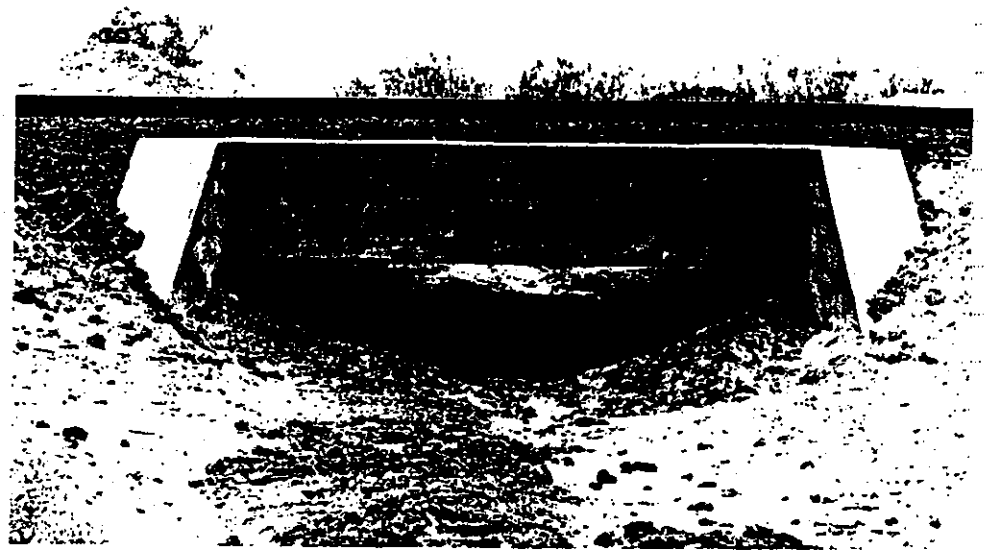
JOB Waterman Wash
SHEET NO. 20 OF 46
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 20

MP 27.0





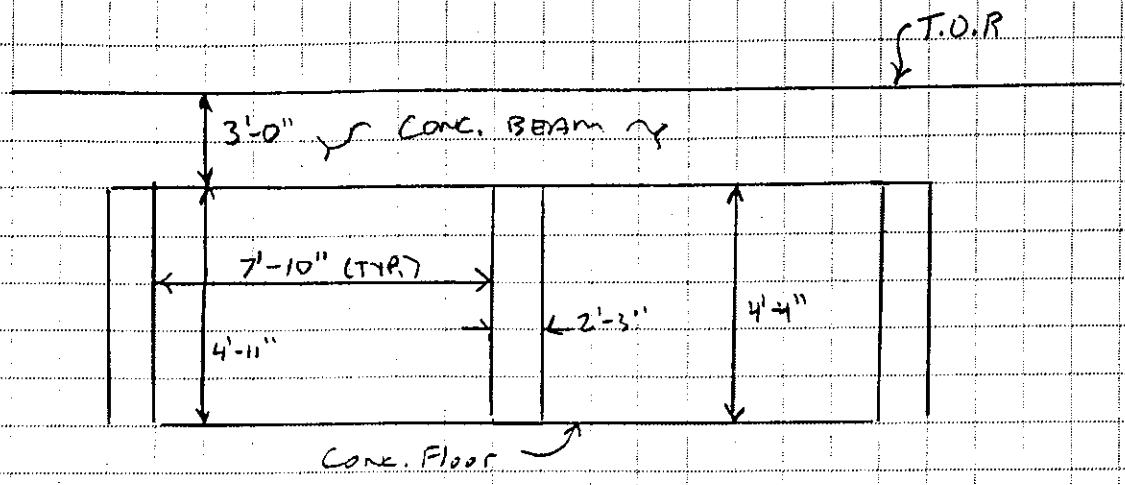


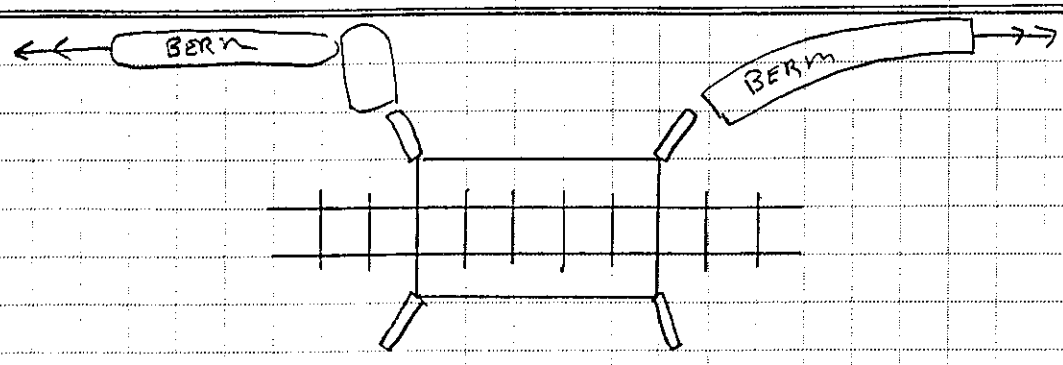
STANLEY

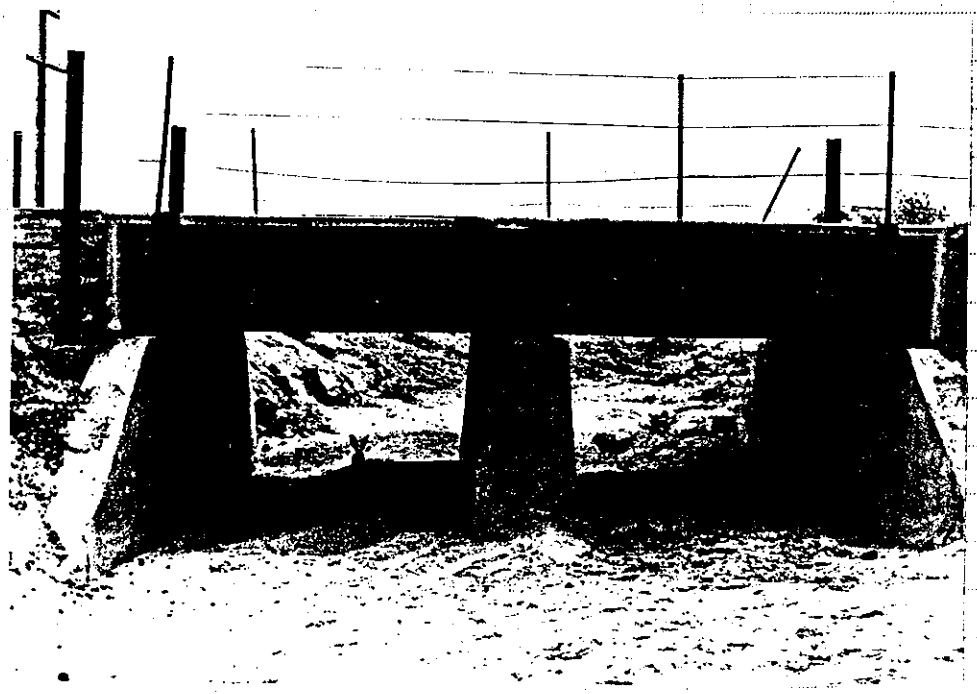
JOB Waterman Wash
SHEET NO. 21 OF 46
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 21

MP 27.4







STANLEY

JOB Waterman Wash

SHEET NO. 22 OF 46

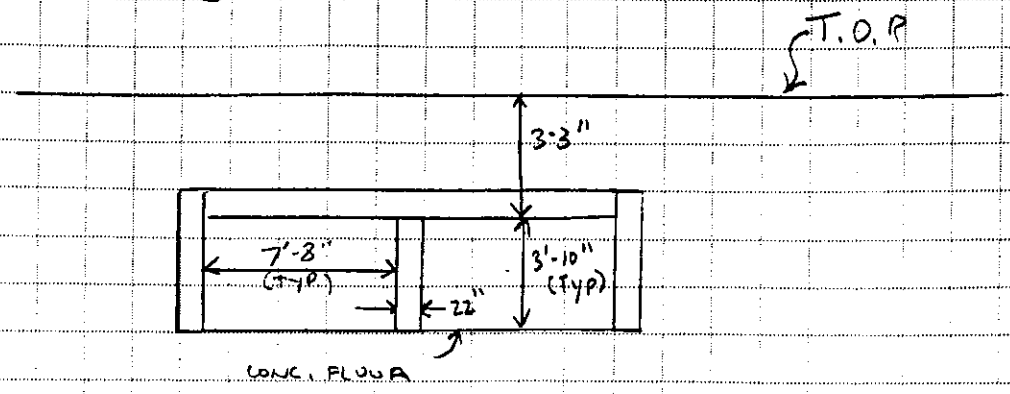
CALCULATED BY DWB/TDC DATE 6/19/89

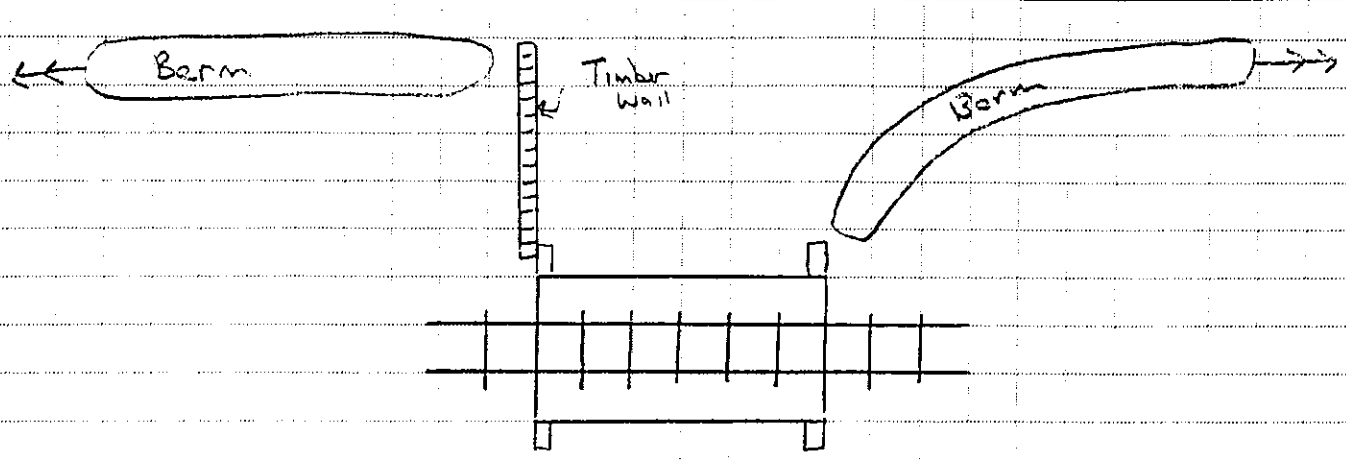
CHECKED BY GSB DATE Aug 91

SCALE

STRUCTURE # 22

MP 27.75



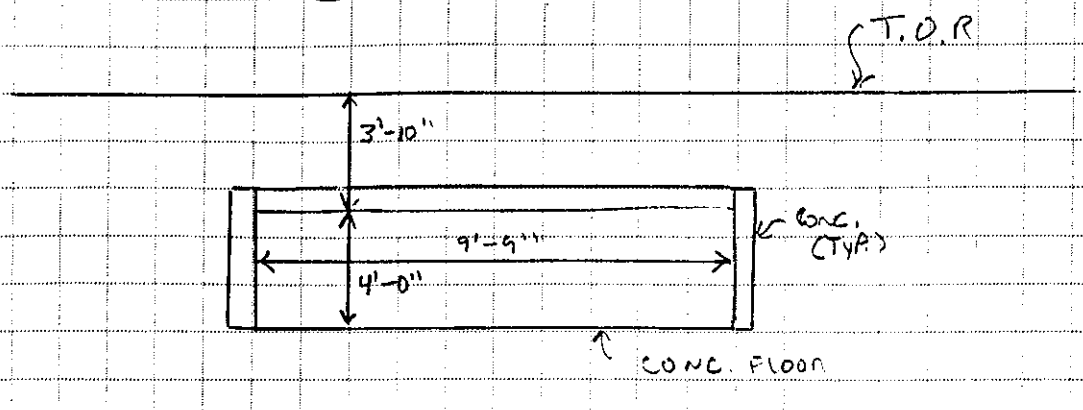


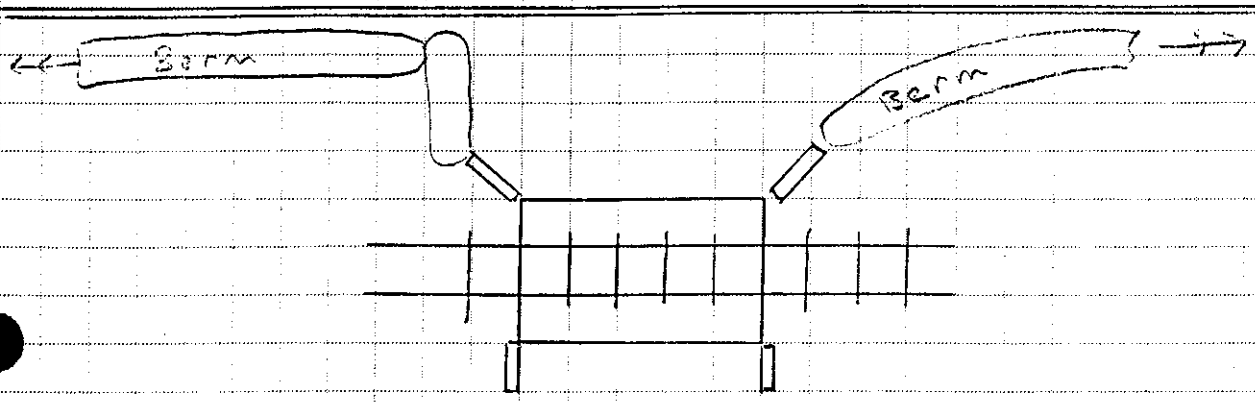
STANLEY

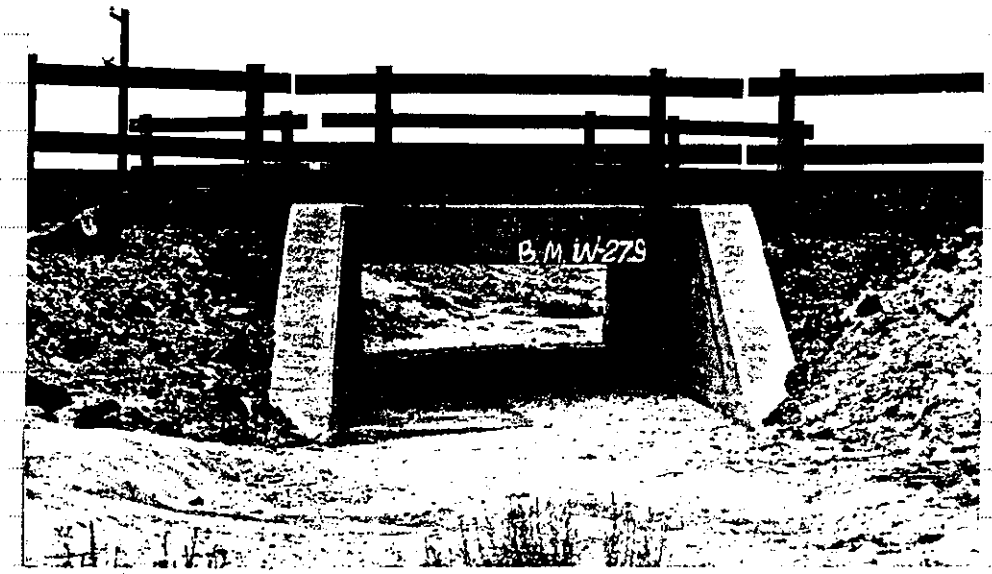
JOB Waterman Bridge
SHEET NO. 23 OF 40
CALCULATED BY DWB / TDC DATE 6/19/89
CHECKED BY GSB DATE AUG 91
SCALE

STRUCTURE # 23

MP 28







PRODUCT 205-1 NEBS Inc Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB

SHEET NO. 24 OF 40

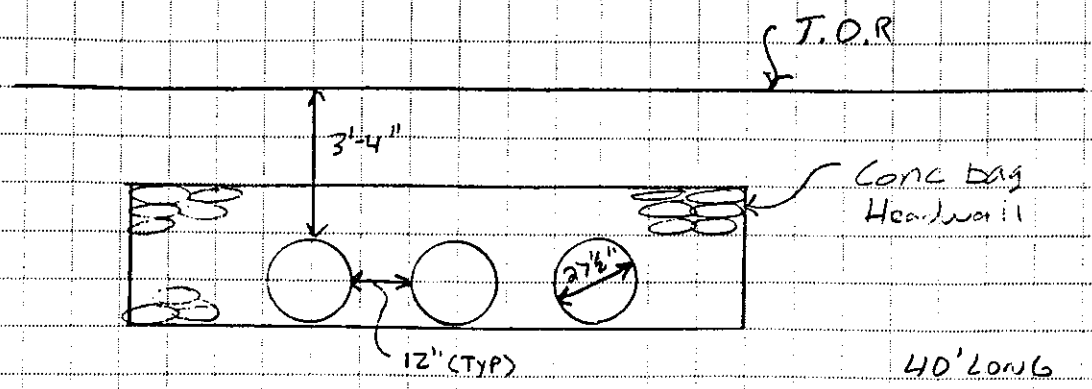
CALCULATED BY DWB/TDC DATE 6/19/89

CHECKED BY GSB DATE Aug 91

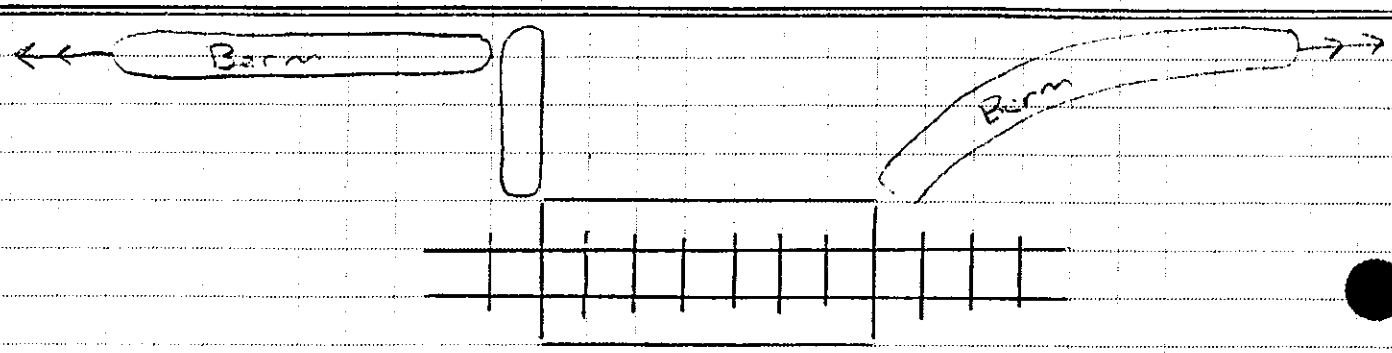
SCALE

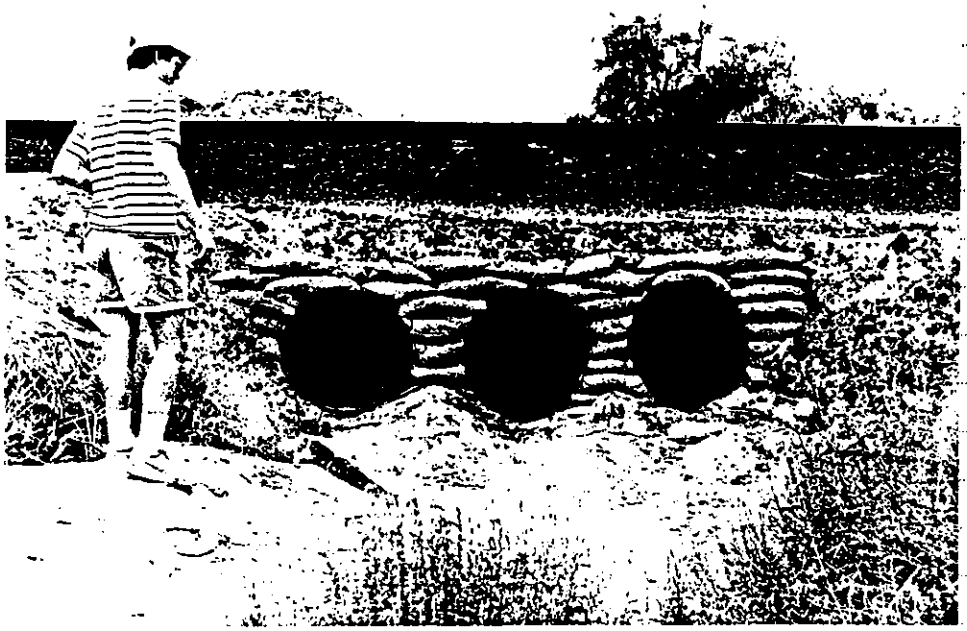
STRUCTURE # 24

MP 28.3



40' LONG
STEEL PIPES





PRODUCT 205-1 NEBS Order Mass (617) 7... Order PHONE TOLL FREE 1-800-225-6380

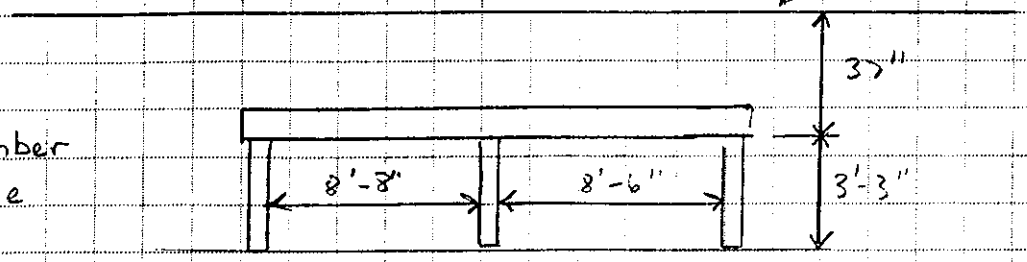
STANLEY

JOB: Western [illegible]
SHEET NO. 25 OF 46
CALCULATED BY: DWB/JDL DATE: 6/19/89
CHECKED BY: GSB DATE: Aug 91
SCALE:

