TECHNICAL DATA NOTEBOOK

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VOLUME 2

CAVE CREEK BELOW CAREFREE HIGHWAY FIS

FLOODPLAIN DELINEATION STUDY

FOR

FLOOD CONTROL DISTRICT OF

MARICOPA COUNTY

F.C.D. Contract No. 95-30

WILLDAN ASSOCIATES

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June 20, 1997

Project No. 08855

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SECTION 4

CAVE CREEK BELOW CAREFREE HIGHWAY FIS FLOODPLAIN DELINEATION STUDY FOR FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

SECTION 4: HYDRAULIC ANALYSIS

4.1 Method Description

The water surface model used for the hydraulic analysis was the U.S. Army Corps of Engineers HEC - 2 Generalized Computer Program version 4.6.2 issued in May 1991.

The downstream end of the watercourse is inundated by the pool from Cave Buttes Dam. Normal depth at Section A of the model was assumed. The water surface profile was the calculated upstream until it intersected the pool elevation from the dam. Below this point the pool elevation governs the water surface. Above this point the calculations govern the water surface.

4.2 Parameter Estimation

4.2.1 Mannings N Value

The Mannings roughness coefficients were established using the methodology described in Estimated Manning's Roughness Coefficients for Stream Channels and Flood Plains in Maricopa County, Arizona. A detailed Mannings N report was prepared and submitted under a separate cover.

4.2.2 Expansion and Contraction Coefficients

The expansion and contraction coefficients are 0.3 and 0.1 as recommended by the HEC 2 users manual. These coefficients are consistent with the north area Cave Creek HEC 2 model.

4.2.3 Hydraulic Jump/Drop Analysis

The Carefree Highway bridge constriction forces the flows into the supercritical regime. After the bridge the cross sections expand significantly forcing a hydraulic jump. This jump occurs between Sections 29.663 and 29.710 of the model. For the purposes of the flood plain delineation, the down stream backwater depth was carried to the downstream side of the bridge. To analyze the hydraulic jump in more detail, we took the HEC-2 run and imported this into HEC-RAS. HEC-RAS has the ability to analyze subcritical, supercritical, and mixed flow regime calculations from one data set.

The HEC-RAS subcritical run was compared to the HEC-2 subcritical run and was found to be comparable. The subcritical and mixed flow HEC-RAS runs were compared and the subcritical run was found to be the controlling run. The mixed flow regime will show a more realistic (lower) water surface elevation, but FEMA likes to use the subcritical rn in these cases because it shows a higher water surface. Therefore, the HEC-2 subcritical run was used.

4.3 Cross-Section Description

4.3.1 Channel and Overbank

All cross sections used in the model are enclosed with the modeling data. These sections show channel and overbank as well as Mannings data for the entire channel.

4.3.2 Bridge or Constriction

The cross sections for the bridge have been included in the above referenced data. The calculated water surface did not impinge on the soffit of the bridge so the soffit and road profile information were not included.

4.3.3 Grade Control Structures

There are no grade control structures in this reach of Cave Creek.

4.4 Calibration

There is a gaging station near the power line crossing on the east bank of the creek. This station has not been in operation for several years. Due to the non rigid boundary of the cross section at the station, the previously developed stage-discharge relation for the station would no longer be accurate for the current stream configuration.

4.5 Special Problems/Solutions

4.5.1 Ineffective Areas

Sections 25.458, 25.519, 25.646 and 25.699 contained pits excavated by the gravel operation. These pits were eliminated from the two cross sections in that they artificially increased the flow area and caused an adverse slope in the bottom profile.

Two additional ineffective areas were encountered in the creek: immediately downstream of Carefree Highway Bridge and on the left bank between Section 25.458 and 25.919. The bridge was designated as ineffective areas due to the rapid expansion of the banks. The area between Sections 25.458 and 25.919 has a berm that does not meet FEMA freeboard requirements and is an ineffective flow area. Therefore, this area was shown as ponded, but not included in the stream cross section.

4.6 Floodway Modeling

The equal encroachment method (method 4) was used as an initial trial . This method was deemed inappropriate due to the presence of the high steep bank on the east side of the river. Method 1 was then used to established to the floodway. Engineering judgement to smooth the floodway to a consistent width was then used for each area in the channel.

4.7 Final Results/Computer Runs

Full input, detailed output runs, and profile have been included in the data submittal.

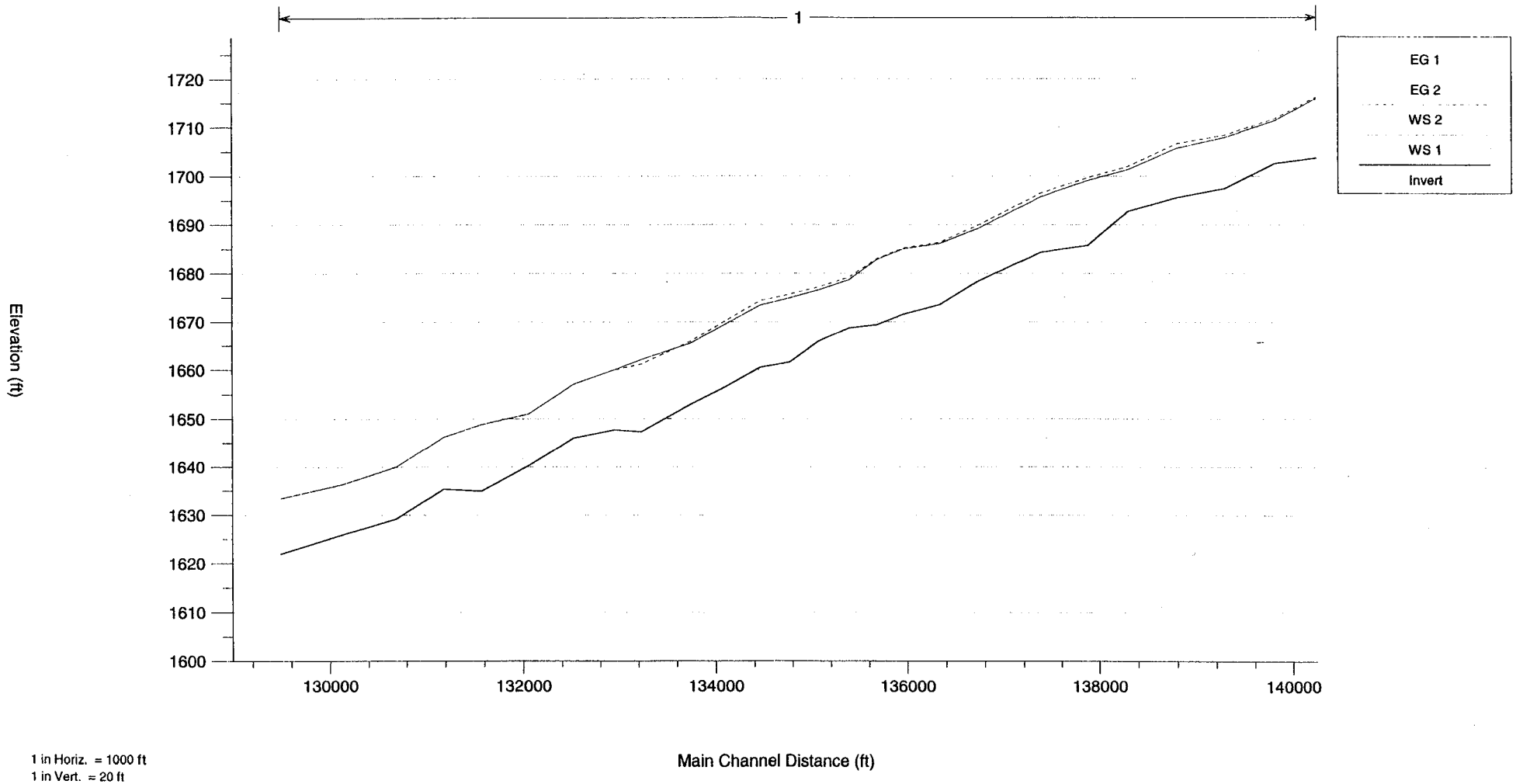
4.8 Harris-Toups (1978) Results

Harris-Toups Associates performed a HEC-2 model in 1978 on an earlier HEC-2 version and on a different datum. The 1978 model was run on HEC-2, 1990 version 4.0 and them the datum was increased by 0.47 feet to bring it to the datum used in the Willdan Associates model. There are only 15 cross sections pertaining to the Willdan Associates model. Of these the variations are within a foot plus or minus compared with the new model.

4.9 Final Diskettes

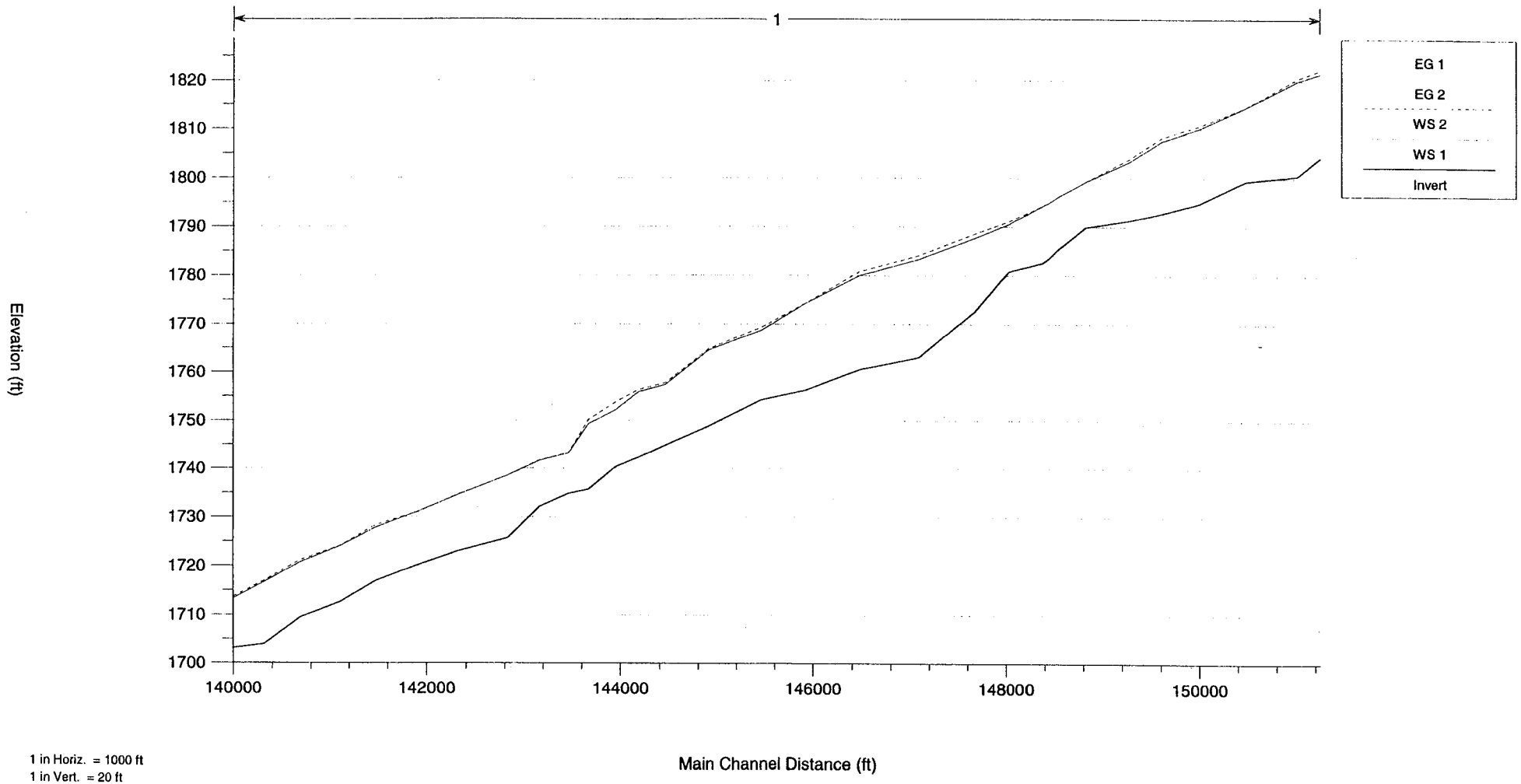
Electronic files including input and output are included with the data.

Cave Creek Wash below carefree hwy



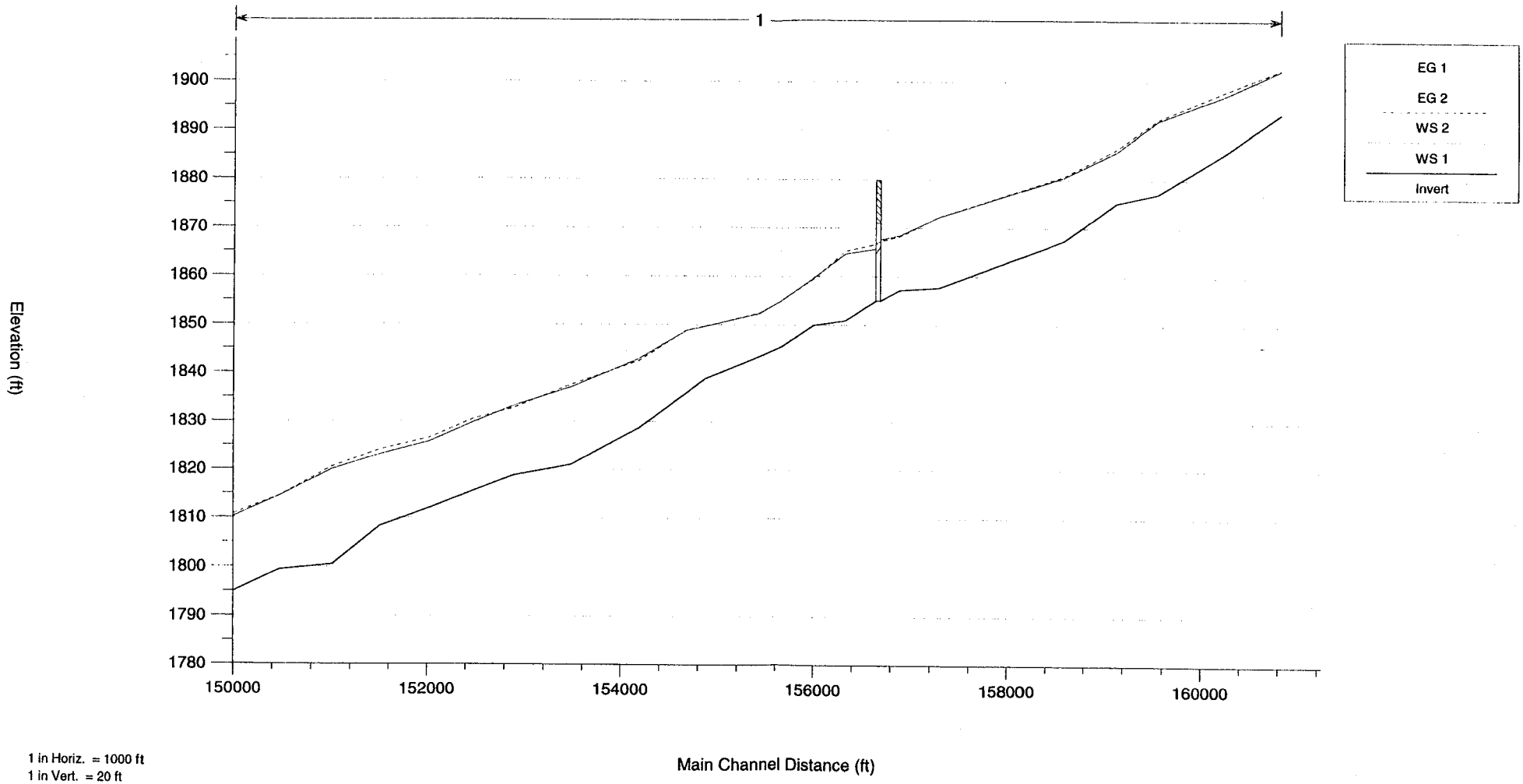
1 in Horiz. = 1000 ft
1 in Vert. = 20 ft

Cave Creek Wash below carefree hwy



1 in Horiz. = 1000 ft
1 in Vert. = 20 ft

Cave Creek Wash below carefree hwy



1 in Horiz. = 1000 ft
1 in Vert. = 20 ft

WILLDAN

HEC-2 MODEL

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*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    18JUN97    TIME   02:15:48 *
*******************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
****************************************
```

```
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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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THIS RUN EXECUTED 18JUN97 02:15:48