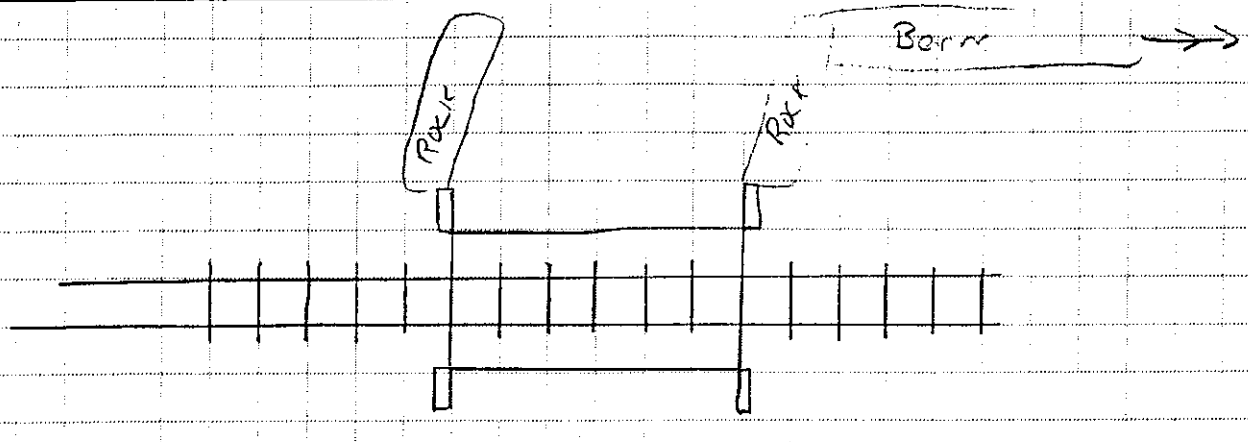
Structure # 25

M.P. 28.5

T.O.R



All Timber Bridge



JOB Waterman Wash

SHEET NO. 26 OF 46

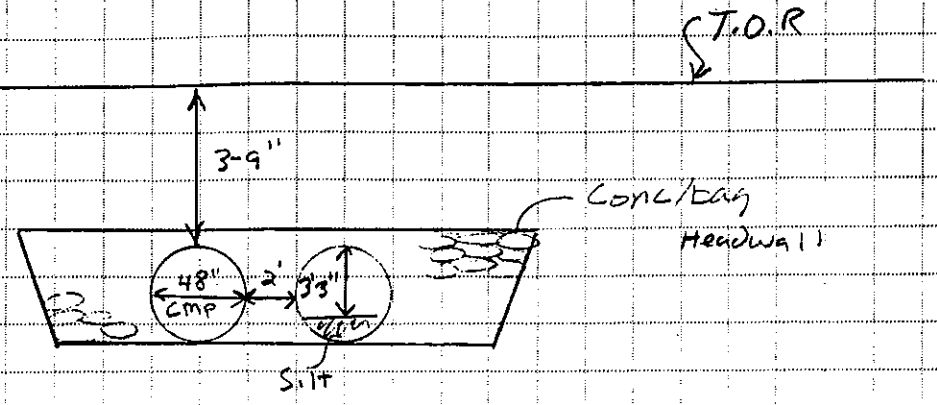
CALCULATED BY DWB/TDL DATE 6/19/89

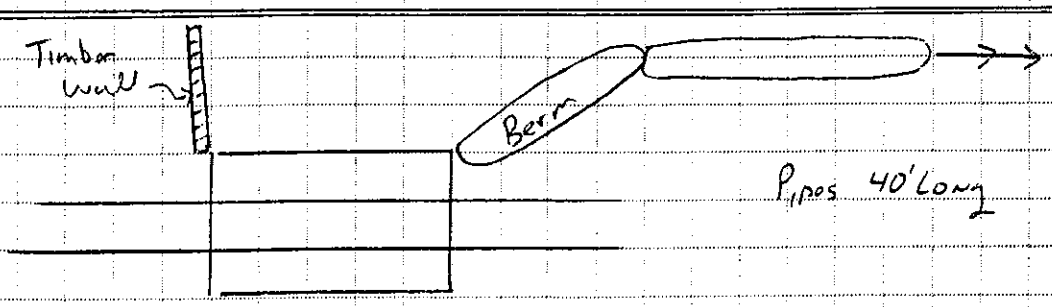
CHECKED BY CJSB DATE Aug 91

SCALE

STRUCTURE # 26

MP 28.7





STANLEY

JOB Waterman Wash

SHEET NO. 27 OF 46

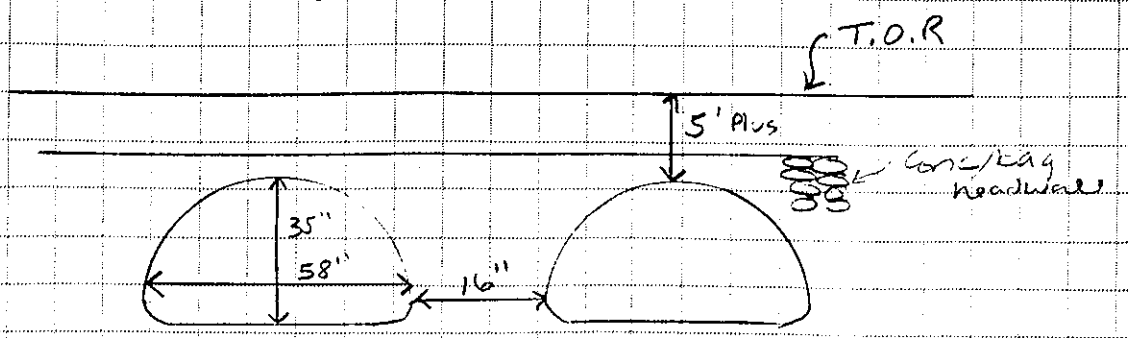
CALCULATED BY DWB/TDC DATE 6/19/89

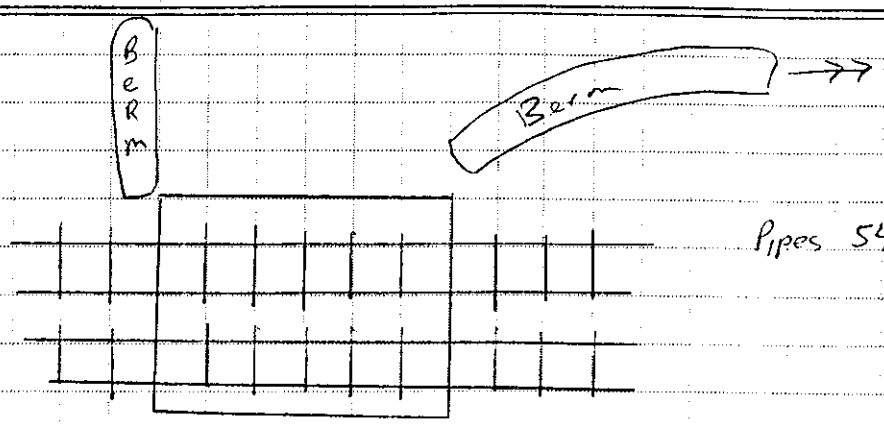
CHECKED BY GSB DATE Aug 91

SCALE

STRUCTURE # 27

MP 29





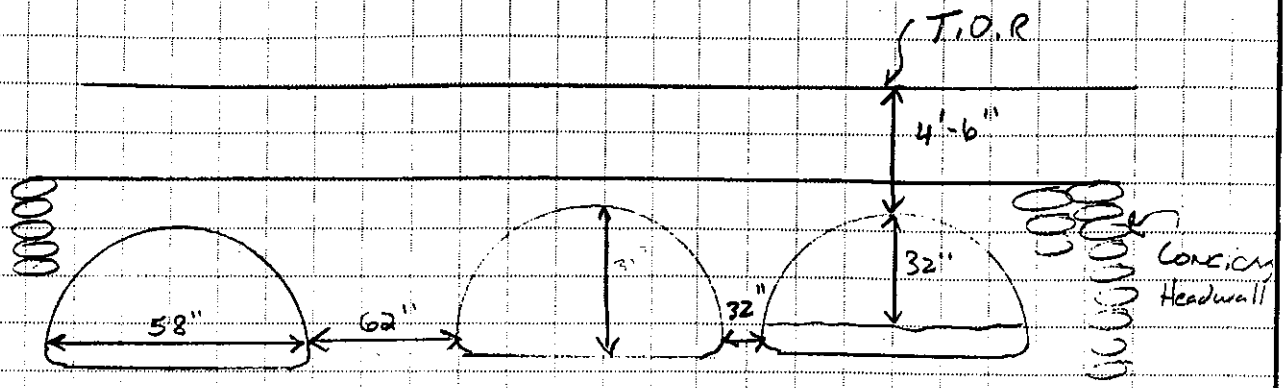
PRODUCT 225 NEBS

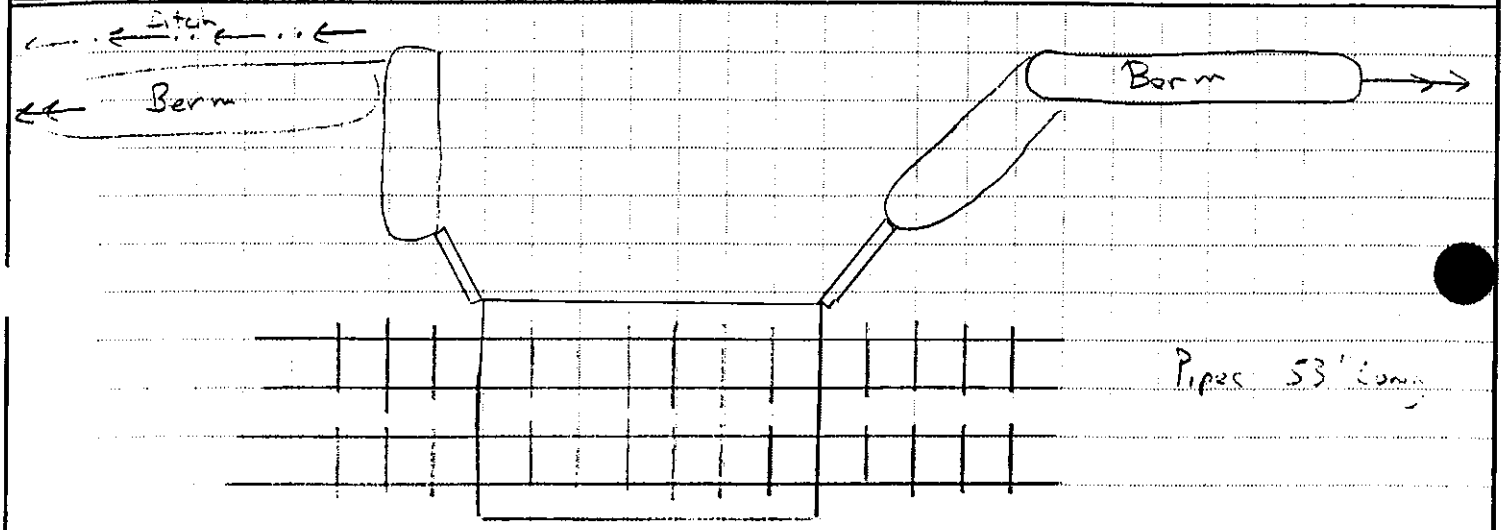
STANLEY

JOB Waterman Wash
SHEET NO. 28 OF 46
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 28

MP 29.3



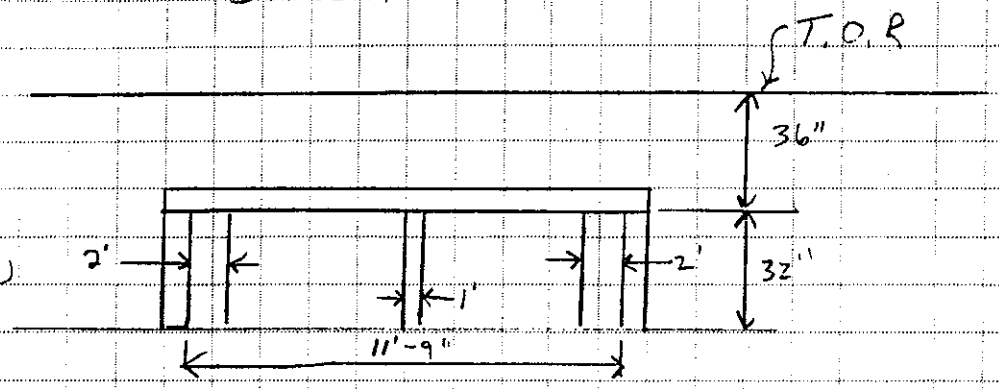


STANLEY

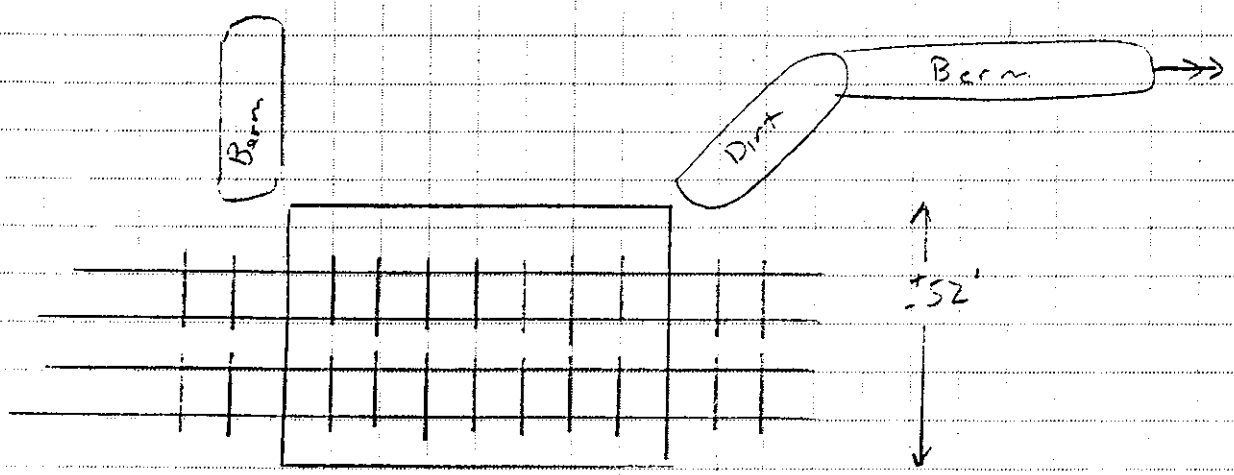
JOB Waterman Viaduct
SHEET NO. 29 OF 46
CALCULATED BY DWB/TDC DATE 6/19/29
CHECKED BY GJS DATE Aug 91
SCALE

STRUCTURE # 29

MP 29.5



Blue Is Wood
Underpinning Add
For Add. Strength



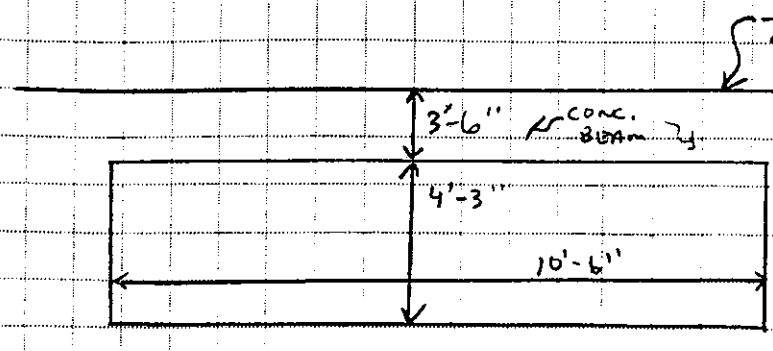
PRODUCT 205-1 NEBS Inc Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

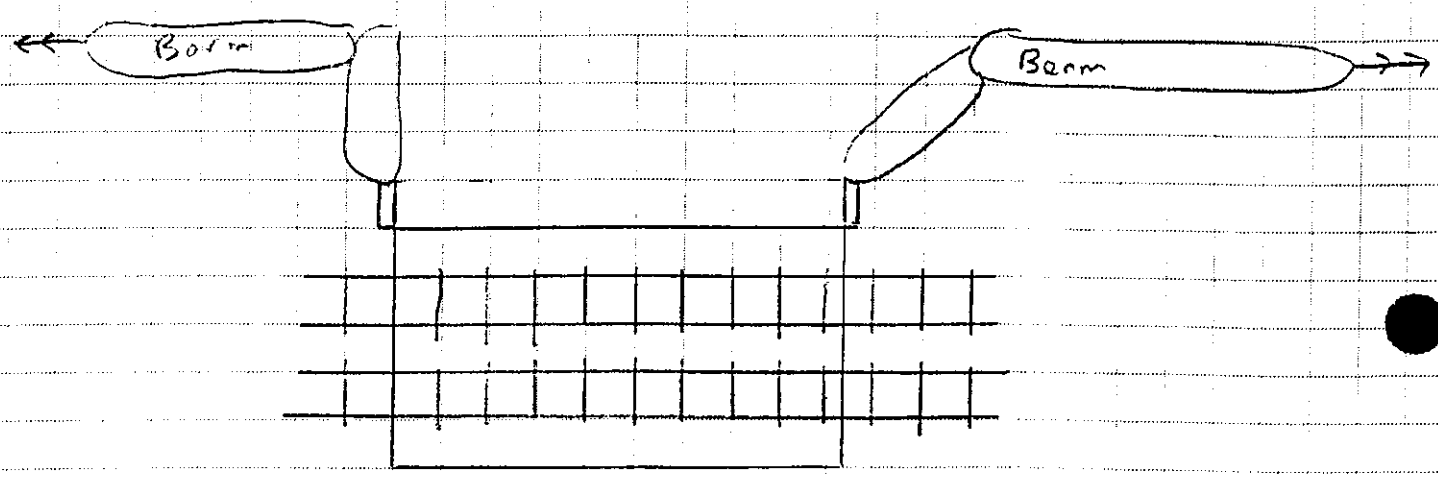
STANLEY

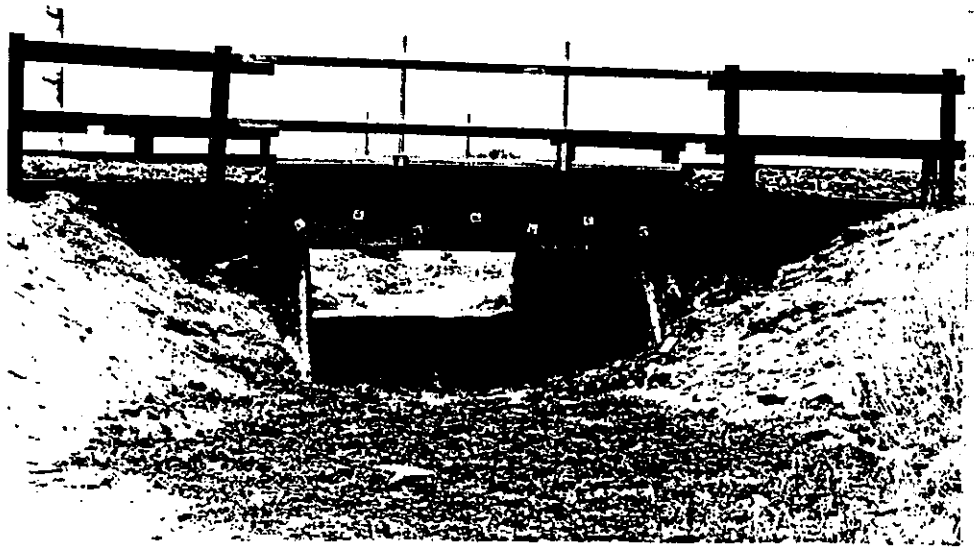
JOB: [illegible] Wash
SHEET NO. 30 OF 46
CALCULATED BY: DWB/TDC DATE: 6/19/89
CHECKED BY: GSB DATE: 1/19/91
SCALE:

STRUCTURE # 30

MP 29.8







STANLEY

JOB

SHEET NO. 31 OF 410

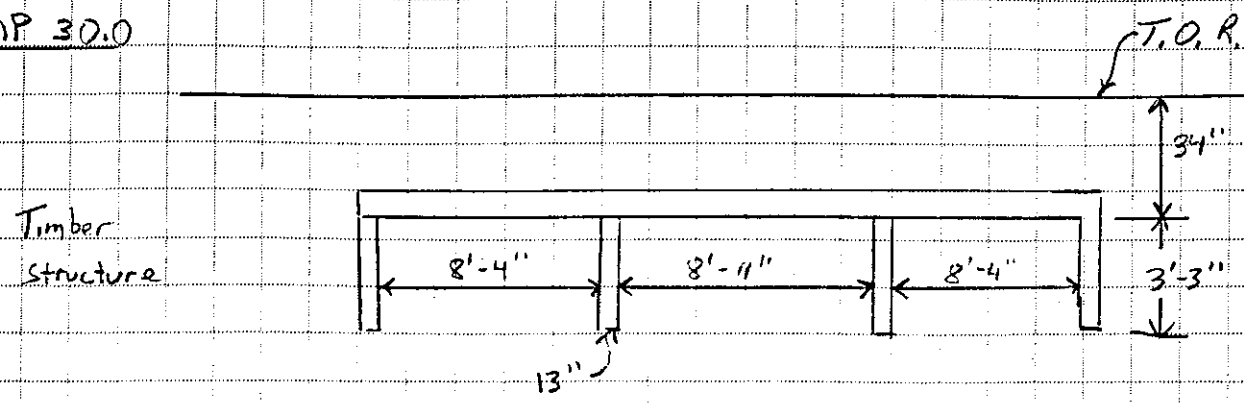
CALCULATED BY DWB/TDC DATE 6/19/89

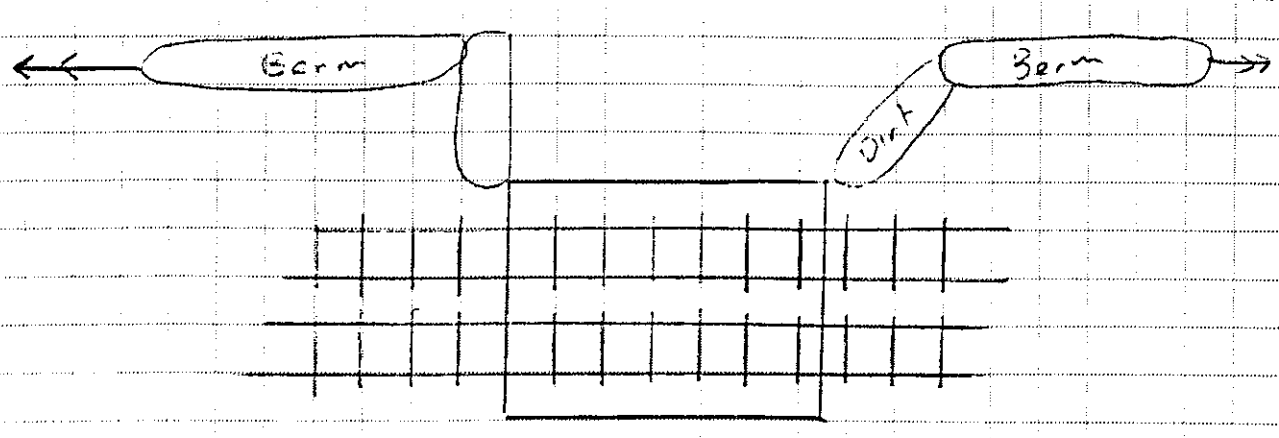
CHECKED BY GSB DATE Aug 91

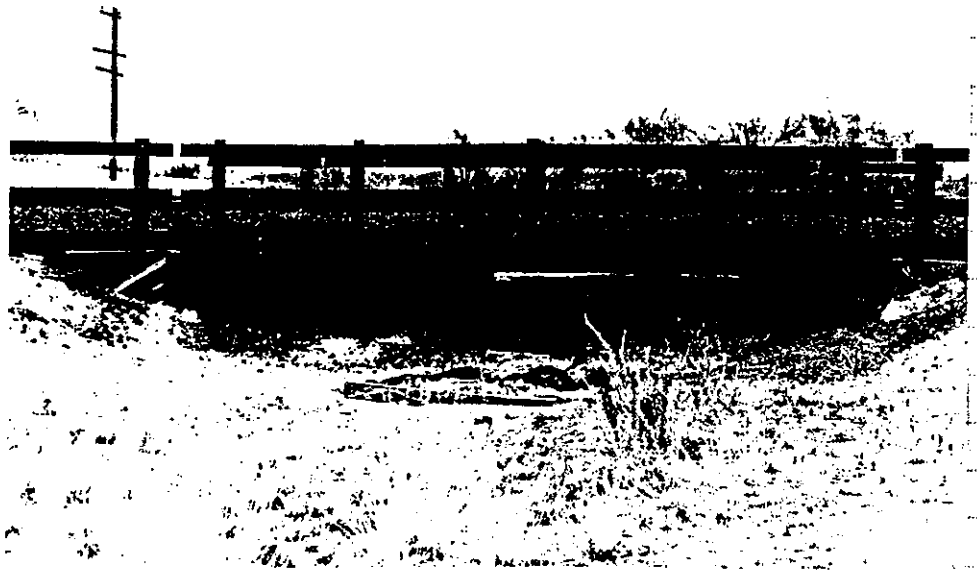
SCALE

STRUCTURE # 31

MP 30.0







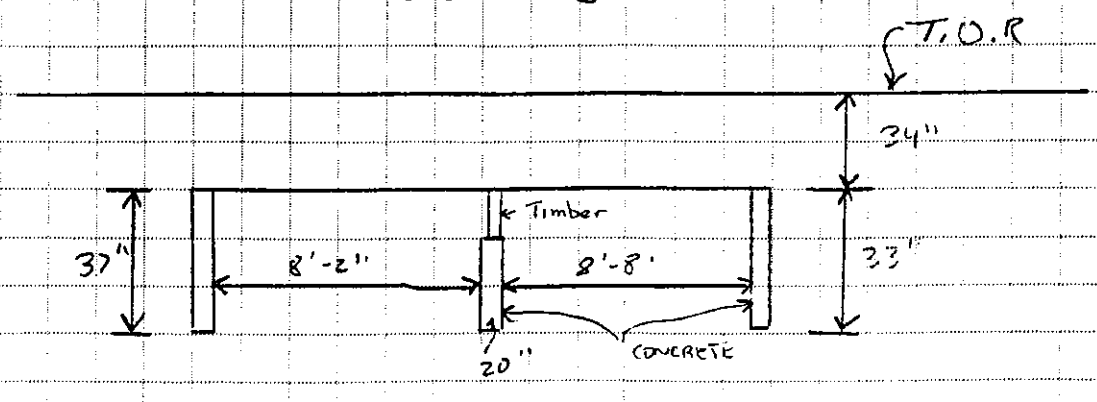
PRODUCT 2024 NEBS

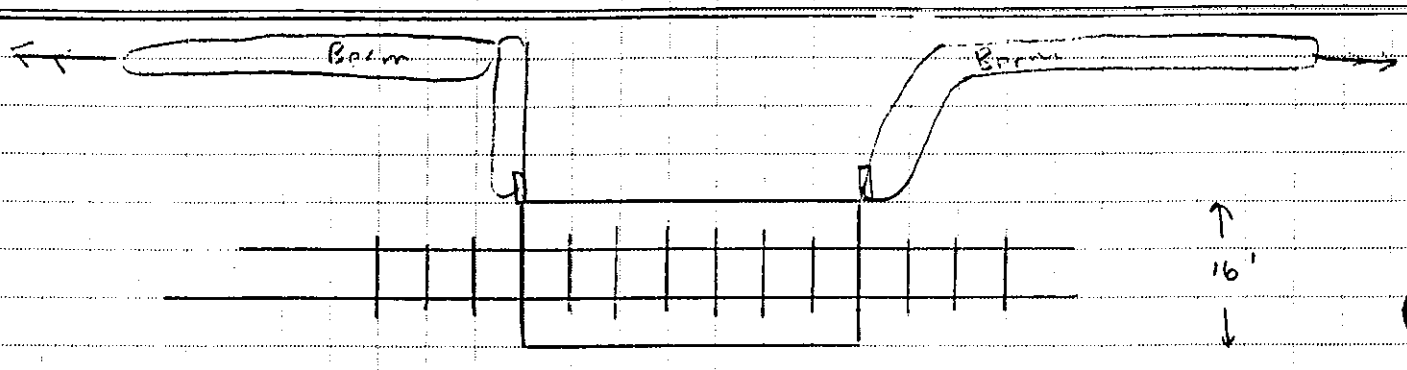
STANLEY

JOB Waterman Wash
SHEET NO. 32 OF 46
CALCULATED BY DWB/TDL DATE 3/19/91
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 32

MP 37.5





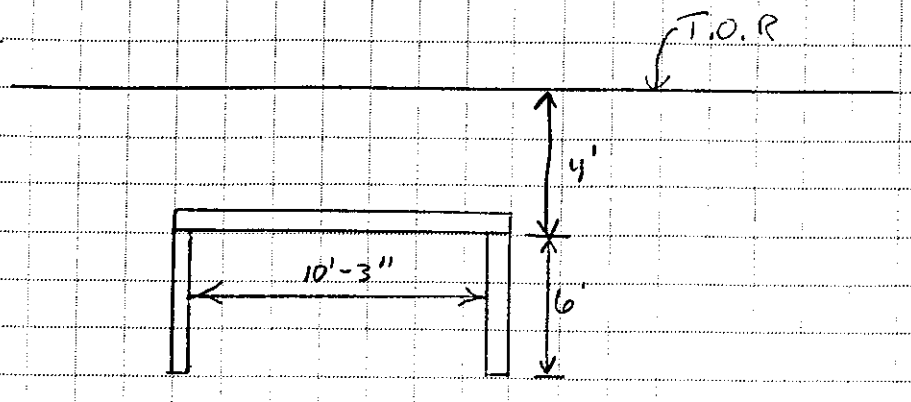
PRODUCT 205-1 Nebs Inc Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

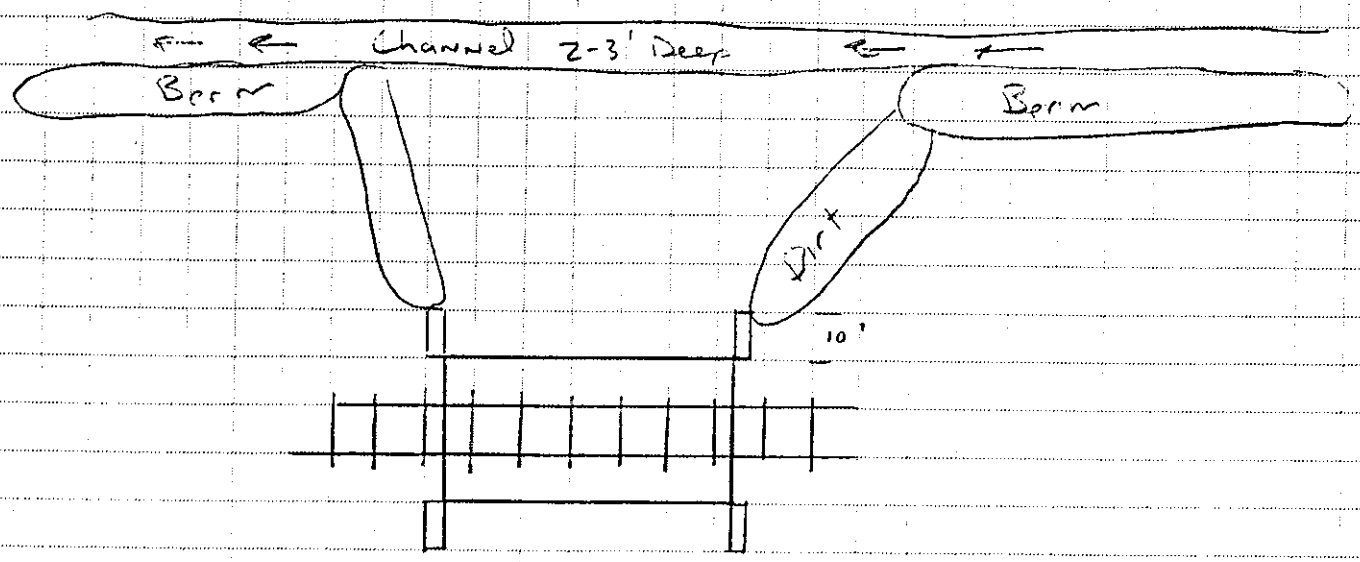
STANLEY

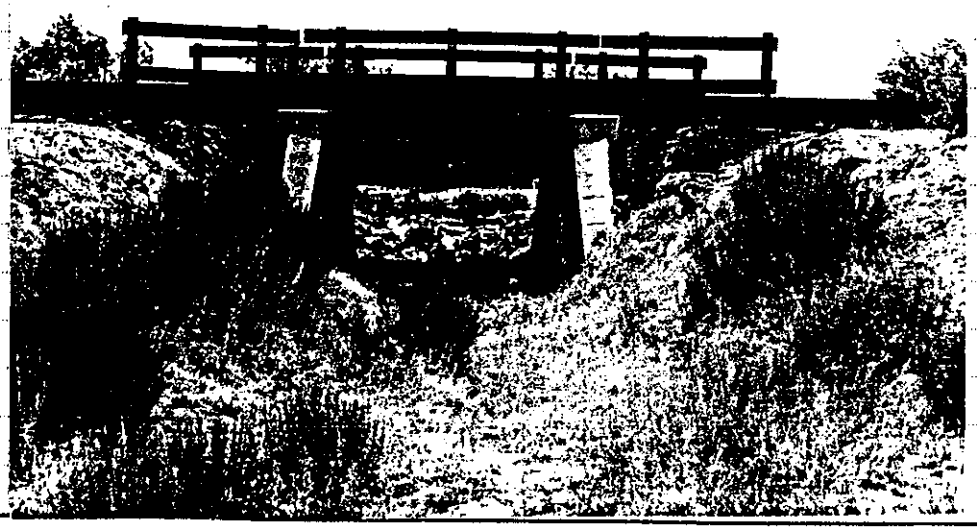
JOB Waterman Wash
SHEET NO. 33 OF 46
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 33

MP 31.0 (-200')





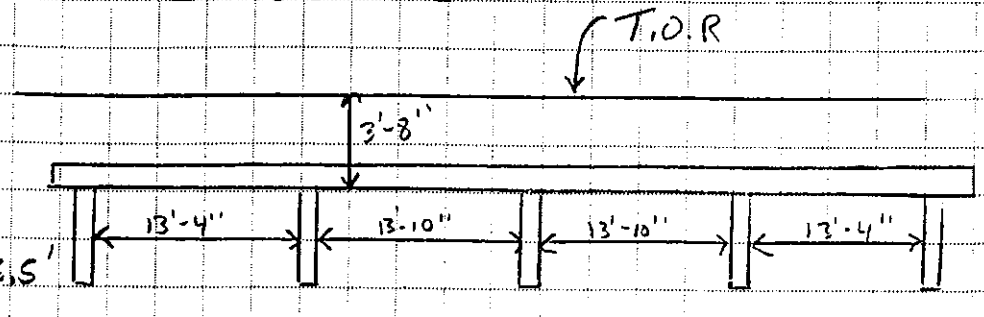


STANLEY

JOB Water [illegible]
SHEET NO. 34 OF 46
CALCULATED BY DWB / TDC DATE [illegible]
CHECKED BY GSR DATE Aug 91
SCALE

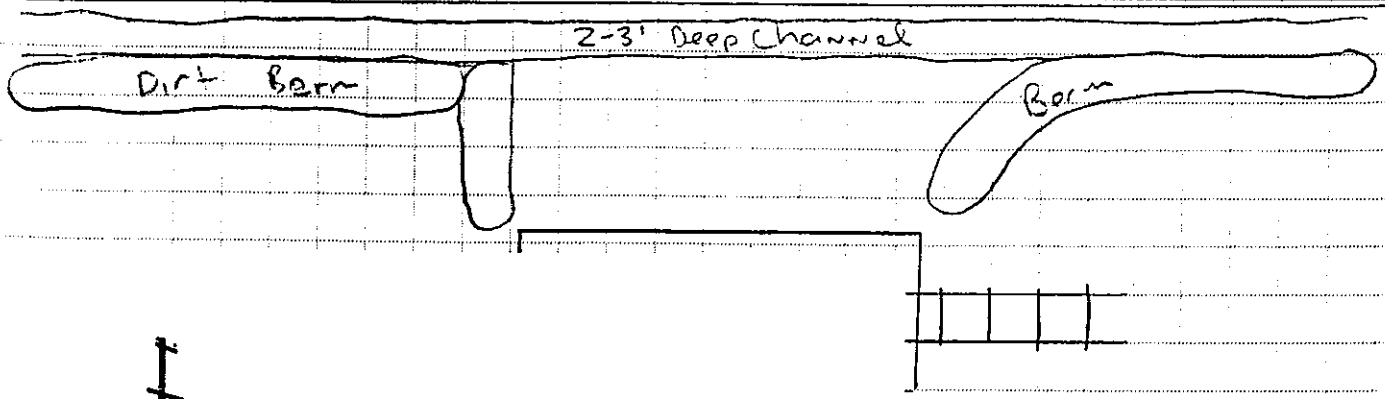
STRUCTURE # 34

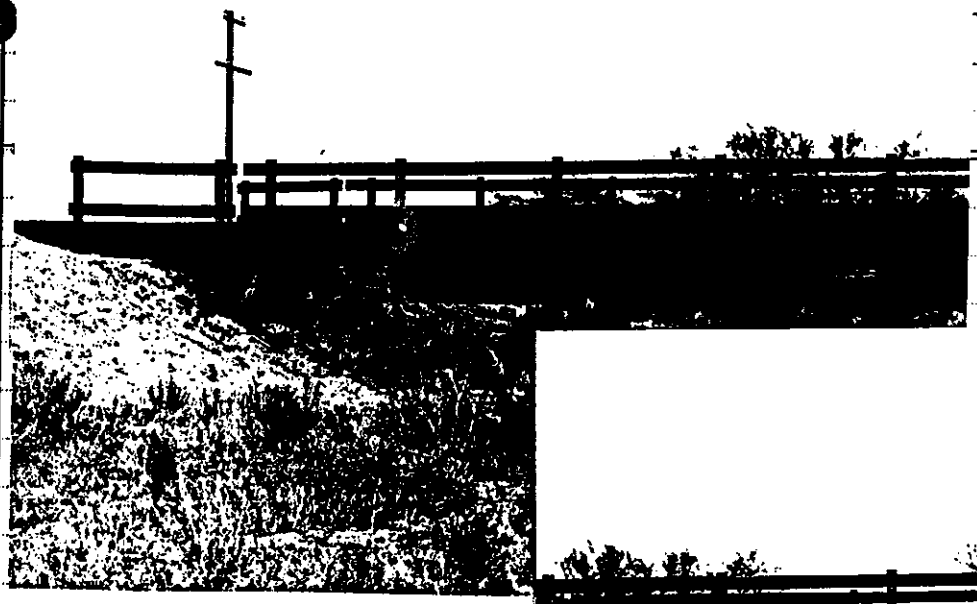
MP 31 (+100')



Timber Structure

Avg Depth = 3.5'





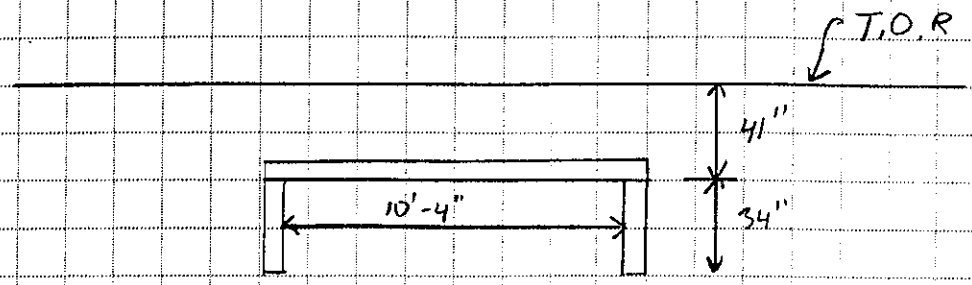
PRODUCT 205-1 NEBS Inc Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

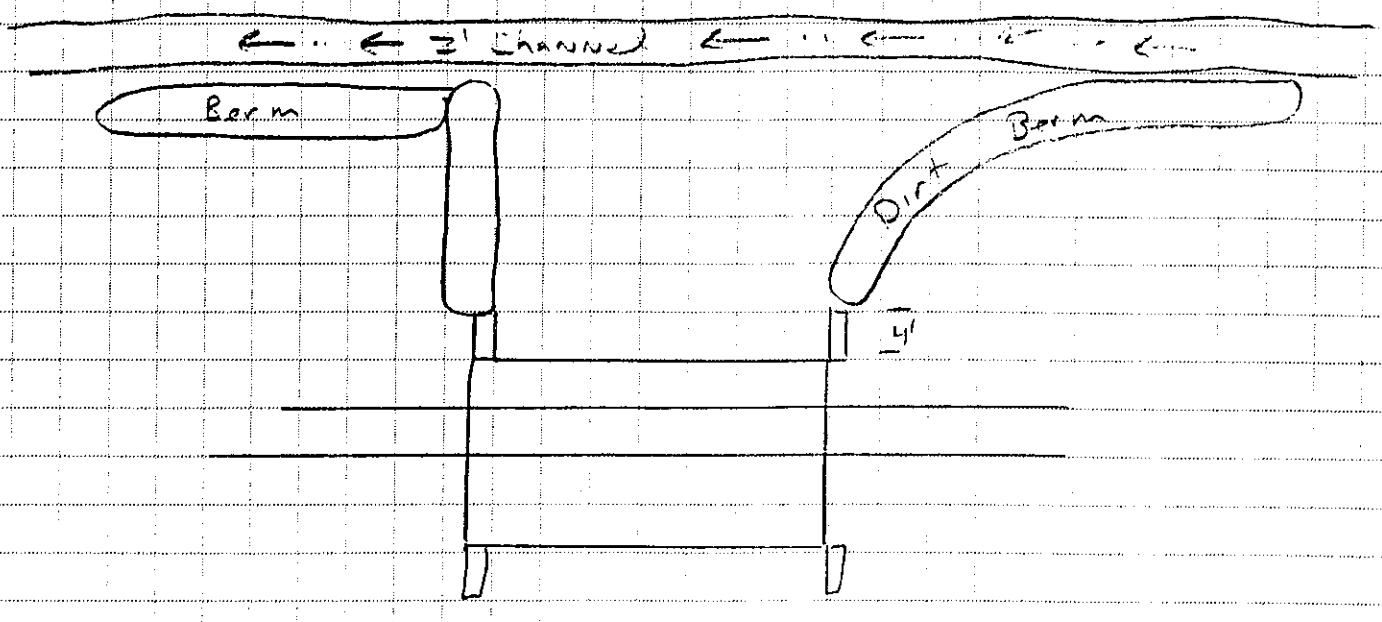
STANLEY

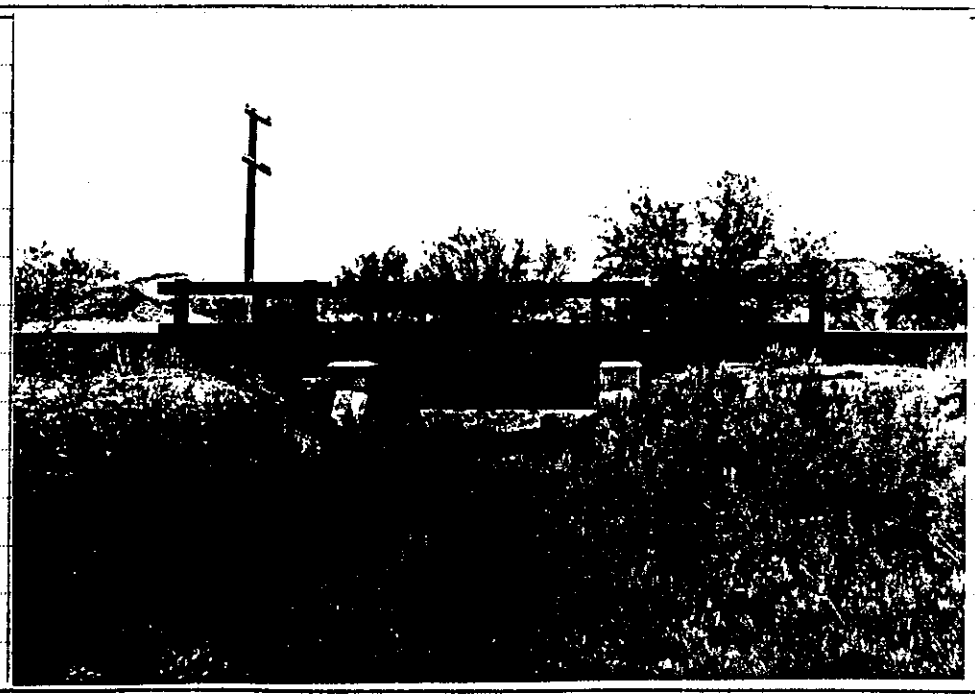
JOB [illegible]
SHEET NO. 35 OF 46
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 35

MP 31.2





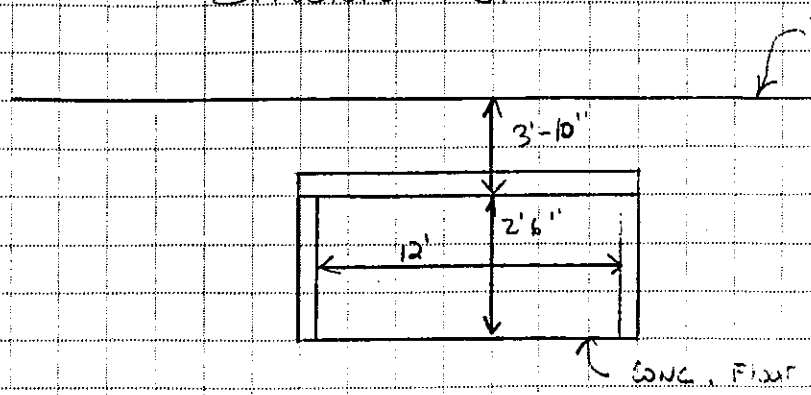


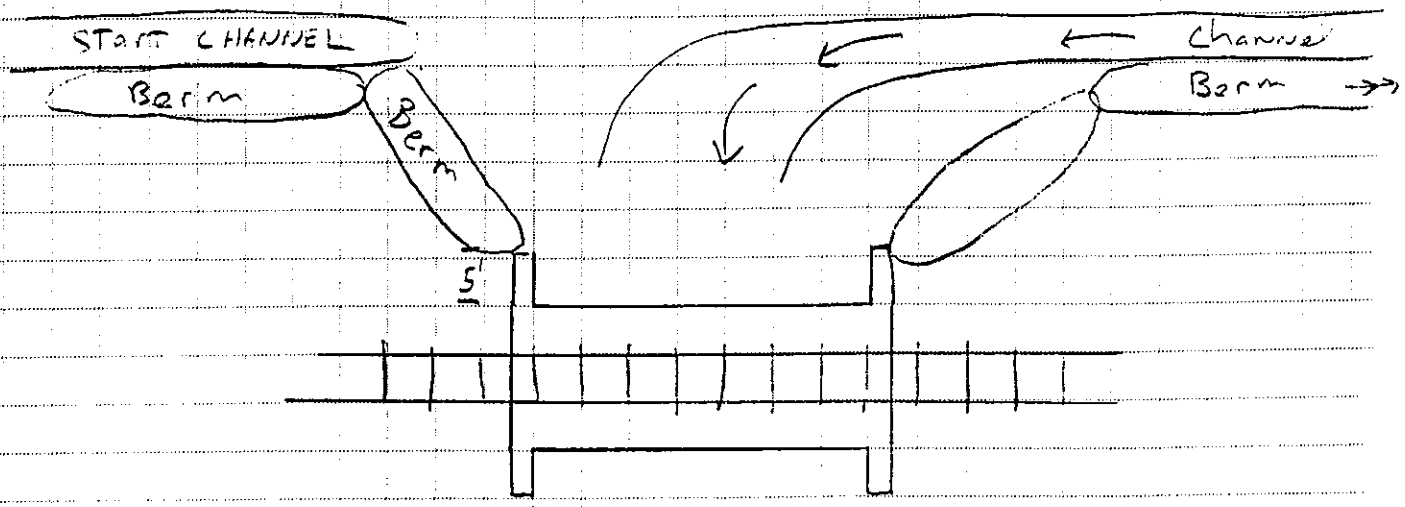
STANLEY

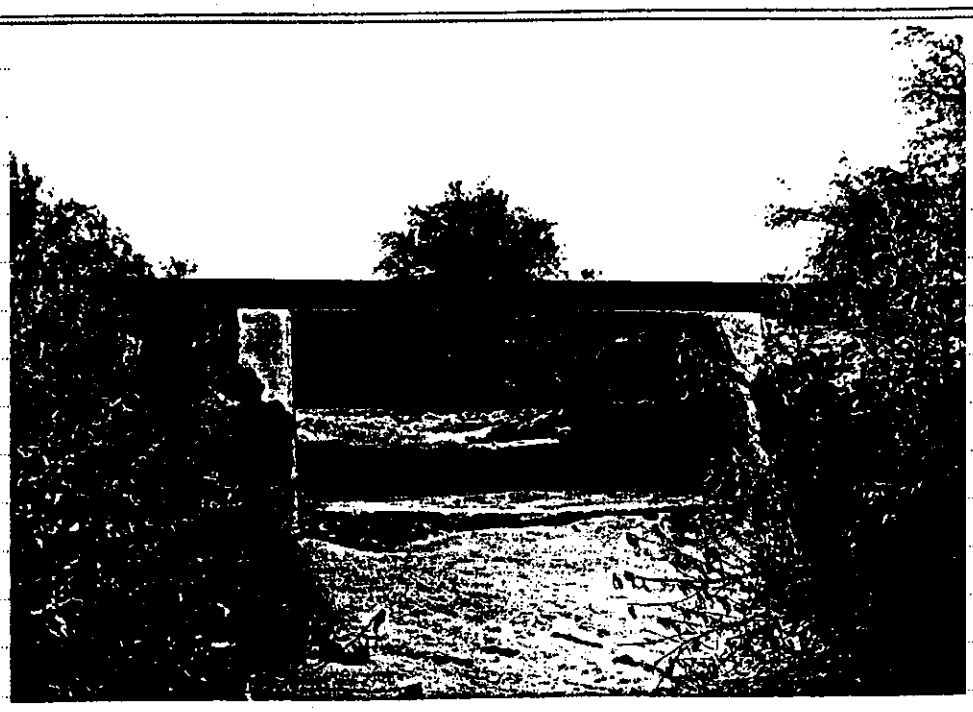
JOB Watermelon Wash
SHEET NO. 36 OF 40
CALCULATED BY DWB/TDX DATE [illegible]
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 36

MP 31.5







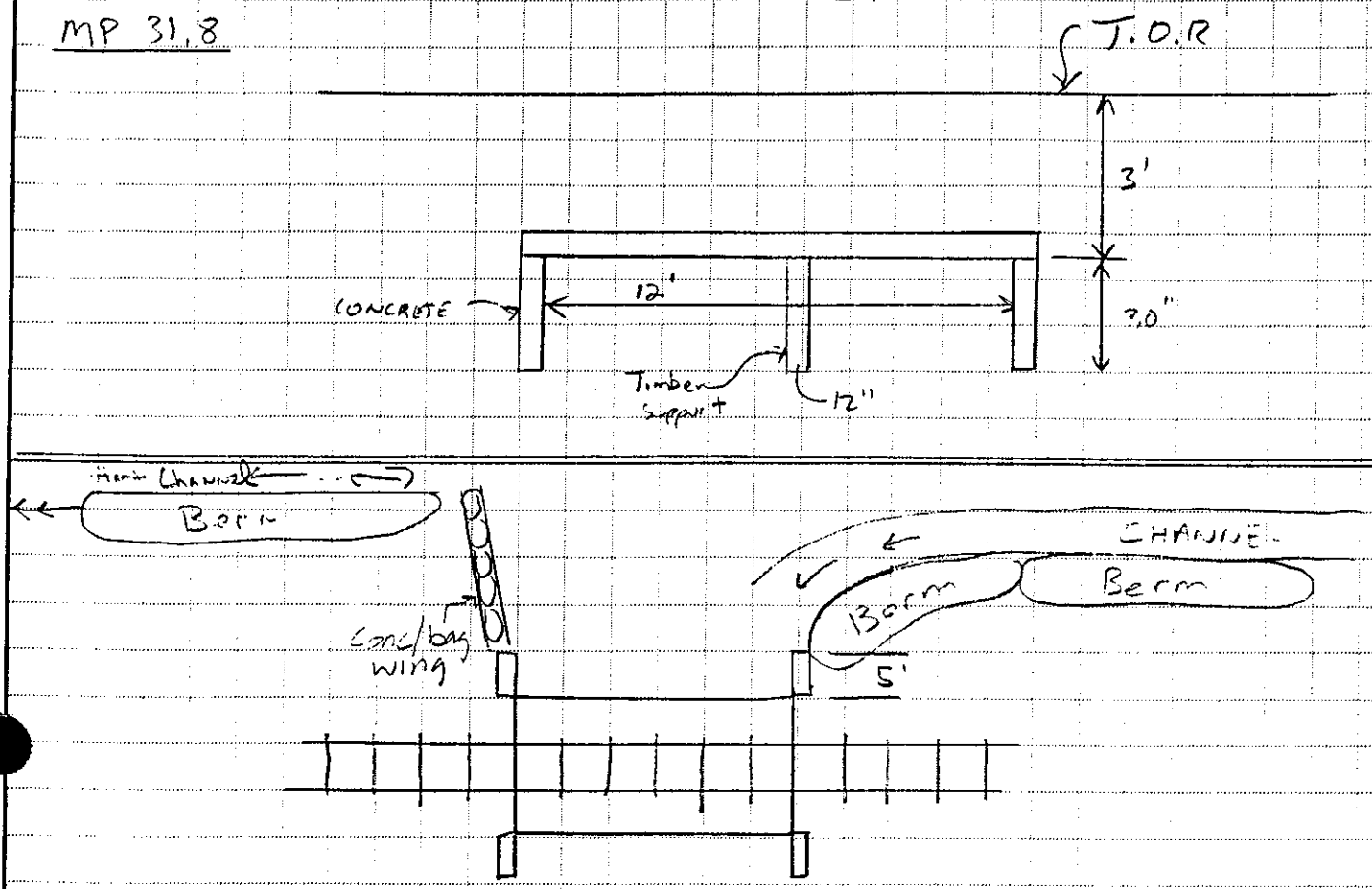
PRODUCT 205-1 NEBS Inc Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

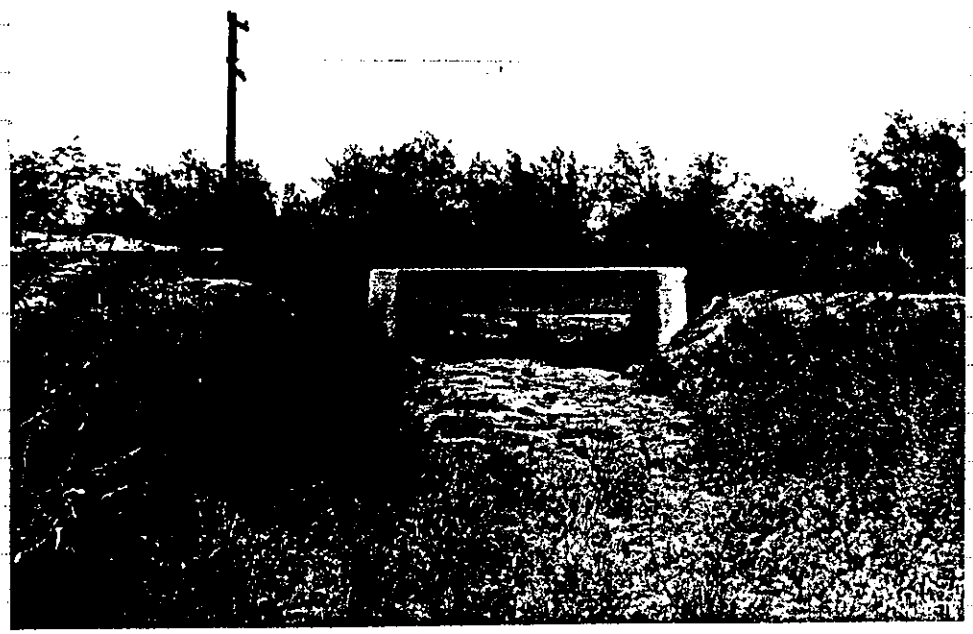
STANLEY

JOB Waterman Wa.
SHEET NO. 37 OF 46
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 37