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************
```

T1 COUNTY OF MARICOPA, AZ FLOOD INSURANCE RESTUDY
T2 ANALYSIS BASED ON CONDITIONS FOUND AUGUST 1996
T3 CAVE CREEK
CROSS SECTIONS PER AERIAL SURVEY
FILE NAME CAVECRK.DAT CALC BY: K. KRIEGER REV 12/19/96

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0.003	0	0	0	1632	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1	0	0	0	-1	0	0	15

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

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QT	2	38200	38200		

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GR   1645.0   8766.4   1645.0   8783.5  1643.6  8787.0  1644.6  8803.9  1642.4  8809.9
GR   1646.0   8823.5   1643.6   8878.3  1641.3  8880.6  1641.6  8905.4  1643.0  8912.0
GR   1640.2   8929.6   1641.7   9059.1  1641.0  9087.8  1641.2  9124.3  1642.7  9143.5
GR   1642.5   9180.8   1641.4   9199.0  1648.7  9223.1  1647.3  9248.1  1646.9  9294.1
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GR	1647.8	9311.5	1646.9	9355.3	1644.0	9364.6	1644.4	9372.7	1646.5	9382.7
GR	1647.4	9445.1	1646.4	9456.0	1648.3	9476.2	1649.3	9555.9	1650.4	9687.1
GR	1647.5	9734.1	1649.0	9745.5	1648.8	9770.2	1647.4	9776.5	1646.5	9818.2
GR	1644.0	9823.9	1645.2	9848.6	1648.0	9869.0	1646.9	9935.5	1647.5	9964.9
GR	1644.5	9975.0	1643.9	10000.0	1642.5	10006.6	1642.7	10019.8	1652.2	10037.7
GR	1654.3	10149.5	1656.8	10163.8	1656.7	10228.1	1657.7	10311.7	1659.2	10370.0
GR	1658.7	10380.2	1659.7	10385.8	1660.3	10508.2	1660.4	10543.5	1660.4	10549.3
GR	1660.4	10550.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NH	3	.08	9346.0	.025	9430.5	.12	10341.2			
	SECTION NO. G									
X1	25.099	97	9346.0	9430.5	430	530	470			
GR	1658.0	8593.8	1653.0	8725.0	1655.0	8775.0	1652.0	8820.0	1655.0	8880.0
GR	1656.0	8902.4	1654.8	8914.0	1648.2	8923.1	1647.6	8947.9	1649.3	8959.0
GR	1650.6	8988.0	1650.4	8994.8	1649.1	9011.4	1651.2	9029.0	1650.7	9064.3
GR	1650.9	9070.4	1649.8	9080.4	1651.2	9091.8	1651.5	9112.7	1650.7	9150.2
GR	1652.0	9170.3	1649.0	9209.7	1649.0	9215.4	1651.3	9234.1	1651.4	9242.9
GR	1652.4	9259.9	1651.3	9267.2	1652.5	9283.7	1652.5	9327.5	1652.0	9336.8
GR	1652.0	9346.0	1646.9	9367.6	1646.2	9387.8	1646.0	9395.9	1646.0	9409.8
GR	1649.2	9416.0	1650.8	9430.5	1650.5	9435.8	1651.3	9441.6	1652.0	9458.6
GR	1652.1	9468.4	1652.6	9490.1	1652.7	9497.2	1651.6	9515.2	1650.0	9558.3
GR	1648.1	9571.1	1648.2	9578.8	1650.6	9591.2	1652.3	9608.0	1650.8	9644.5
GR	1653.1	9662.4	1652.5	9730.6	1652.4	9735.4	1650.6	9742.7	1650.3	9748.7
GR	1650.4	9757.9	1653.2	9838.9	1652.7	9859.1	1652.5	9868.9	1651.0	9876.9
GR	1651.7	9887.2	1651.7	9904.9	1651.4	9919.5	1651.0	9928.8	1652.1	9936.8
GR	1651.3	9941.9	1648.4	9951.4	1648.9	9960.9	1649.3	9971.1	1649.4	9982.9
GR	1649.1	9991.2	1648.2	10000.0	1648.6	10008.0	1648.9	10015.4	1651.3	10024.3
GR	1653.0	10032.0	1653.5	10041.4	1653.9	10048.6	1654.4	10063.9	1654.4	10069.1
GR	1654.0	10087.5	1653.5	10094.2	1650.9	10100.6	1651.2	10104.0	1652.8	10111.3
GR	1652.8	10127.5	1654.1	10146.3	1654.2	10155.8	1654.9	10167.0	1655.0	10211.1
GR	1654.9	10219.9	1652.7	10225.1	1654.4	10229.6	1655.4	10254.6	1653.4	10292.9
GR	1654.8	10301.5	1659.9	10341.2						
NH	3	.08	9306.6	.025	9387.0	.12	10537.3			
	SECTION NO. H									
X1	25.180	69	9213.5	9387.0	500	430	430			
GR	1665.8	8629.4	1657.3	8720.9	1659.0	8743.1	1660.4	8779.6	1660.4	8859.3
GR	1660.5	8905.9	1656.3	8960.7	1658.4	8986.1	1658.0	9017.0	1652.0	9047.1
GR	1652.0	9057.1	1653.4	9065.1	1654.4	9144.5	1652.9	9161.8	1652.0	9200.6
GR	1654.5	9213.5	1654.1	9262.6	1651.1	9306.6	1647.8	9319.4	1647.7	9353.2
GR	1653.4	9371.6	1653.8	9387.0	1652.6	9403.9	1655.1	9413.7	1656.2	9490.2
GR	1654.9	9515.2	1653.5	9522.0	1655.5	9544.3	1655.7	9581.6	1654.1	9597.0
GR	1655.9	9633.5	1654.6	9660.4	1655.1	9698.9	1651.5	9707.3	1651.7	9717.8
GR	1654.4	9725.7	1653.5	9749.7	1653.0	9785.9	1652.1	9814.3	1655.3	9830.6
GR	1655.4	9894.7	1654.3	9911.5	1656.2	9924.2	1656.1	9944.4	1654.3	9955.6
GR	1654.3	9969.6	1656.0	9978.6	1654.8	9986.8	1650.4	10000.0	1650.8	10046.2
GR	1653.4	10057.5	1652.0	10064.2	1649.6	10072.4	1649.9	10076.1	1653.0	10082.0
GR	1651.1	10097.1	1654.4	10114.0	1654.6	10135.8	1658.1	10157.7	1658.0	10214.9
GR	1656.9	10240.1	1658.1	10265.0	1657.3	10356.6	1656.5	10390.4	1657.3	10430.2
GR	1654.4	10435.3	1656.1	10447.7	1658.4	10474.4	1661.8	10537.3	0.0	0.0

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NH      4       .08     9131.9     .025     9289.5     .035     9341.1      .12    10475.2
ET                      9.1                                                         8750     10400
        SECTION NO. I
X1   25.233        66   9228.6    9383.8       390      180       280
GR   1664.2    8536.3   1663.9    8595.2    1660.9   8692.2    1658.6    8798.9    1658.1    8854.9
GR   1656.2    8987.4   1658.8    9021.1    1659.7   9057.1    1660.4    9131.9    1658.7    9192.7
GR   1659.6    9228.6   1659.1    9274.5    1653.0   9289.5    1647.3    9290.8    1647.3    9296.1
GR   1648.9    9301.1   1650.3    9327.4    1655.3   9341.1    1656.0    9383.8    1654.9    9408.4
GR   1656.1    9418.4   1655.7    9471.9    1657.3   9484.7    1657.0    9548.0    1656.0    9559.0
GR   1657.7    9570.0   1657.2    9608.2    1656.2   9622.6    1656.4    9634.3    1658.2    9647.4
GR   1657.4    9707.8   1654.8    9728.7    1656.8   9738.7    1655.8    9748.3    1657.6    9769.4
GR   1656.7    9778.2   1655.5    9784.7    1657.5   9803.8    1657.4    9881.0    1656.0    9898.6
GR   1657.1    9908.4   1654.4    9924.8    1656.1   9935.3    1656.7    9956.8    1653.9    9994.4
GR   1652.0   10000.0   1652.0   10034.7    1657.4  10047.9    1656.8   10061.7    1655.4   10070.0
GR   1656.6   10089.5   1654.0   10118.4    1657.0  10139.2    1656.5   10155.7    1652.5   10163.6
GR   1652.6   10169.9   1656.7   10179.7    1657.4  10221.7    1653.7   10235.2    1655.4   10247.3
GR   1655.8   10283.7   1658.2   10303.2    1658.6  10429.1    1659.1   10448.8    1661.5   10459.3
GR   1663.9   10475.2

NH      5       .08     8744.2       .06     8973.8       .08     9335.1     .035     9472.3       .12
NH  10607
QT      2     36800    36800
ET                      9.1                                                         9180     10260
        SECTION NO. J
X1   25.326        75   9335.1    9497.8       490      480       510
GR   1670.2    8246.1   1669.4    8255.2    1670.9   8266.5    1672.1    8297.1    1673.3    8343.8
GR   1671.7    8389.0   1669.2    8424.0    1666.4   8430.5    1668.1    8440.6    1671.3    8479.9
GR   1670.6    8493.1   1672.8    8517.2    1672.4   8600.7    1672.6    8654.5    1665.8    8744.2
GR   1667.0    8749.6   1669.2    8781.0    1673.3   8824.1    1677.1    8852.3    1677.4    8876.6
GR   1667.7    8973.8   1666.5    9070.8    1665.5   9175.1    1661.1    9242.1    1661.3    9271.8
GR   1660.7    9288.1   1661.4    9294.1    1661.5   9335.1    1657.2    9365.7    1653.2    9380.4
GR   1653.0    9390.5   1657.2    9416.8    1657.0   9450.5    1655.9    9462.4    1659.0    9472.3
GR   1661.1    9497.8   1660.8    9532.7    1659.8   9542.3    1662.5    9560.1    1661.9    9577.0
GR   1660.1    9592.2   1662.9    9612.1    1663.6   9698.9    1662.0    9710.1    1663.4    9720.7
GR   1663.8    9758.0   1662.5    9788.6    1661.6   9855.4    1662.5    9861.2    1662.2    9900.1
GR   1659.7    9912.0   1658.9    9952.9    1660.5   9968.6    1659.2    9988.9    1656.4   10000.0
GR   1656.5   10023.8   1660.3   10032.1    1660.6  10083.3    1657.8   10090.9    1660.8   10107.5
GR   1661.0   10151.4   1660.9   10178.5    1657.8  10187.9    1657.7   10204.3    1661.5   10221.8
GR   1659.0   10242.5   1658.9   10267.3    1656.4  10281.7    1661.5   10296.8    1660.3   10348.3
GR   1658.9   10399.4   1661.2   10407.9    1664.2  10513.8    1666.3   10530.4    1669.0   10607.0

NH      3       .08     9527.0     .035     9606.3       .12    11006.3
ET                      9.1                                                         9330     10450
        SECTION NO. K
X1   25.388        59   9467.9    9606.3       350      370       360
GR   1677.1    8689.2   1676.8    8788.6    1674.2   8853.0    1672.3    8887.4    1673.7    8896.2
GR   1674.4    8971.0   1679.5    9076.0    1678.8   9115.7    1668.5    9235.4    1666.0    9296.8
GR   1665.6    9300.1   1666.4    9305.1    1665.3   9327.8    1666.1    9341.3    1666.4    9409.0
GR   1665.9    9467.9   1661.5    9527.0    1656.6   9546.6    1659.9    9588.2    1660.5    9606.3
GR   1663.8    9625.3   1666.0    9644.5    1664.6   9663.0    1662.3    9674.7    1664.8    9687.9
GR   1665.2    9704.0   1666.5    9725.8    1663.3   9741.8    1663.6    9750.6    1666.8    9766.0
GR   1665.9    9777.3   1664.7    9782.0    1664.9   9798.3    1665.4    9857.4    1666.5    9872.6
GR   1666.1    9918.6   1665.0   10000.0    1672.8  10025.6    1666.3   10037.1    1665.2   10057.4
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GR   1666.1   10100.7   1664.3   10236.5   1665.2   10260.5   1664.2   10295.4   1662.9   10306.6
GR   1664.8   10361.6   1665.9   10366.9   1665.4   10377.3   1666.4   10490.2   1662.5   10516.0
GR   1662.2   10564.3   1663.3   10578.8   1660.1   10602.9   1660.4   10629.9   1663.8   10644.1
GR   1665.5   10675.8   1672.2   10759.6   1674.1   10876.7   1674.2   11006.3

NH       3      .025   9616.3      .035   9654.9       .08   11145.0
ET                      9.1                                              9581     10830
         SECTION NO. L
X1  25.458        53   9942.1   10008.7       390       380       360
GR   1679.6    8918.1   1679.6    8934.3   1678.4    8958.3   1678.6    9003.5   1682.4    9093.4
GR   1686.7    9170.5   1688.6    9320.7   1687.7    9328.9   1686.8    9383.5   1688.0    9392.0
GR   1686.3    9398.5   1683.8    9487.5   1677.1    9528.9   1672.1    9600.5   1663.6    9616.3
GR   1663.2    9654.9   1666.0    9660.4   1666.4    9722.2   1667.8    9749.5   1666.5    9760.6
GR   1668.1    9780.5   1669.2    9825.6   1667.7    9883.2   1675.4    9898.3   1668.1    9916.8
GR   1666.8    9934.3   1669.3    9942.1   1665.7    9952.8   1665.5   10000.0   1668.5   10008.7
GR   1667.2   10018.0   1669.1   10067.1   1664.9   10140.9   1678.5   10166.8   1669.1   10180.9
GR   1668.0   10190.0   1668.0   10265.3   1668.0   10286.4   1668.0   10351.4   1668.0   10480.0
GR   1668.1   10558.9   1667.8   10573.8   1670.2   10583.4   1665.9   10601.9   1669.5   10794.7
GR   1664.6   10819.1   1664.3   10867.0   1667.1   10899.0   1667.1   10913.4   1664.1   10937.8
GR   1660.5   10966.1   1673.9   10989.1   1677.6   11145.0

NH       4      .025   9663.3       .12   9970.0      .038   10135.8       .08   11086.4
ET                      9.1                                              9571     10750
         SECTION NO. M
X1  25.519        31   9970.0   10058.9       450       290       310
GR   1678.0    9567.7   1664.3    9579.3   1665.2    9600.7   1667.7    9618.8   1667.9    9646.6
GR   1669.9    9663.3   1670.4    9770.3   1671.4    9836.4   1671.7    9882.0   1670.2    9898.3
GR   1672.1    9915.1   1672.4    9946.0   1670.0    9970.0   1668.3   10000.0   1670.1   10058.9
GR   1672.2   10101.0   1670.6   10120.2   1674.5   10135.8   1671.6   10154.1   1671.5   10186.1
GR   1670.6   10394.1   1670.5   10492.4   1670.7   10616.3   1671.1   10795.5   1664.0   10831.1
GR   1669.6   10872.3   1667.9   10940.0   1661.6   10957.3   1661.6   10970.3   1675.6   10993.4
GR   1679.2   11086.4

NH       7      .025   9637.3       .08   9782.5      .035   9855.4       .12   10000.0      .038
NH   10089      .025   10818.6      .08   11091.7
ET                      9.1                                              9639     10790
         SECTION NO. N
X1  25.580        35   9974.4   10089.0       320       290       300
GR   1678.0    9635.1   1677.0    9637.3   1666.3    9661.5   1666.5    9670.6   1671.3    9683.4
GR   1671.6    9704.7   1669.6    9782.5   1668.1    9805.8   1668.5    9833.8   1671.8    9855.4
GR   1674.1    9974.4   1668.9   10000.0   1670.8   10089.0   1679.6   10107.7   1673.7   10121.5
GR   1673.7   10276.2   1674.3   10346.8   1673.5   10453.1   1672.9   10517.8   1672.2   10547.0
GR   1672.9   10606.7   1673.9   10625.8   1675.8   10732.4   1674.2   10818.6   1668.1   10839.4
GR   1668.3   10849.9   1670.4   10867.2   1669.9   10895.8   1667.3   10935.7   1665.9   10962.4
GR   1666.8   10972.5   1670.0   10985.9   1675.5   11000.5   1680.6   11066.1   1681.2   11091.7

NH       8       .03   9535.3      .025   9554.9       .08   9668.3      .025   9731.3       .08
NH   9926.6      .038   10030.5     .025   10774.8      .12   11189.1
ET                      9.1                                              9540     10760
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          SECTION NO. O
X1   25.644       35    9908.8   10030.5     360     280     320
GR   1680.0    9535.3   1672.9    9554.9  1668.7  9604.7  1674.6  9620.5  1675.1  9668.3
GR   1671.6    9694.7   1672.2    9704.8  1672.4  9731.3  1675.7  9744.1  1677.2  9767.4
GR   1675.7    9804.1   1676.6    9908.8  1669.8  9926.6  1670.1 10000.0  1670.1 10013.5
GR   1675.2   10030.5   1677.3   10061.5  1676.6 10119.8  1678.8 10141.2  1678.6 10246.3
GR   1677.6   10388.7   1677.1   10485.4  1676.7 10586.1  1677.8 10633.0  1676.6 10683.4
GR   1677.8   10719.7   1672.7   10756.9  1674.2 10774.8  1672.0 10825.0  1669.3 10861.2
GR   1676.8   10895.7   1676.5   10968.6  1675.5 11020.2  1682.8 11094.3  1683.6 11189.1

NH       6       .08   9578.3       .022  9578.3    .025  9602.0     .12  9886.9    .025
NH   10714       .12  11129.5
ET                        9.1                                            9583.8 10789.8
          SECTION NO. P
X1   25.699       30    9886.9   10033.0     290     290     290
GR   1683.7    9578.3   1673.8    9602.0  1671.6  9630.7  1674.4  9651.5  1675.0  9710.2
GR   1677.4    9731.2   1678.6    9798.1  1677.9  9886.9  1671.6  9909.8  1670.0  9979.8
GR   1669.4   10000.0   1672.4   10005.6  1673.1 10026.9  1678.4 10033.0  1681.5 10222.9
GR   1681.3   10350.6   1680.2   10532.0  1679.8 10714.0  1678.2 10743.5  1672.4 10763.6
GR   1673.2   10772.3   1671.9   10787.2  1674.6 10800.7  1672.1 10826.9  1675.7 10839.4
GR   1675.7   10866.7   1678.6   10880.3  1679.2 10970.2  1680.4 11082.9  1685.1 11129.5

NH       9       .08   9577.4       .025  9588.3     .12  9977.4     .04    10041     .12
NH   10144      .035  10233.2       .025 10824.7     .12 11069.3     .08    11483
ET                        9.1                                             9578  10950
          SECTION NO. Q
X1   25.750       49    9925.3   10061.9     270     280     280
GR   1686.2    9574.2   1684.2    9577.4  1677.3  9588.3  1677.2  9602.8  1678.2  9608.9
GR   1678.4    9649.3   1679.6    9658.4  1677.4  9680.9  1680.3  9706.0  1680.1  9746.5
GR   1680.2    9765.4   1679.6    9804.2  1678.1  9826.0  1679.7  9835.7  1679.6  9845.9
GR   1678.4    9850.5   1680.3    9864.7  1682.0  9925.3  1675.5  9973.2  1671.6  9977.4
GR   1672.1   10000.0   1673.0   10041.0  1681.9 10061.9  1682.4 10085.9  1680.2 10144.0
GR   1677.4   10156.0   1674.9   10176.5  1674.5 10219.7  1678.7 10233.2  1680.6 10250.1
GR   1681.5   10292.9   1684.2   10435.2  1684.7 10518.7  1682.8 10668.2  1679.8 10824.7
GR   1675.2   10841.6   1675.3   10869.3  1678.7 10881.2  1678.8 10897.6  1679.6 10923.8
GR   1680.5   10960.0   1679.4   11003.7  1678.0 11058.5  1681.2 11069.3  1682.8 11178.7
GR   1686.9   11266.2   1687.5   11357.1  1688.7 11434.0  1688.6 11483.0

NH      10      .022   9644.8       .08  9989.1     .04 10077.6     .12 10237.3     .035
NH   10356       .12  10470.6      .035 10546.5     .08 10965.7    .025 11026.3       .08
NH   11456
ET                        9.1                                             9627  11100
          SECTION NO. R
X1   25.843       97    9882.4   10077.6     540     210     370
GR   1698.3    9623.8   1682.9    9627.6  1678.7  9644.8  1684.2  9666.2  1682.9  9716.1
GR   1685.7    9774.4   1682.3    9791.2  1683.1  9802.1  1682.5  9806.8  1685.1  9818.7
GR   1685.6    9830.2   1685.9    9842.0  1684.9  9854.3  1685.7  9861.5  1686.0  9870.4
GR   1686.1    9882.4   1685.8    9891.5  1682.4  9923.5  1679.7  9979.1  1676.2  9989.1
GR   1673.9   10000.0   1673.7   10010.1  1673.6 10018.4  1673.5 10028.2  1674.1 10032.2
GR   1674.4   10041.9   1685.5   10077.6  1684.1 10141.7  1684.1 10160.1  1685.2 10187.0
GR   1684.0   10189.9   1685.1   10200.1  1684.6 10219.1  1682.3 10237.3  1678.2 10245.0
GR   1678.1   10248.3   1679.0   10253.2  1679.1 10262.6  1679.5 10274.0  1680.0 10284.3
GR   1680.1   10301.0   1676.7   10338.8  1682.8 10356.0  1684.8 10367.7  1684.8 10374.5
GR   1683.7   10398.1   1682.5   10470.6  1682.5 10493.1  1683.2 10499.9  1679.7 10519.8
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GR   1679.8   10522.9   1681.2   10526.1   1681.8   10534.2   1684.2   10546.5   1685.2   10583.0
GR   1685.1   10591.3   1683.1   10612.5   1683.0   10618.1   1683.7   10622.1   1683.0   10626.2
GR   1683.6   10631.9   1684.3   10653.9   1685.2   10661.2   1685.9   10669.7   1686.2   10677.2
GR   1686.2   10698.5   1683.4   10909.7   1683.5   10912.8   1684.2   10918.3   1684.3   10924.9
GR   1683.7   10945.7   1685.0   10965.7   1681.9   10979.2   1675.8   10989.6   1675.9   10995.3
GR   1676.1   11000.8   1675.9   11008.1   1676.2   11011.8   1682.7   11026.3   1683.4   11033.3
GR   1684.2   11109.4   1683.2   11157.4   1683.3   11171.8   1683.2   11186.2   1682.7   11199.4
GR   1678.9   11211.5   1679.2   11219.1   1682.2   11227.6   1683.8   11233.3   1684.3   11240.7
GR   1684.7   11278.4   1684.9   11290.6   1687.4   11332.1   1690.6   11365.0   1690.7   11384.4
GR   1690.2   11416.2   1690.2   11456.0

NH      10       .08   9704.8      .065   9857.9      .045   10039.1      .12   10257.0      .035
NH   10362       .08   10625.2     .035   10835.0     .08    11175.7      .025  11338.8      .08
NH   11561
ET                         9.1                                                   9693       11150
          SECTION NO. S
X1   25.919       97   9857.9   10039.1      450       310       400
GR   1694.2   9686.7   1683.7   9698.8   1683.0   9704.8   1683.8   9711.8   1688.6   9733.6
GR   1684.6   9756.0   1686.9   9769.8   1687.7   9778.5   1688.7   9794.3   1688.9   9803.7
GR   1690.3   9857.9   1690.2   9864.9   1686.4   9902.3   1686.3   9909.2   1684.4   9921.8
GR   1685.0   9927.5   1685.1   9937.3   1680.8   9956.5   1680.4   9961.6   1680.5   9964.9
GR   1679.7   9970.9   1678.9   9980.4   1678.5   9987.9   1678.4   10000.0  1678.4   10007.5
GR   1678.8   10014.7  1679.3   10019.3  1681.0   10022.9  1687.1   10034.0  1689.8   10039.1
GR   1689.1   10046.9  1688.2   10072.2  1687.8   10095.7  1688.3   10104.8  1688.2   10120.8
GR   1687.8   10126.1  1686.7   10131.2  1685.3   10136.7  1685.4   10143.4  1686.6   10152.9
GR   1687.7   10159.2  1687.6   10214.0  1687.4   10220.9  1687.3   10226.7  1681.8   10246.9
GR   1683.1   10257.0  1680.5   10289.3  1680.4   10293.4  1682.5   10298.9  1685.8   10305.9
GR   1686.7   10318.5  1686.5   10326.7  1686.8   10345.6  1688.3   10362.0  1687.7   10366.4
GR   1687.1   10561.0  1687.4   10569.9  1685.6   10617.0  1685.5   10625.2  1685.0   10631.6
GR   1683.6   10639.5  1683.3   10644.4  1683.3   10647.4  1685.7   10656.5  1685.9   10662.4
GR   1684.8   10685.4  1686.2   10705.2  1685.9   10711.2  1687.1   10718.3  1686.2   10726.1
GR   1686.2   10733.8  1684.4   10742.9  1687.4   10756.9  1688.1   10767.4  1688.7   10776.6
GR   1687.8   10792.4  1688.2   10801.6  1688.9   10835.0  1689.9   10930.2  1689.9   10953.9
GR   1687.2   11087.9  1687.5   11095.6  1687.9   11105.1  1688.5   11142.7  1688.0   11160.0
GR   1687.8   11175.7  1686.0   11194.1  1684.2   11200.8  1685.3   11221.4  1684.5   11238.4
GR   1685.3   11244.1  1684.4   11252.4  1685.4   11271.4  1683.3   11289.2  1683.0   11299.0
GR   1689.7   11338.8  1692.0   11561.0

NH       6       .06   9889.6      .022   9944.8      .025   10000.0      .03   10076.8      .022
NH   10240       .12   12220.0
ET                         9.1                                                   9934       11270
          SECTION NO. T
X1   26.044       53   9889.6   10076.8      750       400       650
GR   1717.7   9691.8   1718.1   9743.5   1719.7   9889.6   1717.4   9910.8   1685.0   9944.8
GR   1684.3   10000.0  1691.1   10017.5  1691.8   10045.7  1694.1   10058.4  1694.2   10076.8
GR   1692.7   10109.8  1694.2   10134.3  1693.8   10240.0  1690.9   10270.3  1686.0   10332.0
GR   1689.4   10342.7  1689.0   10372.6  1691.3   10378.5  1692.5   10407.2  1691.5   10424.3
GR   1692.8   10465.5  1692.2   10541.6  1689.6   10574.8  1689.7   10591.8  1691.6   10609.2
GR   1691.8   10748.9  1687.8   10824.9  1689.9   10849.3  1693.9   10865.8  1693.1   10957.0
GR   1693.6   11034.8  1691.3   11097.4  1689.8   11180.3  1691.0   11196.2  1690.3   11249.8
GR   1689.0   11264.5  1690.3   11279.7  1691.7   11302.9  1691.0   11374.7  1686.1   11451.8
GR   1688.3   11458.4  1687.1   11486.8  1687.0   11496.6  1689.5   11507.2  1686.8   11521.6
GR   1688.7   11543.6  1686.7   11555.5  1689.2   11562.9  1692.6   11592.4  1693.7   11660.0
GR   1694.0   11700.0  1696.0   12000.0  1698.0   12220.0
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NH      11       .06    9963.1      .022   10000.0      .035   10054.7      .022   10106.9      .06
NH   10162      .025   10231.1       .08   10317.4       .06   10631.9       .08   11262.3      .12
NH   11536       .08   12465.0
ET                        9.1                                                     9988    11210
          SECTION NO. U
X1   26.137        67    9963.1   10079.0       500       475       495
GR   1724.2    9614.3   1725.3    9786.6    1725.9    9963.1    1685.7   10000.0    1686.6   10024.6
GR   1691.0   10054.7   1704.1   10079.0    1695.9   10106.9    1697.5   10139.1    1690.1   10162.0
GR   1689.9   10197.5   1686.4   10231.1    1700.2   10296.6    1698.9   10317.4    1693.9   10327.0
GR   1695.0   10361.8   1696.6   10379.3    1695.4   10460.7    1694.2   10518.2    1695.5   10560.3
GR   1695.3   10586.9   1701.0   10609.0    1692.3   10631.9    1691.9   10643.6    1694.6   10660.5
GR   1696.7   10744.8   1694.7   10795.2    1694.3   10833.6    1696.8   10841.0    1697.5   10853.8
GR   1696.2   10889.5   1697.5   10938.0    1693.5   10987.1    1695.3   10998.8    1696.0   11030.5
GR   1696.6   11053.5   1695.4   11069.7    1697.2   11082.1    1697.9   11148.8    1694.6   11214.6
GR   1696.9   11262.3   1695.8   11297.9    1694.4   11316.3    1695.8   11330.9    1692.6   11342.3
GR   1692.7   11357.5   1694.3   11363.6    1694.4   11379.7    1691.9   11399.4    1691.9   11418.1
GR   1693.6   11427.6   1693.5   11451.0    1690.6   11474.1    1690.6   11490.6    1693.8   11497.1
GR   1696.4   11536.0   1696.2   11621.4    1694.2   11662.1    1693.6   11733.6    1694.9   11770.6
GR   1697.5   11787.8   1698.4   11923.7    1700.1   11940.2    1699.7   12055.1    1700.3   12167.8
GR   1700.5   12215.7   1702.0   12465.0       0.0       0.0       0.0       0.0       0.0       0.0

NH      13       .06    9889.9      .022    9936.8      .025   10010.6       .06   10111.9      .035
NH   10202      .025   10516.4       .06   10562.5      .025   10622.8       .08   10935.5      .12
NH   11334       .08   11535.4       .12   11769.2       .08   11961.1
ET                        9.1                                                     9931    11050
          SECTION NO. V
X1   26.239        66    9889.9   10111.9       570       340       420
GR   1731.2    9507.6   1731.0    9661.5    1730.5    9796.8    1729.1    9889.9    1726.4    9910.5
GR   1692.8    9936.8   1692.8   10000.0    1697.2   10010.6    1700.0   10026.3    1700.8   10111.9
GR   1695.5   10121.4   1693.3   10144.7    1693.1   10181.6    1699.5   10202.0    1699.3   10258.0
GR   1701.3   10279.3   1702.0   10346.3    1699.1   10433.6    1698.2   10516.4    1705.5   10534.9
GR   1702.8   10555.1   1699.5   10562.5    1699.1   10589.0    1698.1   10622.8    1700.0   10627.5
GR   1700.4   10668.5   1699.7   10720.3    1695.6   10737.6    1696.1   10755.0    1698.4   10763.3
GR   1698.9   10790.0   1697.5   10798.9    1699.5   10818.1    1700.0   10838.9    1698.1   10861.7
GR   1698.1   10872.1   1696.1   10895.3    1695.0   10906.7    1700.5   10935.5    1700.7   11008.5
GR   1699.2   11038.0   1700.2   11055.1    1698.6   11090.0    1699.5   11112.3    1698.8   11136.0
GR   1698.1   11148.5   1699.1   11155.2    1697.7   11208.1    1693.3   11221.8    1693.6   11232.9
GR   1696.2   11238.1   1697.1   11252.7    1697.2   11271.8    1695.3   11287.9    1697.8   11314.1
GR   1699.0   11334.0   1700.0   11449.0    1699.8   11535.4    1699.0   11560.8    1696.2   11615.5
GR   1697.2   11644.3   1695.6   11751.2    1698.9   11769.2    1702.2   11836.2    1703.1   11918.3
GR   1704.3   11961.1

NH       5       .06    9615.6      .022    9701.2      .065   10333.4       .08   11451.6       .06
NH   11833
ET                        9.1                                                     9641    10650
          SECTION NO. W
X1   26.335        52    9615.6   10262.9       495       520       500
GR   1735.5    9299.1   1734.7    9492.8    1730.1    9615.6    1700.0    9645.8    1697.4    9701.2
GR   1696.7    9715.3   1696.7    9771.9    1698.6    9794.1    1698.8    9886.3    1697.1    9892.3
GR   1697.2    9903.3   1698.7    9912.9    1697.4    9947.7    1696.6    9953.9    1695.6   10000.0
GR   1698.8   10024.1   1699.7   10103.3    1698.6   10141.9    1698.9   10190.7    1696.9   10245.8
GR   1706.3   10262.9   1704.2   10271.6    1703.9   10292.9    1702.5   10302.3    1705.6   10333.4
GR   1705.8   10438.8   1702.6   10464.6    1702.8   10574.7    1701.1   10627.4    1704.5   10710.5
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GR   1703.5   10816.3   1702.4   10852.4   1700.5   10868.2   1699.9   10906.9   1701.6   10920.3
GR   1699.2   10938.8   1699.0   10949.1   1704.0   10961.4   1705.3   11033.5   1706.0   11149.0
GR   1705.5   11213.4   1704.2   11298.3   1702.4   11358.3   1702.6   11389.1   1699.2   11435.0
GR   1700.2   11451.6   1705.5   11466.4   1707.8   11486.3   1709.4   11519.8   1708.4   11639.6
GR   1708.3   11729.4   1708.5   11833.0      0.0       0.0       0.0       0.0       0.0       0.0

NH       7       .06   9749.0       .08   9794.4       .04   10240.1      .035   10284.7       .06
NH   10461      .025   10590.9      .08   11593.9
ET                      9.1                                                     9781.12     10750
          SECTION NO. X
X1   26.430        58   9749.0   10284.7     490       520       495
GR   1739.7    9348.0   1736.9    9515.1   1735.3    9637.3   1736.3    9644.4   1736.1    9659.2
GR   1726.7    9749.0   1700.0    9794.4   1700.1    9802.0   1701.3    9805.4   1700.9    9837.5
GR   1699.8    9885.0   1701.1    9896.4   1700.4    9988.3   1700.0   10000.0   1701.0   10044.0
GR   1702.6   10069.8   1702.3   10080.0   1701.8   10154.1   1700.1   10207.0   1697.7   10219.1
GR   1697.5   10240.1   1706.6   10258.3   1706.8   10276.8   1712.4   10284.7   1710.5   10297.2
GR   1711.7   10353.7   1710.5   10461.0   1708.6   10564.4   1707.7   10590.9   1715.9   10604.2
GR   1713.6   10621.8   1708.7   10644.9   1707.2   10681.2   1704.0   10703.5   1706.2   10710.7
GR   1706.6   10734.7   1708.0   10748.8   1709.2   10805.8   1708.8   10836.3   1707.7   10914.2
GR   1709.3   10982.6   1706.0   11021.1   1702.2   11039.4   1704.1   11048.6   1705.0   11072.2
GR   1701.1   11081.8   1700.6   11097.0   1702.7   11102.7   1704.4   11124.2   1704.3   11138.7
GR   1708.1   11184.5   1708.1   11249.2   1706.7   11270.8   1706.8   11296.5   1710.9   11352.0
GR   1712.5   11426.3   1713.3   11525.2   1713.4   11593.9      0.0       0.0       0.0       0.0

NH       7       .08   9469.9       .06   9764.3       .035   9891.7      .025   10149.1      .035
NH   10237      .025   10511.4      .08   11321.1
ET                      9.1                                                     9791.21     10650
          SECTION NO. Y
X1   26.529        58   9764.3   10169.7     530       520       520
GR   1745.1    8861.4   1744.1    9021.3   1741.9    9184.0   1739.6    9245.9   1729.6    9347.6
GR   1729.6    9351.0   1721.5    9430.7   1721.2    9469.9   1719.0    9562.4   1718.7    9613.1
GR   1720.0    9635.4   1718.5    9700.7   1720.0    9731.2   1719.8    9764.3   1709.3    9799.0
GR   1708.5    9827.8   1705.4    9847.3   1708.1    9878.2   1704.8    9891.7   1704.5    9905.4
GR   1702.9    9916.7   1702.6   10000.0   1703.6   10004.0   1703.8   10054.1   1705.3   10089.2
GR   1705.2   10126.1   1703.3   10149.1   1716.0   10169.7   1714.0   10177.6   1713.4   10237.0
GR   1712.2   10373.5   1713.6   10384.6   1711.5   10397.1   1713.8   10453.4   1711.9   10485.2
GR   1713.5   10511.4   1714.4   10550.0   1713.3   10598.1   1712.7   10665.4   1708.3   10683.3
GR   1709.1   10713.3   1710.3   10718.4   1710.4   10750.8   1712.3   10766.7   1710.9   10807.9
GR   1712.2   10824.3   1712.7   10897.0   1712.7   10966.0   1710.3   11000.4   1706.5   11013.6
GR   1706.0   11047.9   1704.8   11071.9   1711.3   11102.6   1711.9   11143.7   1712.5   11188.3
GR   1713.1   11201.5   1714.4   11315.3   1714.4   11321.1      0.0       0.0       0.0       0.0

NH       7       .08   9269.0       .12   9626.5       .035   9663.1       .06   9776.0       .038
NH    9958.1     .025   10015.2      .08   11383.0
ET                      9.1                                                     9641.05     10600
          SECTION NO. Z
X1   26.623        71   9626.5   10128.4     500       530       500
GR   1747.3    8797.7   1745.6    8942.5   1741.2    9084.0   1737.0    9162.0   1726.3    9251.8
GR   1723.8    9269.0   1724.5    9380.9   1725.7    9388.4   1723.6    9472.1   1724.7    9489.8
GR   1732.7    9525.3   1723.3    9556.3   1723.4    9580.6   1728.1    9591.3   1722.9    9605.4
GR   1721.7    9626.5   1708.4    9663.1   1703.9    9698.7   1706.0    9708.7   1704.6    9722.9
GR   1704.3    9776.0   1707.3    9810.3   1708.9    9851.6   1707.8    9912.1   1705.2    9958.1
GR   1705.1   10000.0   1709.5   10015.2   1709.9   10044.4   1712.8   10056.2   1712.0   10071.0
GR   1714.1   10078.2   1709.3   10115.5   1720.1   10128.4   1719.4   10159.4   1720.3   10232.9
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GR   1719.5   10262.6   1720.4   10281.2   1718.6   10327.7   1718.9   10358.4   1720.9   10384.0
GR   1721.8   10424.9   1721.3   10463.5   1718.5   10548.7   1716.8   10606.9   1713.9   10625.6
GR   1717.2   10657.9   1718.2   10687.4   1717.6   10716.9   1716.3   10730.7   1718.2   10753.2
GR   1718.1   10785.1   1715.0   10842.2   1712.2   10859.2   1713.5   10865.9   1714.1   10902.1
GR   1717.7   10924.6   1716.9   10946.4   1714.2   10974.2   1707.5   11001.4   1712.7   11033.6
GR   1711.8   11056.0   1713.6   11075.4   1714.2   11113.0   1715.4   11139.9   1717.2   11168.8
GR   1715.9   11183.7   1720.0   11237.2   1720.1   11271.7   1719.7   11291.4   1720.9   11345.9
GR   1722.5   11383.0      0.0       0.0      0.0       0.0      0.0       0.0      0.0       0.0

NH       12       .06   9499.9       .12   9605.7      .025   9666.7      .035   9783.7      .025
NH   9866.1      .035  10000.0      .025  10046.3       .06  10352.8      .025  10419.0       .06
NH    10566      .035  10615.9       .08  11869.6
ET                        9.1                                                   9810.17     10920
          SECTION NO. AA
X1   26.695        69   9881.3   10055.4      370       430      380
GR   1747.7    9233.9   1744.2    9392.6   1739.0    9499.9   1721.1    9605.7   1719.7    9619.2
GR   1718.9    9652.3   1721.5    9666.7   1722.5    9689.6   1724.9    9733.8   1723.1    9772.8
GR   1718.4    9783.7   1714.6    9822.6   1714.3    9866.1   1721.4    9881.3   1719.6    9912.9
GR   1710.6    9931.4   1711.5    9974.8   1709.5    9982.8   1709.5    9991.4   1710.7   10000.0
GR   1710.9   10023.3   1709.9   10033.2   1710.0   10046.3   1724.6   10055.4   1722.9   10082.8
GR   1723.8   10116.6   1721.7   10149.3   1723.1   10182.1   1723.3   10223.1   1725.8   10235.3
GR   1725.9   10275.1   1727.2   10280.1   1725.9   10341.2   1713.2   10352.8   1714.3   10371.7
GR   1713.1   10406.1   1717.4   10419.0   1716.9   10441.8   1719.4   10474.4   1718.6   10484.8
GR   1720.9   10506.0   1719.7   10545.1   1715.0   10566.0   1718.5   10586.2   1719.2   10603.7
GR   1724.2   10615.9   1723.5   10698.1   1722.9   10732.5   1725.3   10749.3   1723.6   10813.3
GR   1722.9   10860.6   1721.2   10877.5   1722.0   10908.7   1718.5   10940.1   1722.2   10966.1
GR   1722.4   11033.4   1721.5   11077.9   1722.1   11139.0   1722.9   11170.1   1721.0   11220.8
GR   1722.6   11247.1   1721.6   11358.9   1714.6   11436.8   1714.9   11489.8   1725.3   11511.4
GR   1727.2   11534.6   1728.5   11627.4   1728.0   11760.9   1728.1   11869.6      0.0       0.0

NH        6       .08   9841.5       .12   9914.0      .025  10072.7       .03  10187.6      .035
NH    10229       .08  11956.3
ET                        9.1                                                   9800.99     10950
          SECTION NO. AB
X1   26.775        58   9914.0   10229.0      390       470      420
GR   1732.6    9691.5   1727.3    9752.3   1727.3    9766.7   1724.6    9797.7   1720.0    9824.8
GR   1720.4    9841.5   1723.1    9854.8   1723.4    9874.3   1724.8    9880.2   1726.6    9914.0
GR   1717.0    9920.0   1716.8    9967.0   1713.4    9980.1   1713.9    9991.4   1712.7   10000.0
GR   1712.9   10018.8   1716.1   10027.0   1717.7   10072.7   1716.1   10087.6   1717.2   10107.9
GR   1714.6   10187.6   1725.4   10207.6   1730.6   10229.0   1731.4   10296.7   1729.1   10391.5
GR   1729.7   10407.3   1727.5   10446.8   1717.5   10465.7   1717.5   10489.7   1722.6   10502.0
GR   1723.3   10543.4   1722.5   10550.5   1723.7   10561.3   1724.6   10596.4   1724.8   10685.0
GR   1724.0   10729.9   1726.3   10770.1   1722.2   10789.2   1728.2   10806.5   1726.1   10931.3
GR   1725.8   11003.7   1727.4   11039.1   1727.0   11121.5   1726.2   11179.5   1726.9   11192.0
GR   1727.1   11304.1   1725.7   11425.9   1720.8   11447.1   1720.0   11492.7   1721.3   11507.2
GR   1720.9   11534.8   1719.4   11554.6   1718.4   11578.7   1730.8   11599.8   1732.2   11618.0
GR   1732.6   11746.8   1731.0   11876.6   1730.9   11956.3      0.0       0.0      0.0       0.0

NH        8       .06   9611.4       .035  9688.6       .06   9834.9      .025  10000.0      .035
NH    10102       .03  10349.1       .08  11003.8       .12  11346.5
ET                        9.1                                                   9618.23     10700
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          SECTION NO. AC
X1   26.845       59    9657.8   10020.1      350      400      370
GR   1746.7    9258.1   1746.7    9258.2   1746.7   9258.3   1743.3   9377.6   1739.9   9416.7
GR   1732.7    9553.3   1733.1    9611.4   1724.0   9623.1   1724.1   9645.0   1731.1   9657.8
GR   1721.2    9688.6   1721.3    9793.2   1718.9   9834.9   1718.8   9871.0   1717.0   9877.3
GR   1718.0    9905.1   1717.4   10000.0   1728.0  10020.1   1727.3  10087.9   1729.9  10102.0
GR   1729.5   10120.9   1719.2   10143.7   1719.6  10152.7   1722.8  10170.8   1722.4  10191.5
GR   1730.2   10209.4   1730.2   10236.4   1724.1  10253.5   1725.3  10271.5   1725.2  10285.0
GR   1727.0   10290.8   1728.1   10349.1   1729.1  10437.8   1729.4  10474.8   1728.0  10537.7
GR   1725.9   10556.6   1729.4   10581.4   1729.9  10622.5   1728.1  10657.4   1729.2  10665.1