MP 31.8



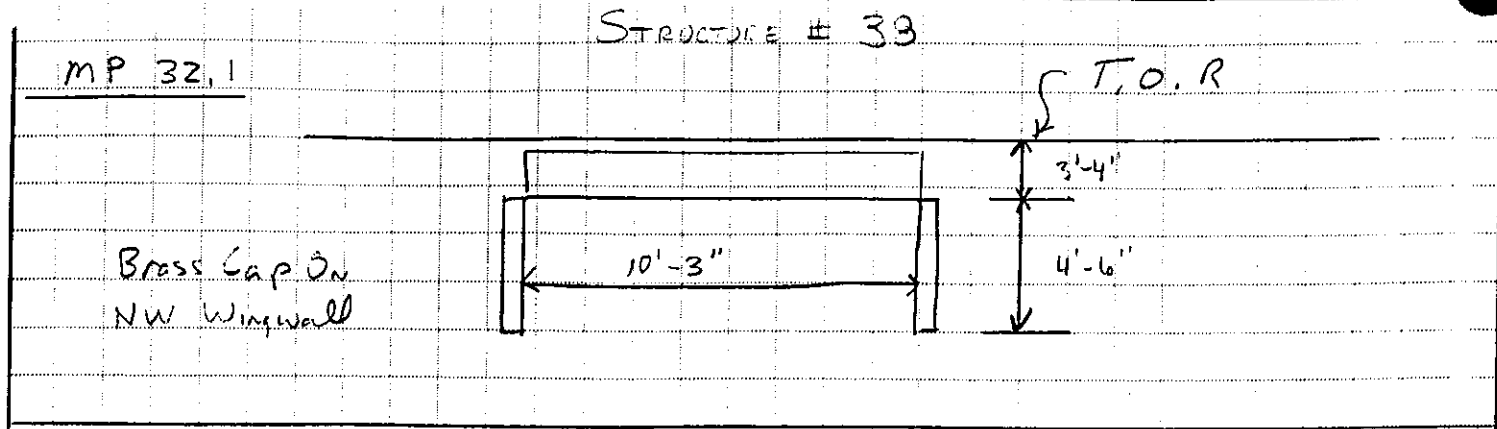


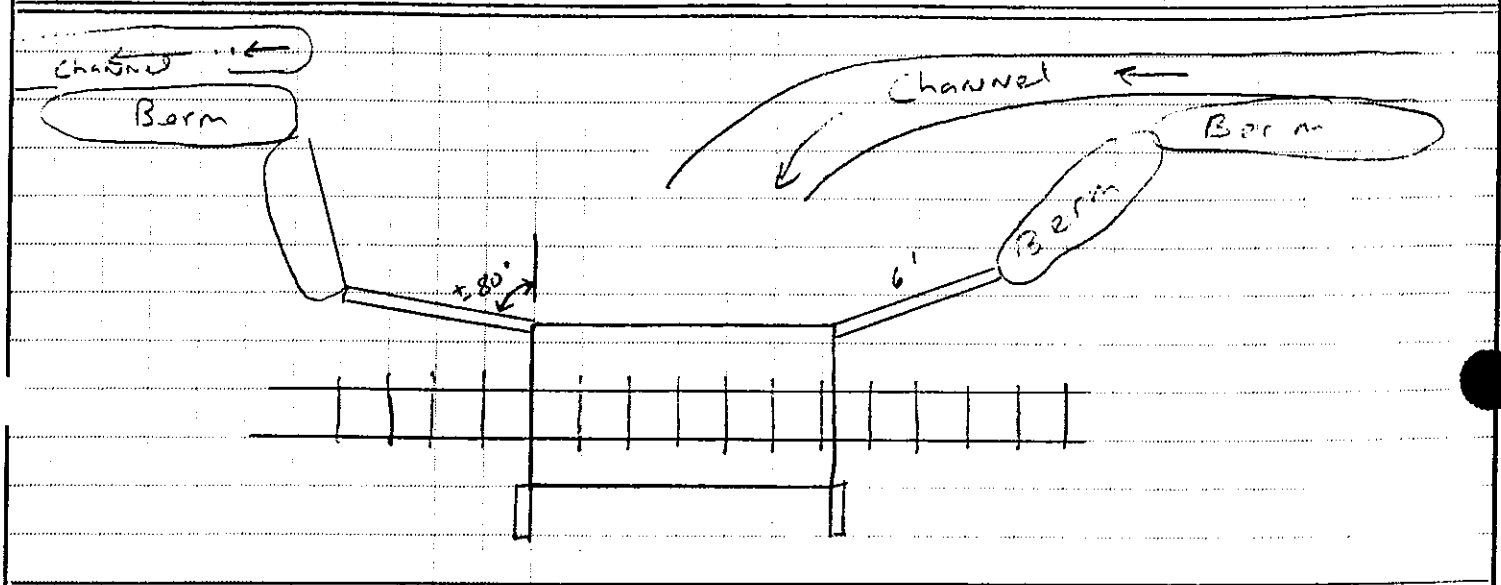
STANLEY

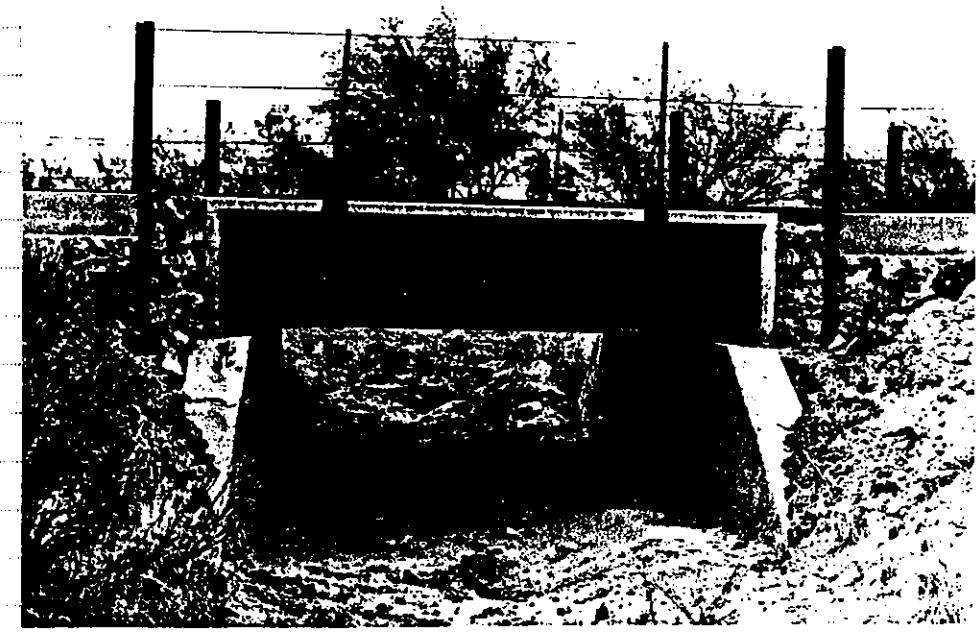
JOB Water [illegible]
SHEET NO. 33 OF 46
CALCULATED BY DWB/TDC DATE 6/19/29
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 33

MP 32.1







JOB

SHEET NO. 39 OF 46

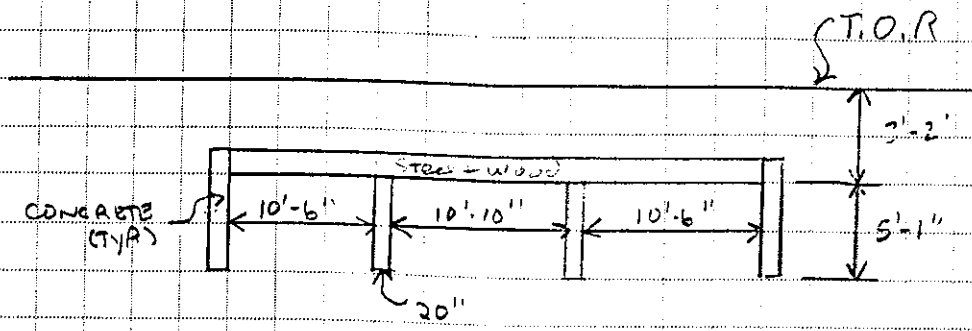
CALCULATED BY DWB / TDC DATE

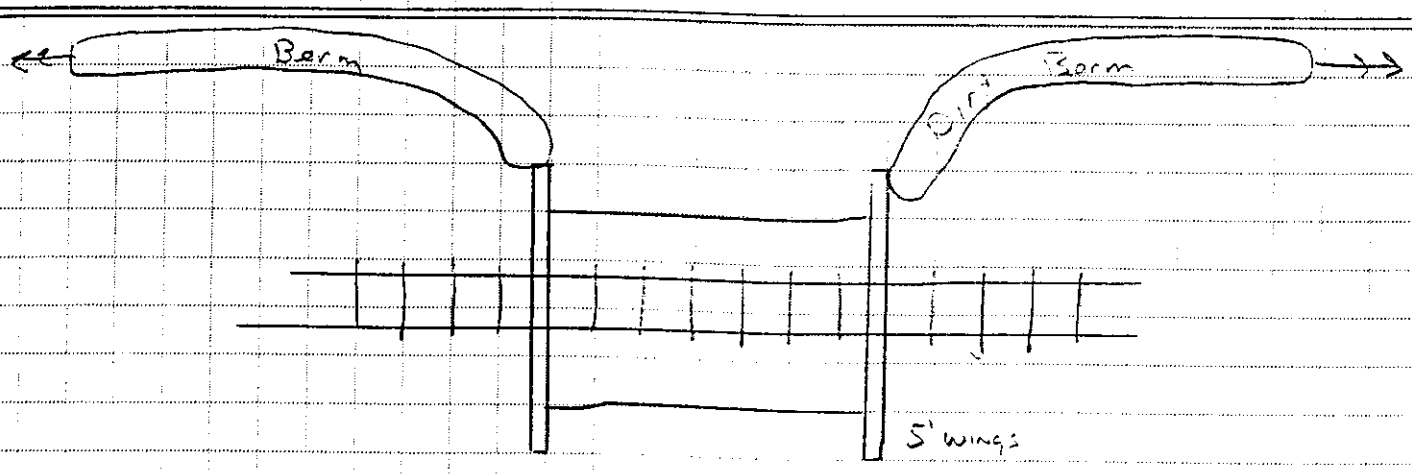
CHECKED BY GSB DATE Aug 91

SCALE

STRUCTURE # 39

MP 32.3





PRODUCT 205-1 NEBS Inc., Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB Waterman [illegible]

SHEET NO. 40 OF [illegible]

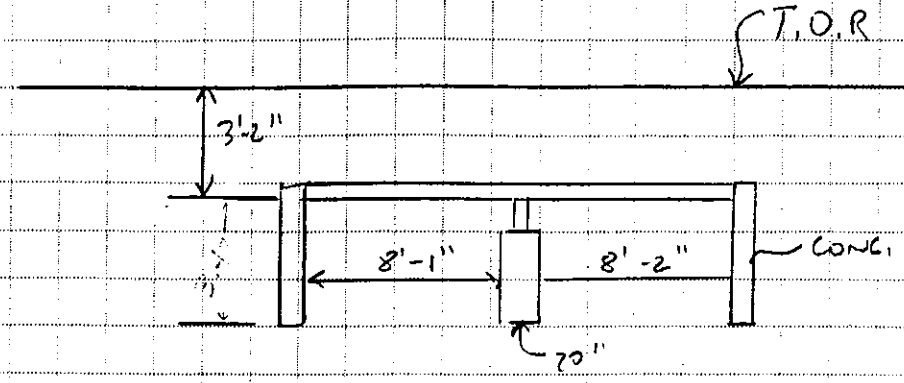
CALCULATED BY DWB/TDC DATE [illegible]

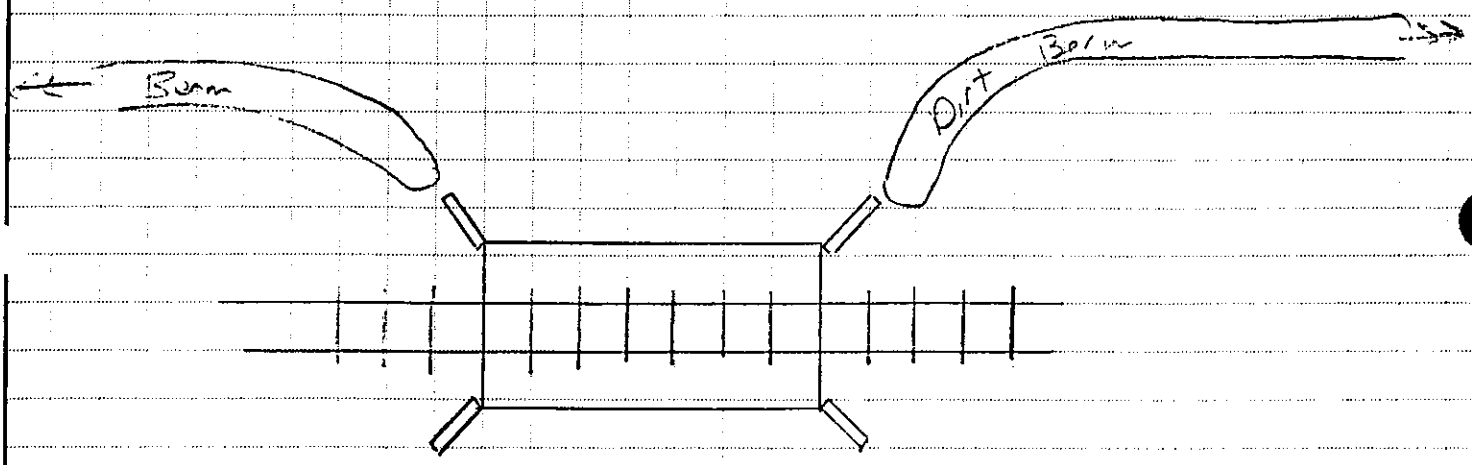
CHECKED BY GSB DATE Aug 91

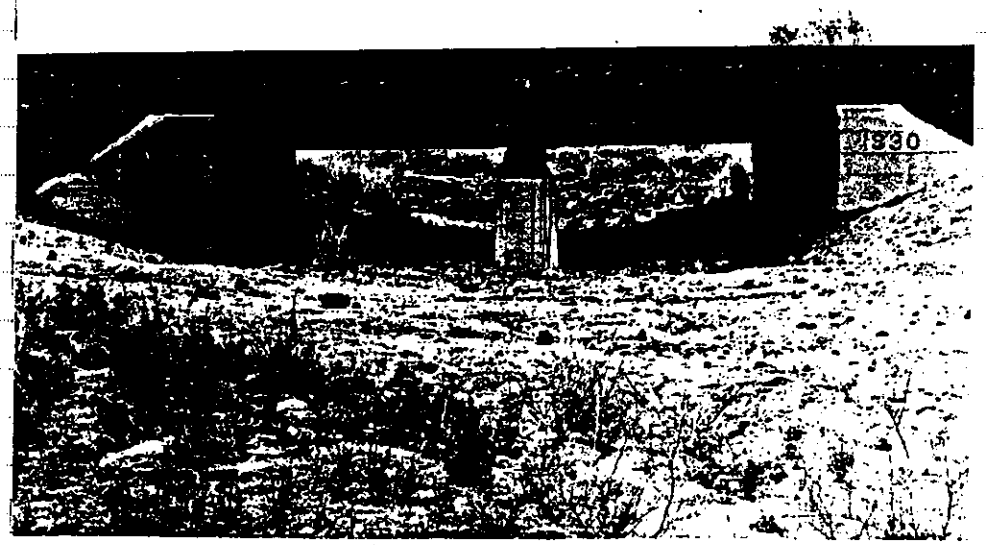
SCALE

STRUCTURE # 40

MP 32.4







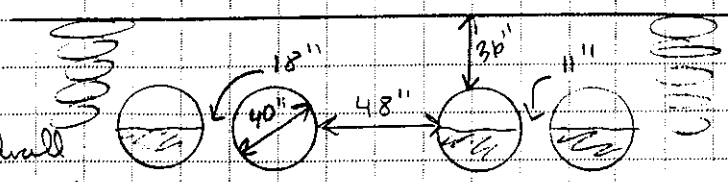
STANLEY

JOB [illegible]
SHEET NO. 41 OF [illegible]
CALCULATED BY DWB/TDC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

STRUCTURE # 41

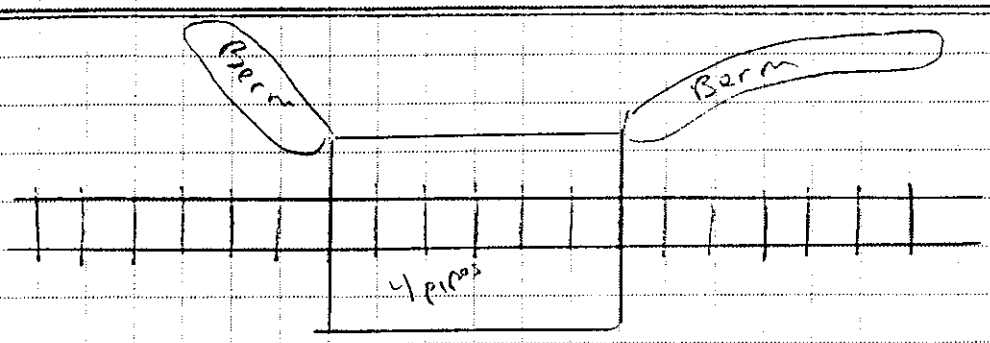
MP 32.7

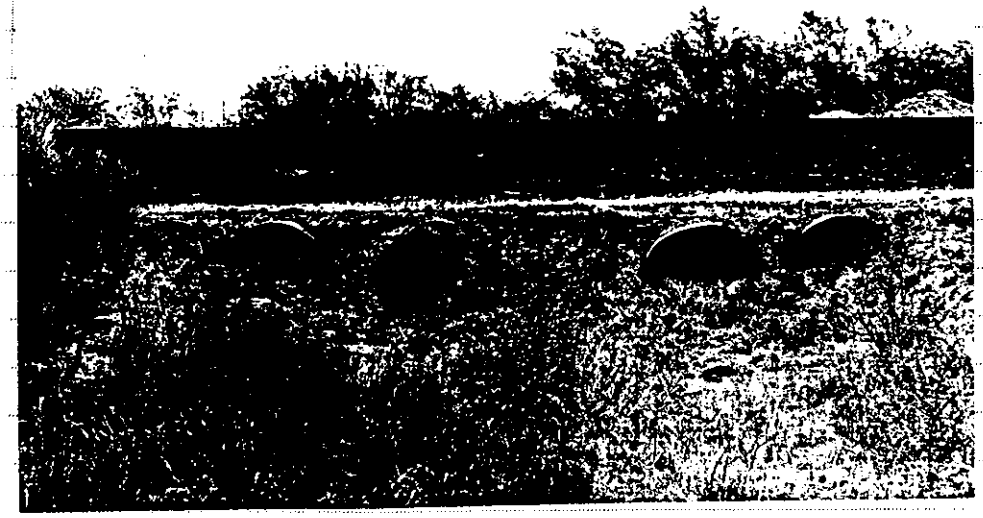
T.O.R



Upstream has conc/tag headwall
No wings, no headwall downstream

3 pipes half silted
4 Steel Pipes
40' Long



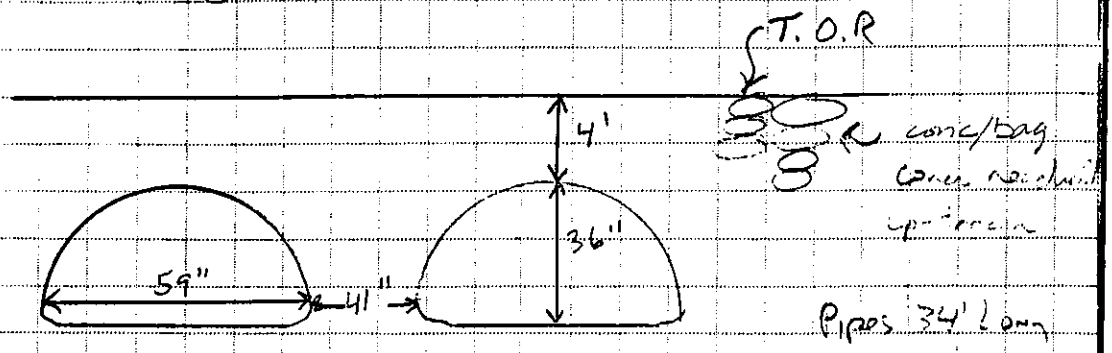


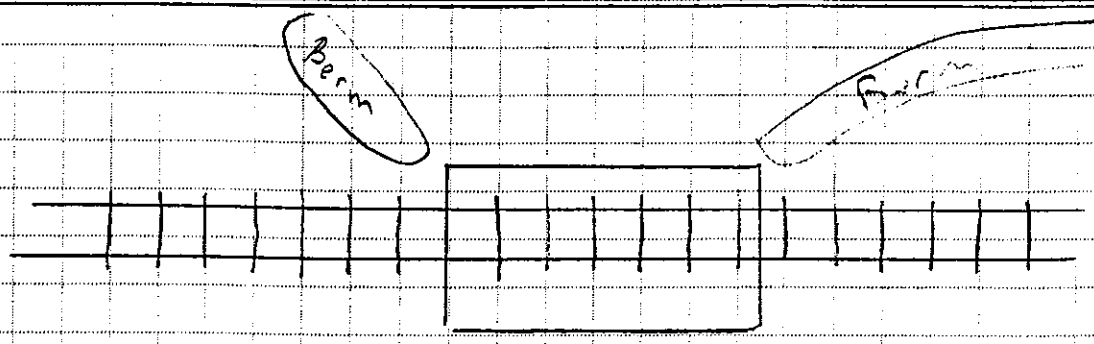
STANLEY

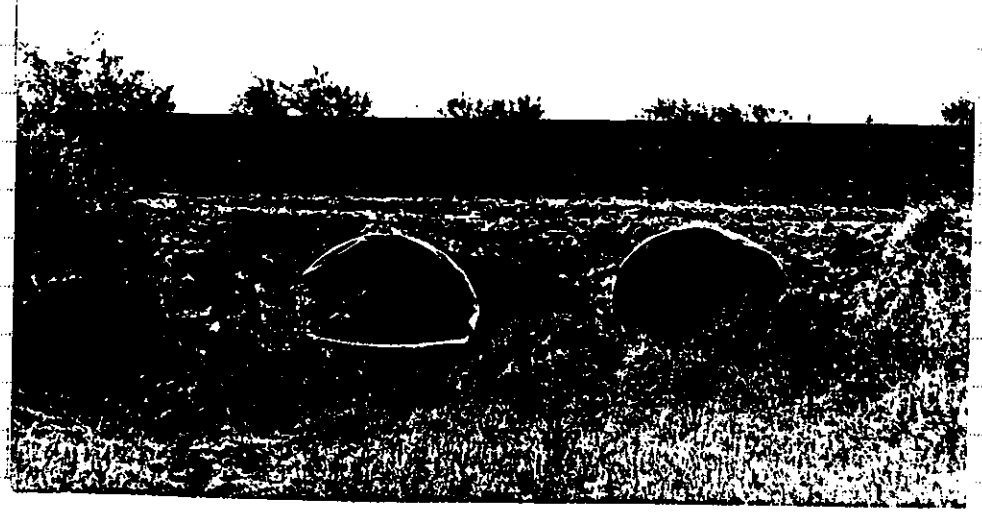
JOB [illegible]
SHEET NO. 42 OF 4[illegible]
CALCULATED BY DWB/TDC DATE
CHECKED BY GJB DATE Aug 91
SCALE

STRUCTURE # 42

MP 33.1







PRODUCT 205-1/NEBS Inc. Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB Waterville Iron

SHEET NO. [illegible] OF [illegible]

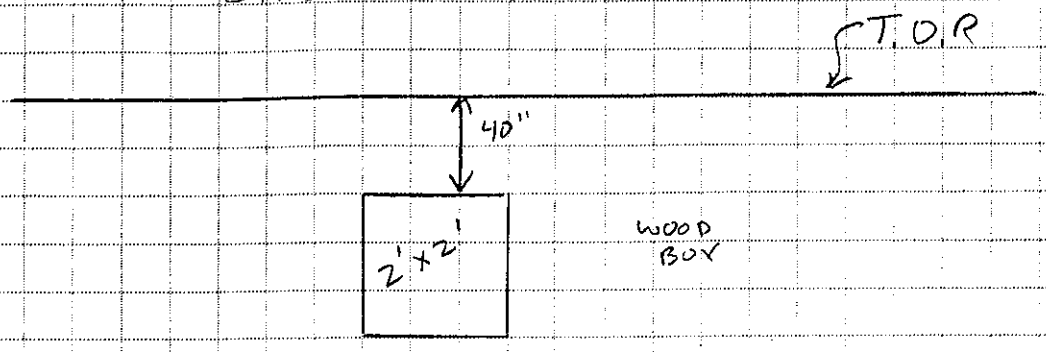
CALCULATED BY DWB/TDC DATE [illegible]