GR   1728.9   10684.7   1728.5   10712.0   1731.6  10721.6   1731.1  10793.1   1731.3  10864.9
GR   1730.0   10874.9   1731.1   10889.4   1729.9  10914.9   1729.9  10946.4   1728.4  10982.9
GR   1726.7   11003.8   1726.3   11030.4   1727.3  11042.7   1729.3  11090.1   1728.9  11124.8
GR   1726.3   11229.8   1721.4   11246.7   1733.0  11279.8   1734.5  11346.5       0.0       0.0

NH       4       .05   9939.1       .06  10027.8       .08  10149.0      .085  10906.9
QT       2     33800    33800
ET                        9.1                                                 9726.09     10450
          SECTION NO. AD
X1   26.921       92    9712.1   10149.0      450      400      430
GR   1739.4    9712.1   1725.0    9736.8   1723.7   9744.2   1722.7   9748.4   1723.7   9752.1
GR   1723.1    9756.8   1723.7    9763.8   1724.1   9773.2   1722.5   9781.7   1724.1   9790.1
GR   1722.1    9796.4   1722.1    9799.8   1723.2   9810.1   1722.0   9832.8   1722.8   9847.2
GR   1723.1    9861.0   1723.2    9872.7   1723.9   9882.0   1724.0   9891.0   1723.1   9908.0
GR   1723.1    9925.5   1723.2    9932.5   1723.2   9939.1   1722.6   9946.3   1720.7   9952.7
GR   1721.1    9972.1   1720.7    9982.2   1720.2  10000.0   1720.4  10007.5   1720.3  10017.5
GR   1723.1   10027.8   1724.4   10037.7   1724.6  10048.1   1725.0  10059.7   1725.1  10069.6
GR   1725.1   10075.5   1724.1   10107.4   1724.2  10114.7   1724.1  10119.4   1722.7  10132.6
GR   1731.9   10149.0   1732.0   10156.7   1732.1  10165.7   1733.5  10186.9   1732.2  10193.6
GR   1732.8   10199.8   1732.2   10208.7   1733.8  10215.1   1732.0  10222.0   1732.0  10237.1
GR   1734.9   10253.6   1734.4   10263.2   1734.5  10274.5   1734.6  10285.0   1734.6  10311.8
GR   1734.3   10321.7   1734.2   10327.2   1734.9  10337.2   1735.1  10345.3   1734.8  10356.7
GR   1735.2   10366.2   1735.3   10374.4   1734.2  10393.4   1734.7  10401.6   1734.7  10409.7
GR   1735.5   10443.0   1734.5   10480.4   1728.1  10545.4   1728.5  10554.4   1732.0  10577.8
GR   1732.7   10592.1   1732.5   10599.1   1733.4  10618.4   1733.4  10629.9   1734.3  10657.4
GR   1733.4   10682.2   1733.4   10696.2   1733.5  10717.8   1733.3  10729.5   1728.8  10764.1
GR   1730.5   10771.1   1731.2   10781.6   1731.3  10797.6   1729.2  10812.9   1730.8  10819.3
GR   1731.1   10828.1   1731.1   10839.5   1729.1  10863.0   1727.4  10868.7   1728.3  10888.3
GR   1732.9   10899.2   1735.9   10906.9

NH       6       .06   9657.3       .038   9702.2       .08   9803.4       .06   9981.1       .03
NH   10164       .08  10999.2
ET                        9.1                                                 9696.87     10400
          SECTION NO. AE
X1   27.008       49    9657.3   10164.0      400      400      400
GR   1746.2    9657.3   1745.5    9677.5   1731.7   9702.2   1724.6   9760.8   1724.0   9803.4
GR   1725.9    9811.0   1725.7    9819.2   1725.2   9836.0   1727.3   9853.3   1725.7   9898.1
GR   1726.6    9902.7   1727.3    9935.3   1726.4   9947.4   1723.0   9981.1   1723.9  10000.0
GR   1726.0   10013.3   1726.6   10033.6   1726.5  10072.1   1725.6  10089.8   1726.0  10119.1
GR   1724.9   10144.7   1724.9   10154.3   1736.3  10164.0   1735.8  10243.9   1740.5  10256.8
GR   1734.5   10272.1   1734.0   10293.2   1732.5  10322.9   1737.2  10346.2   1737.0  10441.5
GR   1734.8   10548.5   1733.9   10662.5   1729.8  10671.2   1730.3  10675.8   1733.9  10683.5
GR   1733.5   10724.0   1734.2   10735.7   1733.6  10771.9   1731.6  10788.0   1739.6  10811.4
GR   1739.9   10846.8   1739.3   10904.7   1739.2  10914.8   1739.3  10929.1   1739.3  10929.1
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GR   1739.4   10955.9   1739.6   10979.8   1740.0   10995.7   1740.0   10999.2      0.0       0.0

NH      6       .06    9730.7      .038   9788.0      .033   9905.8       .06  10150.1       .04
NH  10215       .08   11067.4
ET                        9.1                                                   9771.98     10600
        SECTION NO. AF
X1  27.106        39   9730.7   10275.3    540       500    520
GR  1755.7    9730.7   1755.7    9730.8   1731.8    9788.0   1731.6    9802.8   1733.6    9808.5
GR  1734.8    9830.2   1734.7    9869.5   1733.3    9905.8   1734.4    9916.8   1732.4    9979.5
GR  1729.1   10000.0   1728.6   10019.5   1731.0   10026.5   1731.4   10051.7   1732.4   10066.4
GR  1730.6   10109.9   1732.1   10125.0   1728.9   10150.1   1727.7   10179.0   1725.7   10190.7
GR  1727.8   10205.6   1736.1   10215.0   1736.8   10259.5   1742.7   10275.3   1742.0   10408.1
GR  1738.5   10443.8   1739.0   10468.6   1738.6   10494.5   1741.2   10550.7   1737.2   10653.9
GR  1739.5   10686.8   1738.8   10728.3   1736.2   10755.3   1736.9   10761.5   1737.4   10798.5
GR  1733.0   10818.3   1743.8   10877.0   1745.6   10979.2   1745.6   11067.4      0.0       0.0

NH      7      .035   9850.9      .035   9850.9      .025  10000.0       .05  10265.5      .038
NH  10395       .08   11000.2       .06  11377.6
ET                        9.1                                                   9869.83     10770
        SECTION NO. AG
X1  27.169        44   9850.9   10395.0    400       310    330
GR  1753.5    9850.9   1734.4    9881.6   1736.0    9933.2   1735.9   10000.0   1732.1   10145.7
GR  1733.2   10155.1   1732.9   10194.3   1738.9   10218.0   1732.7   10265.5   1733.2   10315.5
GR  1733.9   10339.7   1743.4   10379.9   1745.5   10395.0   1741.7   10481.8   1741.6   10526.6
GR  1743.1   10538.6   1744.8   10564.2   1744.7   10687.1   1741.1   10812.4   1739.1   10854.3
GR  1740.2   10885.4   1734.5   10910.1   1734.7   10918.1   1738.5   10928.8   1736.7   10948.6
GR  1737.7   10976.7   1746.9   11000.2   1747.6   11111.9   1747.5   11159.0   1747.5   11159.0
GR  1747.5   11174.1   1748.3   11189.1   1748.5   11210.4   1748.9   11233.8   1749.4   11254.7
GR  1749.5   11271.8   1749.5   11286.5   1749.5   11301.5   1749.5   11313.6   1749.6   11329.4
GR  1749.9   11343.5   1749.9   11358.7   1749.9   11375.7   1750.0   11377.6

NH     10       .06   9788.6      .035   9834.4       .06   9928.4      .035   9989.5      .025
NH  10065      .035  10188.7       .06  10332.8      .035  10380.0       .06  10855.8       .08
NH  11657
ET                        9.1                                                   9929.17     10930
        SECTION NO. AH
X1  27.226        58   9928.4   10380.0    310       300    300
GR  1765.0    9788.6   1765.0    9788.7   1744.0    9834.4   1744.5    9877.9   1743.9    9880.7
GR  1743.7    9928.4   1735.6    9943.3   1735.3    9989.5   1737.7   10000.0   1739.0   10065.0
GR  1739.8   10106.8   1737.7   10145.4   1736.4   10162.8   1737.7   10188.7   1736.6   10259.4
GR  1735.0   10269.7   1735.6   10283.3   1735.6   10320.4   1734.8   10332.8   1749.0   10380.0
GR  1748.3   10432.1   1746.1   10448.1   1744.5   10526.8   1743.4   10533.7   1744.5   10543.0
GR  1745.0   10562.1   1747.2   10583.3   1745.3   10798.5   1739.5   10855.8   1742.4   10881.8
GR  1742.4   10907.3   1744.1   10936.1   1741.8   10999.9   1740.7   11004.2   1741.2   11013.1
GR  1736.7   11029.8   1737.8   11054.5   1739.5   11059.9   1739.2   11075.5   1750.7   11099.3
GR  1750.6   11246.8   1751.7   11302.9   1751.7   11302.9   1752.3   11329.3   1752.7   11347.4
GR  1752.8   11364.1   1753.3   11382.0   1753.4   11400.2   1753.4   11418.8   1752.5   11459.9
GR  1752.5   11486.2   1752.1   11518.4   1752.0   11540.6   1751.4   11570.8   1750.8   11606.5
GR  1750.2   11632.5   1749.5   11649.9   1749.5   11657.0      0.0       0.0       0.0       0.0
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NH      8      .08    9739.2     .025    9795.3      .08    9968.4     .025   10000.0      .03
NH  10337      .06   11055.7      .08   11174.7      .06   11873.3
ET                      9.1                                            9959.80     11000
        SECTION NO. AI
X1  27.265       97    9900.0   10337.0     210      220      210
GR  1759.4   9689.5   1759.4    9689.6   1759.4   9689.7   1759.3    9703.1   1749.5    9739.2
GR  1751.0   9795.3   1750.2    9900.0   1747.0   9968.4   1735.7    9973.2   1736.3   10000.0
GR  1740.8  10044.0   1741.2   10063.1   1741.4  10128.7   1749.0   10164.2   1749.5   10201.7
GR  1750.0  10298.4   1750.7   10337.0   1750.2  10382.1   1747.8   10397.0   1746.6   10460.8
GR  1746.0  10464.3   1746.6   10469.8   1747.5  10509.2   1748.9   10531.9   1749.3   10575.2
GR  1747.7  10618.4   1746.4   10638.3   1746.3  10653.5   1746.2   10687.3   1747.1   10707.3
GR  1746.8  10752.2   1743.1   10780.1   1743.7  10795.7   1746.2   10810.8   1746.6   10849.5
GR  1747.9  10861.6   1747.8   10861.7   1748.0  10890.4   1744.6   10939.7   1745.4   10986.2
GR  1746.1  11055.7   1739.9   11101.8   1739.5  11124.0   1738.8   11134.3   1739.7   11149.2
GR  1751.6  11174.7   1753.3   11300.7   1754.0  11301.3   1754.0   11301.3   1754.0   11313.0
GR  1754.4  11321.2   1754.8   11337.0   1755.2  11356.1   1755.4   11373.2   1755.4   11392.5
GR  1755.4  11407.0   1754.8   11425.8   1754.6  11445.0   1754.4   11463.1   1754.3   11479.9
GR  1754.1  11498.0   1753.7   11515.1   1753.3  11533.8   1753.0   11552.5   1752.5   11572.1
GR  1752.3  11582.7   1751.9   11593.1   1751.5  11601.0   1751.2   11609.0   1750.8   11613.9
GR  1750.1  11619.8   1749.8   11623.4   1750.3  11627.9   1750.2   11631.0   1749.9   11635.8
GR  1749.7  11638.3   1750.0   11643.0   1750.4  11648.1   1750.9   11654.4   1751.1   11666.4
GR  1751.0  11674.7   1750.5   11679.2   1751.2  11684.6   1751.1   11697.1   1751.1   11709.4
GR  1751.2  11725.3   1751.2   11744.6   1751.4  11767.4   1751.7   11782.6   1751.8   11797.6
GR  1752.1  11808.6   1752.6   11818.4   1752.8  11828.8   1753.4   11839.8   1753.5   11850.9
GR  1753.6  11865.9   1753.8   11873.3       0.0      0.0      0.0       0.0      0.0       0.0

NH      7      .06    9673.4      .12    9694.4      .08    9907.5     .025    9932.7      .04
NH  10054     .025   10072.3      .08   11273.1
ET                      9.1                                            9694.13     11000
        SECTION NO. AJ
X1  27.320       35    9907.5   10072.3     260      300      275
GR  1760.8   9673.4   1752.3    9694.4   1752.8   9759.1   1749.8    9907.5   1740.3    9917.9
GR  1743.0   9932.7   1742.9    9962.1   1740.3  10000.0   1740.9   10054.0   1754.9   10072.3
GR  1751.7  10176.6   1750.2   10227.7   1751.4  10257.5   1750.3   10307.3   1751.9   10323.0
GR  1752.2  10364.6   1750.2   10475.2   1751.7  10498.6   1752.1   10570.0   1749.6   10644.3
GR  1751.5  10676.0   1747.4   10699.4   1750.8  10734.0   1751.3   10765.5   1749.9   10844.8
GR  1746.3  10900.2   1746.8   10926.1   1749.3  11000.3   1744.4   11051.9   1742.8   11077.2
GR  1744.6  11089.0   1743.9   11116.7   1743.0  11124.0   1755.9   11147.9   1758.2   11273.1

NH      7      .06    9658.5      .12    9748.0      .06    9920.5     .035   10025.5      .06
NH  10952      .12   11140.4      .06   11666.0
ET                      9.1                                            9738.63     11000
        SECTION NO. AK
X1  27.366       57    9658.5   10110.1     230      240      240
GR  1777.3   9658.5   1777.3    9658.5   1769.8   9702.7   1755.9    9737.6   1745.3    9748.0
GR  1746.2   9771.9   1746.7    9859.2   1748.4   9920.5   1745.5    9933.9   1746.9    9976.9
GR  1742.6  10000.0   1742.7   10025.5   1742.6  10036.9   1742.3   10086.6   1743.4   10102.2
GR  1755.1  10110.1   1755.6   10177.6   1755.3  10242.7   1754.3   10258.1   1755.9   10286.6
GR  1754.6  10345.9   1754.7   10457.4   1750.9  10521.7   1751.5   10555.0   1753.4   10569.5
GR  1753.3  10608.2   1750.7   10654.5   1753.3  10780.6   1751.3   10821.9   1752.1   10925.4
GR  1751.4  10952.0   1747.6   11021.9   1746.0  11027.9   1746.4   11040.4   1749.8   11076.4
GR  1745.8  11112.3   1756.7   11140.4   1758.8  11165.3   1759.3   11295.8   1757.2   11409.8
GR  1757.7  11478.6   1757.7   11478.6   1757.4  11504.7   1756.9   11517.4   1756.7   11525.6
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GR   1756.1   11533.4   1757.2   11540.1   1757.4   11546.5   1758.0   11558.0   1759.2   11569.9
GR   1759.7   11580.8   1760.2   11593.2   1760.4   11603.1   1760.6   11615.9   1760.6   11629.6
GR   1760.7   11646.1   1760.2   11666.0      0.0       0.0       0.0       0.0       0.0       0.0

NH      7       .06    9751.0       .12   9889.0       .08   10000.0      .035   10200.8       .06
NH  10842       .12   11095.5       .06  11431.4
ET                       9.1                                                    9878.99     10890
        SECTION NO. AL
X1  27.417        35    9751.0   10200.8    250       290       270
GR   1780.0    9619.0   1779.8    9751.0   1765.1    9848.4   1755.1    9889.0   1756.8    9942.8
GR   1753.6    9989.2   1746.8   10000.0   1750.1   10057.8   1748.6   10121.9   1745.1   10141.8
GR   1744.8   10177.2   1759.4   10200.8   1759.2   10367.6   1758.1   10536.5   1757.1   10689.7
GR   1755.3   10725.2   1754.4   10783.7   1753.0   10809.0   1754.0   10842.0   1750.8   10860.1
GR   1753.7   10874.8   1752.5   10893.3   1755.1   10912.4   1755.1   10941.7   1753.4   10962.6
GR   1751.9   11035.1   1748.5   11041.0   1748.6   11049.8   1762.0   11095.5   1762.9   11211.0
GR   1762.2   11248.2   1761.7   11252.4   1762.2   11257.5   1762.4   11350.0   1762.6   11431.4

NH      9       .06    9853.5       .12   9983.2      .035   10019.2       .04   10126.6       .08
NH  10240       .04   10350.4       .08  10830.4       .12   11005.0       .08   11568.3
ET                       9.1                                                    9960.71     10600
        SECTION NO. AM
X1  27.502        53    9853.5   10150.4    430       510       450
GR   1783.5    9619.3   1784.1    9757.7   1783.8    9853.5   1773.7    9947.5   1748.8    9983.2
GR   1750.6   10000.0   1751.0   10019.2   1750.2   10025.5   1752.1   10058.7   1754.1   10086.3
GR   1760.3   10126.6   1762.5   10150.4   1763.0   10240.0   1759.5   10265.8   1759.9   10275.2
GR   1762.0   10280.7   1762.0   10302.0   1758.3   10312.7   1761.1   10330.0   1762.8   10350.4
GR   1762.0   10409.1   1760.8   10426.1   1762.5   10448.8   1763.0   10476.0   1763.0   10489.2
GR   1761.9   10574.3   1761.2   10576.9   1762.3   10589.5   1761.9   10656.0   1759.8   10665.7
GR   1761.7   10675.0   1763.0   10723.2   1763.7   10740.2   1762.6   10779.4   1759.6   10830.4
GR   1758.4   10837.3   1760.6   10852.6   1761.0   10887.2   1759.1   10918.1   1762.5   10935.3
GR   1761.8   10969.0   1759.1   10979.4   1764.1   11005.0   1767.7   11054.2   1769.6   11108.1
GR   1770.5   11175.4   1771.3   11287.4   1772.0   11384.0   1771.2   11390.0   1771.8   11393.7
GR   1773.0   11435.4   1776.9   11549.3   1777.1   11568.3      0.0       0.0       0.0       0.0

NH      7       .06    9740.2       .08   9792.1      .038   10014.4       .08   10221.3       .07
NH  10765       .12   10888.5       .06  11700.6
ET                       9.1                                                    9772.54     10415
        SECTION NO. AN
X1  27.604        50    9740.2   10014.4    510       700       550
GR   1787.5    9545.8   1786.6    9740.2   1757.7    9792.1   1757.8    9813.5   1759.2    9823.8
GR   1759.9    9851.8   1757.7    9893.9   1754.3    9964.9   1754.2   10000.0   1765.2   10014.4
GR   1764.5   10026.0   1764.4   10038.5   1765.9   10081.8   1766.4   10113.1   1762.9   10150.4
GR   1767.6   10183.0   1769.5   10221.3   1769.9   10240.7   1768.9   10369.3   1768.9   10411.8
GR   1769.6   10444.5   1769.0   10528.9   1768.8   10540.6   1768.8   10569.9   1768.7   10586.0
GR   1768.7   10619.2   1769.2   10644.4   1767.5   10712.7   1766.5   10717.3   1767.4   10727.3
GR   1767.5   10765.0   1763.8   10793.9   1766.5   10813.3   1764.3   10822.3   1764.7   10830.3
GR   1765.6   10835.3   1766.9   10867.7   1770.7   10888.5   1771.5   11019.7   1773.3   11084.6
GR   1774.5   11105.7   1776.0   11211.2   1776.1   11321.6   1775.8   11340.7   1776.5   11354.5
GR   1778.6   11523.2   1780.2   11547.1   1781.7   11597.4   1783.4   11629.0   1783.8   11700.6
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NH      7      .06    9961.1      .02   10000.0      .04   10060.1      .12   10195.8      .08
NH  10765      .12   11023.8      .06   12101.4
ET                      9.1                                                  9980.25    10480
        SECTION NO. AO
X1  27.693       45   9961.1  10195.8      490      460      470
GR  1792.9   9727.8   1791.4   9838.0   1791.7   9961.1   1756.3  10000.0   1757.7  10016.1
GR  1760.3  10060.1   1762.8  10074.5   1762.8  10088.7   1770.2  10105.9   1771.7  10195.8
GR  1769.6  10223.1   1771.0  10231.3   1770.9  10351.8   1772.3  10459.2   1773.4  10517.0
GR  1774.7  10596.6   1775.5  10612.8   1775.1  10635.8   1773.7  10744.8   1774.3  10765.0
GR  1771.4  10887.2   1769.7  10897.1   1770.5  10935.0   1767.3  10957.3   1769.5  10966.7
GR  1769.3  10990.2   1773.7  11023.8   1775.9  11078.2   1776.0  11145.0   1772.4  11215.7
GR  1771.2  11221.9   1773.0  11230.9   1776.9  11311.4   1778.9  11389.9   1779.5  11441.9
GR  1779.3  11548.6   1778.6  11557.0   1779.8  11565.4   1780.3  11724.0   1781.6  11801.6
GR  1782.9  11816.4   1786.3  11887.1   1786.5  11914.2   1786.2  12019.1   1786.2  12101.4

NH      7      .06    9955.5      .033  10000.0      .04   10049.5      .05   10158.3      .07
NH  10916      .12   11190.5      .06   12563.6
ET                      9.1                                                  9976.19    10605
        SECTION NO. AP
X1  27.797       50   9955.5  10158.3      560      550      550
GR  1799.2   9831.6   1796.6   9955.5   1760.6  10000.0   1761.3  10008.1   1761.4  10040.0
GR  1765.8  10049.5   1771.0  10077.1   1771.9  10089.7   1769.4  10106.9   1772.3  10120.0
GR  1770.7  10134.3   1771.6  10150.2   1776.1  10158.3   1776.8  10265.3   1776.3  10353.5
GR  1774.9  10414.7   1774.5  10418.5   1775.7  10519.8   1774.9  10525.8   1775.7  10530.2
GR  1776.1  10579.3   1776.8  10594.3   1776.6  10634.1   1777.1  10778.4   1777.6  10916.0
GR  1772.3  10988.0   1772.4  10992.9   1773.4  11016.9   1776.1  11050.0   1774.9  11106.7
GR  1778.0  11127.1   1779.4  11190.5   1777.9  11313.3   1777.5  11320.1   1777.9  11330.0
GR  1778.6  11394.9   1780.5  11441.0   1782.1  11568.4   1782.7  11689.7   1782.0  11743.2
GR  1780.9  11748.1   1781.8  11755.1   1782.5  11912.3   1783.4  11939.7   1785.1  11962.9
GR  1787.3  12023.8   1788.1  12158.9   1788.4  12317.1   1789.3  12428.1   1789.4  12563.6

NH      8      .06    9944.2      .03   10000.0      .033  10054.5      .08   10166.4      .025
NH  10200      .06   10784.1      .12   10985.8      .06   11411.6
ET                      9.1                                                  9970.17    10450
        SECTION NO. AQ
X1  27.913       35   9944.2  10240.4      620      600      610
GR  1800.7   9714.1   1800.6   9717.8   1799.2   9722.5   1803.2   9868.7   1800.8   9944.2
GR  1763.1  10000.0   1767.4  10037.3   1775.6  10054.5   1772.0  10080.7   1776.0  10111.6
GR  1776.8  10166.4   1771.8  10189.7   1776.7  10200.0   1777.9  10215.4   1781.2  10219.9
GR  1782.1  10240.4   1781.9  10276.9   1781.0  10431.4   1780.9  10609.3   1781.2  10623.1
GR  1781.9  10668.7   1781.9  10784.1   1778.4  10826.3   1777.0  10829.1   1778.5  10876.2
GR  1776.3  10887.3   1780.8  10916.2   1780.5  10955.3   1781.2  10985.8   1782.2  11061.8
GR  1783.3  11083.6   1783.4  11122.1   1780.9  11228.2   1782.2  11365.8   1785.1  11411.6

NH      8      .03    9777.6      .04    9866.6      .12    9892.3      .08    9958.7      .04
NH  10057      .06   10591.6      .12   10811.5      .06   11217.6
ET                      9.1                                                  9772.23    10225
        SECTION NO. AR
X1  28.023       73   9892.3  10073.4      600      580      580
GR  1806.7   9763.9   1775.2   9777.6   1776.2   9787.1   1775.2   9799.2   1775.0   9806.4
GR  1774.3   9813.0   1775.2   9821.4   1776.6   9826.9   1778.9   9833.7   1779.2   9837.5
GR  1780.7   9842.9   1781.5   9853.2   1781.5   9866.6   1782.4   9880.7   1782.9   9892.3
GR  1782.8   9901.9   1782.1   9937.4   1781.0   9958.7   1773.7   9970.3   1773.2   9983.2
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GR   1773.2    9991.2    1773.1    9995.9    1772.5   10000.0    1773.7   10006.6    1775.1   10023.8
GR   1777.1   10039.3    1778.0   10057.0    1778.8   10067.0    1784.0   10073.4    1785.2   10077.1
GR   1785.2   10111.8    1786.6   10157.6    1787.8   10172.0    1787.2   10200.9    1789.7   10258.3
GR   1789.5   10270.8    1789.6   10302.2    1787.7   10378.7    1788.2   10387.9    1786.2   10404.2
GR   1786.9   10410.8    1785.9   10416.1    1786.9   10421.4    1787.3   10426.3    1787.2   10446.6
GR   1785.5   10545.4    1784.3   10574.6    1784.6   10591.6    1784.3   10604.2    1784.5   10617.2
GR   1785.1   10629.4    1785.1   10642.1    1783.1   10662.6    1784.3   10684.8    1781.9   10699.0
GR   1781.8   10706.3    1780.7   10709.9    1780.7   10712.2    1783.4   10731.9    1782.8   10757.3
GR   1783.1   10778.7    1785.4   10811.5    1785.5   10825.3    1786.8   10870.5    1786.8   10919.8
GR   1786.6   10952.0    1786.7   10978.6    1787.5   11033.3    1787.6   11063.4    1787.8   11082.5
GR   1788.9   11115.5    1788.5   11153.0    1789.0   11217.6

NH       9       .06    9641.3       .03    9676.9       .04    9726.3       .12    9856.7       .08
NH  9978.8       .04   10121.5       .06   10591.5       .12   11005.3       .06   12460.1
ET                        9.1                                                      9666.86     10145
          SECTION NO. AS
X1  28.091        58    9900.2   10121.5     330       400       360
GR   1815.4    9414.3    1811.7    9641.3    1782.1    9676.9    1781.9    9726.3    1786.5    9742.3
GR   1786.6    9856.7    1785.3    9879.7    1786.5    9900.2    1785.1    9967.4    1782.5    9978.8
GR   1780.8   10000.0    1780.9   10010.4    1782.1   10050.9    1783.7   10083.3    1781.7   10108.3
GR   1789.6   10121.5    1792.1   10160.5    1792.6   10223.1    1791.8   10229.4    1791.9   10238.5
GR   1792.9   10307.6    1791.1   10457.3    1789.3   10591.5    1787.6   10748.9    1786.6   10778.3
GR   1782.5   10797.4    1782.9   10809.4    1786.6   10822.1    1786.5   10850.7    1789.6   10876.8
GR   1792.7   11005.3    1793.1   11117.2    1792.3   11229.1    1792.6   11377.9    1792.0   11520.3
GR   1792.3   11698.5    1791.9   11701.2    1791.8   11707.8    1795.2   11860.8    1796.4   11901.4
GR   1798.4   12045.9    1799.7   12165.3    1799.4   12168.4    1799.4   12176.1    1799.9   12178.9
GR   1800.5   12215.6    1800.5   12215.6    1800.6   12234.3    1801.4   12247.6    1801.8   12261.9
GR   1802.1   12275.8    1802.5   12293.5    1802.7   12320.1    1802.9   12364.5    1803.3   12396.7
GR   1803.8   12429.4    1804.1   12457.5    1804.2   12460.1       0.0       0.0       0.0       0.0

NH       8       .06    9547.3       .12    9646.4       .04    9942.0       .035  10000.0       .025
NH   10073      .035   10720.5       .12   11060.5       .06   12303.9
ET                        9.1                                                      9623.60     10175
          SECTION NO. AT
X1  28.157        87    9942.0   10073.0     340       370       350
GR   1819.0    9137.7    1818.4    9290.3    1815.2    9474.2    1814.0    9547.3    1807.0    9591.2
GR   1785.0    9646.4    1784.5    9667.1    1786.4    9679.6    1786.5    9689.6    1788.9    9711.2
GR   1788.2    9722.3    1788.8    9789.6    1790.5    9804.4    1791.0    9831.6    1791.1    9866.2
GR   1788.7    9893.0    1788.5    9942.0    1786.6    9970.6    1782.6   10000.0    1782.8   10043.2
GR   1792.0   10055.2    1792.3   10073.0    1791.0   10102.0    1790.2   10110.2    1790.9   10121.6
GR   1792.5   10139.0    1793.7   10222.1    1795.6   10322.0    1796.2   10374.2    1794.0   10485.5
GR   1792.9   10581.9    1792.0   10712.0    1791.2   10720.5    1790.2   10824.2    1785.6   10837.6
GR   1785.7   10842.6    1790.2   10847.8    1789.8   10859.3    1787.4   10865.9    1792.5   10897.9
GR   1790.9   10924.0    1789.4   10932.4    1791.3   10939.7    1794.3   11027.4    1796.0   11060.5
GR   1796.4   11145.9    1796.3   11285.8    1796.8   11405.2    1797.9   11552.6    1800.0   11574.2
GR   1800.3   11585.0    1800.3   11585.0    1801.0   11598.7    1801.8   11614.0    1802.6   11630.3
GR   1802.7   11648.8    1803.1   11667.8    1803.2   11687.0    1803.4   11706.3    1803.4   11729.2
GR   1803.6   11747.8    1803.9   11768.9    1804.3   11789.2    1804.4   11811.1    1804.8   11827.5
GR   1804.7   11850.4    1804.7   11874.5    1805.0   11890.2    1805.0   11911.4    1805.2   11932.1
GR   1805.4   11964.2    1805.3   11988.4    1805.4   12014.8    1805.7   12044.1    1805.7   12068.9
GR   1805.9   12094.0    1806.1   12121.4    1806.3   12157.0    1806.5   12176.3    1806.8   12197.9
GR   1806.9   12221.5    1807.1   12244.2    1807.6   12280.3    1807.2   12284.8    1807.2   12291.8
GR   1807.8   12296.7    1807.9   12303.9       0.0       0.0       0.0       0.0       0.0       0.0
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NH      8       .06     9480.2      .12     9678.9      .025    9830.9      .028    10000.0     .08
NH  10223       .06    10531.3      .12    10794.7      .08    11470.4
ET                        9.1                                                      9663.83     10265
        SECTION NO. AU
X1  28.241        48     9757.5   10050.5      400      490      440
GR  1822.3    9221.7     1821.0    9318.5   1821.0   9426.6   1821.9    9480.2    1818.1    9576.4
GR  1808.3    9639.9     1793.3    9678.9   1795.4   9692.2   1795.8    9741.5    1795.0    9757.5
GR  1794.5    9762.7     1793.6    9785.6   1793.6   9819.4   1791.7    9830.9    1789.9    9858.0
GR  1791.1    9876.8     1790.7    9926.9   1790.0  10000.0   1795.7   10028.0    1796.6   10050.5
GR  1795.7   10063.2     1797.2   10223.0   1797.0  10225.7   1797.0   10234.0    1798.6   10301.6
GR  1797.7   10415.7     1797.0   10531.3   1797.1  10566.0   1794.2   10615.4    1791.9   10624.7
GR  1794.1   10652.0     1793.8   10662.7   1792.1  10675.3   1795.8   10702.3    1797.3   10754.1
GR  1801.3   10794.7     1802.6   10837.5   1802.5  10880.1   1801.9   10980.9    1803.2   11104.8
GR  1803.7   11135.2     1805.0   11251.1   1804.9  11386.2   1804.1   11391.6    1805.4   11396.5
GR  1806.9   11429.3     1809.4   11456.4   1809.6  11470.4       0.0       0.0       0.0       0.0

NH      7       .06     9689.6      .12     9861.7      .025   10000.0      .12    10050.1     .06
NH  10599       .12    10890.6      .08    11945.3
ET                        9.1                                                      9836.34     10435
        SECTION NO. AV
X1  28.326        37     9689.6   10076.3      440      470      450
GR  1826.3    9390.9     1824.3    9547.9   1823.1   9640.4   1822.4    9689.6    1809.8    9817.5
GR  1794.9    9861.7     1792.4    9937.3   1791.3  10000.0   1801.8   10050.1    1802.0   10076.3
GR  1801.5   10184.8     1801.1   10186.2   1801.9  10195.5   1801.4   10252.1    1802.1   10306.4
GR  1799.1   10388.6     1799.6   10404.1   1799.1  10476.5   1800.3   10599.0    1799.1   10683.7
GR  1799.0   10698.3     1800.9   10731.3   1800.8  10770.4   1803.6   10806.2    1803.5   10872.4
GR  1803.0   10890.6     1805.2   10955.7   1806.2  11057.2   1807.9   11208.6    1810.2   11340.5
GR  1812.8   11379.7     1813.9   11486.4   1815.1  11604.6   1815.1   11642.2    1816.4   11730.1
GR  1818.1   11818.3     1820.5   11945.3       0.0       0.0       0.0       0.0       0.0       0.0

NH      6       .06     9819.6      .12     9907.7      .025   10000.0      .12    10139.1     .03
NH  10603       .12    11762.5
ET                        9.1                                                      9879.53     10530
        SECTION NO. AW
X1  28.390        35     9819.6   10063.6      350      340      340
GR  1830.5    9380.0     1828.9    9576.1   1826.7   9677.9   1821.5    9819.6    1815.7    9863.1
GR  1793.2    9907.7     1793.4    9924.1   1793.9   9961.5   1792.8   10000.0    1800.1   10013.4
GR  1802.7   10063.6     1802.5   10104.8   1805.0  10139.1   1804.0   10177.8    1803.0   10316.5
GR  1802.6   10382.7     1803.0   10449.1   1803.8  10520.6   1804.0   10603.0    1802.0   10705.5
GR  1800.7   10711.0     1802.4   10716.7   1802.8  10767.7   1807.3   10800.6    1809.4   10917.5
GR  1809.5   11054.7     1808.4   11060.9   1809.2  11066.1   1809.6   11175.1    1810.8   11281.1
GR  1811.5   11284.7     1812.0   11364.3   1816.4  11470.0   1819.8   11637.3    1820.5   11762.5

NH      6       .06     9871.7      .08     9909.8      .025   10000.0      .12    10061.2     .08
NH  10922       .06    11740.1
ET                        9.1                                                      9892.28     10475
        SECTION NO. AX
X1  28.462        37     9871.7   10061.2      380      380      380
GR  1833.2    9149.9     1833.2    9290.1   1834.0   9501.6   1832.4    9695.7    1827.9    9871.7
GR  1794.9    9909.8     1794.8   10000.0   1803.6  10034.2   1805.6   10061.2    1804.4   10068.0
GR  1805.3   10078.0     1806.6   10175.8   1805.8  10271.3   1805.7   10284.0    1807.1   10450.0
GR  1807.2   10463.4     1808.6   10524.9   1807.4  10599.5   1805.1   10674.0    1803.9   10678.5
GR  1805.3   10682.2     1805.3   10721.5   1804.3  10727.3   1805.1   10732.4    1808.1   10776.4
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GR   1809.0   10847.3   1812.2   10922.0   1812.7   11030.5   1812.2   11185.9   1811.7   11205.6
GR   1812.5   11215.6   1812.6   11317.2   1814.1   11404.3   1815.0   11476.1   1819.3   11558.8
GR   1821.8   11659.0   1823.2   11740.1      0.0       0.0      0.0       0.0      0.0       0.0

NH      6       .06    9869.9      .035   9961.8      .025  10059.2       .08  10111.4       .06
NH  10871       .08   12079.2
ET                        9.1                                                  9944.60     10450
        SECTION NO. AY
X1  28.555        95   9869.9   10111.4    490       500      490
GR   1837.8   9172.7   1838.4    9282.2   1838.7    9371.7   1838.5    9470.3   1838.1    9493.7
GR   1838.6   9538.3   1838.0    9590.2   1838.7    9604.1   1838.2    9643.4   1838.1    9692.8
GR   1838.0   9730.9   1837.6    9762.9   1837.0    9815.2   1836.0    9855.6   1834.9    9863.9
GR   1835.9   9869.9   1835.2    9874.8   1834.1    9903.7   1833.2    9919.4   1832.5    9922.4
GR   1818.5   9929.9   1817.6    9940.2   1800.2    9961.8   1800.1    9983.5   1799.4   10000.0
GR   1799.4  10032.9   1801.0   10049.5   1801.0   10059.2   1809.1   10096.4   1810.0   10111.4
GR   1809.8  10126.6   1809.1   10139.6   1809.0   10175.4   1811.3   10223.1   1811.1   10250.6
GR   1811.4  10283.0   1811.2   10330.2   1810.6   10355.8   1810.2   10399.9   1809.1   10403.9
GR   1810.7  10409.5   1810.6   10438.4   1811.2   10470.4   1812.0   10526.5   1812.8   10551.1
GR   1813.0  10563.6   1813.1   10579.7   1813.0   10607.8   1813.2   10653.4   1812.6   10691.4
GR   1813.5  10728.4   1813.5   10760.7   1813.9   10780.8   1815.4   10797.4   1816.4   10824.9
GR   1816.9  10857.4   1817.2   10871.0   1817.7   10932.0   1818.1   11005.7   1818.2   11057.7
GR   1818.4  11115.2   1818.3   11150.5   1818.3   11182.4   1817.9   11342.9   1817.1   11398.8
GR   1816.0  11435.5   1817.0   11470.0   1817.4   11502.3   1817.4   11511.5   1818.3   11571.2
GR   1818.5  11589.2   1819.3   11607.4   1820.5   11623.5   1821.7   11636.2   1823.1   11643.4
GR   1823.6  11651.5   1823.7   11661.2   1824.9   11676.4   1825.2   11704.2   1826.6   11756.9
GR   1827.1  11772.3   1827.4   11789.8   1827.8   11812.2   1828.2   11840.6   1828.5   11880.0
GR   1829.0  11898.6   1828.9   11912.8   1829.2   11930.0   1829.4   11939.5   1829.4   11962.3
GR   1829.7  11986.5   1830.2   12017.7   1830.0   12046.1   1830.2   12065.8   1830.2   12079.2

NH      9       .06    9910.1       .08   9961.9      .033  10009.7       .12  10124.3      .025
NH  10162       .12   10197.0       .06  10678.3       .08  11622.5       .06  12254.7
ET                        9.1                                                  9948.21     10450
        SECTION NO. AZ
X1  28.657        76   9910.1   10197.0    550       540      540
GR   1844.2   9341.9   1844.6    9435.8   1844.6    9541.4   1844.3    9656.8   1844.0    9731.3
GR   1843.3   9807.0   1842.5    9878.5   1841.5    9910.1   1839.5    9933.6   1801.7    9961.9
GR   1800.5   9986.1   1800.6   10000.0   1802.1   10009.7   1805.0   10034.1   1806.9   10053.9
GR   1808.6  10069.1   1813.2   10089.5   1812.3   10113.0   1810.2   10124.3   1809.6   10130.0
GR   1809.6  10142.8   1812.9   10162.0   1814.9   10179.0   1816.7   10197.0   1816.8   10224.3
GR   1816.0  10271.0   1815.5   10327.9   1814.0   10385.1   1814.2   10440.2   1814.4   10514.2
GR   1814.5  10561.8   1814.6   10595.8   1814.5   10603.4   1812.6   10609.3   1814.6   10614.1
GR   1815.4  10640.6   1816.7   10650.2   1818.3   10660.4   1820.0   10678.3   1821.4   10726.4
GR   1821.8  10770.3   1821.9   10826.5   1822.3   10877.4   1821.9   10932.5   1821.7   10988.6
GR   1821.9  11032.4   1821.8   11040.7   1821.4   11067.7   1821.8   11092.8   1821.5   11143.1
GR   1821.7  11188.8   1823.3   11264.0   1823.2   11321.1   1822.6   11380.8   1822.6   11423.5
GR   1821.4  11476.7   1821.0   11511.1   1821.4   11548.1   1821.4   11590.0   1822.4   11622.5
GR   1822.5  11657.4   1823.3   11708.5   1825.3   11736.1   1826.4   11753.0   1828.1   11776.9
GR   1829.4  11808.3   1830.5   11851.2   1831.6   11894.3   1832.4   11930.8   1833.1   11970.8
GR   1834.0  12037.8   1835.1   12088.7   1835.1   12150.1   1835.4   12222.4   1835.5   12238.0
GR   1835.6  12254.7      0.0       0.0      0.0       0.0      0.0       0.0      0.0       0.0
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NH      6       .06     9866.8      .12     9952.0      .033    10041.9      .05    10129.0      .06
NH  10773       .06    12264.0
ET                      9.1                                                      9899.35     10550
        SECTION NO. BA
X1  28.750        76    9866.8   10129.0       500       470       490
GR  1850.0    9132.0    1849.6    9198.5    1849.5    9263.4    1849.9    9342.6    1849.9    9419.3
GR  1849.1    9493.9    1848.9    9569.7    1848.6    9624.0    1848.7    9657.7    1848.0    9717.2
GR  1847.4    9756.2    1846.6    9790.5    1845.5    9828.5    1844.3    9866.8    1812.6    9915.2
GR  1812.5    9936.1    1809.4    9952.0    1808.3    9972.2    1808.5   10000.0    1808.9   10033.3
GR  1809.5   10041.9    1811.1   10053.6    1811.1   10066.5    1815.4   10078.9    1814.0   10101.5
GR  1816.0   10113.1    1819.7   10129.0    1821.3   10171.9    1821.2   10239.1    1820.2   10292.1
GR  1820.4   10343.7    1819.8   10410.1    1818.3   10481.8    1817.7   10539.4    1818.1   10579.2
GR  1818.0   10623.4    1817.4   10650.9    1817.8   10669.0    1817.5   10722.5    1816.2   10728.4
GR  1818.0   10735.6    1818.7   10749.8    1825.2   10773.0    1825.1   10820.5    1824.0   10892.7
GR  1824.3   10991.1    1823.6   11079.1    1823.9   11133.8    1824.2   11186.1    1824.0   11232.6
GR  1824.4   11275.2    1825.2   11305.7    1825.2   11323.2    1824.8   11347.8    1823.7   11380.9
GR  1823.8   11432.7    1824.2   11468.0    1824.5   11516.8    1824.0   11582.5    1824.8   11623.4
GR  1825.2   11672.9    1825.5   11735.5    1827.1   11776.9    1828.8   11792.3    1830.5   11821.7