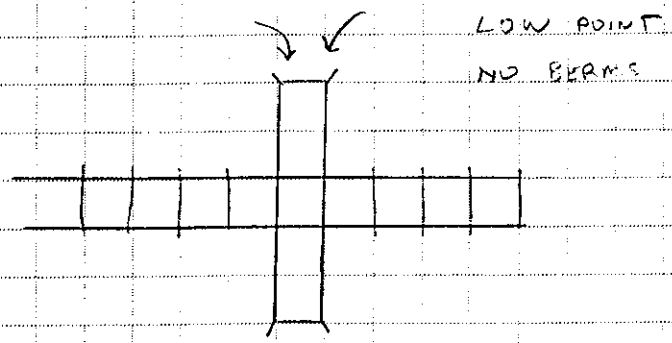
CHECKED BY GSB DATE Aug 91

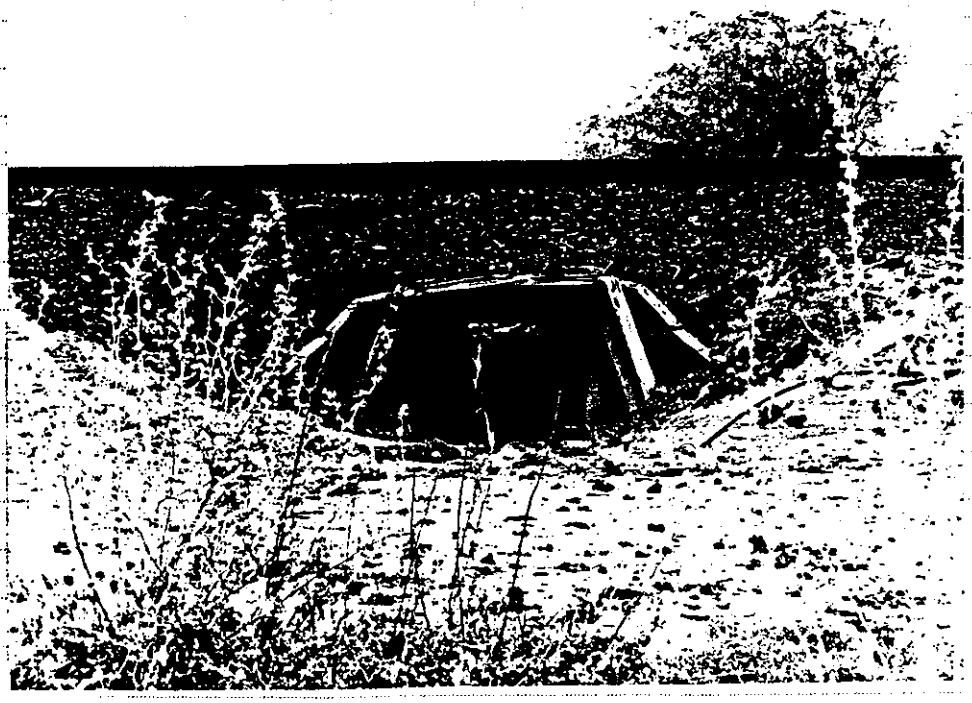
SCALE

STRUCTURE # 43

MP 33.3







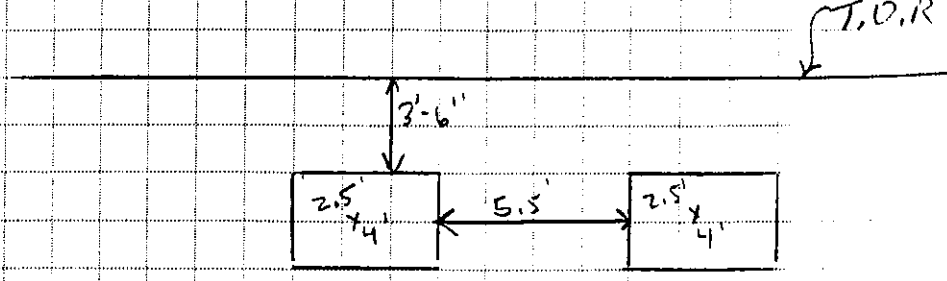
PRODUCT 205-1 NEBS Inc Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB Waterman Wash
SHEET NO. 44 OF 46
CALCULATED BY DWB/TOC DATE 6/19/89
CHECKED BY GSB DATE Aug 91
SCALE

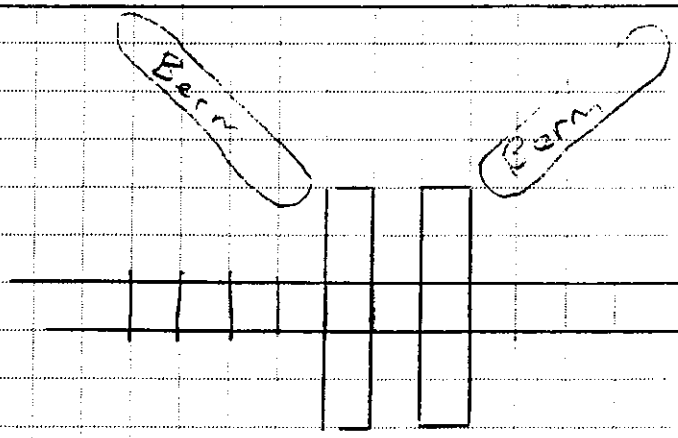
STRUCTURE # 44

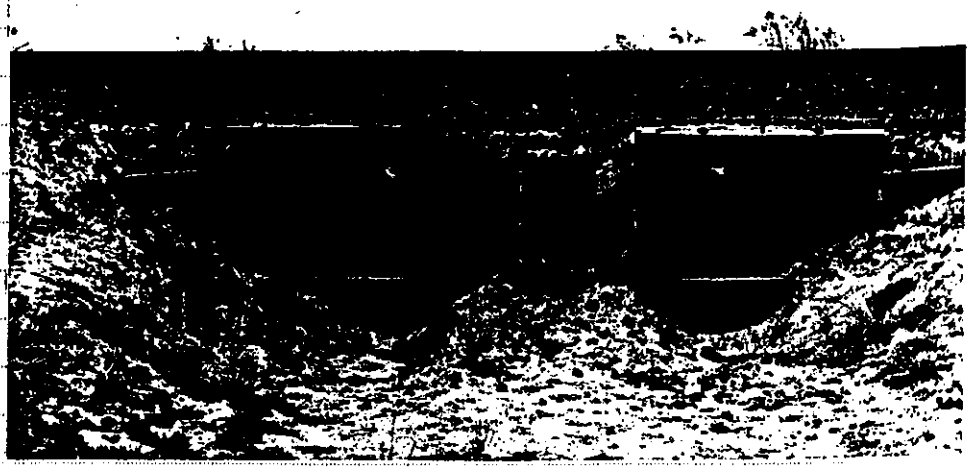
MP 33.4



Double Wood Box

30' Long





PRODUCT 205-1 NEBS Inc. Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB W=TC[illegible] V[illegible]

SHEET NO. [illegible] OF [illegible]

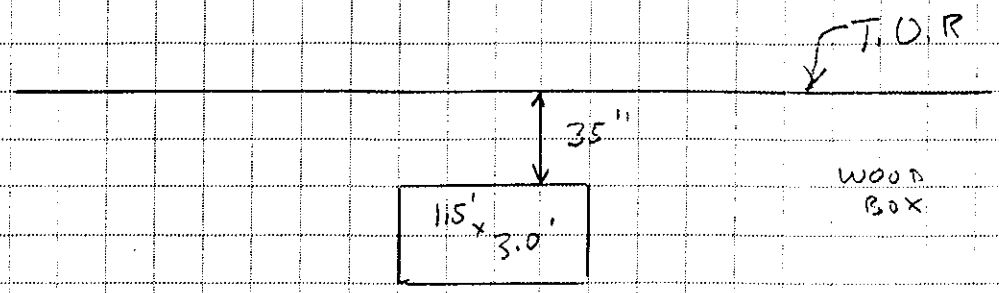
CALCULATED BY DWB / TDC DATE 6/19/89

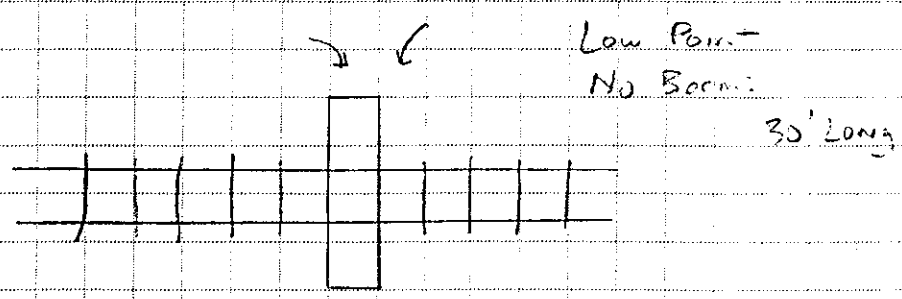
CHECKED BY GSB DATE Aug 91

SCALE

STRUCTURE # 45

MP 33.7





PRODUCT 205-1 NEBS Inc. Groton, Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB Waterman Wall

SHEET NO. 4A OF

CALCULATED BY DWB / TDC DATE

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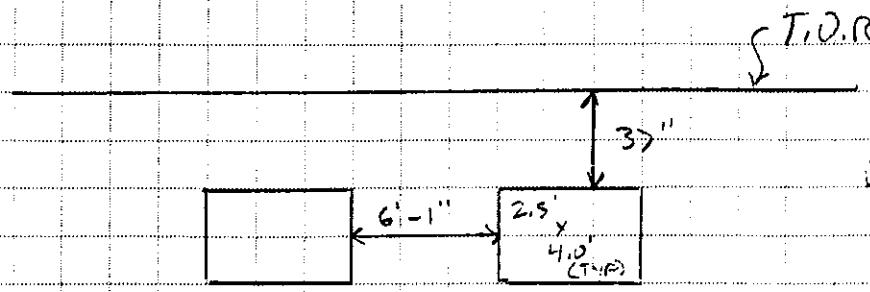
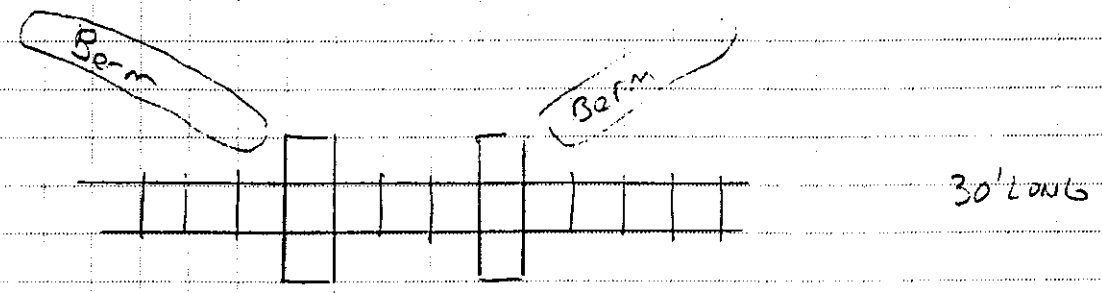
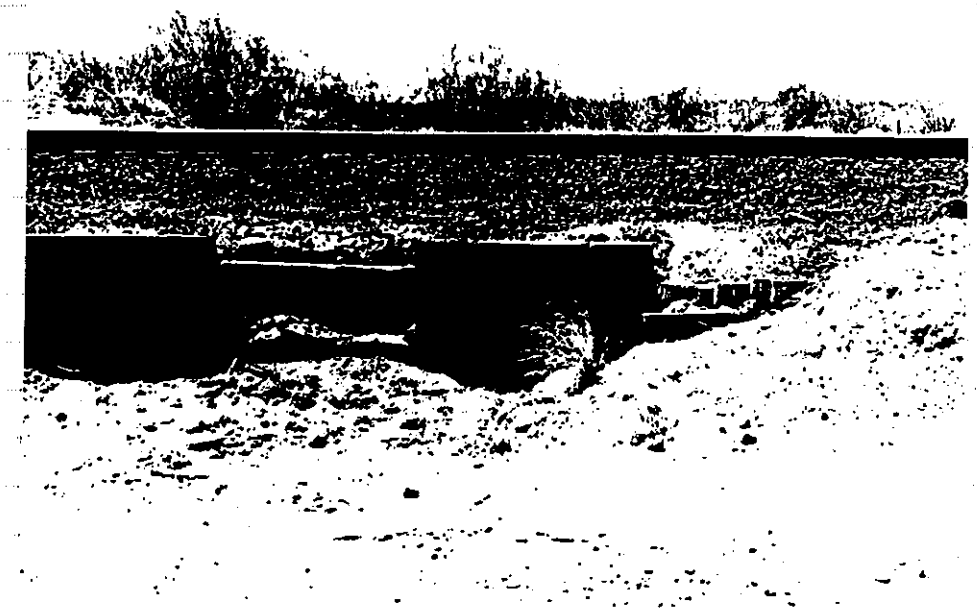
SCALE

STRUCTURE # 46

MP 33.8







PRODUCT 205-1 NEBS Inc. Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

STANLEY

JOB Water

SHEET NO. 1 OF 1

CALCULATED BY DWB / TDL DATE 6/19/89

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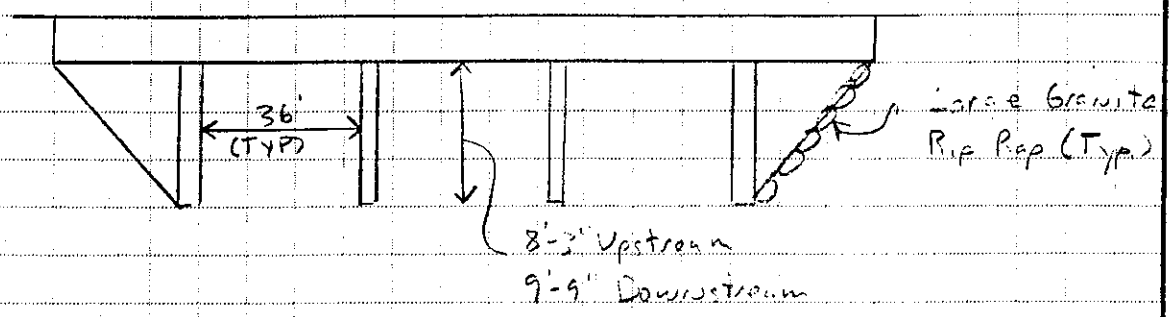
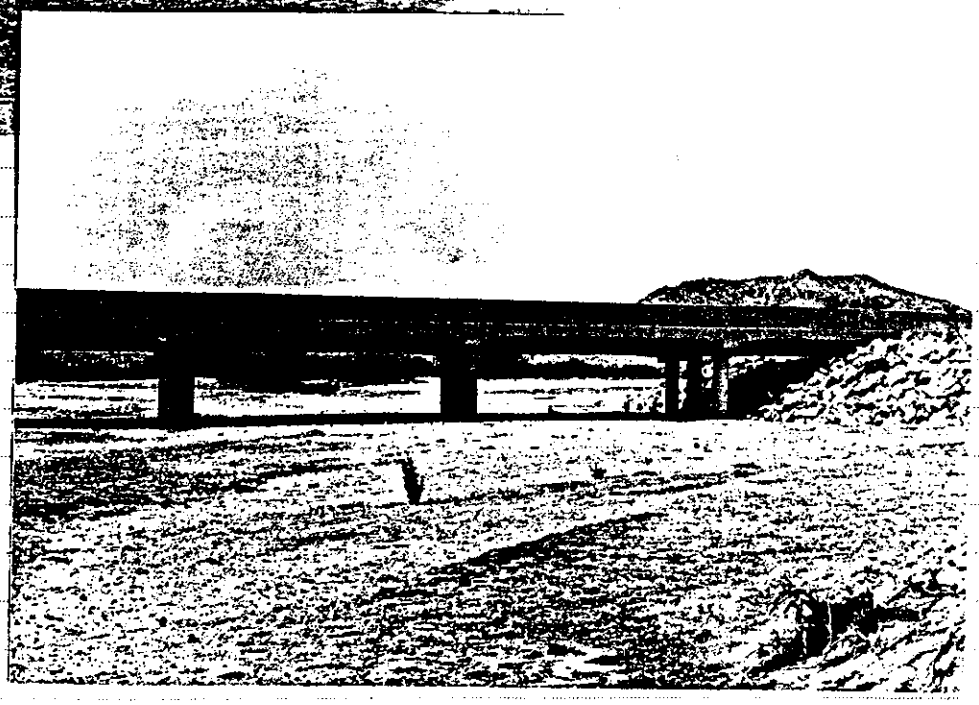
SCALE

MP 25 Highway Bridge





PRODUCT 225-1 NEBS Inc Groton Mass 01471 To Order PHONE TOLL FREE 1-800-225-6380

APPENDIX H

FLOW RATE DATA FOR HEC-2

Computed by B.C.O. Date 8/6/91
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Subject WATERMAN WASH
UPPER BASIN
HEC 2 FLOW INPUT
Sheet No. 1 of 20

DETERMINATION OF FLOW VALUES AT X-SECTIONS FOR HEC 2

1. Q VALUES FOR CONCENTRATION POINTS (CP) BETWEEN REACHES ARE FROM HEC-1 OUTPUT

2. ΔQ = DIFFERENCE IN FLOW VALUES FROM BEGINNING TO END OF REACH

3. LENGTH = SUM OF DISTANCES BETWEEN X-SECTIONS IN THE REACH

4. "% OF REACH LENGTH" = $\frac{\text{LENGTH SUB-TOTAL}}{\text{TOTAL LENGTH}} \times 100$

5. $Q = (\text{DOWNSTREAM FLOW VALUE}) - \frac{(\text{\% OF REACH LENGTH})}{100} \times (\Delta Q)$

6. "Q USED" IS BASED ON Q FROM ADJACENT COLUMN ROUNDED TO THE NEAREST 100 CFS. AND BROKEN IN INCREMENTS NOT TO EXCEED ABOUT A 5% CHANGE WHERE POSSIBLE.

7. THE ABOVE METHODOLOGY APPLIES TO THE EAST PRONG FROM XSECTN 8 UPSTREAM AND THE WEST PRONG FROM XSECTN 130 UPSTREAM. THE TOTAL COMBINED FLOW OF 13,200 CFS WAS USED FROM XSECTN 5 DOWNSTREAM TO XSECTN 1. FLOW RATES FOR CROSS SECTIONS 6 AND 7 ON THE EAST PRONG WERE ADJUSTED PROPORTIONATELY BETWEEN 13,200 CFS @ XSECTN 5 AND 9,000 CFS @ XSECTN 9 IN THE CONFLUENCE AREA. ONLY THE EAST PRONG FORKING OF XSECTNS 6 AND 7 WAS CONSIDERED HYDRAULICALLY. WEST PRONG STRT NG WATER SURFACE @ XSECTN 130 IS BASED ON THE CALCULATED WATER SURFACE @ EAST PRONG XSECTN 8.

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Subject WATERMAN WASH
UPPER BASIN
EAST PRONG

Sheet No. 2 of 20

REACH # 17 LENGTH = 7960'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 606 Q=8985	8	Ø	Ø	8985	9000
		485			
	9	485	6.1	8870	"
		490			
	10	975	12.2	8753	"
		460			
	11	1435	18.0	8645	8600
		495			
	12	1930	24.2	8526	"
		500			
	13	2430	30.5	8407	"
		450			
	14	2880	36.2	8300	"
		510			
↑	15	3390	42.6	8178	8200
ΔQ=1894		500			
↓	16	3890	48.9	8059	"
		500			
	17	4390	55.2	7940	"
		545			
	18	4935	62.0	7811	7800
		500			
	19	5435	68.3	7692	"
		500			
	20	5935	74.6	7573	7600
		520			
	21	6455	81.1	7449	"
		505			
	22	6960	87.4	7329	7300
		500			
	23	7460	93.7	7210	"
Q=7091		500			
CP 605	24	7960	100	7091	7300

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Subject WATERMAN WASH
UPPER BASIN
EAST PRONG
Sheet No. 3 of 20

REACH #16 LENGTH = 8510

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 605 Q = 7091	24	Ø	Ø	7091	7300
		500			
	25	500	5.9	7044	"
		500			
	26	1000	11.8	6997	"
		490			
	27	1490	17.5	6951	7000
		485			
	28	1975	23.2	6905	"
		540			
	29	2515	29.6	6854	"
		520			
	30	3035	35.7	6305	"
		475			
ΔQ = 802	31	3510	41.2	6760	"
		515			
	32	4025	47.3	6712	"
		500			
	33	4525	53.2	6665	6700
		500			
	34	5025	59.0	6617	"
		490			
	35	5515	64.8	6571	"
		500			
	36	6015	70.7	6524	"
		500			
	37	6515	76.6	6477	"
		480			
	38	6995	82.2	6432	"
		500			
	39	7495	88.1	6385	6400
		500			
	40	7995	93.9	6338	6400

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UPPER BASIN
EAST PRONG
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REACH # 16

X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
	515			
CP604 41	8510	100	6289	6400
Q: 6289				

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UPPER BASIN
EAST PRONG
Sheet No. 5 of 20

REACH # 15 LENGTH = 10495'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP604	41	Ø	Ø	6289	6400
Q=6289		495			
	42	495	4.7	6184	6200
		500			
	43	995	9.5	6077	"
		505			
	44	1500	14.3	5970	6000
		485			
	45	1985	18.9	5868	"
		510			
	46	2495	23.8	5759	5800
		500			
	47	2995	28.5	5654	5700
		495			
↑	48	3490	33.3	5547	5600
ΔQ = 2238		500			
↓	49	3990	38.0	5442	5400
		505			
	50	4495	42.8	5335	"
		500			
	51	4995	47.6	5228	5200
		1005			
	53	6000	57.2	5015	5000
		500			
	54	6500	61.9	4910	"
		495			
	55	6995	66.7	4803	4800
		510			
	56	7505	71.5	4696	"
		505			
	57	8010	76.3	4589	4600
		490			
	58	8500	81.0	4484	4600

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EAST PRONG
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REACH # 15

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
		495			
	59	8995	85.7	4380	4400
		500			
	60	9495	90.5	4273	"
		500			
	61	9995	95.2	4168	4200
Q=4061		500			
CP 603	62	10495	100.0	4061	4200

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REACH # 14 LENGTH = 11520'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 603 Q = 4061	62	Ø	Ø	4061	4200
		500			
	63	500	4.3	4015	4000
		500			
	64	1000	8.7	3967	"
		500			
	65	1500	13.0	3920	"
		500			
	66	2000	17.4	3873	"
		495			
	67	2495	21.7	3826	3800
		500			
↑	68	2995	26.0	3780	"
ΔQ = 1081		500			
↓	69	3495	30.3	3733	"
		500			
	70	3995	34.7	3686	3700
		500			
	71	4495	39.0	3639	"
		500			
	72	4995	43.4	3592	3600
		500			
	73	5495	47.7	3545	"
		505			
	74	6000	52.1	3498	"
		490			
	75	6490	56.3	3452	3500
		490			
	76	6980	60.6	3406	"
		510			
	77	7490	65.0	3358	3400
		515			
	78	8005	69.5	3310	3400

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REACH # 14

	X-SECTION	LENGTH		% OF REACH LENGTH	Q	Q USED
		510				
	79		8515	73.9	3262	3300
		495				
	80		9010	78.2	3216	"
		505				
	81		9515	82.6	3168	3200
		505				
	82		10020	87.0	3121	"
		505				
	83		10525	91.4	3073	3100
		495				
	84		11020	95.7	3026	"
Q = 2980		500				
CP 602	85		11520	100.0	2980	3100

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UPPER BASIN
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CP 602 - CP 601 LENGTH = 3000'

	X-SECTION	LENGTH		% OF REACH LENGTH	Q	Q USED
CP 602	85		Ø	Ø	2980	3100
Q = 2980		500				
	86		500	16.7	2953	3000
		505				
	87		1005	33.5	2926	"
↑		505				
ΔQ = 161	88		1510	50.3	2899	"
↓		490				
	89		2000	66.7	2873	2900
		500				
	90		2500	83.3	2846	"
Q = 2819		500				
CP 601	91		3000	100.0	2819	2900

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CP 601 - CP 600 LENGTH = 5505'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 601	91	Ø		2819	2900
Q= 2819		500			
	92	500	9.0827	2801.0	"
		500			
	93	1000	18.1653	2783.0	"
		500			
	94	1500	27.2480	2765.0	2800
		500			
	95	2000	36.3306	2747.1	"
		505			
↑	96	2505	45.5041	2728.9	"
ΔQ= 198		495			
↓	97	3000	54.4959	2711.1	"
		500			
	98	3500	63.5786	2693.1	"
		510			
	99	4010	72.8429	2674.8	"
		505			
	100	4515	82.0163	2656.6	2700
		490			
	101	5005	90.9173	2639.0	"
Q= 2621		500			
CP 600	102	5505	100.0	2621.0	2700

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CP 600 - LIMIT OF STUDY LENGTH

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 600 Q= 2621	102			2749	2700
	103			"	"
	104			"	
	105			"	
	106			"	
	107			"	"
	108			"	
	109			"	
	110			"	
	111			"	
	112			"	"
	113			"	"
	114			"	"
	115			"	"
	116			"	"
	117			"	"
LIMIT	118			"	"
OF STUDY	119			"	2700

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Subject WATERMAN WASH
UPPER BASIN
WEST PRONG

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REACH # 8 LENGTH = 7770'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 505	130	Ø	Ø	4838	4800
Q = 4838		510			
	131	510	6.6	4801	"
		490			
	132	1000	12.9	4766	"
		490			
	133	1490	19.2	4731	"
		500			
	134	1990	25.6	4696	"
		500			
	135	2490	32.0	4660	"
		900			
↑	137	3390	43.6	4596	"
ΔQ = 556		390			
↓	138	3780	48.6	4568	4600
		490			
	139	4270	55.0	4532	"
		500			
	140	4770	61.4	4497	"
		1000			
	142	5770	74.3	4425	"
		500			
	143	6270	80.7	4389	4400
		500			
	144	6770	87.1	4354	"
Q = 4282		1000			
CP 504	146	7770	100.0	4282	4400