GR  1832.3   11859.6    1833.1   11887.5    1833.6   11917.8    1834.4   11955.7    1834.9   11994.9
GR  1835.7   12049.4    1836.1   12094.7    1836.2   12130.7    1836.4   12174.3    1836.8   12230.0
GR  1837.1   12264.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0

NH      6       .06     9846.5      .12     9927.3      .035    10076.9      .12    10200.5      .04
NH  10814       .06    12216.4
ET                      9.1                                                      9911.57     10560
        SECTION NO. BB
X1  28.847        69    9881.1   10076.9       520       500       510
GR  1854.9    9277.4    1853.9    9424.8    1853.4    9484.7    1853.2    9546.0    1852.9    9639.3
GR  1852.6    9677.8    1851.9    9732.7    1851.0    9759.7    1850.6    9791.8    1849.6    9846.5
GR  1848.5    9867.2    1847.0    9881.1    1814.5    9927.3    1813.5    9952.1    1811.9    9978.2
GR  1812.0   10000.0    1812.5   10041.6    1821.4   10076.9    1821.2   10110.6    1820.5   10147.8
GR  1818.4   10162.1    1820.8   10179.8    1824.9   10200.5    1825.3   10242.3    1825.0   10284.1
GR  1824.4   10343.6    1824.5   10403.2    1823.5   10447.7    1822.7   10492.8    1821.8   10553.5
GR  1821.8   10574.2    1822.3   10617.2    1822.8   10650.1    1822.5   10692.5    1820.0   10726.3
GR  1821.3   10757.2    1821.3   10780.5    1820.0   10789.3    1822.3   10814.0    1826.7   10837.2
GR  1828.2   10862.2    1827.1   10897.8    1827.0   10934.3    1826.9   10969.2    1826.9   11013.3
GR  1827.0   11071.0    1827.8   11157.2    1827.8   11206.2    1827.5   11259.1    1827.4   11315.6
GR  1827.3   11371.4    1827.4   11446.2    1827.4   11491.7    1827.2   11538.1    1826.8   11575.5
GR  1827.3   11637.6    1828.8   11709.7    1828.8   11793.4    1830.1   11825.0    1831.6   11849.1
GR  1833.0   11886.5    1834.0   11912.0    1835.1   11937.1    1835.7   11965.3    1836.4   11992.4
GR  1837.1   12028.3    1838.0   12100.2    1838.3   12169.1    1838.8   12216.4       0.0       0.0

NH      6       .06     9824.7      .12     9914.2      .04     10054.9      .025   10353.0      .08
NH  10873       .06    12337.4
ET                      9.1                                                      9857.38     10510
        SECTION NO. BC
X1  28.934        84    9824.7   10054.9       410       470       460
GR  1859.3    9244.7    1858.8    9403.1    1858.2    9479.7    1858.2    9530.3    1856.7    9605.0
GR  1856.9    9665.0    1855.3    9704.5    1854.0    9742.1    1853.0    9795.5    1851.1    9824.7
GR  1824.7    9864.6    1823.9    9894.9    1820.4    9914.2    1819.2    9923.4    1819.1    9934.8
GR  1816.6    9940.2    1815.9    9967.7    1815.7    9979.6    1815.5   10000.0    1817.3   10007.5
GR  1817.6   10022.2    1819.8   10035.2    1826.8   10054.9    1828.0   10096.7    1827.9   10137.5
GR  1827.0   10161.6    1825.9   10183.8    1826.4   10214.6    1825.4   10239.3    1824.2   10254.6
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GR   1824.2   10268.1   1824.7   10286.9   1823.9   10298.7   1824.1   10324.5   1827.5   10353.0
GR   1828.5   10391.2   1829.3   10425.6   1829.0   10455.1   1827.8   10502.7   1827.4   10545.1
GR   1827.6   10578.5   1826.4   10632.1   1826.1   10687.0   1827.3   10744.9   1827.9   10796.6
GR   1828.1   10818.8   1827.5   10851.6   1827.0   10868.7   1826.9   10873.0   1829.8   10900.6
GR   1830.5   10947.0   1831.1   11009.4   1831.1   11091.4   1831.8   11166.8   1832.4   11210.9
GR   1832.2   11261.7   1832.5   11306.7   1832.8   11356.0   1833.0   11396.3   1831.7   11439.9
GR   1832.2   11478.0   1832.9   11503.1   1832.7   11546.5   1832.7   11615.1   1833.4   11645.8
GR   1834.1   11686.2   1834.2   11716.5   1834.4   11763.4   1834.5   11811.5   1835.4   11858.1
GR   1836.0   11881.1   1837.0   11953.1   1838.0   11984.1   1838.8   12015.5   1839.9   12051.4
GR   1841.0   12081.6   1841.7   12115.9   1843.7   12164.1   1844.7   12195.6   1845.1   12218.0
GR   1845.1   12226.3   1845.5   12265.6   1846.1   12301.4   1846.7   12337.4      0.0      0.0

NH       7       .06   9922.8      .035   9955.5      .025   10021.5       .04   10267.4      .045
NH   10452       .05   10861.6      .06   12146.5
ET                         9.1                                                   9940.76    10590
          SECTION NO. BD
X1   29.012        71   9922.8   10091.3      400       420       410
GR   1861.5    9249.5   1861.1    9434.7   1860.3    9558.6   1859.5    9644.3   1858.7    9730.2
GR   1857.9    9773.6   1857.6    9797.9   1855.9    9854.2   1853.7    9889.9   1850.0    9922.8
GR   1819.0    9955.5   1818.9    9982.8   1818.7   10000.0   1820.8   10021.5   1820.6   10031.4
GR   1822.8   10041.2   1822.6   10066.9   1827.5   10091.3   1828.5   10113.2   1828.1   10169.3
GR   1828.1   10186.8   1827.0   10196.3   1828.8   10220.1   1828.6   10250.7   1827.9   10267.4
GR   1828.5   10303.6   1829.6   10341.0   1829.7   10363.8   1830.3   10376.4   1830.2   10413.9
GR   1831.0   10452.0   1831.4   10486.7   1832.7   10517.5   1832.8   10558.9   1832.5   10609.7
GR   1831.5   10660.3   1831.6   10714.5   1831.2   10742.1   1830.7   10788.3   1831.2   10817.3
GR   1831.7   10835.0   1838.8   10861.6   1839.1   10903.7   1838.3   10965.6   1838.1   11038.2
GR   1838.1   11080.5   1838.3   11114.0   1838.3   11155.5   1839.1   11193.0   1839.5   11263.0
GR   1839.5   11336.9   1839.9   11379.8   1840.4   11423.9   1840.3   11487.3   1841.1   11549.5
GR   1840.7   11608.9   1838.8   11652.8   1838.8   11691.4   1839.9   11744.2   1841.0   11787.2
GR   1841.2   11825.9   1841.1   11830.9   1841.7   11879.8   1842.8   11924.8   1843.4   11941.6
GR   1845.8   11980.7   1848.0   12015.8   1850.4   12048.3   1852.3   12081.0   1853.8   12115.5
GR   1854.8   12146.5      0.0       0.0      0.0       0.0      0.0       0.0      0.0       0.0

NH       6       .06   9960.7       .06   9987.1       .04   10106.7      .045   10574.2      .043
NH   10843       .06   12059.0
QT       2     33800     33800
ET                         9.1                                                   9971.96    10650
          SECTION NO. BE
X1   29.130        89   9960.7   10331.6      590       600       595
GR   1860.7    9922.0   1859.7    9932.8   1858.5    9946.5   1857.6    9953.2   1855.0    9960.7
GR   1824.5    9979.7   1821.0    9987.1   1821.6    9994.6   1821.6   10000.0   1821.5   10010.5
GR   1822.1   10015.3   1823.0   10020.7   1824.1   10027.6   1825.2   10037.5   1826.2   10046.3
GR   1827.7   10055.7   1827.9   10091.4   1829.1   10098.6   1831.5   10106.7   1834.5   10331.6
GR   1834.2   10356.3   1833.9   10375.7   1834.1   10392.0   1833.9   10416.2   1834.0   10428.2
GR   1833.8   10435.7   1833.4   10440.7   1835.9   10483.6   1835.9   10490.9   1835.1   10502.3
GR   1834.8   10508.1   1835.4   10518.6   1836.2   10530.9   1837.1   10545.3   1838.1   10559.2
GR   1838.9   10574.2   1839.2   10592.4   1839.3   10612.5   1838.3   10733.7   1836.4   10808.3
GR   1836.4   10832.6   1835.9   10843.0   1837.2   10902.5   1836.9   10914.3   1836.9   10928.5
GR   1837.5   10941.4   1837.6   10946.7   1839.3   10954.1   1841.4   10961.6   1842.7   10971.2
GR   1843.4   10987.0   1843.9   11036.3   1844.4   11045.1   1845.1   11055.3   1845.8   11069.4
GR   1846.3   11084.0   1846.6   11101.9   1846.8   11115.9   1846.7   11135.2   1846.6   11156.6
GR   1845.6   11186.4   1845.2   11212.9   1844.8   11236.0   1844.7   11248.7   1844.5   11261.8
GR   1843.7   11268.0   1844.3   11272.8   1845.1   11329.8   1844.7   11336.3   1844.3   11340.1
GR   1844.2   11342.8   1844.1   11344.5   1844.5   11347.2   1845.1   11352.7   1845.1   11370.5
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GR   1845.3   11393.3   1845.6   11418.5   1845.6   11607.3   1845.1   11630.4   1844.8   11653.0
GR   1844.3   11667.4   1844.0   11678.5   1843.4   11685.3   1844.0   11691.1   1844.6   11698.4
GR   1844.3   11713.9   1845.1   11895.5   1845.1   11908.1   1861.5   12059.0

NH       5       .06   9781.3       .12   9805.1       .035   10051.4       .08   10508.4       .06
NH   11900
ET                     9.1                                                        9794.05     10550
          SECTION NO. BF
X1   29.258       68   9781.3   10051.4     710       710     705
GR   1873.9   9241.8   1873.4   9318.1   1871.6   9410.4   1870.5   9464.7   1868.8   9525.6
GR   1866.6   9587.6   1864.7   9622.2   1862.5   9668.5   1860.8   9680.4   1858.5   9716.2
GR   1856.4   9743.4   1852.7   9781.3   1834.5   9805.1   1831.9   9824.7   1828.7   9842.8
GR   1831.8   9857.3   1832.7   9870.6   1834.1   9915.5   1833.1   9954.2   1831.2   10000.0
GR   1832.3   10016.4   1832.7   10026.1   1844.5   10051.4   1844.3   10107.4   1844.4   10169.9
GR   1844.3   10230.7   1843.9   10274.3   1844.5   10318.2   1843.7   10378.2   1843.3   10417.3
GR   1842.7   10451.7   1842.2   10494.3   1843.0   10508.4   1851.4   10543.7   1853.0   10566.0
GR   1853.0   10613.6   1852.7   10630.2   1852.3   10687.7   1852.4   10733.6   1851.6   10778.0
GR   1850.2   10844.1   1849.9   10883.2   1849.8   10916.0   1851.1   10972.7   1852.4   11018.7
GR   1852.0   11055.7   1851.9   11104.4   1851.9   11149.5   1851.9   11198.7   1852.4   11267.8
GR   1850.9   11322.3   1849.9   11350.2   1849.3   11384.1   1849.8   11433.0   1850.0   11470.6
GR   1850.3   11500.7   1849.9   11530.8   1849.9   11542.8   1849.2   11549.2   1849.9   11554.0
GR   1850.3   11578.5   1852.8   11624.4   1859.0   11659.0   1863.8   11692.5   1867.6   11719.4
GR   1870.6   11759.5   1872.3   11813.6   1872.8   11900.0     0.0      0.0      0.0      0.0

NH       8       .06   9698.1       .04   9758.1       .12   9861.3       .05   9979.9       .045
NH   10064       .07   10296.9       .12   10566.0       .06   11835.3
ET                     9.1                                                         9695     10400
          SECTION NO. BG
X1   29.351       73   9684.3   10342.3     500       490     490
GR   1879.3   9017.0   1878.9   9080.8   1878.8   9185.5   1878.6   9229.9   1877.8   9305.6
GR   1875.7   9400.7   1873.2   9483.5   1871.1   9537.5   1867.6   9598.8   1865.5   9622.6
GR   1864.0   9651.1   1858.9   9668.9   1849.7   9684.3   1836.7   9698.1   1839.1   9722.5
GR   1838.9   9741.4   1836.7   9747.3   1836.8   9758.1   1838.3   9768.8   1841.6   9795.9
GR   1839.9   9818.1   1839.5   9839.0   1842.7   9861.3   1845.3   9879.5   1839.0   9898.0
GR   1841.0   9912.1   1841.4   9924.3   1842.3   9957.8   1838.9   9979.9   1835.9   10000.0
GR   1836.7   10027.2   1838.0   10064.0   1841.9   10092.9   1842.0   10150.2   1840.3   10186.7
GR   1842.3   10213.0   1840.9   10230.5   1841.3   10250.0   1845.9   10277.5   1847.8   10296.9
GR   1848.9   10317.0   1849.3   10342.3   1849.2   10371.3   1848.8   10418.4   1849.3   10471.2
GR   1848.5   10503.3   1847.1   10544.6   1847.7   10566.0   1854.4   10595.3   1855.1   10636.1
GR   1855.9   10683.1   1856.4   10767.8   1857.3   10854.4   1856.9   10922.5   1856.4   11006.0
GR   1855.5   11077.9   1854.8   11126.1   1854.5   11200.5   1854.1   11262.7   1853.9   11334.4
GR   1853.6   11391.9   1853.5   11423.7   1852.0   11431.0   1852.4   11453.7   1853.5   11481.8
GR   1854.1   11506.1   1857.2   11549.3   1864.5   11591.6   1870.4   11621.8   1873.2   11647.9
GR   1875.5   11693.3   1876.8   11761.7   1876.9   11835.3     0.0      0.0      0.0      0.0

NH       8       .06   9575.8       .04   9645.2       .12   9749.9       .05   9960.2       .025
NH   10037       .05   10302.4       .12   10486.8       .06   11673.1
ET                     9.1                                                         9570     10303
          SECTION NO. BH
X1   29.387       73   9481.0   10302.4     190       200     190
GR   1881.1   8940.4   1881.1   9010.2   1880.7   9106.7   1879.8   9199.1   1878.3   9279.0
GR   1877.3   9311.3   1875.4   9384.2   1872.1   9440.1   1854.2   9481.0   1841.8   9493.6
GR   1841.9   9511.4   1844.7   9527.3   1844.5   9552.5   1839.3   9575.8   1840.8   9604.6
GR   1839.1   9627.7   1840.2   9645.2   1844.3   9667.5   1845.0   9682.9   1842.2   9722.4
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GR   1839.9    9732.0    1841.8    9742.2    1839.7    9749.9    1840.9    9757.7    1847.4    9778.9
GR   1847.6    9822.3    1843.7    9845.5    1845.0    9863.2    1844.6    9906.2    1842.7    9921.9
GR   1839.7    9960.2    1838.8    9986.9    1839.8   10000.0    1839.3   10037.0    1838.9   10066.4
GR   1843.9   10082.0    1845.2   10107.4    1844.2   10128.4    1845.0   10146.8    1843.4   10179.3
GR   1845.8   10240.2    1845.8   10277.7    1850.7   10302.4    1850.5   10351.2    1850.5   10398.2
GR   1850.2   10434.3    1848.9   10467.4    1849.5   10486.8    1857.7   10517.6    1858.8   10543.3
GR   1859.2   10586.4    1858.3   10698.3    1859.0   10743.2    1858.8   10806.2    1858.1   10864.4
GR   1856.6   10934.6    1856.1   10983.5    1855.6   11098.5    1855.6   11148.5    1855.0   11182.7
GR   1855.0   11220.3    1854.3   11282.9    1854.9   11304.9    1855.2   11347.2    1856.3   11400.1
GR   1857.4   11417.6    1860.6   11440.0    1864.5   11462.5    1868.8   11488.2    1871.4   11511.3
GR   1876.3   11568.9    1877.5   11612.0    1878.3   11673.1       0.0       0.0       0.0       0.0

NH      11      .065    9195.2       .08    9357.2       .04    9442.5       .06    9618.4      .033
NH    9786       .06    9831.7      .025    9905.8       .08    9951.2      .025   10024.4       .08
NH   10195       .06   11156.1
ET                        9.1                                                      9300     10160
          SECTION NO. BI
X1   29.493        97    9184.2   10047.8       610       520       560
GR   1874.4    9149.8    1855.3    9184.2    1850.5    9195.2    1850.5    9301.4    1850.3    9318.7
GR   1850.8    9328.7    1850.7    9336.2    1846.3    9357.2    1843.9    9369.9    1843.9    9375.9
GR   1845.3    9381.2    1843.4    9386.0    1843.5    9398.2    1844.2    9402.5    1843.8    9410.6
GR   1845.6    9421.7    1845.7    9428.0    1848.0    9442.5    1848.1    9450.2    1847.9    9459.5
GR   1847.4    9471.8    1845.8    9480.0    1846.6    9486.4    1847.6    9503.9    1847.9    9515.6
GR   1847.4    9523.9    1848.2    9534.1    1849.3    9543.7    1849.5    9563.8    1850.7    9572.1
GR   1850.8    9582.2    1850.6    9618.4    1847.2    9647.1    1846.8    9657.9    1846.6    9664.4
GR   1847.2    9669.9    1846.1    9679.3    1849.6    9696.8    1848.9    9711.8    1848.6    9717.0
GR   1849.3    9732.5    1848.9    9747.1    1846.3    9758.6    1845.5    9765.8    1845.4    9772.0
GR   1847.0    9786.0    1849.1    9807.2    1849.2    9819.2    1847.5    9831.7    1847.3    9838.8
GR   1847.5    9852.3    1845.8    9868.6    1845.9    9877.5    1844.4    9885.7    1844.5    9896.5
GR   1847.2    9905.8    1847.6    9907.0    1847.9    9915.7    1847.8    9951.2    1845.4    9989.8
GR   1845.2   10000.0    1844.8   10018.0    1845.6   10024.4    1850.7   10038.6    1850.8   10047.8
GR   1850.3   10063.5    1850.7   10071.1    1850.9   10089.3    1849.2   10099.8    1848.8   10106.4
GR   1849.1   10109.9    1854.8   10142.8    1855.2   10156.3    1854.4   10167.1    1853.8   10187.9
GR   1853.4   10195.0    1853.7   10201.6    1855.5   10210.2    1860.2   10225.6    1862.6   10240.3
GR   1863.0   10249.4    1862.6   10329.4    1862.3   10374.5    1862.0   10418.7    1861.8   10438.9
GR   1860.9   10489.3    1860.0   10521.3    1860.0   10566.4    1859.3   10614.5    1859.1   10709.5
GR   1858.8   10746.9    1858.3   10900.5    1857.1   10975.4    1856.3   10979.4    1857.2   10986.4
GR   1857.6   11076.5    1864.2   11156.1

NH       6       .06    9545.0      .025    9838.1       .08    9948.9      .028   10016.1      .065
NH   10268       .06   11095.6
ET                        9.1                                                      9300     10120
          SECTION NO. BJ
X1   29.538        66    9041.5   10085.4       270       230       240
GR   1902.0    8246.0    1900.8    8311.8    1900.5    8455.0    1898.6    8561.6    1897.7    8661.5
GR   1897.0    8741.1    1897.4    8799.7    1896.9    8821.4    1887.7    8859.6    1883.8    8880.0
GR   1881.4    8939.9    1877.1    8990.7    1873.0    9016.0    1869.7    9041.5    1852.7    9096.6
GR   1854.5    9109.2    1856.5    9115.6    1855.8    9129.7    1855.0    9160.4    1856.2    9182.2
GR   1856.6    9231.6    1856.8    9294.3    1855.1    9331.2    1853.7    9372.5    1850.6    9376.2
GR   1854.1    9382.6    1854.4    9400.2    1848.9    9419.1    1850.1    9441.4    1851.4    9480.9
GR   1851.9    9528.0    1851.1    9545.0    1849.7    9586.2    1850.4    9625.5    1850.7    9667.0
GR   1850.1    9703.9    1852.7    9733.9    1851.0    9774.5    1851.2    9838.1    1850.5    9871.5
GR   1850.9    9915.1    1848.7    9948.9    1848.7    9970.4    1847.4    9990.7    1845.5   10000.0
GR   1848.1   10016.1    1854.1   10034.4    1856.5   10071.6    1857.7   10085.4    1865.2   10113.1
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GR   1865.3   10131.5   1865.3   10177.4   1864.7   10268.0   1863.8   10334.0   1862.6   10394.5
GR   1862.5   10495.0   1861.7   10617.9   1860.6   10708.3   1859.7   10789.8   1858.7   10853.2
GR   1859.1   10924.4   1860.2   10984.3   1860.9   11013.8   1865.4   11042.8   1870.4   11071.0
GR   1873.7   11095.6      0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0

NH       7       .06   9679.0      .035    9734.3      .025    9832.4       .06    9885.6       .03
NH   10019       .12  10084.7       .06   10576.9
ET                        9.1                                                      9500     10060
          SECTION NO. BK