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REACH # 7 LENGTH = 18980'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 504	146	Ø	Ø	4282	4400
Q = 4282		500			
	147	500	5.6	4258	"
		500			
	148	1000	11.1	4235	"
		500			
	149	1500	16.7	4211	"
		500			
	150	2000	22.3	4187	4200
		500			
	151	2500	27.8	4165	"
		500			
	152	3000	33.4	4140	"
		490			
↑	153	3490	38.9	4116	"
ΔQ = 426		500			
↓	154	3990	44.4	4093	"
		500			
	155	4490	50.0	4069	"
		500			
	156	4990	55.6	4045	"
		500			
	157	5490	61.1	4022	"
		500			
	158	5990	66.7	3998	4000
		500			
	159	6490	72.3	3974	"
		490			
	160	6980	77.7	3951	"
		500			
	161	7480	83.3	3927	"
		500			
	162	7980	88.9	3903	4000

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REACH # 7

	X-SECTION	LENGTH		% OF REACH LENGTH	Q	Q USED
		500				
	163		8480	94.4	3880	4000
Q=3856		500				
CP 503	164		8980	100.0	3856	4000

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REACH # 6 LENGTH = 16825'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 503	164	Ø	Ø	3856	4000
Q = 3856		500			
	165	500	3.0	3851	"
		500			
	166	1000	5.9	3847	"
		510			
	167	1510	9.0	3842	"
		450			
	168	1960	11.6	3838	"
		420			
	169	2380	14.1	3834	"
		440			
	170	2820	16.8	3830	"
		500			
↑	171	3320	19.7	3826	"
ΔQ = 154		500			
↓	172	3820	22.7	3821	"
		500			
	173	4320	25.7	3816	"
		500			
	174	4820	28.6	3812	"
		530			
	175	5350	31.8	3807	"
		430			
	176	5780	34.4	3803	3800
		490			
	177	6270	37.3	3799	"
		450			
	178	6720	40.0	3794	"
		500			
	179	7220	42.9	3790	"
		500			
	180	7720	45.9	3785	3800

Computed by R.C.O. Date 8/5/91
Checked by CSB Date Aug. 91
Reviewed by Date
Approved by Date

Job No. 10512 Page No.
Subject WATERMAN WASH
UPPER BASIN
WEST PRONG
Sheet No. 16 of 20

REACH # 6

X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
	490			
181	8210	48.8	3781	3800
	490			
182	8700	51.7	3776	"
	570			
183	9270	55.1	3771	"
	510			
184	9780	58.1	3767	"
	485			
185	10265	61.0	3762	"
	510			
186	10775	64.0	3757	"
	510			
187	11285	67.1	3753	"
	500			
188	11785	70.0	3748	"
	550			
189	12335	73.3	3743	"
	470			
190	12805	76.1	3739	"
	500			
191	13305	79.1	3734	"
	500			
192	13805	82.1	3730	"
	490			
193	14295	85.0	3725	"
	500			
194	14795	88.0	3720	"
	500			
195	15295	91.0	3716	"
	500			
196	15795	93.9	3711	"
	530			
197	16325	97.0	3707	3800

Computed by B.C.O. Date 8/5/91
Checked by OSB Date Aug. 91
Reviewed by Date
Approved by Date

Job No. 10512 Page No.
Subject WATERMAN WASH
UPPER BASIN
WEST PRONG
Sheet No. 17 of 20

REACH # 6

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
Q=3702		500			
CP 502	198	16825	1000	3702	3800

Computed by: B.C.O. Date: 8/5/91
Checked by: CRB Date: Aug 91
Reviewed by: Date:
Approved by: Date:

Job No. 10512 Page No.
Subject: WATERMAN WASH
UPPER BASIN
WEST PRONG
Sheet No. 13 of 20

REACH # 5 LENGTH = 8315

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 502	198	Ø	Ø	3702	3700
Q = 3702		600			
	199	600	7.2	3562	3600
		540			
	200	1140	13.7	3436	3400
		560			
	201	1700	20.4	3306	3300
		510			
	202	2210	26.6	3185	3200
		560			
	203	2770	33.3	3055	3100
		520			
	204	3290	39.6	2933	2900
		510			
↑	205	3800	45.7	2814	2800
ΔQ = 1943		540			
↓	206	4340	52.2	2688	2700
		470			
	207	4810	57.8	2579	2600
		500			
	208	5310	63.9	2460	2500
		520			
	209	5830	70.1	2340	2300
		505			
	210	6335	76.2	2221	2200
		480			
	211	6815	82.0	2109	2100
		520			
	212	7335	88.2	1988	2000
		500			
	213	7835	94.2	1872	1900
Q = 1759		480			
CP 501	214	8315	100.0	1759	1800

Computed by B.C.O. Date 8/5/91
Checked by GSB Date Aug 91
Reviewed by Date
Approved by Date

Job No. 10512 Page No.
Subject WATERMAN WASH
UPPER BASIN
WEST PRONG
Sheet No. 19 of 20

REACH # 4 LENGTH = 6130'

	X-SECTION	LENGTH	% OF REACH LENGTH	Q	Q USED
CP 501	214	Ø	Ø	1759	1800
Q= 1759		500			
	215	500	8.2	1734	1700
		590			
	216	1090	17.8	1704	"
		460			
	217	1550	25.3	1681	"
		1030			
	219	2580	42.1	1628	1600
		540			
	220	3120	50.9	1601	"
		470			
↑	221	3590	58.6	1577	"
ΔQ= 310		530			
↓	222	4120	67.2	1551	"
		550			
	223	4670	76.2	1523	1500
		440			
	224	5110	83.4	1500	"
		520			
	225	5630	91.8	1474	"
Q= 1449		500			
CP 500	226	6130	100.0	1449	1400

Computed by B.C.O. Date 8/5/91
Checked by GSB Date Aug 91
Reviewed by Date
Approved by Date

Job No. 12512 Page No.
Subject WATERMAN WASH
UPPER BASIN
WEST PRONG
Sheet No. 20 of 20

REACH # 3 LENGTH = 6560'

	X-SECTION	LENGTH		% OF REACH LENGTH	Q	Q USED
CP 500	226		Ø	Ø	1449	1400
Q = 1449		500				
	227		500	7.6	1368	"
		500				
	228		1000	15.2	1288	1300
		540				
	229		1540	23.5	1200	1200
		530				
	230		2070	31.6	1114	1100
		460				
	231		2530	38.6	1039	1000
		590				
↑	232		3120	47.6	944	900
ΔQ = 1061		460				
↓	233		3580	54.6	870	"
		490				
	234		4070	62.0	791	800
		495				
	235		4565	69.6	711	700
		510				
	236		5075	77.4	628	600
		510				
	237		5585	85.1	546	500
		495				
	238		6080	92.7	465	"
Q = 388		480				
STR C	239		6560	100.0	388	400

APPENDIX I

MANNING ROUGHNESS COEFFICIENTS
(East and West Prongs of Waterman Wash)

APPENDIX I - Manning Roughness Coefficients for Waterman Wash

Manning's roughness coefficient ("n" values) have been estimated for use in backwater computations for the floodplain delineation of Waterman Wash. Separate field trips were made on October 25th and November 1st, 1989 by Stanley Consultants' personnel for this purpose. FCD staff accompanied Stanley Consultants on October 25th to assist in "n" value determination. Additional sources referenced for "n" value determination included the project aerial contact prints, National Engineering Handbook, Section 4, and Open Channel Hydraulics by Chow.

The coefficients chosen were selected on the basis of engineering judgement. Consideration was given to the following interdependent criteria:

A. Channel bed and bank material
B. Vegetation
C. Channel alignment and uniformity
D. Channel size and shape
E. Stage and discharge

"n" values were selected in incremental values of 0.005. Both channel and overbank characteristics have been inspected to estimate the roughness values in those areas.

Photographs were taken at selected locations along the East and West prongs to document the values used and are presented along with a brief description.

Waterman Wash
Confluence

Mile 15.7

Left Overbank Area -

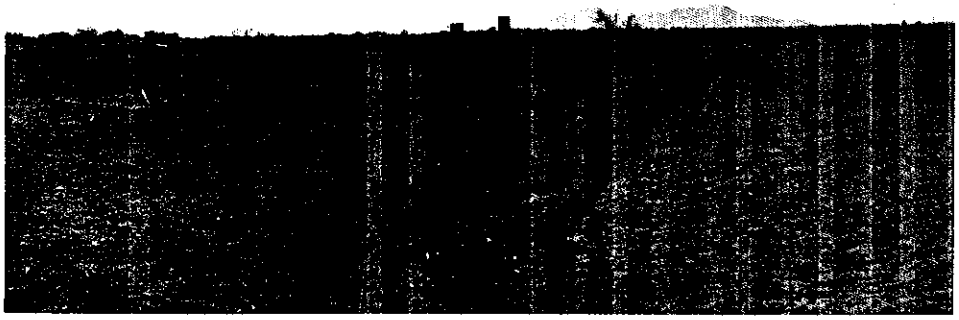
Looking upstream.
Typical vegetative
growth.

"n" = 0.060

Main Channel -
West Prong

Wide sandy bottom with
occasional growth.

"n" = 0.045



Delta area between
East and West Prongs

Fenced rangeland with
sparce vegetative
cover.

"n" = 0.045

Main Channel -
East Prong

Dense growth on sides.
Silty bottom, partial
obstruction.

"n" = 0.055

Right Overbank Area -

Looking upstream.
Sparse cover.

"n" = 0.055"

<u>Waterman Wash</u>
<u>East Prong</u>

Mile 17.3

Left Overbank Area -

Looking upstream. Average vegetation with numerous braided rivulets.

"n" = 0.065

Main Channel -

Silty bottom with dense vegetative sides.

"n" = 0.0.50

Right Overbank Area -

Typical vegetation.

"n" = 0.060

Waterman Wash
East Prong

Mile 19.3

Left Overbank Area -

Looking upstream.
Dense vegetation.

"n" = 0.065

Main Channel -

Dense growth on sides,
sandy bottom,
irregular.

"n" = 0.060

Right Overbank Area -

Looking upstream.

"n" = 0.065

Waterman Wash
East Prong

Mile 24.0

Left Overbank Area -

Dense vegetation.

"n" =0.065

Main Channel -

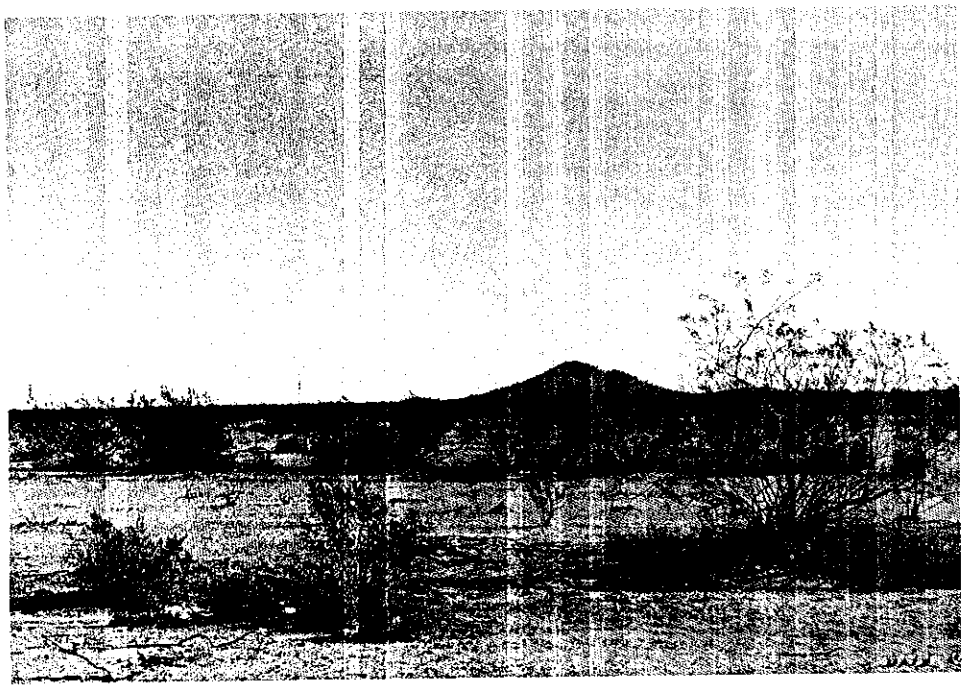
Silty bottom, dense growth on sides.

"n" = 0.055

Right Overbank Area -

Dense vegetation.

"n" = 0.065



Waterman Wash
East Prong

End of Detailed Study

Mile 26.9

Left side looking upstream -

Main channel has disappeared, reverted to shallow flooding/sheet flow.

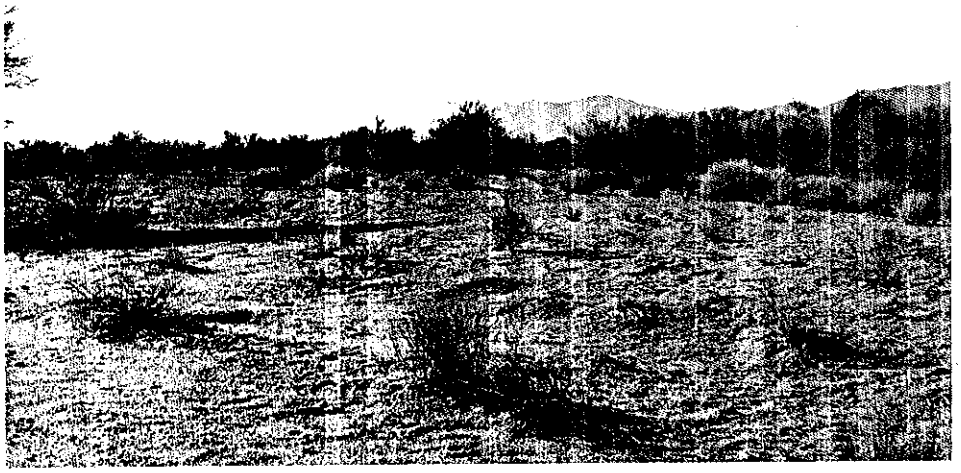
"n" = 0.060

Right side looking upstream.

"n" = 0.060

Waterman Wash
West Prong

Mile 3.05



Left Overbank Area -

Looking upstream.
Typical vegetative
cover.

"n" = 0.060

Main Channel -

Typical sandy bottom
with vegetation on
side slopes.

"n" = 0.045

Right Overbank Area -

Looking upstream.
Typical vegetative
cover.

"n" = 0.060

Waterman Wash
West Prong

Mile 4.5

Left Overbank Area -

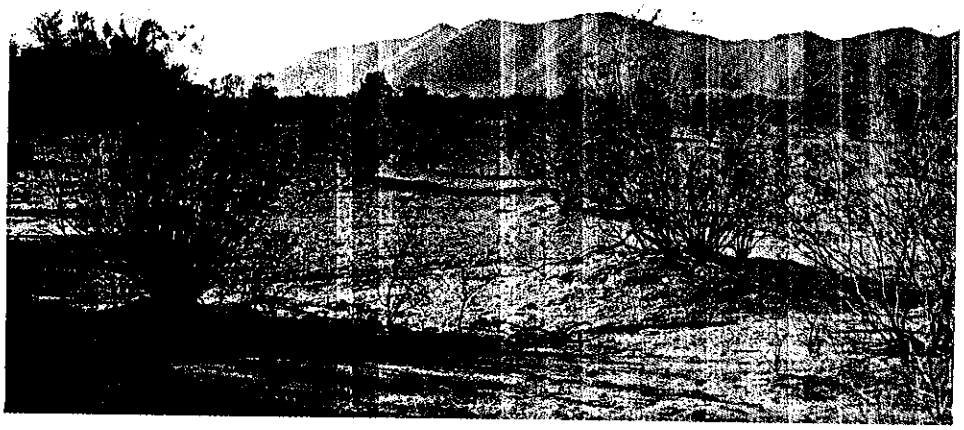
Vegetative cover slightly dense than average.

"n" = 0.060

Main Channel -

Side slopes are less defined.

"n" =0.045



Right Overbank Area -

Typical vegetative cover.

"n" = 0.060

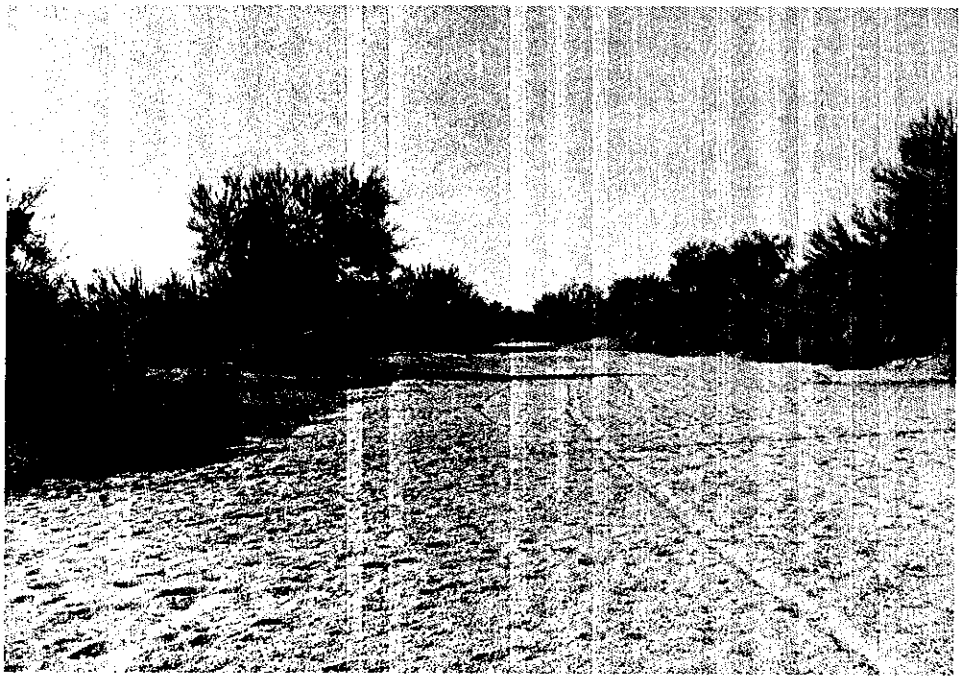
Waterman Wash
West Prong

Mile 8.5

Left Overbank Area -

Sparse vegetation, well defined rivulets.

"n" = 0.060



Main Channel -

Coarse sandy bottom, ill defined side slopes, shallow depths.

"n" = 0.050

Right Overbank Area -

Typical vegetation.

"n" = 0.060

APPENDIX J

COMPARISON OF WATER SURFACE PROFILES BETWEEN STANLEY AND CELLA-BARR STUDIES

DESIGNED BY GJB DATE AUG. 91 SHEET NO. 1 PAGE NO.
CHECKED BY TDC DATE OCT. 91 OF 3 JOB NO.
REVIEWED BY DATE SUBJECT: WATERMAN WASH 10512
APPROVED BY DATE

COMPARE STANLEY CONSULTANTS STARTING WATER SURFACE PROFILE FOR UPPER WATERSHED WITH CELLA BARR WATER SURFACE FROM UPPER END OF LOWER WATERSHED.

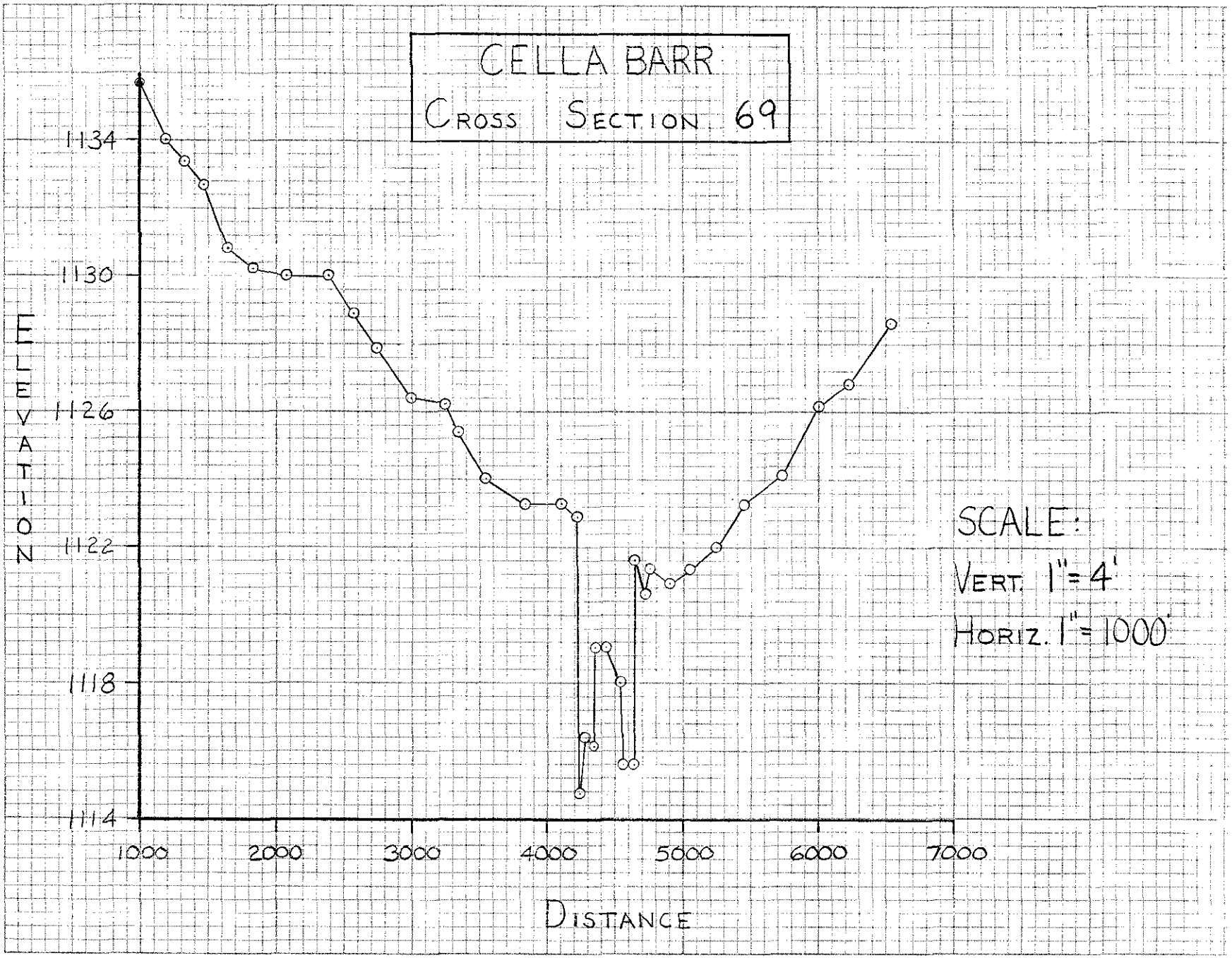
THERE ARE THREE BASIC DIFFERENCES BETWEEN CBA AND SCI HYDRAULIC MODELS. THESE DIFFERENCES ARE REGARDING FLOW RATE, VERTICAL LOCATION OF GR CROSS SECTION POINTS AND MANNINGS "n" VALUES. THE LAST (MOST UPSTREAM) CROSS SECTIONS FROM THE CELLA BARR STUDY WERE RUN WITH THE SCI FLOW RATE OF 13,200 CFS IN PLACE OF THE CBA FLOW OF 22,850 CFS. ALSO IN THIS RUN, CBA ROUGHNESS COEFFICIENTS WERE INCREASED TO CORRESPOND WITH SCI COEFFICIENTS. THE RESULTING WATER SURFACE OF 1123.21 AT CBA CROSS SECTION 69.0 WAS COMPARED TO THE STARTING WATER SURFACE OF 1127.43 AT CORRESPONDING SCI CROSS SECTION 1. SCI'S WATER SURFACE OF 1127.43 IS COMPUTED USING THE SLOPE-AREA OPTION OF HEC 2 WITH AN ESTIMATED SLOPE OF 0.0022 FT/FT. THE VERTICAL DIFFERENCE BETWEEN THE PREDOMINANT CHANNEL BOTTOM ELEVATIONS OF THE CBA SECTION 69.00 (1115.7) AND THE SCI SECTION 1 (1120.2) WAS ADDED TO THE WATER SURFACE OF 1123.20:

$$(1120.2 - 1115.7) + 1123.20 = 1127.70$$

THE ADJUSTED WATER SURFACE OF 1127.70 IS WITHIN THREE TENTHS OF THE SCI CALCULATED STARTING WATER SURFACE OF 1127.43 INDICATING A REASONABLE AGREEMENT AT THAT CONCURRENT CROSS SECTION. TRUE AGREEMENT IN WATER SURFACE PROFILES CAN NOT BE ACHIEVED UNLESS THE FLOW RATES ARE THE SAME IN BOTH THE CBA AND SCI STUDIES.

REFER TO HEC 2 PRINTOUT WITH FILENAME CBA1 AND PLOTTED CROSS SECTIONS CBA 69.0 AND SCI 1 WHICH IMMEDIATELY FOLLOW. ALSO REFER TO REDUCED COPY OF CELLA BARR FIS WORK MAP.