X1   29.601        57   9286.8   10084.7       370       330       330
GR   1899.6    8309.6   1895.8    8336.2    1895.1    8388.7    1892.6    8506.6    1890.0    8591.9
GR   1889.0    8627.0   1888.1    8677.8    1887.8    8680.1    1886.3    8715.4    1883.1    8756.0
GR   1880.1    8788.7   1875.3    8844.2    1873.3    8892.4    1871.6    8918.0    1870.1    8927.3
GR   1866.9    8950.7   1869.8    8978.9    1871.3    8992.6    1872.0    9020.0    1873.3    9067.4
GR   1872.9    9099.7   1868.4    9117.8    1856.1    9156.4    1859.0    9183.7    1860.0    9210.1
GR   1861.3    9257.3   1861.4    9286.8    1859.7    9337.3    1857.8    9385.8    1857.6    9431.3
GR   1856.4    9472.7   1856.9    9515.2    1858.9    9628.9    1859.4    9679.0    1858.5    9695.4
GR   1850.7    9710.3   1849.9    9734.3    1851.2    9784.6    1852.1    9797.7    1854.3    9832.4
GR   1854.8    9848.1   1853.5    9885.6    1851.5    9929.9    1851.1    9960.4    1851.0   10000.0
GR   1852.2   10019.0   1857.7   10035.2    1859.0   10046.6    1867.1   10060.2    1867.9   10084.7
GR   1868.6   10148.0   1866.9   10212.3    1865.8   10279.4    1865.6   10368.3    1864.9   10464.0
GR   1864.5   10530.9   1864.4   10576.9       0.0       0.0       0.0       0.0       0.0       0.0

NH       6       .06   9803.9      .035    9860.9      .025    9897.3       .03    9955.8       .08
NH   10159.      .06  11621.1
ET                        9.1                                                      9650     10100
          SECTION NO. BL
X1   29.663        76   9615.1   10201.4       330       330       330
X3      10
GR   1896.6    8459.7   1895.3    8493.7    1892.4    8547.8    1887.0    8607.3    1883.6    8644.3
GR   1880.2    8701.8   1876.7    8748.6    1878.0    8771.0    1878.1    8817.6    1878.2    8850.5
GR   1876.5    8922.5   1876.6    8974.4    1876.7    9031.2    1876.6    9069.8    1876.1    9105.9
GR   1874.6    9166.0   1872.5    9201.1    1863.4    9233.9    1862.8    9246.8    1861.7    9249.5
GR   1862.7    9260.3   1863.9    9285.2    1863.9    9323.9    1862.6    9357.9    1861.5    9384.7
GR   1861.4    9410.2   1859.9    9415.8    1861.1    9422.9    1861.9    9440.6    1862.0    9468.3
GR   1860.9    9496.9   1860.7    9538.0    1861.5    9590.4    1862.3    9615.1    1862.6    9670.5
GR   1862.3    9768.0   1862.5    9803.9    1851.7    9827.7    1850.9    9840.5    1850.9    9860.9
GR   1855.7    9874.4   1856.0    9897.3    1855.5    9915.3    1853.8    9942.7    1854.0    9955.8
GR   1853.5    9975.1   1853.7   10000.0    1852.9   10025.2    1857.5   10051.5    1857.6   10075.7
GR   1856.9   10106.8   1856.8   10159.0    1869.1   10194.6    1889.3   10201.4    1868.3   10267.8
GR   1867.0   10357.1   1866.3   10470.9    1865.3   10617.8    1864.6   10698.7    1863.6   10792.8
GR   1863.0   10866.7   1862.8   10916.7    1862.3   11013.8    1862.2   11096.0    1861.1   11189.3
GR   1860.8   11221.1   1861.2   11253.5    1861.8   11281.8    1866.3   11330.4    1870.2   11375.2
GR   1872.3   11405.3   1875.3   11430.0    1877.9   11475.0    1879.5   11503.5    1879.9   11597.5
GR   1880.1   11621.1      0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0

NH       5       .06   9701.3      .045    9754.3      .035   10021.8      .045   10118.9       .06
NH   11857
ET                        9.1                                                      9733     10033
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          SECTION NO. BM (SECTION BN MOVED 50' DWNSTREAM TO FRONT OF BRIDGE)
X1   29.710       96     9701.3    10118.9       600       150       310
X3       10                                                          1890      1890
GR   1881.0    8869.7    1875.2     9089.8    1872.2    9267.2    1871.6    9310.0    1871.7    9352.8
GR   1872.2    9380.5    1871.8     9412.4    1872.8    9448.1    1874.0    9474.7    1873.7    9503.7
GR   1873.2    9542.0    1873.7     9579.5    1874.5    9622.3    1875.6    9662.1    1875.9    9682.6
GR   1876.0    9701.3    1875.4     9704.0    1874.0    9709.9    1871.4    9716.1    1869.9    9721.6
GR   1864.2    9735.7    1856.1     9754.3    1857.1    9763.3    1857.3    9778.1    1857.6    9789.9
GR   1858.4    9797.7    1857.9     9801.7    1856.2    9808.5    1857.6    9815.1    1857.8    9821.2
GR   1858.6    9827.3    1858.7     9831.6    1857.1    9838.0    1857.4    9844.0    1857.8    9850.1
GR   1857.8    9858.2    1857.5     9863.8    1857.4    9870.6    1856.7    9883.0    1857.3    9896.4
GR   1856.7    9909.7    1856.1     9933.9    1856.0    9961.3    1856.1    9974.3    1856.0    9982.0
GR   1856.1    9990.0    1855.0    10000.0    1855.5   10010.9    1856.0   10015.7    1856.1   10021.8
GR   1862.8   10037.2    1868.7    10048.3    1870.3   10053.9    1873.4   10061.7    1874.8   10069.4
GR   1875.2   10080.2    1875.9    10100.9    1876.1   10118.9    1870.7   10502.3    1870.7   10527.2
GR   1870.5   10554.0    1870.1    10584.3    1870.1   10612.2    1870.0   10652.5    1869.9   10692.1
GR   1869.8   10728.8    1870.2    10762.6    1870.4   10798.7    1870.4   10838.7    1870.1   10874.8
GR   1870.7   10908.0    1870.8    10945.0    1871.1   10983.0    1871.1   11020.3    1871.7   11048.8
GR   1871.4   11103.7    1871.9    11155.4    1872.1   11192.7    1872.6   11226.4    1872.8   11254.8
GR   1873.4   11280.1    1872.8    11316.3    1873.1   11353.6    1873.2   11395.3    1873.3   11439.8
GR   1873.3   11476.6    1873.3    11528.1    1873.3   11573.8    1873.5   11620.9    1874.0   11659.9
GR   1874.3   11705.5    1874.3    11737.2    1874.3   11763.1    1874.8   11796.6    1874.8   11826.7
GR   1875.0   11857.0

SB     1.05       1.6       2.6          0       220        12      4032         2
          SECTION NO. BN
X1   29.720         0                              50        50        50       .87
X2                             1      1871    1879.8
X3       10                                                          1880      1880

NH       5       .06    9764.6       .045    9792.9      .035   10024.3      .045   10051.1       .06
NH   10787
          SECTION NO. BO
X1   29.770        97    9754.0    10051.1        50       550       200
X3       10
GR   1874.0    9195.0    1872.0     9222.0    1866.0    9240.0    1865.3    9317.8    1864.7    9340.9
GR   1864.3    9364.1    1864.3     9384.2    1863.8    9408.0    1863.5    9431.7    1863.0    9449.0
GR   1862.2    9466.8    1862.2     9475.2    1863.5    9490.2    1863.7    9505.3    1863.7    9522.1
GR   1863.0    9551.4    1861.9     9569.0    1862.1    9588.5    1862.0    9603.5    1861.5    9622.2
GR   1861.5    9640.6    1861.5     9655.1    1861.8    9676.4    1862.3    9689.2    1862.6    9698.9
GR   1862.8    9707.3    1863.6     9720.0    1864.1    9724.1    1867.1    9736.3    1870.0    9745.8
GR   1890.6    9754.0    1870.5     9759.7    1870.5    9764.6    1866.9    9772.8    1861.7    9782.5
GR   1857.2    9792.9    1858.2     9802.0    1858.2    9809.5    1857.9    9816.4    1859.0    9826.1
GR   1859.3    9835.1    1859.5     9844.1    1859.7    9852.3    1859.7    9862.1    1859.7    9869.9
GR   1859.5    9875.9    1858.5     9886.4    1858.2    9898.8    1857.6    9911.3    1857.4    9924.8
GR   1857.3    9935.5    1857.3    10000.0    1857.3   10011.1    1857.5   10018.8    1857.9   10021.8
GR   1858.4   10024.3    1864.1    10033.6    1869.2   10042.5    1872.7   10051.1    1872.9   10060.7
GR   1873.3   10073.5    1873.2    10084.0    1871.8   10141.5    1872.1   10152.9    1872.1   10160.1
GR   1872.6   10169.7    1872.8    10179.7    1872.8   10189.5    1872.6   10200.2    1872.5   10209.2
GR   1872.6   10217.2    1872.2    10222.4    1872.4   10229.1    1872.4   10234.9    1872.7   10240.7
GR   1872.8   10247.2    1872.7    10252.6    1873.4   10339.8    1872.7   10437.7    1873.2   10477.4
GR   1873.4   10499.1    1873.2    10526.5    1873.2   10551.5    1873.3   10650.6    1873.8   10671.9
GR   1873.5   10686.9    1873.5    10698.8    1873.5   10710.3    1873.5   10717.7    1873.1   10725.7
GR   1872.2   10729.2    1872.8    10733.1    1873.3   10736.3    1873.5   10745.4    1873.9   10756.2
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GR   1874.6    10763.7    1877.6    10787.0

NH       3        .06    9945.1       .035   10029.3       .06    10929.0
ET                         9.1                                                 9448.5    10043.5
          SECTION NO. BP (NEW SECTION ADDED @ 400' UPSTREAM OF 68)
X1   29.850        30    9945.1    10029.3       400       400       400
GR   1874.2    9386.0    1872.0     9406.8    1870.0    9413.5    1868.0    9438.9    1868.0    9481.0
GR   1868.0    9504.5    1866.0     9513.0    1861.6    9540.0    1862.0    9546.7    1862.3    9560.2
GR   1862.0    9575.4    1862.0     9587.2    1870.0    9609.1    1870.4    9646.3    1868.0    9735.6
GR   1868.0    9757.6    1866.0     9924.1    1864.0    9938.5    1860.0    9945.1    1857.7   10015.9
GR   1858.0   10029.3    1872.0    10043.7    1878.0   10081.4    1880.0   10127.5    1881.0   10216.4
GR   1881.0   10379.0    1880.0    10480.0    1879.5   10677.0    1892.0   10789.0    1899.0   10929.0

ET                         9.1                                                9312.74   10022.59
NC   0.055      0.055    0.050       0.1       0.3
X1   30.10         95    9935.6    10010.8      1100      1325      1304
GR   1891.1    8677.7    1891.0     8723.4    1877.9    8748.2    1876.5    8752.9    1876.7    8761.6
GR   1876.3    8768.6    1875.4     8769.6    1875.5    8775.4    1876.0    8780.0    1877.6    8784.7
GR   1878.0    8810.6    1880.1     8825.4    1880.5    8835.2    1878.9    8853.0    1878.7    8859.3
GR   1879.6    8871.3    1879.8     8893.2    1878.8    8898.7    1879.2    8919.7    1879.6    8949.0
GR   1880.2    8960.2    1879.8     8969.0    1879.8    8976.6    1879.2    8981.3    1879.0    8985.8
GR   1880.1    8991.6    1879.7     9014.6    1878.5    9024.5    1878.9    9044.7    1879.9    9052.4
GR   1880.2    9074.7    1879.6     9091.5    1880.3    9099.2    1880.2    9129.6    1879.9    9149.6
GR   1880.3    9155.3    1880.8     9201.4    1880.9    9227.8    1876.8    9243.7    1876.3    9255.3
GR   1874.4    9276.4    1874.2     9307.4    1872.2    9329.9    1872.1    9342.0    1873.5    9355.7
GR   1876.3    9390.0    1873.5     9392.9    1871.8    9404.0    1873.1    9420.7    1874.2    9425.8
GR   1876.8    9428.7    1878.7     9441.3    1877.8    9466.4    1877.8    9482.9    1880.2    9496.3
GR   1881.2    9512.7    1880.1     9529.5    1878.9    9533.3    1877.0    9544.7    1877.4    9559.8
GR   1878.1    9578.4    1879.3     9589.9    1877.1    9614.6    1874.0    9616.6    1874.7    9633.8
GR   1871.3    9643.6    1872.3     9667.4    1871.1    9672.6    1870.2    9693.9    1870.3    9702.5
GR   1870.2    9710.4    1870.2     9713.9    1870.5    9717.8    1872.1    9722.8    1873.4    9730.9
GR   1874.4    9755.3    1874.7     9768.6    1882.1    9784.4    1880.6    9788.6    1881.3    9817.8
GR   1880.8    9831.9    1880.6     9848.5    1879.2    9860.4    1875.7    9872.6    1875.0    9880.1
GR   1874.0    9891.8    1873.0     9935.6    1868.2    9949.8    1867.4   10000.0    1869.6   10010.8
GR   1895.1   10037.3    1895.1    10037.9    1896.7   10060.7    1900.0   10112.5    1898.5   10131.0

ET                         9.1                                                9405.25   10111.27

X1   30.20         67    9927.7    10093.2       535       545       537
GR   1898.0    8838.6    1897.7     8918.9    1897.8    8955.2    1882.4    8990.0    1882.3    9006.7
GR   1880.4    9026.6    1881.9     9036.8    1882.0    9055.2    1883.7    9073.3    1885.0    9087.5
GR   1885.1    9107.0    1884.1     9146.3    1884.8    9156.0    1884.6    9163.5    1881.8    9170.8
GR   1881.9    9184.0    1883.3     9194.2    1882.7    9204.0    1882.0    9235.3    1882.4    9246.9
GR   1882.3    9262.4    1883.5     9272.2    1884.4    9292.3    1883.6    9312.7    1884.0    9324.9
GR   1881.6    9337.9    1881.1     9347.9    1882.5    9366.0    1882.6    9381.9    1886.1    9390.1
GR   1885.7    9418.6    1885.3     9444.1    1884.4    9457.3    1883.0    9490.0    1883.8    9504.1
GR   1883.3    9523.8    1882.6     9544.2    1883.4    9564.4    1882.0    9590.9    1883.3    9616.7
GR   1883.5    9641.3    1879.3     9663.9    1879.5    9669.6    1882.3    9684.6    1882.8    9695.5
GR   1881.9    9707.0    1879.8     9714.1    1879.9    9731.2    1882.8    9741.7    1883.0    9753.1
GR   1883.3    9796.0    1884.1     9822.3    1883.7    9859.0    1882.9    9887.8    1882.8    9900.1
GR   1876.5    9927.7    1875.8     9939.7    1877.0    9976.9    1876.1   10000.0    1876.4   10000.6
GR   1877.9   10021.2    1878.8    10045.5    1878.2   10069.8    1876.0   10086.0    1875.2   10093.2
GR   1897.9   10132.3    1899.9    10165.4       0.0       0.0       0.0       0.0       0.0       0.0
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ET			9.1						9454.46	10030.37
X1	30.28	64	9908.6	10014.5	550	430	421			
GR	1903.3	8939.5	1902.9	9041.8	1902.9	9088.5	1902.4	9120.6	1901.6	9132.4
GR	1889.1	9162.5	1887.8	9171.2	1889.5	9181.6	1888.4	9200.7	1889.3	9222.8
GR	1889.4	9250.8	1888.4	9258.1	1890.0	9264.4	1889.7	9292.2	1885.8	9302.2
GR	1890.1	9316.4	1889.7	9337.0	1890.2	9351.6	1889.3	9372.3	1888.4	9388.9
GR	1887.0	9396.9	1886.6	9406.9	1888.0	9427.9	1888.6	9442.8	1887.8	9470.0
GR	1886.1	9480.9	1889.3	9491.8	1889.4	9507.6	1889.8	9529.7	1890.2	9550.4
GR	1889.5	9595.4	1889.6	9616.6	1887.7	9631.3	1887.0	9649.0	1889.5	9679.4
GR	1888.6	9694.4	1886.6	9704.9	1889.5	9717.5	1890.4	9732.1	1890.0	9751.7
GR	1888.7	9775.3	1888.0	9814.0	1885.9	9833.6	1885.2	9864.5	1885.2	9881.7
GR	1884.3	9895.3	1881.8	9908.6	1880.9	9934.5	1879.7	9947.3	1878.3	9978.3
GR	1877.8	9989.9	1877.8	10000.0	1877.1	10008.3	1877.5	10014.5	1894.3	10033.5
GR	1894.2	10052.0	1893.4	10082.3	1893.3	10109.9	1894.4	10160.5	1895.5	10190.2
GR	1896.8	10226.7	1898.6	10240.5	1898.8	10255.3	1900.6	10274.9	0.0	0.0
ET			9.1						9630.32	10401.71
X1	30.42	51	9970.3	10052.9	500	650	713			
GR	1907.9	9331.9	1907.4	9422.1	1907.0	9476.5	1906.6	9501.6	1893.1	9533.0
GR	1893.6	9568.7	1892.9	9613.1	1891.9	9621.6	1892.9	9631.9	1892.9	9666.7
GR	1894.3	9714.6	1894.8	9733.5	1894.8	9755.5	1894.6	9800.7	1895.2	9854.8
GR	1892.9	9868.0	1893.9	9893.2	1893.6	9900.4	1890.9	9907.3	1890.6	9918.4
GR	1895.4	9931.2	1895.6	9957.5	1890.3	9970.3	1887.8	9999.9	1888.1	10000.0
GR	1889.6	10037.1	1890.3	10052.9	1892.7	10080.7	1892.4	10102.6	1891.7	10123.6
GR	1891.1	10145.5	1885.8	10159.9	1889.0	10186.9	1889.8	10200.7	1892.1	10211.4
GR	1890.7	10239.2	1888.3	10258.2	1893.0	10277.2	1892.4	10320.1	1889.9	10362.3
GR	1889.7	10390.2	1891.4	10402.9	1890.9	10438.8	1890.9	10443.0	1893.1	10455.4
GR	1900.1	10487.8	1901.5	10552.6	1902.3	10607.2	1903.6	10632.8	1907.6	10663.6
GR	1910.8	10683.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET			9.1						9600.24	10300.97
X1	30.52	65	9983.4	10061.8	600	500	560			
GR	1912.5	9225.3	1911.6	9249.4	1909.9	9265.3	1904.7	9283.8	1900.8	9298.0
GR	1900.0	9312.1	1900.7	9317.2	1900.5	9342.0	1900.8	9401.2	1900.4	9431.3
GR	1900.9	9463.0	1900.8	9498.9	1900.4	9566.3	1899.9	9630.3	1898.8	9637.4
GR	1900.0	9649.8	1900.1	9696.8	1899.9	9721.3	1899.1	9744.6	1897.8	9748.0
GR	1899.3	9757.6	1899.2	9771.0	1899.6	9785.1	1898.4	9791.1	1900.4	9811.3
GR	1900.9	9826.1	1900.0	9851.7	1898.1	9872.3	1894.7	9876.3	1894.9	9887.7
GR	1895.0	9902.1	1897.4	9914.0	1898.2	9933.1	1896.5	9965.0	1893.6	9983.4
GR	1893.8	10000.0	1894.3	10021.0	1893.5	10049.4	1894.0	10061.8	1894.9	10068.7
GR	1898.8	10095.2	1898.9	10107.9	1898.9	10132.4	1898.1	10161.8	1899.0	10213.6
GR	1899.0	10221.1	1898.8	10242.8	1897.4	10260.3	1896.9	10275.9	1893.8	10291.0
GR	1894.4	10300.9	1900.1	10323.3	1899.8	10340.6	1898.7	10361.4	1896.7	10366.8
GR	1899.3	10383.8	1903.8	10401.4	1904.8	10420.5	1905.3	10440.2	1906.2	10499.1
GR	1907.2	10532.2	1908.4	10552.2	1909.5	10577.7	1912.5	10598.8	1914.5	10618.9

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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300
1490 NH CARD USED
*SECNO 24.525

3265 DIVIDED FLOW

SECTION NO. A

24.525	11.13	1633.13	1627.94	1632.00	1633.23	.10	.00	.00	1629.30
38200.0	19893.8	3547.3	14758.9	7383.8	1266.7	6815.6	.0	.0	1628.10
.00	2.69	2.80	2.17	.120	.120	.120	.000	1622.00	8856.17
.003004	0.	0.	0.	0	14	4	.00	2565.47	11431.46

FLOW DISTRIBUTION FOR SECNO= 24.52 CWSEL= 1633.13

STA=	8856.	9090.	9210.	9300.	9740.	9861.	10009.	10189.	10290.	10382.	10487.	10536.	10584.
PER Q=	8.8	10.2	7.1	23.6	2.4	9.3	4.0	3.1	4.6	4.7	3.1	3.1	
AREA=	1373.4	1220.7	875.8	3401.5	512.5	1266.7	809.6	551.4	679.1	726.9	414.3	413.7	
VEL=	2.4	3.2	3.1	2.7	1.8	2.8	1.9	2.1	2.6	2.5	2.8	2.8	
DEPTH=	5.9	10.2	9.7	7.7	4.3	8.5	4.5	5.5	7.3	6.9	8.6	8.5	

STA=	10584.	10647.	10723.	10800.	11061.	11431.
PER Q=	3.2	3.0	3.4	3.7	2.9	
AREA=	472.2	491.2	524.6	888.8	843.9	
VEL=	2.6	2.4	2.4	1.6	1.3	
DEPTH=	7.5	6.5	6.8	3.4	2.3	

1490 NH CARD USED
*SECNO 24.646

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

SECTION NO. B

24.646	10.13	1636.13	1634.53	.00	1636.48	.35	3.17	.07	1630.50
38200.0	13495.3	5254.2	19450.5	3791.1	1238.6	3540.1	189.6	36.9	1630.50
.04	3.56	4.24	5.49	.115	.120	.062	.000	1626.00	8807.41
.008100	760.	640.	620.	3	13	0	.00	2202.50	11064.03

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

FLOW DISTRIBUTION FOR SECNO= 24.65 CWSEL= 1636.13

STA=	8807.	8960.	9160.	9330.	9430.	9535.	9580.	9746.	9796.	9943.	10035.	10044.	10085.
PER Q=	3.1	8.9	10.2	5.2	5.5	2.5	13.8	3.0	3.2	16.1	3.1	11.3	
AREA=	304.4	1025.9	1042.0	562.9	591.1	264.6	1238.6	309.1	481.4	582.4	75.4	299.0	
VEL=	3.9	3.3	3.7	3.5	3.5	3.6	4.2	3.8	2.5	10.6	15.7	14.4	
DEPTH=	2.0	5.1	6.1	5.6	5.6	5.9	7.5	6.2	3.3	6.3	8.4	7.3	

STA=	10085.	10119.	10385.	10665.	11064.
PER Q=	6.5	3.0	3.2	1.5	
AREA=	201.3	595.5	593.8	402.1	
VEL=	12.3	1.9	2.0	1.4	