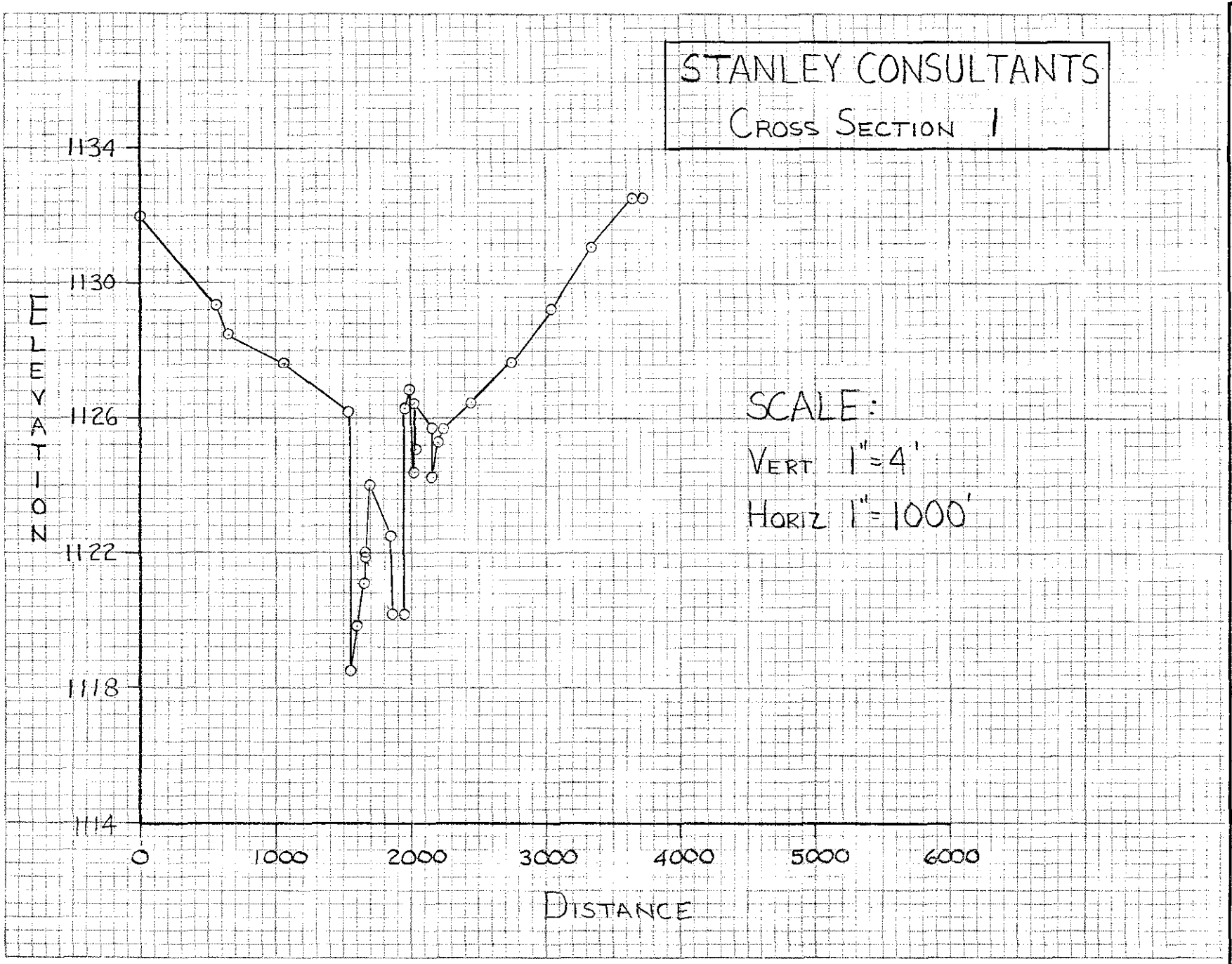
DESIGNED BY ..... DATE Aug 91 SHEET NO. 2 OF 3 PAGE NO. .....
CHECKED BY ..... DATE Aug 91 JOB NO. .....
REVIEWED BY ..... DATE ..... SUBJECT: WATERMAN WASH 10517
APPROVED BY ..... DATE .....



SC 3020

SC 3020

DESIGNED BY RCO DATE AUG 91 SHEET NO. 3 PAGE NO.
CHECKED BY CDS DATE AUG 91 OF 3 JOB NO.
REVIEWED BY DATE SUBJECT: WATERMAN WASH 12512
APPROVED BY DATE



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 *  WATER SURFACE PROFILES                           *
 *  VERSION OF NOVEMBER 1976                         *
 *  UPDATED MAY 1984                                 *
 *  IBM-PC-XT VERSION AUGUST 1985                    *
 *  RUN DATE  09-04-91   TIME  08:48:23              *
 *****************************************************
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* U.S. ARMY CORPS OF ENGINEERS      *
* THE HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET, SUITE D        *
* DAVIS, CALIFORNIA 95616           *
* (916) 440-2105 (FTS) 448-2105     *
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX    X          XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
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1

09-04-91 08:48:23 PAGE 1

THIS RUN EXECUTED 09-04-91

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
****************************************************
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```
T1      WATERMAN WASH UPPER END OF CELLA BARR FIS, LOWER END OF SCI FIS
T2      CBA XSECTNS W/ SCI "n" & REVISED Q TO COMPARE SCI & CBA WATER SURFACE
T3      WATERMAN WASH                    FILENAME IS: CBA1      DATE: 8-24-91
```

	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.002800	.00	.0	13200.	1107.950	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	15.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.060	2767.180	.060	2967.130	.050	3100.880	.060	3196.240	.060
NH	5255.500	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	63.000	33.000	2967.130	3100.880	1800.000	2100.000	1940.000	.000	.000	.000
GR	1114.400	1000.000	1112.700	1246.530	1111.600	1456.770	1109.900	1722.400	1108.400	1942.670
GR	1107.700	2071.740	1107.700	2264.790	1107.700	2540.700	1107.200	2695.750	1105.500	2767.180
GR	1103.400	2807.140	1104.000	2946.260	1109.500	2967.130	1100.200	3000.310	1098.300	3055.440
GR	1096.800	3087.350	1106.900	3100.880	1106.900	3141.150	1103.100	3154.930	1106.500	3166.970
GR	1105.700	3196.240	1105.000	3294.470	1105.800	3309.580	1104.200	3331.160	1105.800	3559.270
GR	1106.200	3757.010	1108.100	3949.430	1109.900	3971.570	1109.900	4018.430	1110.900	4281.060
GR	1112.600	4571.360	1114.400	4928.560	1115.600	5255.500	.000	.000	.000	.000
NH	5.000	.060	3452.450	.060	3578.360	.050	3667.300	.060	3734.220	.060
NH	6054.200	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	64.000	36.000	3578.360	3667.300	950.000	1400.000	1190.000	.000	.000	.000
GR	1119.200	1000.000	1118.400	1166.990	1118.200	1367.770	1116.900	1580.280	1116.300	1788.650
GR	1115.700	1966.650	1113.300	2134.470	1112.400	2322.550	1112.400	2519.100	1111.400	2705.700
GR	1111.400	2851.970	1111.500	3042.840	1109.800	3214.050	1110.400	3293.530	1109.800	3404.950
GR	1108.800	3452.450	1110.100	3513.970	1112.000	3578.360	1101.900	3597.690	1101.900	3647.190
GR	1112.000	3667.300	1112.000	3728.520	1110.100	3734.220	1110.100	3750.320	1107.600	3807.740
GR	1109.100	3881.010	1107.600	3896.610	1107.600	3960.430	1110.100	3997.590	1111.800	4230.090
GR	1112.700	4589.530	1113.800	4913.150	1115.900	5233.640	1117.400	5523.250	1119.200	5790.700
GR	1119.800	6054.200	.000	.000	.000	.000	.000	.000	.000	.000
NH	5.000	.060	3922.640	.060	4047.190	.050	4136.930	.060	4253.740	.060
NH	5874.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	65.000	39.000	4047.190	4136.930	1100.000	1400.000	1290.000	.000	.000	.000
GR	1122.400	1000.000	1121.100	1132.570	1120.300	1381.430	1120.300	1598.740	1119.500	1832.800
GR	1118.100	2084.520	1117.300	2309.760	1116.300	2531.350	1115.400	2767.270	1115.000	2958.640
GR	1114.600	3139.830	1114.200	3206.140	1114.300	3332.040	1114.300	3489.470	1114.500	3710.700
GR	1112.800	3791.990	1110.500	3817.600	1112.000	3851.290	1112.600	3922.640	1114.100	3968.460

GR	1114.100	4047.190	1103.000	4062.640	1103.400	4115.150	1111.400	4136.930	1112.900	4180.380
GR	1108.300	4210.170	1113.300	4253.740	1113.300	4275.770	1111.800	4295.430	1112.300	4338.840

1

[illegible]	1110.800	4347.800	1112.300	4531.050	1114.200	4746.720	1116.300	5080.980	1117.800	5361.820
[illegible]	1119.100	5632.000	1120.000	5818.430	1122.300	5835.970	1121.000	5874.000	.000	.000
NH	4.000	.060	3286.180	.050	3373.150	.060	3495.500	.060	4530.640	.000
X1	66.000	32.000	3286.180	3373.150	1020.000	1020.000	1020.000	.000	.000	.000
GR	1122.300	1000.000	1121.700	1131.780	1121.100	1273.190	1121.100	1445.160	1120.100	1658.150
GR	1118.700	1916.020	1118.100	2155.770	1117.500	2448.200	1117.100	2623.160	1116.700	2863.120
GR	1116.500	3040.070	1108.100	3067.050	1115.400	3093.410	1114.000	3138.040	1115.900	3163.380
GR	1113.200	3191.630	1115.900	3203.740	1117.600	3286.180	1105.600	3310.660	1107.100	3353.260
GR	1116.700	3373.150	1116.300	3426.950	1115.300	3495.500	1113.800	3522.120	1115.300	3798.110
GR	1116.200	4017.040	1116.600	4220.460	1117.500	4447.240	1118.900	4466.880	1118.500	4483.270
GR	1120.000	4496.290	1120.000	4530.640	.000	.000	.000	.000	.000	.000
NH	4.000	.060	3341.470	.050	3416.200	.060	3586.180	.060	5198.740	.000
X1	67.000	38.000	3341.470	3416.200	1400.000	1100.000	1230.000	.000	.000	.000
GR	1127.000	1000.000	1125.300	1198.850	1123.900	1336.240	1123.100	1442.970	1123.300	1648.800
GR	1123.100	1828.760	1122.700	1935.720	1120.200	2004.460	1116.800	2024.940	1121.500	2044.130
GR	1120.600	2178.380	1121.300	2367.420	1120.700	2551.390	1119.700	2741.330	1119.000	2812.840
GR	1119.300	2969.000	1119.300	3103.760	1119.300	3276.660	1120.200	3341.470	1109.000	3357.580
GR	1109.000	3400.400	1119.100	3416.200	1117.700	3468.670	1115.800	3507.040	1118.300	3520.780
GR	1117.000	3586.180	1117.900	3603.740	1118.700	3769.610	1117.500	3808.440	1117.900	3862.920
GR	1119.200	4009.510	1117.900	4020.260	1119.000	4033.770	1119.600	4272.150	1120.300	4535.230
GR	1121.800	4806.050	1122.500	5061.100	1122.900	5198.740	.000	.000	.000	.000
NH	5.000	.060	3325.940	.060	3451.540	.050	3654.450	.060	3733.830	.060
NH	6630.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	68.000	37.000	3596.670	3654.450	1150.000	950.000	1040.000	.000	.000	.000
GR	1129.500	1000.000	1127.600	1222.350	1126.300	1459.250	1125.100	1799.490	1126.000	2067.260
GR	1124.000	2463.580	1120.100	2723.170	1118.800	3029.180	1118.800	3178.500	1119.500	3192.800
GR	1119.500	3242.580	1119.700	3325.940	1118.800	3451.540	1117.600	3531.550	1114.700	3537.860
GR	1114.700	3596.670	1111.500	3605.490	1111.500	3654.450	1115.300	3670.830	1114.400	3733.830
GR	1111.900	3742.660	1111.900	3775.450	1118.400	3793.300	1118.600	3831.520	1116.800	3852.080
GR	1117.400	4046.150	1119.000	4165.430	1119.400	4310.560	1119.800	4466.610	1120.400	4625.180
[illegible]	1121.900	4736.280	1122.700	4864.180	1123.000	5094.350	1124.600	5317.210	1126.200	5590.210
[illegible]	1127.900	5934.490	1132.000	6630.000	.000	.000	.000	.000	.000	.000
NH	6.000	.060	4227.850	.050	4360.200	.060	4563.410	.050	4647.540	.060
NH	4709.700	.060	6524.020	.000	.000	.000	.000	.000	.000	.000
X1	69.000	36.000	4227.850	4360.200	800.000	1150.000	1020.000	.000	.000	.000
GR	1135.700	1000.000	1134.000	1198.770	1133.400	1317.860	1132.700	1478.520	1130.800	1637.860
GR	1130.200	1827.060	1130.000	2085.870	1130.000	2398.390	1128.900	2575.960	1127.900	2749.190
GR	1126.400	3009.300	1126.200	3227.130	1125.400	3352.080	1124.100	3552.290	1123.300	3846.590
GR	1123.300	4102.550	1122.900	4227.850	1114.700	4246.830	1116.400	4295.080	1116.200	4342.470
GR	1119.100	4360.200	1119.100	4434.530	1118.000	4551.260	1115.700	4563.410	1115.700	4630.970
GR	1121.600	4647.540	1120.600	4709.700	1121.400	4771.330	1121.000	4900.790	1121.400	5064.210
GR	1122.000	5266.550	1123.300	5449.510	1124.100	5727.410	1126.200	6008.820	1126.800	6222.530
GR	1128.700	6524.020	.000	.000	.000	.000	.000	.000	.000	.000
NH	4.000	.060	3110.780	.050	3222.920	.060	3607.700	.060	6224.990	.000
X1	70.000	40.000	3110.780	3287.740	1150.000	800.000	920.000	.000	.000	.000
GR	1139.600	1000.000	1137.800	1241.750	1136.100	1438.670	1135.700	1490.750	1135.000	1657.290
GR	1134.800	1826.600	1134.800	1962.910	1131.900	2156.130	1130.900	2290.570	1130.200	2527.070
GR	1129.400	2645.540	1124.200	2672.000	1129.600	2710.880	1126.700	2941.060	1126.500	3110.780
GR	1122.900	3161.630	1118.500	3171.930	1118.500	3191.600	1118.500	3212.650	1121.700	3222.920

1

GR	1121.000	3266.190	1123.600	3287.740	1124.200	3345.690	1123.600	3373.770	1126.700	3389.480
GR	1126.500	3485.290	1119.100	3495.160	1119.100	3507.960	1127.500	3518.660	1125.700	3590.050
GR	1122.300	3607.700	1124.600	3670.750	1125.200	3816.780	1125.400	4082.570	1126.300	4416.110
GR	1127.700	4747.030	1129.800	5120.310	1131.700	5507.500	1133.800	5922.230	1136.100	6224.990
NH	5.000	.060	3184.430	.060	3291.670	.050	3379.070	.060	3537.960	.060
NH	5777.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	71.000	39.000	3291.670	3379.070	900.000	1000.000	1060.000	.000	.000	.000
GR	1139.900	1000.000	1138.500	1111.680	1138.000	1315.700	1138.700	1460.190	1137.600	1679.630
[illegible]	1135.900	1883.220	1133.800	2125.830	1133.800	2332.060	1132.200	2556.990	1131.500	2813.660
[illegible]	1130.900	2906.630	1130.900	2966.140	1128.000	2973.930	1131.800	2987.730	1131.500	3028.670
[illegible]	1128.000	3038.410	1131.100	3056.380	1131.100	3129.250	1127.600	3151.700	1130.700	3184.430
GR	1129.900	3291.670	1122.100	3301.200	1122.100	3353.600	1130.500	3379.070	1129.400	3392.850
GR	1125.300	3404.930	1124.600	3449.210	1127.600	3473.320	1125.700	3505.460	1128.800	3537.960
GR	1129.400	3761.140	1128.600	3852.000	1130.500	3921.830	1130.300	4236.380	1132.400	4585.110
GR	1134.300	4902.970	1135.800	5298.560	1136.800	5557.950	1137.700	5777.000	.000	.000

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NH      4.000       .060   3097.180       .050   3211.150       .060   3459.920       .060   5144.830       .000
X1     72.000     34.000   3097.180   3211.150    500.000    900.000    730.000       .000       .000       .000
GR   1139.700   1000.000   1139.700   1260.270   1138.000   1556.070   1138.000   1786.740   1136.300   2016.480
GR   1135.600   2235.660   1133.700   2537.680   1133.300   2785.760   1134.600   2886.410   1129.900   2914.390
GR   1130.200   3002.390   1133.700   3014.480   1135.000   3097.180   1128.100   3108.350   1126.200   3186.580
GR   1133.700   3211.150   1133.700   3235.060   1129.700   3268.480   1131.000   3290.980   1132.300   3363.930
GR   1134.300   3459.920   1131.800   3521.010   1131.400   3560.400   1134.800   3673.200   1130.100   3689.290
GR   1133.100   3736.250   1133.100   3850.280   1134.300   4017.170   1136.000   4162.720   1136.000   4321.980
GR   1136.800   4551.080   1138.500   4762.250   1139.500   4974.960   1139.900   5144.830       .000       .000

NH      4.000       .060   2959.100       .050   3126.590       .060   3235.900       .060   4649.500       .000
X1     73.000     31.000   2959.100   3126.590    600.000    800.000    710.000       .000       .000       .000
GR   1145.300   1000.000   1142.700   1374.310   1141.700   1626.130   1139.500   2007.250   1138.700   2499.000
GR   1138.200   2959.100   1131.700   2975.710   1130.200   2994.390   1130.700   3032.890   1131.300   3071.930
GR   1127.500   3082.080   1128.100   3109.400   1135.500   3126.590   1137.200   3157.670   1136.100   3203.700
GR   1133.800   3235.900   1133.600   3263.500   1135.500   3280.490   1135.100   3318.710   1136.500   3339.470
GR   1136.100   3476.380   1136.500   3619.570   1136.900   3713.940   1134.600   3728.500   1136.300   3752.060
GR   1137.100   3935.360   1137.700   4078.770   1138.400   4228.530   1138.400   4356.510   1139.000   4442.330
GR   1140.400   4649.500       .000       .000       .000       .000       .000       .000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

 *PROF 1

 CCHV=    .100 CEHV=    .300
 1490 NH CARD USED
 *SECNO 63.000

 3265 DIVIDED FLOW

    63.00    11.18  1107.98      .00  1107.95  1108.30      .32      .00      .00  1109.50
    3200.    2915.    6122.    4163.    1101.    1005.    1769.      0.       0.   1106.90
      .00     2.65     6.09     2.35     .060     .050     .060     .000  1096.80  2020.63
  .002831    1800.    1940.    2100.        0        0        3      .00  1905.15  3936.99
0
 FLOW DISTRIBUTION FOR SECNO=     63.00          CWSEL=   1107.98

 STA=    2021.    2807.    2946.    2961.    3101.    3294.    3559.    3757.    3937.
   PER Q=      6.0     15.7       .5     46.4      7.8     16.1      6.1      1.5
    AREA=    476.0    595.0     30.0   1004.7    435.7    782.3    391.0    159.9
     VEL=      1.7      3.5      2.0      6.1      2.4      2.7      2.1      1.2

 1490 NH CARD USED
 *SECNO 64.000
    64.00    10.25  1112.15      .00      .00  1112.63      .48     4.29      .05  1112.00
   13200.    3122.    5552.    4526.    1314.     712.    1291.      99.      49.   1112.00
      .07     2.38     7.79     3.51     .060     .050     .060     .000  1101.90  2566.14
  .004608     950.    1190.    1400.        3        0        0      .00  1802.91  4369.05
0
 FLOW DISTRIBUTION FOR SECNO=     64.00          CWSEL=   1112.15

 STA=    2566.    3214.    3294.    3405.    3452.    3514.    3578.    3667.    3808.    3881.    3960.    3998.    4230.
   PER Q=      7.1      3.3      4.7      3.5      4.1      1.0     42.1      6.1      8.6     12.0      3.5      4.0
    AREA=    551.3    162.8    228.2    135.3    166.0     70.7    712.3    237.7    278.3    349.5    122.6    278.5
     VEL=      1.7      2.7      2.7      3.4      3.3      1.8      7.8      3.4      4.1      4.5      3.7      1.9
 STA=    4230.    4369.
   PER Q=       .1
    AREA=     24.2
     VEL=       .5

 1490 NH CARD USED
 *SECNO 65.000
    65.00    12.68  1115.68      .00      .00  1115.90      .22     3.25      .03  1114.10
   13200.    2929.    5196.    5075.    1918.     946.    2282.     222.     106.   1111.40
      .17     1.53     5.49     2.22     .060     .050     .060     .000  1103.00  2693.55
  .001588    1100.    1290.    1400.        3        0        0      .00  2288.95  4982.49
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=     65.00          CWSEL=   1115.68

 STA=    2694.    3332.    3711.    3818.    3851.    3923.    4047.    4137.    4210.    4254.    4339.    4531.    4747.
   PER Q=     4.0      4.5      3.9      3.0      4.1      2.7     39.4      6.0      4.6      4.5     15.3      7.1
    AREA=   527.3    500.9    268.4    149.3    241.3    231.3    945.9    304.8    212.7    271.6    794.1    524.4
     VEL=     1.0      1.2      1.9      2.7      2.2      1.5      5.5      2.6      2.8      2.2      2.5      1.8
 STA=    4747.    4982.
   PER Q=     1.1
    AREA=   174.6
     VEL=      .8

 1490 NH CARD USED
 *SECNO 66.000
    66.00    12.20  1117.80      .00      .00  1118.12      .32     2.19      .03  1117.60
   13200.    3114.    5063.    5023.    1271.     757.    2091.     330.     158.   1116.70
      .24     2.45     6.69     2.40     .060     .050     .060     .000  1105.60  2303.62
  .003053    1020.    1020.    1020.        3        0        0      .00  2147.78  4451.40
0
 FLOW DISTRIBUTION FOR SECNO=     66.00          CWSEL=   1117.80

 STA=    2304.    3040.    3067.    3093.    3138.    3192.    3286.    3373.    3496.    3798.    4017.    4220.    4451.
   PER Q=     5.2      4.6      5.4      3.0      3.6      1.8     38.4      3.1     22.3      7.5      3.7      1.4
    AREA=   535.2    148.3    159.4    138.2    163.9    125.6    756.6    206.6    982.4    448.1    284.1    169.9
     VEL=     1.3      4.1      4.4      2.9      2.9      1.9      6.7      2.0      3.0      2.2      1.7      1.1

 1490 NH CARD USED
 *SECNO 67.000

 3265 DIVIDED FLOW

    67.00    12.13  1121.13      .00      .00  1121.40      .27     3.27      .01  1120.20
   13200.    2430.    4669.    6101.    1456.     736.    2683.     455.     225.   1119.10
      .34     1.67     6.34     2.27     .060     .050     .060     .000  1109.00  1978.91
  .002406    1400.    1230.    1100.        3        0        0      .00  2550.64  4684.92

 FLOW DISTRIBUTION FOR SECNO=     67.00          CWSEL=   1121.13

 STA=    1979.    2741.    2969.    3104.    3277.    3341.    3416.    3507.    3586.    3770.    3863.    4010.    4272.
   PER Q=     3.4      6.2      3.4      4.4      1.0     35.4      6.7      6.1     10.1      6.2      6.5      7.1
    AREA=   367.4    436.3    246.5    316.3     89.4    736.4    311.2    283.6    533.9    304.4    378.1    500.0
     VEL=     1.2      1.9      1.8      1.8      1.5      6.3      2.8      2.8      2.5      2.7      2.3      1.9
 STA=    4272.    4535.    4685.
   PER Q=     3.2       .3
    AREA=   310.2     62.1
     VEL=     1.4       .7

1
 09-04-91     08:48:23                                                                                          PAGE    6

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 1490 NH CARD USED
 *SECNO 68.000
    68.00    10.82  1122.32      .00      .00  1122.38      .05      .96      .02  1114.70
   13200.    4451.    1938.    6811.    3190.     612.    4295.     609.     283.   1111.50
      .50     1.40     3.17     1.59     .056     .050     .060     .000  1111.50  2574.89
  .000495    1150.    1040.     950.        3        0        0      .00  2229.76  4804.65
0
 FLOW DISTRIBUTION FOR SECNO=     68.00          CWSEL=   1122.32

 STA=    2575.    3029.    3179.    3326.    3452.    3532.    3597.    3654.    3734.    3775.    3832.    4046.    4165.
   PER Q=     8.2      5.1      3.4      3.4      4.3      9.3     14.7     10.1      8.3      3.4     13.9      5.3
    AREA=  1045.7    526.7    413.6    386.6    330.3    487.6    611.5    617.3    423.0    274.4   1109.7    492.3
     VEL=     1.0      1.3      1.1      1.2      1.7      2.5      3.2      2.2      2.6      1.6      1.6      1.4
 STA=    4165.    4311.    4467.    4736.    4805.
   PER Q=     4.1      3.5      3.1       .0
    AREA=   453.9    425.6    484.1     14.6
     VEL=     1.2      1.1       .9       .2
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1490 NH CARD USED
*SECNO 69.000
    69.00     8.50  1123.20      .00      .00  1123.44      .24     1.01      .06  1122.90
   13200.       5.     4564.    8631.      14.     878.    2764.     749.     325.   1119.10
      .57      .35     5.20     3.12     .060     .050     .056     .000  1114.70  4133.79
  .002502     800.     1020.    1150.        2        0        0      .00  1301.69  5435.47

FLOW DISTRIBUTION FOR SECNO=     69.00          CWSEL=   1123.20

STA=    4134.    4228.    4360.    4435.    4551.    4631.    4710.    4901.    5064.    5267.    5435.
  PER Q=       .0     34.6      7.3     14.2     24.3      4.3      6.0      4.9      3.7       .7
   AREA=     14.1    878.1    304.8    542.8    583.9    206.0    394.6    326.9    303.6    101.4
    VEL=       .3      5.2      3.2      3.5      5.5      2.7      2.0      2.0      1.6       .9

1490 NH CARD USED
*SECNO 70.000

3265 DIVIDED FLOW

    70.00     8.15  1126.65      .00      .00  1127.25      .61     3.70      .11  1126.50
   13200.     104.     6887.    6210.      46.     882.    1595.     808.     352.   1123.60
      .61     2.25     7.81     3.89     .060     .053     .060     .000  1118.50  2659.55
  .009310    1150.     920.     800.        5        0        0      .00  1481.79  4498.15
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=     70.00          CWSEL=   1126.65

STA=    2660.    3111.    3288.    3346.    3389.    3508.    3608.    3671.    3817.    4083.    4416.    4498.
  PER Q=       .8     52.2      5.7      3.3      8.2      3.2      7.9      6.7      7.9      4.1       .1
   AREA=     46.0    882.1    159.2    100.7    139.8    100.8    201.6    255.1    358.0    265.9     14.2
    VEL=      2.3      7.8      4.7      4.3      7.7      4.1      5.2      3.5      2.9      2.1       .7

1490 NH CARD USED
*SECNO 71.000
    71.00     9.80  1131.90      .00      .00  1132.19      .29     4.91      .03  1129.90
   13200.    1190.     4512.    7498.     659.     713.    2600.     883.     389.   1130.50
      .69     1.81     6.32     2.88     .060     .050     .060     .000  1122.10  2662.32
  .002929     900.     1060.    1000.        3        0        0      .00  1841.87  4504.19
0
FLOW DISTRIBUTION FOR SECNO=     71.00          CWSEL=   1131.90

STA=    2662.    3056.    3184.    3292.    3379.    3449.    3473.    3505.    3538.    3761.    3852.    4236.    4504.
  PER Q=      3.2      3.4      2.4     34.2     13.3      4.6      5.2      4.3     12.7      5.5      9.3      1.9
   AREA=    279.0    207.2    172.9    713.5    390.5    140.1    169.1    151.5    627.7    264.7    640.8    215.9
    VEL=      1.5      2.2      1.8      6.3      4.5      4.3      4.1      3.7      2.7      2.7      1.9      1.2

1490 NH CARD USED
*SECNO 72.000

3265 DIVIDED FLOW

    72.00     8.52  1134.72      .00      .00  1135.14      .42     2.91      .04  1135.00
   13200.    3201.     5416.    4583.    1007.     745.    1535.     948.     419.   1133.70
      .73     3.18     7.27     2.99     .060     .050     .060     .000  1126.20  2376.03
  .005053     500.     730.     900.        3        0        0      .00  1655.33  4052.86
0
FLOW DISTRIBUTION FOR SECNO=     72.00          CWSEL=   1134.72

STA=    2376.    2786.    3002.    3079.    3211.    3268.    3291.    3364.    3521.    3560.    3670.    3736.    3850.
  PER Q=      5.3     17.8      1.1     41.0      3.1      3.5      6.3      4.2      3.5      3.4      5.0      3.4
   AREA=    384.1    556.9     66.3    744.5    125.1     98.3    223.7    237.8    122.8    182.5    182.9    184.4
    VEL=      1.8      4.2      2.3      7.3      3.3      4.7      3.7      2.3      3.8      2.5      3.6      2.4
STA=    3850.    4053.
  PER Q=      2.3
   AREA=    177.2
    VEL=      1.7

1
 09-04-91     08:48:23                                                                          PAGE     8
```

```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 NH CARD USED
SECNO 73.000
    73.00    10.53  1138.03      .00      .00  1138.65      .62     3.45      .06  1138.20
   13200.       0.    9068.    4132.       0.    1225.    1598.     999.     443.   1135.50
      .77      .00     7.40     2.59     .060     .050     .060     .000  1127.50  2959.52
  .004480     600.     710.     800.        2        0        0      .00  1190.74  4150.27
0
 FLOW DISTRIBUTION FOR SECNO=     73.00          CWSEL=   1138.03

 STA=    2960.    3127.    3236.    3264.    3319.    3476.    3620.    3752.    3935.    4150.
   PER Q=    68.7      4.6      4.0      4.3      5.3      4.5      4.1      3.7       .9
    AREA=  1224.6    215.4    119.6    163.7    283.8    248.3    220.0    244.6    102.9
     VEL=     7.4      2.8      4.4      3.4      2.5      2.4      2.4      2.0      1.1

1
  09-04-91     08:48:23                                                                          PAGE    9


                                                                                THIS RUN EXECUTED 09-04-91
 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION AUGUST 1985
 ***************************************************


 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 WATERMAN WASH

 ARY PRINTOUT TABLE  150
```

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
63.000	.00	.00	.00	1096.80	13200.00	1107.98	.00	1108.30	28.31	6.09	3874.60	2480.90
64.000	1190.00	.00	.00	1101.90	13200.00	1112.15	.00	1112.63	46.08	7.79	3317.12	1944.46
65.000	1290.00	.00	.00	1103.00	13200.00	1115.68	.00	1115.90	15.88	5.49	5146.54	3311.93
66.000	1020.00	.00	.00	1105.60	13200.00	1117.80	.00	1118.12	30.53	6.69	4118.39	2389.12
67.000	1230.00	.00	.00	1109.00	13200.00	1121.13	.00	1121.40	24.06	6.34	4875.65	2691.13
68.000	1040.00	.00	.00	1111.50	13200.00	1122.32	.00	1122.38	4.95	3.17	8096.87	5930.31
69.000	1020.00	.00	.00	1114.70	13200.00	1123.20	.00	1123.44	25.02	5.20	3656.04	2638.97
70.000	920.00	.00	.00	1118.50	13200.00	1126.65	.00	1127.25	93.10	7.81	2523.37	1368.01
71.000	1060.00	.00	.00	1122.10	13200.00	1131.90	.00	1132.19	29.29	6.32	3973.06	2438.97
72.000	730.00	.00	.00	1126.20	13200.00	1134.72	.00	1135.14	50.53	7.27	3286.49	1856.88
73.000	710.00	.00	.00	1127.50	13200.00	1138.03	.00	1138.65	44.80	7.40	2822.93	1972.05

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1
  09-04-91     08:48:23                                                                          PAGE   10

 WATERMAN WASH

 MMARY PRINTOUT TABLE  150
```

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
63.000	13200.00	1107.98	.00	.00	.03	1905.15	.00

64.000	13200.00	1112.15	.00	4.17	.00	1802.91	1190.00
65.000	13200.00	1115.68	.00	3.53	.00	2288.95	1290.00
66.000	13200.00	1117.80	.00	2.12	.00	2147.78	1020.00
67.000	13200.00	1121.13	.00	3.33	.00	2550.64	1230.00
68.000	13200.00	1122.32	.00	1.19	.00	2229.76	1040.00
69.000	13200.00	1123.20	.00	.87	.00	1301.69	1020.00
70.000	13200.00	1126.65	.00	3.45	.00	1481.79	920.00
71.000	13200.00	1131.90	.00	5.26	.00	1841.87	1060.00
72.000	13200.00	1134.72	.00	2.81	.00	1655.33	730.00
73.000	13200.00	1138.03	.00	3.32	.00	1190.74	710.00

SUMMARY OF ERRORS AND SPECIAL NOTES

THIS RUN EXECUTED 09-04-91

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
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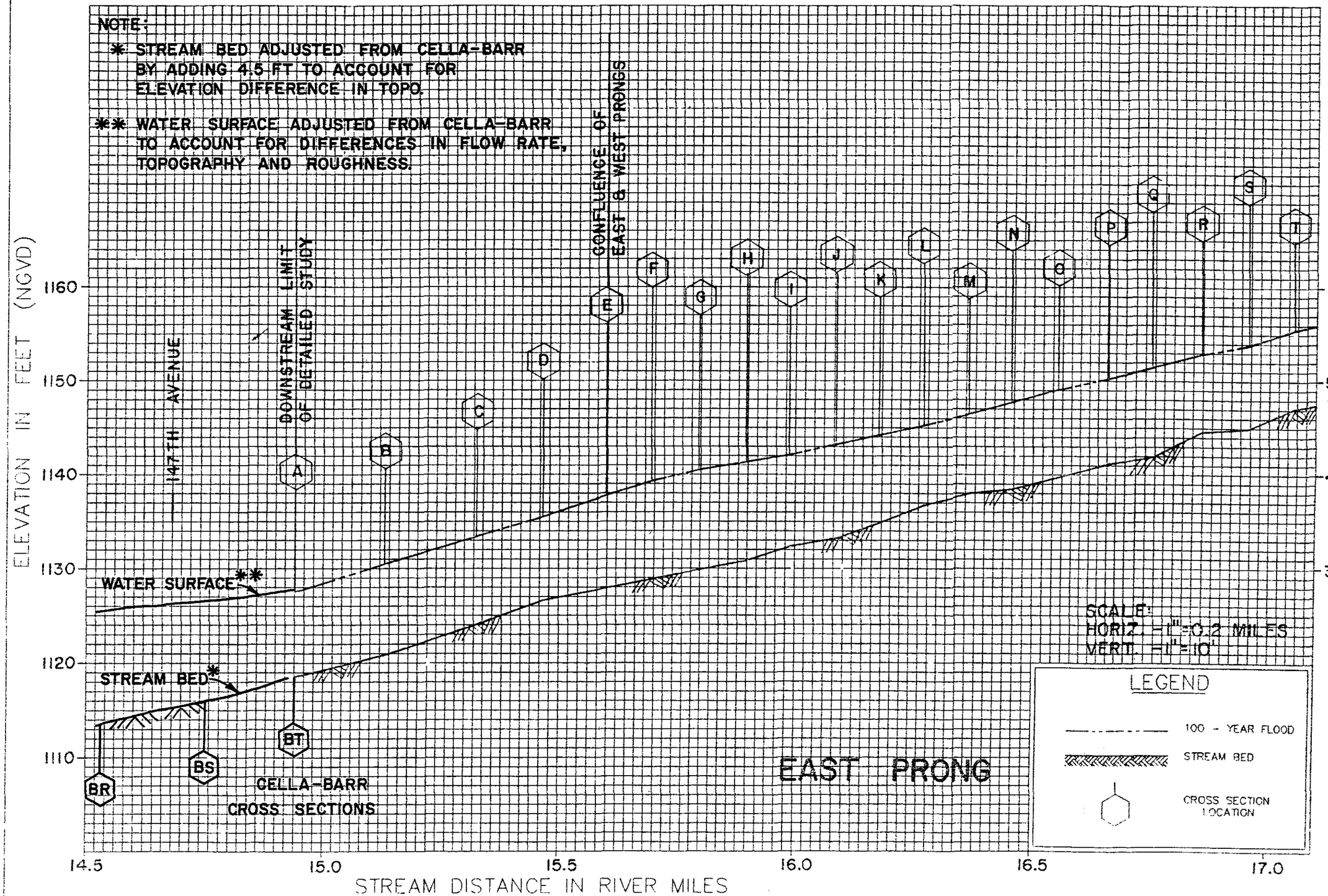


FLOOD PROFILES

WATERMAN WASH-EAST AND WEST PRONGS

FEDERAL EMERGENCY MANAGEMENT AGENCY

ERM 14 1,119.72

3-1/2" diameter Brass Cap stamped Department of Interior Elevation 1,120 feet Above Sea Level 8 DOR, Southeast corner of intersection Bullard Road and un-named dirt road, 36' East and 28' South of Section

ERM 15 1,146.64

3-1/2" Brass Cap located near angle point of overhead power line running Southeast to Northwest 10' + Northwest of power pole. 100' + East of dirt road close to sections 8, 9, 16 and 17, Township 3 West, Range 1 West stamped U.S. Department of Interior 9 DOR Elevation 1,147 feet Above Sea Level 1973 Geological Survey.

LEGEND

- 100-Year Boundary
- Floodway Boundary
- Cross-section
- RM-14 Elevation Reference Marks
- B(1130.12) Base Flood Elevation
- F(1130.62) Floodway Elevation
- River Mile
- Base Flood Elevation
- ZONE AE Zone Designation

REDUCED DRAWING NOT TO SCALE

FLOOD INSURANCE STUDY WORK MAP

Waterman Wash

(Detailed Study)

MARICOPA COUNTY, ARIZONA

CELLA BARR ASSOCIATES

792-2211

McLAIN HARBERS CO., INC.

SHT 1 OF 8

DATE MAY 1984

JOB NO. 04858 04 25

APPENDIX K

U.S. GEOLOCIAL SURVEY DISCHARGE FREQUENCY ANALYSIS

BASIN CHARACTERISTICS AND STREAMFLOW STATISTICS IN ARIZONA AS OF 1989

FLOOD CONTROL DISTRICT
RECEIVED
AUG 19 1991
CH ENG | P&PM
C&C | FILE
ENGR
REMARKS

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations Report 91—4041

Prepared in cooperation with the
ARIZONA DEPARTMENT OF WATER RESOURCES and
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

U.S. DEPARTMENT OF THE INTERIOR
MANUEL LUJAN, Jr., Secretary

U.S. GEOLOGICAL SURVEY
Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
375 South Euclid Avenue
Tucson, Arizona 85719

Copies of this report can be
purchased from:

U.S. Geological Survey
Books and Open-File Reports Section
Federal Center, Box 25425
Denver, Colorado 80225

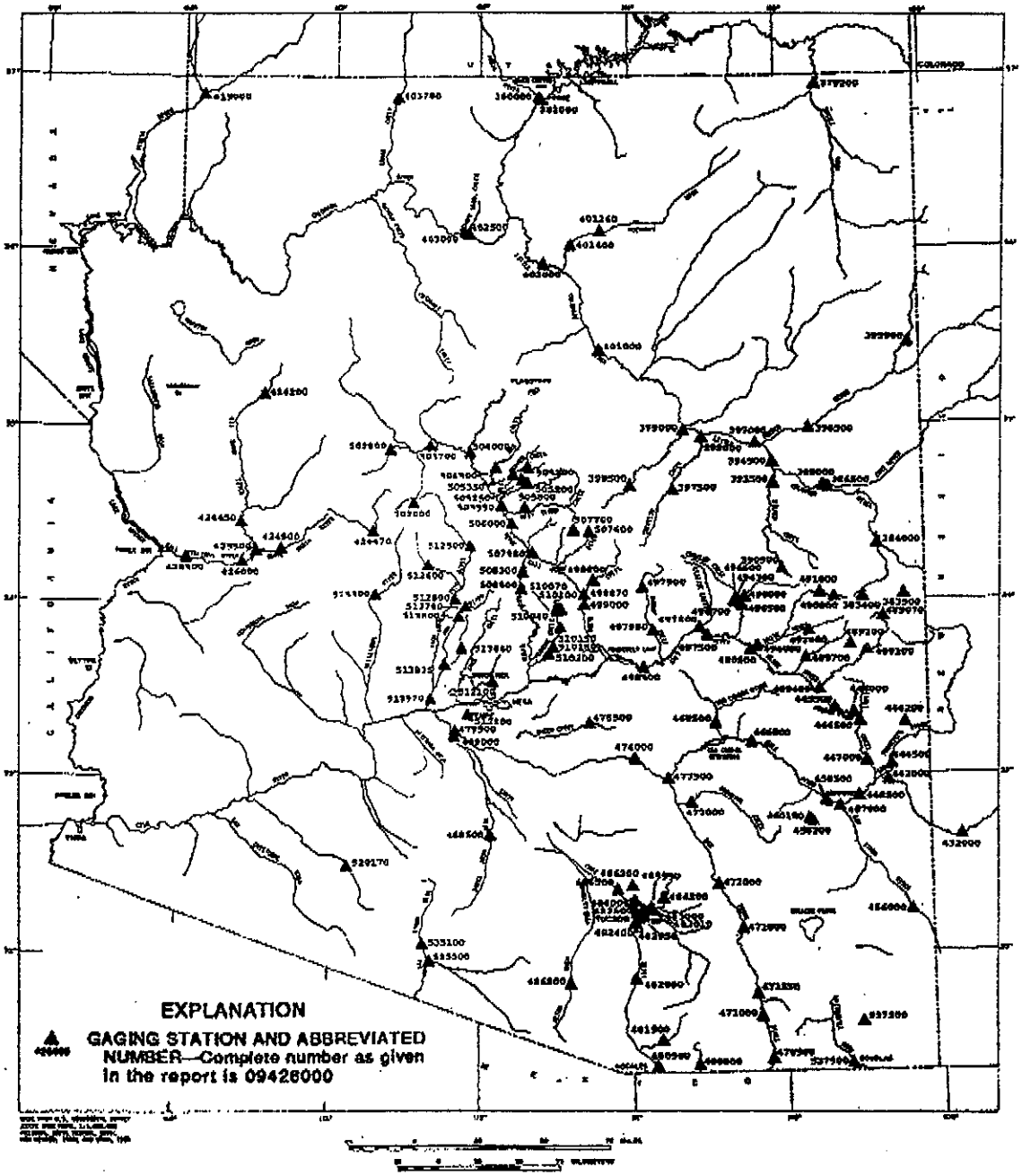


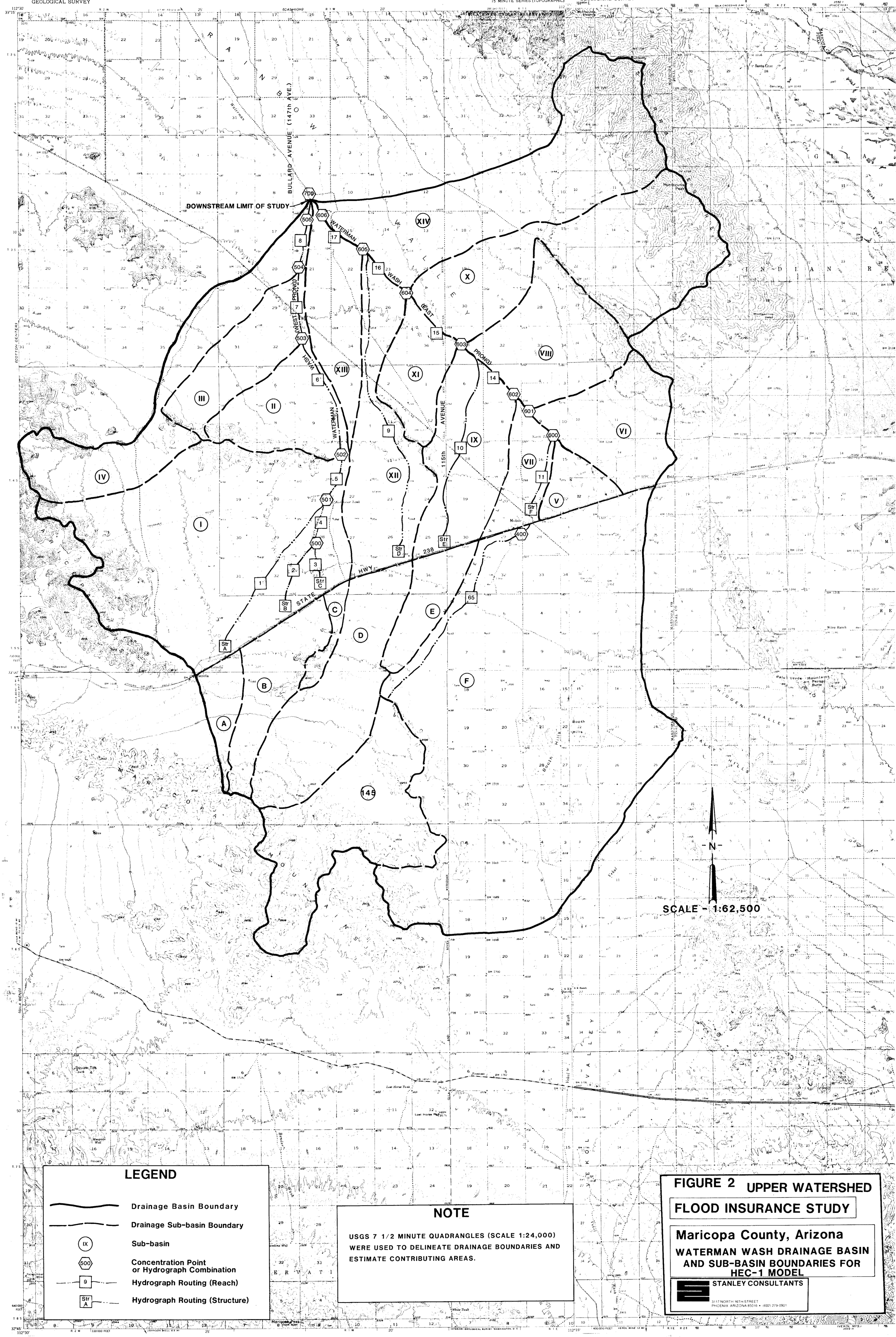
Figure 1.--Location of continuous-gaging stations.

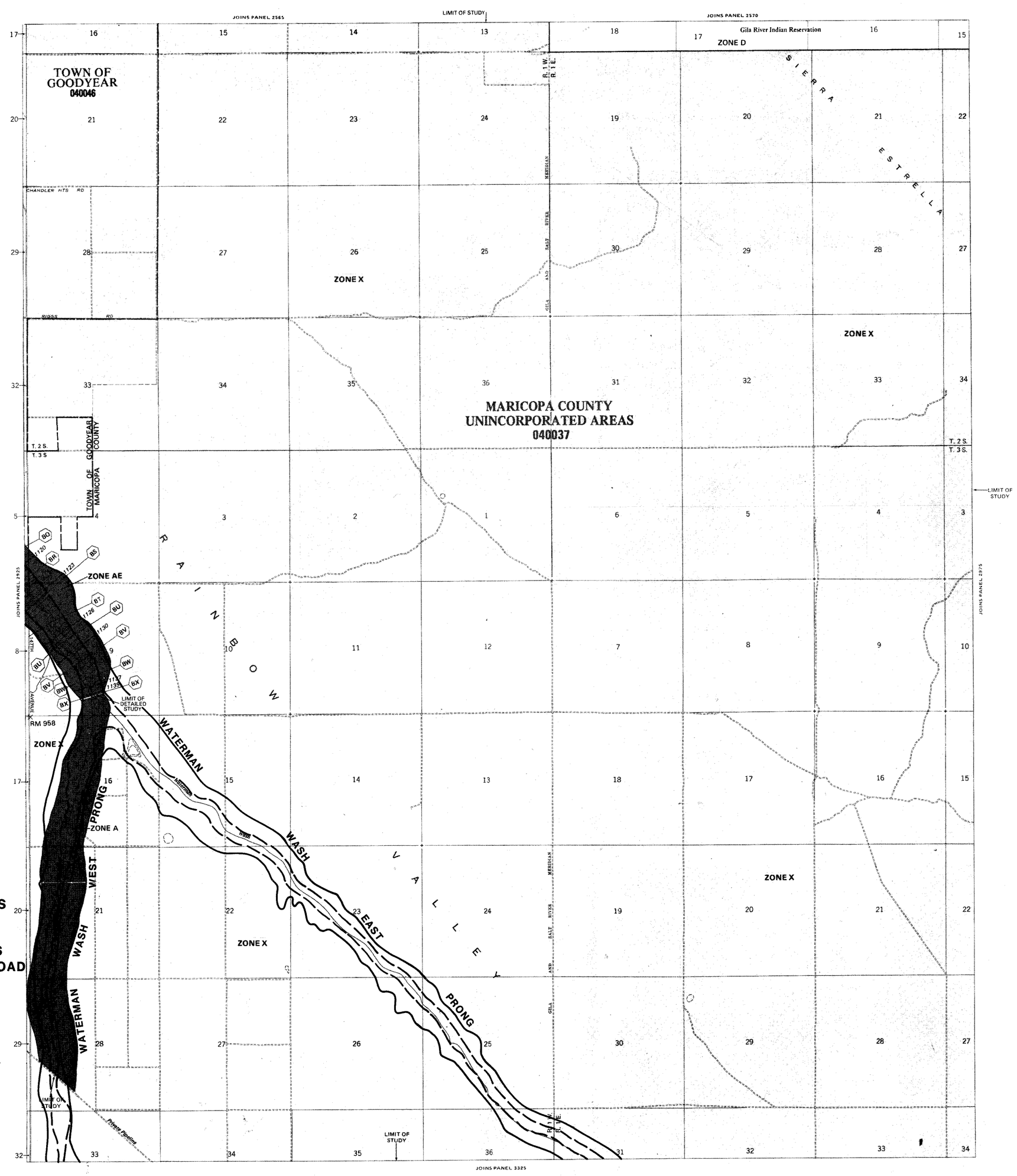
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MOBILE QUADRANGLE
ARIZONA-MARICOPA CO.
15 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS





LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- **ZONE A** No base flood elevations determined.
- **ZONE AE** Base flood elevations determined.
- **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- **ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
- **ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- **ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- **ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

- **ZONE X** Areas determined to be outside 500-year flood plain.
- **ZONE D** Areas in which flood hazards are undetermined.

Flood Boundary

Floodway Boundary

Zone D Boundary

Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

513 — Base Flood Elevation Line; Elevation in Feet*

D — D — Cross Section Line

(EL 987) — Base Flood Elevation in Feet Where Uniform Within Zone*

RM7 X — Elevation Reference Mark

*Referenced to the National Geodetic Vertical Datum of 1929

NOTES

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside Special Flood Hazard Areas.

Areas of special flood hazard (100-year flood) include Zones A, A1-30, AE, AH, AO, A99, V, V1-30 AND VE.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Floodway widths are provided in the Flood Insurance Study Report.

Coastal base flood elevations apply only landward of the shoreline.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of the map.

For community map revision history prior to countywide mapping, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels see separately printed Map Index.

MAP REPOSITORY
Refer to Repository Listing on Index Map

EFFECTIVE DATE OF
COUNTYWIDE FLOOD INSURANCE RATE MAP:
APRIL 15, 1988

EFFECTIVE DATE (S) OF REVISION (S) TO THIS PANEL:
Map revised September 4, 1991 to update corporate limits, to change base flood elevations, to add base flood elevations, to add special flood hazard areas, to change special flood hazard areas, to change zone designations, to update map format, to add roads and road names and to incorporate previously issued letter of map revision.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.

N

APPROXIMATE SCALE IN FEET
2000 0 2000

ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FT. NGVD)	DESCRIPTION OF LOCATION
RM957	1,119.72	3.5" diameter brass cap stamped Department of Interior Elevation 1,120 feet Above Sea Level B 66A, southeast corner of intersection Bidard Road and unnamed dirt road, 78 feet east and 79 feet south of corner of Sections 4, 5, 8 and 9, T3S, R3W
RM958	1,116.84	3.5" brass cap flattened near angle point of overhead power line running southeast to northwest approximately 150 feet northwest of power pole, approximately 100 feet east of dirt road, close to corner of Sections 8, 9, 16 and 17, T3W, R1W stamped 5B. Department of Interior B 70GR Elevation 1,147 feet Above Sea Level 1,973 Geological Survey

STANLEY CONSULTANTS
WATERMAN WASH FIS
UPPER WATERSHED
EAST AND WEST PRONGS
AND SOUTHERN PACIFIC RAILROAD
REVISED AUGUST 1991

PROPOSED FLOODPLAIN AND FLOODWAY LIMITS

LEGEND

FLOODPLAIN LIMIT

FLOODWAY LIMIT

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 2950 OF 4350

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY, UNINCORPORATED AREAS	040037	2950	E
TOWN OF GOODYEAR	040046	2950	E

MAP NUMBER
04013C2950 E

MAP REVISED:
SEPTEMBER 4, 1991

Federal Emergency Management Agency