DEPTH=	5.8	2.2	2.1	1.0	

1490 NH CARD USED
*SECNO 24.752

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. C

24.752	10.69	1639.89	1639.52	.00	1641.45	1.56	4.61	.36	1632.90
38200.0	1981.7	12108.4	24109.9	641.3	782.3	3924.8	282.7	59.6	1638.30
.06	3.09	15.48	6.14	.120	.035	.060	.000	1629.20	8735.73
.008838	850.	560.	430.	2	8	0	.00	1413.32	10185.49

FLOW DISTRIBUTION FOR SECNO= 24.75 CWSEL= 1639.89

STA=	8736.	8836.	8896.	8997.	9065.	9094.	9205.	9223.	9247.	9420.	9577.	9707.	9914.
PER Q=	3.2	1.9	31.7	3.3	6.1	19.9	5.0	3.8	3.5	3.0	4.1	5.0	
AREA=	413.1	228.2	782.3	161.8	176.7	611.6	129.0	120.3	481.9	445.3	510.0	644.6	
VEL=	3.0	3.3	15.5	7.8	13.3	12.4	14.7	12.0	2.8	2.6	3.1	3.0	
DEPTH=	4.1	3.8	7.7	2.4	6.1	5.5	7.1	5.1	2.8	2.8	3.9	3.1	

STA=	9914.	9990.	10010.	10185.
PER Q=	3.4	4.4	1.6	
AREA=	251.6	125.5	266.5	
VEL=	5.1	13.5	2.3	
DEPTH=	3.3	6.2	1.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 24.845

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. D

24.845	10.62	1645.92	1644.37	.00	1646.54	.62	5.01	.09	1646.70
38200.0	365.0	9236.3	28598.8	279.3	922.8	6228.8	355.3	77.4	1641.90
.08	1.31	10.01	4.59	.120	.069	.104	.000	1635.30	8309.44
.011827	560.	490.	490.	2	9	0	.00	1679.69	10061.15

FLOW DISTRIBUTION FOR SECNO= 24.84 CWSEL= 1645.92

STA=	8309.	8639.	8786.	8849.	8894.	8981.	9055.	9103.	9183.	9259.	9346.	9407.	9449.
PER Q=	1.0	24.2	3.4	3.5	3.3	3.1	3.6	4.2	3.1	5.1	3.6	3.1	
AREA=	279.3	922.8	325.7	288.2	359.8	320.0	302.1	401.0	332.3	464.5	328.3	262.8	
VEL=	1.3	10.0	4.0	4.6	3.5	3.7	4.6	4.0	3.6	4.2	4.1	4.6	
DEPTH=	.8	9.1	5.2	6.4	4.1	4.4	6.2	5.0	4.4	5.4	5.4	6.3	

STA=	9449.	9527.	9624.	9711.	9750.	9807.	9961.	10000.	10028.	10061.
PER Q=	3.2	3.5	3.7	3.5	3.4	5.7	4.4	8.2	3.1	
AREA=	340.3	392.2	388.9	270.7	308.7	630.7	193.1	190.3	129.2	
VEL=	3.6	3.4	3.7	4.9	4.2	3.5	8.8	16.5	9.3	
DEPTH=	4.4	4.0	4.5	7.0	5.4	4.1	5.0	6.8	3.9	

1490 NH CARD USED
*SECNO 24.919

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

SECTION NO. E

24.919	13.83	1648.73	1645.79	.00	1649.31	.58	2.76	.00	1650.40
38200.0	251.8	12895.0	25053.2	256.6	1378.9	7281.3	422.7	92.2	1643.60
.10	.98	9.35	3.44	.120	.045	.102	.000	1634.90	8101.99
.005315	460.	390.	350.	3	5	0	.00	1785.97	10006.71

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

FLOW DISTRIBUTION FOR SECNO= 24.92 CWSEL= 1648.73

STA=	8102.	8437.	8604.	8647.	8710.	8768.	8814.	8859.	9046.	9127.	9185.	9303.	9380.
PER Q=	.7	.8	26.2	6.7	3.1	3.6	3.6	7.9	3.2	4.2	4.3	3.3	
AREA=	256.6	179.2	578.0	621.7	379.6	373.8	373.3	1051.8	434.8	452.9	607.7	439.1	
VEL=	1.0	1.6	17.3	4.1	3.1	3.7	3.7	2.9	2.8	3.5	2.7	2.9	
DEPTH=	.8	2.6	13.4	10.0	6.5	8.2	8.3	5.6	5.4	7.8	5.1	5.7	

STA=	9380.	9539.	9611.	9716.	9871.	9972.	10000.	10007.
PER Q=	4.4	3.4	3.8	4.3	7.0	9.4	.1	
AREA=	697.9	430.6	539.0	677.9	528.9	263.1	31.0	
VEL=	2.4	3.0	2.7	2.4	5.0	13.6	1.8	
DEPTH=	4.4	5.9	5.1	4.4	5.2	9.2	4.6	

1490 NH CARD USED
*SECNO 25.010
SECTION NO. F

25.010	10.68	1650.88	1648.01	.00	1651.46	.58	2.15	.00	1646.00
38200.0	4144.6	24965.9	9089.5	1064.7	3506.5	2683.4	518.7	111.0	1648.70
.12	3.89	7.12	3.39	.080	.052	.065	.000	1640.20	8639.92
.003456	410.	480.	550.	3	11	0	.00	1395.30	10035.21

FLOW DISTRIBUTION FOR SECNO= 25.01 CWSEL= 1650.88

STA=	8640.	8744.	8804.	8824.	9223.	9355.	9445.	9818.	9936.	10000.	10020.	10035.
PER Q=	5.5	4.0	1.4	65.4	3.1	3.2	4.0	3.9	5.0	4.2	.4	
AREA=	531.5	398.0	135.1	3506.5	462.0	404.2	766.9	502.7	324.5	160.0	63.1	
VEL=	3.9	3.8	3.8	7.1	2.5	3.0	2.0	3.0	5.9	10.0	2.6	
DEPTH=	5.1	6.6	6.9	8.8	3.5	4.5	2.1	4.3	5.0	8.1	4.1	

1490 NH CARD USED
*SECNO 25.099

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. G

25.099	10.67	1656.67	1656.67	.00	1658.82	2.15	2.07	.47	1652.00
38200.0	13473.8	14061.5	10664.7	3218.6	746.9	3925.3	603.0	128.4	1650.80
.14	4.19	18.83	2.72	.080	.025	.120	.000	1646.00	8628.81
.005617	430.	470.	530.	0	5	0	.00	1687.21	10316.02

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

FLOW DISTRIBUTION FOR SECNO= 25.10 CWSEL= 1656.67

STA=	8629.	8820.	8948.	8988.	9029.	9080.	9150.	9210.	9260.	9337.	9346.	9431.	9558.
PER Q=	3.0	5.5	3.9	3.5	3.6	4.5	4.2	3.5	3.3	.4	36.8	4.7	
AREA=	452.0	495.1	285.9	271.4	300.7	390.1	349.8	293.3	337.3	42.9	746.9	652.1	
VEL=	2.5	4.2	5.2	4.9	4.5	4.4	4.5	4.6	3.7	3.9	18.8	2.8	
DEPTH=	2.4	3.9	7.1	6.6	5.9	5.6	5.9	5.8	4.4	4.7	8.8	5.1	

STA=	9558.	9608.	9731.	9839.	9937.	9991.	10064.	10316.
PER Q=	3.0	3.5	3.9	3.2	3.5	3.1	2.9	
AREA=	340.8	534.8	547.5	463.3	391.3	380.4	615.3	
VEL=	3.4	2.5	2.7	2.6	3.5	3.1	1.8	
DEPTH=	6.9	4.4	5.1	4.7	7.2	5.2	2.4	

1490 NH CARD USED
*SECNO 25.180

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. H

25.180	12.21	1659.91	1658.95	.00	1661.24	1.33	2.34	.08	1654.50
38200.0	6118.0	18288.9	13793.0	1534.1	1411.1	5201.1	686.0	145.8	1653.80
.15	3.99	12.96	2.65	.080	.032	.120	.000	1647.70	8692.83
.004859	500.	430.	430.	3	8	0	.00	1662.62	10502.30

FLOW DISTRIBUTION FOR SECNO= 25.18 CWSEL= 1659.91

STA=	8693.	9057.	9145.	9201.	9214.	9307.	9387.	9490.	9597.	9699.	9786.	9895.	10000.
PER Q=	3.9	6.1	5.0	1.0	7.0	40.9	3.3	3.2	3.3	4.6	4.4	3.5	
AREA=	515.9	534.7	397.6	85.9	596.9	814.1	498.5	506.2	499.2	580.9	602.3	527.5	
VEL=	2.9	4.3	4.8	4.5	4.5	19.2	2.5	2.4	2.5	3.1	2.8	2.6	
DEPTH=	1.4	6.1	7.1	6.7	6.4	10.1	4.8	4.7	4.9	6.7	5.5	5.0	

STA=	10000.	10046.	10097.	10265.	10502.
PER Q=	4.3	3.8	3.1	2.6	
AREA=	430.0	417.4	545.0	594.1	
VEL=	3.8	3.5	2.2	1.7	
DEPTH=	9.3	8.2	3.2	2.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 25.233

SECTION NO. I

25.233	14.50	1661.80	1661.06	.00	1662.75	.95	1.47	.04	1659.60
38200.0	7030.8	13208.8	17960.4	1637.1	1065.0	5621.6	730.5	155.6	1656.00
.16	4.29	12.40	3.19	.064	.035	.120	.000	1647.30	8663.31
.006829	390.	280.	180.	3	8	0	.00	1797.94	10461.25

FLOW DISTRIBUTION FOR SECNO= 25.23 CWSEL= 1661.80

STA=	8663.	8855.	8987.	9193.	9229.	9290.	9341.	9384.	9472.	9559.	9647.	9739.	9881.
PER Q=	3.2	6.9	6.0	2.3	5.5	26.7	2.4	4.8	3.2	3.1	3.2	5.1	
AREA=	423.8	615.3	503.1	94.9	198.3	604.3	262.3	534.3	419.9	416.8	420.1	674.5	
VEL=	2.9	4.3	4.5	9.4	10.7	16.9	3.4	3.4	2.9	2.9	2.9	2.9	
DEPTH=	2.2	4.6	2.5	2.6	3.3	11.7	6.1	6.1	4.8	4.7	4.6	4.7	

STA=	9881.	9957.	10035.	10118.	10170.	10247.	10429.	10461.
PER Q=	3.6	7.0	4.5	3.1	3.8	5.3	.4	
AREA=	424.8	633.5	506.3	330.0	441.2	746.2	74.0	
VEL=	3.2	4.2	3.4	3.6	3.3	2.7	1.9	
DEPTH=	5.6	8.1	6.0	6.4	5.7	4.1	2.3	

1490 NH CARD USED
*SECNO 25.326

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. J

25.326	12.34	1665.34	1665.34	.00	1667.42	2.09	3.82	.34	1661.50
36800.0	2078.0	20249.7	14472.3	515.1	1321.1	4359.5	811.6	173.1	1661.10
.18	4.03	15.33	3.32	.080	.037	.120	.000	1653.00	9177.60
.008828	490.	510.	480.	0	10	0	.00	1345.18	10522.78

FLOW DISTRIBUTION FOR SECNO= 25.33 CWSEL= 1665.34

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

STA=	9178.	9288.	9335.	9472.	9498.	9592.	9855.	9953.	10024.	10091.	10179.	10222.	10282.
PER Q=	3.5	2.2	53.7	1.3	3.3	4.0	3.9	5.8	3.4	3.7	3.1	4.1	
AREA=	330.1	185.0	1186.3	134.8	394.8	664.8	434.3	495.0	354.4	413.8	281.0	374.3	
VEL=	3.9	4.4	16.7	3.5	3.0	2.2	3.3	4.3	3.5	3.3	4.0	4.0	
DEPTH=	3.0	3.9	8.6	5.3	4.2	2.5	4.5	7.0	5.3	4.7	6.5	6.2	

STA=	10282.	10399.	10523.
PER Q=	5.9	2.1	
AREA=	618.0	329.2	
VEL=	3.5	2.4	
DEPTH=	5.3	2.7	

1490 NH CARD USED
*SECNO 25.388

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. K

25.388	12.57	1669.17	1669.17	.00	1671.19	2.02	3.41	.01	1665.90
36800.0	2392.8	18082.7	16324.5	644.4	1137.8	4711.7	864.9	185.0	1660.50
.19	3.71	15.89	3.46	.080	.038	.120	.000	1656.60	9227.65
.009974	350.	360.	370.	0	8	0	.00	1475.65	10721.66

FLOW DISTRIBUTION FOR SECNO= 25.39 CWSEL= 1669.17

STA=	9228.	9409.	9468.	9527.	9606.	9675.	9751.	9857.	10000.	10237.	10307.	10367.	10490.
PER Q=	4.6	1.9	5.0	44.1	3.6	3.0	3.5	3.6	6.4	3.0	3.2	3.0	
AREA=	466.7	177.7	323.1	814.7	353.7	332.1	419.6	475.2	796.1	324.8	312.6	405.4	
VEL=	3.7	3.9	5.7	19.9	3.8	3.4	3.1	2.8	3.0	3.4	3.7	2.7	
DEPTH=	2.6	3.0	5.5	10.3	5.2	4.4	3.9	3.3	3.4	4.6	5.2	3.3	

STA=	10490.	10564.	10603.	10630.	10722.
PER Q=	5.1	3.4	3.5	3.0	
AREA=	450.9	273.0	240.7	327.6	
VEL=	4.2	4.5	5.3	3.3	
DEPTH=	6.1	7.1	8.9	3.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 25.458

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

SECTION NO. L

25.458	12.83	1673.33	1670.37	.00	1673.67	.34	2.31	.17	1669.30
36800.0	11772.6	2132.3	22895.1	2027.6	481.8	5712.0	929.0	197.4	1668.50
.21	5.81	4.43	4.01	.057	.080	.080	.000	1660.50	9582.99
.004144	390.	360.	380.	2	14	0	.00	1378.16	10988.11

FLOW DISTRIBUTION FOR SECNO= 25.46 CWSEL= 1673.33

STA=	9583.	9655.	9722.	9781.	9883.	9942.	10009.	10141.	10265.	10351.	10480.	10559.	10795.
PER Q=	15.8	5.9	3.9	4.5	1.9	5.8	8.2	5.0	4.5	6.8	4.1	13.2	
AREA=	480.2	488.2	358.3	491.4	209.5	481.8	771.5	525.2	458.3	684.5	416.0	1303.2	
VEL=	12.1	4.5	4.0	3.4	3.3	4.4	3.9	3.5	3.6	3.6	3.6	3.7	
DEPTH=	6.7	7.3	6.1	4.8	3.6	7.2	5.8	4.2	5.3	5.3	5.3	5.5	

STA=	10795.	10867.	10899.	10938.	10966.	10988.
PER Q=	7.6	3.1	3.4	5.0	1.4	
AREA=	578.1	243.9	278.1	311.9	141.1	
VEL=	4.8	4.6	4.5	5.9	3.7	
DEPTH=	8.0	7.6	7.2	11.0	6.4	

1490 NH CARD USED
*SECNO 25.519

SECTION NO. M

25.519	13.15	1674.75	1673.24	.00	1675.40	.65	1.64	.09	1670.00
36800.0	14523.2	4443.4	17833.4	1876.0	494.3	4240.4	985.8	208.2	1670.10
.23	7.74	8.99	4.21	.042	.038	.076	.000	1661.60	9570.46
.005371	450.	310.	290.	2	9	0	.00	1421.53	10991.99

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

FLOW DISTRIBUTION FOR SECNO= 25.52 CWSEL= 1674.75

STA=	9570.	9601.	9619.	9647.	9663.	9770.	9915.	9970.	10059.	10120.	10394.	10492.	10616.
PER Q=	13.0	7.2	8.3	3.7	3.3	3.0	.8	12.1	3.9	8.2	4.0	4.9	
AREA=	260.0	150.1	193.0	97.6	491.4	521.8	162.1	494.3	215.4	935.5	412.2	513.3	
VEL=	18.4	17.7	15.9	14.1	2.5	2.1	1.9	9.0	6.6	3.2	3.5	3.5	
DEPTH=	8.6	8.3	6.9	5.8	4.6	3.6	3.0	5.6	3.5	3.4	4.2	4.1	

STA=	10616.	10796.	10831.	10872.	10940.	10970.	10992.
PER Q=	6.3	3.5	4.8	5.0	6.4	1.7	
AREA=	688.7	256.1	327.3	405.7	343.7	142.5	
VEL=	3.3	5.0	5.4	4.5	6.8	4.3	
DEPTH=	3.8	7.2	7.9	6.0	11.3	6.6	

1490 NH CARD USED
*SECNO 25.580

3265 DIVIDED FLOW

SECTION NO. N

25.580	10.45	1676.35	1675.03	.00	1677.04	.69	1.63	.01	1674.10
36800.0	11002.8	4188.1	21609.1	1789.9	702.4	3076.2	1027.8	217.7	1670.80
.24	6.15	5.96	7.02	.057	.061	.043	.000	1665.90	9638.77
.005417	320.	300.	290.	2	18	0	.00	1358.12	11011.41

FLOW DISTRIBUTION FOR SECNO= 25.58 CWSEL= 1676.35

STA=	9639.	9683.	9783.	9806.	9834.	9855.	9974.	10089.	10276.	10347.	10453.	10518.	10547.
PER Q=	4.0	6.4	5.7	7.7	3.8	2.3	11.4	10.2	3.5	5.6	5.2	3.2	
AREA=	300.0	551.5	174.7	225.3	133.9	404.4	702.4	450.6	165.8	260.2	203.7	110.9	
VEL=	4.9	4.3	12.0	12.5	10.5	2.1	6.0	8.3	7.7	7.9	9.4	10.6	
DEPTH=	6.7	5.6	7.5	8.0	6.2	3.4	6.1	2.4	2.3	2.4	3.1	3.8	

STA=	10547.	10607.	10732.	10850.	10896.	10936.	10962.	10986.	11011.
PER Q=	6.6	3.9	4.1	3.9	4.5	4.4	3.3	.4	
AREA=	226.8	216.0	309.9	298.3	309.2	260.3	207.5	57.2	
VEL=	10.6	6.6	4.9	4.8	5.3	6.2	5.8	2.9	
DEPTH=	3.8	1.7	2.6	6.5	7.7	9.7	8.8	2.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 25.644

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. O

25.644	9.82	1678.52	1678.52	.00	1679.89	1.38	2.25	.21	1676.60
36800.0	13227.0	11664.2	11908.8	1508.5	936.8	1957.9	1063.6	227.3	1675.20
.25	8.77	12.45	6.08	.049	.046	.055	.000	1668.70	9539.40
.009835	360.	320.	280.	0	12	0	.00	1391.68	11050.82

FLOW DISTRIBUTION FOR SECNO= 25.64 CWSEL= 1678.52

STA=	9539.	9605.	9668.	9695.	9705.	9731.	9909.	10031.	10120.	10586.	10720.	10757.	10775.
PER Q=	8.8	4.0	6.5	3.8	8.9	4.0	31.7	3.9	6.4	3.3	4.3	4.3	
AREA=	427.8	283.7	136.4	66.8	164.7	428.9	936.8	161.6	353.3	173.5	121.5	90.7	
VEL=	7.6	5.1	17.5	20.8	19.9	3.4	12.5	8.9	6.7	7.0	12.9	17.3	
DEPTH=	6.6	4.5	5.2	6.6	6.2	2.4	7.7	1.8	.8	1.3	3.3	5.1	

STA=	10775.	10861.	11020.	11051.
PER Q=	6.5	3.4	.2	
AREA=	556.7	454.5	46.2	
VEL=	4.3	2.8	1.6	
DEPTH=	6.4	2.9	1.5	

1490 NH CARD USED
*SECNO 25.699

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. P

25.699	13.06	1682.46	1682.46	.00	1684.34	1.88	1.26	.15	1677.90
36800.0	4440.7	21951.6	10407.7	1825.8	1563.0	3215.1	1100.2	237.0	1678.40
.26	2.43	14.04	3.24	.106	.025	.059	.000	1669.40	9581.27
.002447	290.	290.	290.	0	11	0	.00	1522.05	11103.32

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

FLOW DISTRIBUTION FOR SECNO= 25.70 CWSEL= 1682.46

STA=	9581.	9631.	9710.	9887.	10033.	10223.	10532.	10714.	10787.	10839.	11083.	11103.
PER Q=	3.9	4.4	3.7	59.7	7.0	4.7	6.5	3.0	3.4	3.7	.0	
AREA=	369.9	652.3	803.7	1563.0	476.6	445.5	447.7	477.7	470.0	876.6	21.0	
VEL=	3.9	2.5	1.7	14.0	5.4	3.9	5.4	2.3	2.6	1.5	.6	
DEPTH=	7.5	8.2	4.5	10.7	2.5	1.4	2.5	6.5	9.0	3.6	1.0	

1490 NH CARD USED
*SECNO 25.750

3301 HV CHANGED MORE THAN HVINS

SECTION NO. Q

25.750	13.30	1684.90	1682.62	.00	1685.36	.46	.88	.14	1682.00
36800.0	4998.7	6223.3	25578.0	1869.1	1299.8	4293.2	1145.0	247.1	1681.90
.27	2.67	4.79	5.96	.112	.089	.048	.000	1671.60	9576.27
.004189	270.	280.	280.	4	10	0	.00	1647.33	11223.61

FLOW DISTRIBUTION FOR SECNO= 25.75 CWSEL= 1684.90

STA=	9576.	9649.	9747.	9836.	9925.	10062.	10156.	10177.	10220.	10233.	10293.	10435.	10825.
PER Q=	4.4	3.7	3.2	2.3	16.9	3.1	5.7	15.5	3.3	7.0	4.9	16.1	
AREA=	467.4	540.3	474.2	387.1	1299.8	348.8	179.5	440.8	112.1	253.8	292.3	774.5	
VEL=	3.5	2.5	2.5	2.2	4.8	3.3	11.6	12.9	10.9	10.2	6.2	7.6	
DEPTH=	6.4	5.6	5.3	4.3	9.5	3.7	8.8	10.2	8.3	4.3	2.1	2.0	

STA=	10825.	10869.	10960.	11059.	11224.
PER Q=	3.7	3.7	3.9	2.6	
AREA=	392.5	520.2	556.5	422.2	
VEL=	3.4	2.6	2.6	2.3	
DEPTH=	8.8	5.7	5.6	2.6	

1490 NH CARD USED
*SECNO 25.843

3265 DIVIDED FLOW

SECTION NO. R

25.843	12.45	1685.95	1685.29	.00	1686.87	.92	1.37	.14	1686.10
36800.0	2460.5	11821.7	22517.8	531.9	1253.2	3252.9	1188.9	257.8	1685.50
.28	4.63	9.43	6.92	.049	.041	.041	.000	1673.50	9626.85
.005634	540.	370.	210.	2	9	0	.00	1616.52	11308.01

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

FLOW DISTRIBUTION FOR SECNO= 25.84 CWSEL= 1685.95

STA=	9627.	9645.	9819.	9869.	9989.	10078.	10253.	10274.	10301.	10339.	10368.	10500.	10526.
PER Q=	3.6	3.1	.1	3.9	28.2	3.9	4.4	4.6	9.5	3.1	3.1	3.1	
AREA=	89.7	420.6	21.6	411.8	841.3	333.0	140.6	162.4	285.3	131.8	353.1	126.2	
VEL=	14.7	2.7	.9	3.5	12.3	4.3	11.4	10.5	12.2	8.7	3.3	9.0	
DEPTH=	5.0	2.4	.4	4.0	9.5	1.9	6.8	6.0	7.5	4.6	2.7	4.8	

STA=	10526.	10910.	10990.	10995.	11001.	11008.	11026.	11212.	11308.
PER Q=	3.7	4.3	3.3	3.1	4.1	5.8	3.5	1.8	
AREA=	517.2	210.6	57.6	54.7	72.6	130.9	471.4	205.7	
VEL=	2.6	7.6	20.8	20.6	20.6	16.3	2.7	3.2	
DEPTH=	1.3	2.6	10.1	9.9	9.9	7.2	2.5	2.1	

1490 NH CARD USED
*SECNO 25.919

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO.	S								
25.919	10.62	1689.02	1689.02	.00	1690.49	1.46	2.63	.16	1690.30
36800.0	1388.2	11309.0	24102.8	281.3	992.8	2666.2	1224.5	269.5	1689.80
.29	4.93	11.39	9.04	.068	.045	.038	.000	1678.40	9692.66
.010831	450.	400.	310.	0	9	0	.00	1412.35	11334.79

FLOW DISTRIBUTION FOR SECNO= 25.92 CWSEL= 1689.02

STA=	9693.	9770.	9809.	10039.	10289.	10299.	10346.	10617.	10644.	10685.	10726.	10802.	11201.
PER Q=	3.6	.2	30.7	13.4	3.6	3.3	4.0	3.3	4.9	3.2	3.1	3.2	
AREA=	250.8	30.5	992.8	636.9	76.8	133.8	479.6	117.3	161.9	124.1	140.2	252.2	
VEL=	5.2	2.6	11.4	7.7	17.3	9.1	3.0	10.4	11.1	9.4	8.1	4.6	
DEPTH=	3.3	.8	6.2	2.5	8.0	2.9	1.8	4.3	3.9	3.0	1.9	.6	

STA=	11201.	11221.	11238.	11271.	11289.	11299.	11335.
PER Q=	3.9	3.0	5.9	3.9	3.2	3.7	
AREA=	88.1	70.1	136.5	83.2	57.6	107.8	
VEL=	16.3	15.9	15.9	17.2	20.1	12.8	
DEPTH=	4.3	4.1	4.1	4.7	5.9	3.0	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 26.044
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. T

26.044	10.97	1695.28	1695.28	.00	1697.10	1.83	4.56	.11	1719.70
36800.0	.0	15281.5	21518.5	.0	932.6	6545.4	1283.6	286.3	1694.20
.31	.00	16.39	3.29	.000	.027	.111	.000	1684.30	9934.02
.007880	750.	650.	400.	0	8	0	.00	1957.24	11891.25

FLOW DISTRIBUTION FOR SECNO= 26.04 CWSEL= 1695.28

STA=	9934.	10077.	10240.	10332.	10407.	10575.	10749.	10825.	11035.	11180.	11265.	11375.	11452.
PER Q=	41.5	5.1	5.1	3.6	3.6	5.1	3.9	3.4	4.3	3.5	3.7	5.5	
AREA=	932.6	239.7	509.7	389.8	541.2	675.5	416.1	524.1	568.5	408.1	466.5	518.5	
VEL=	16.4	7.9	3.7	3.4	2.4	2.8	3.4	2.4	2.8	3.2	2.9	3.9	
DEPTH=	6.5	1.5	5.5	5.2	3.2	3.9	5.5	2.5	3.9	4.8	4.2	6.7	

STA=	11452.	11487.	11544.	11660.	11891.
PER Q=	3.1	4.8	3.4	.5	
AREA=	268.4	423.2	417.1	178.9	
VEL=	4.2	4.2	3.0	1.0	
DEPTH=	7.7	7.5	3.6	.8	

1490 NH CARD USED
*SECNO 26.137

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

SECTION NO. U

26.137	13.20	1698.90	1697.60	.00	1699.68	.78	2.47	.10	1725.90
36800.0	.0	9223.7	27576.3	.0	755.8	6648.7	1365.1	307.3	1704.10
.33	.00	12.20	4.15	.000	.030	.059	.000	1685.70	9987.88
.003611	500.	495.	475.	2	8	0	.00	1872.87	11928.59

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

FLOW DISTRIBUTION FOR SECNO= 26.14 CWSEL= 1698.90

STA=	9988.	10079.	10198.	10231.	10290.	10461.	10560.	10661.	10834.	11031.	11262.	11399.	11474.
PER Q=	25.1	15.2	17.0	3.8	4.3	4.2	3.3	4.3	3.4	3.1	3.3	3.3	
AREA=	755.8	519.3	361.3	371.1	469.7	406.7	350.9	604.9	543.2	554.6	584.8	473.0	
VEL=	12.2	10.8	17.3	3.7	3.3	3.8	3.4	2.6	2.3	2.1	2.0	2.6	
DEPTH=	9.3	4.4	10.8	6.3	2.8	4.1	3.5	3.5	2.8	2.4	4.3	6.3	

STA=	11474.	11621.	11734.	11929.
PER Q=	3.4	4.3	2.1	
AREA=	551.0	508.5	349.6	
VEL=	2.3	3.1	2.2	
DEPTH=	3.7	4.5	1.8	

1490 NH CARD USED
*SECNO 26.239

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .49

SECTION NO. V

26.239	8.36	1701.16	1700.76	.00	1702.06	.90	2.34	.04	1729.10
36800.0	.0	7213.8	29586.2	.0	725.1	4256.6	1414.8	321.7	1700.80
.34	.00	9.95	6.95	.000	.046	.062	.000	1692.80	9930.26
.015312	570.	420.	340.	2	18	0	.00	1755.76	11814.96

FLOW DISTRIBUTION FOR SECNO= 26.24 CWSEL= 1701.16

STA=	9930.	10112.	10145.	10182.	10202.	10278.	10516.	10623.	10755.	10872.	10936.	11208.	11253.
PER Q=	19.6	8.8	16.7	3.9	3.2	8.9	4.8	3.3	3.3	4.1	3.0	3.6	
AREA=	725.1	185.9	293.5	99.0	116.5	270.8	149.6	259.1	285.4	256.0	453.0	261.2	
VEL=	9.9	17.4	20.9	14.6	10.1	12.1	11.9	4.7	4.3	5.9	2.4	5.0	
DEPTH=	4.0	5.7	8.0	4.9	1.5	1.1	1.4	2.0	2.4	4.0	1.7	5.9	

STA=	11253.	11314.	11561.	11644.	11751.	11815.
PER Q=	3.1	3.2	3.3	6.0	1.1	
AREA=	276.0	397.9	322.7	508.2	121.8	
VEL=	4.2	2.9	3.8	4.3	3.2	
DEPTH=	4.5	1.6	3.9	4.8	1.9	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 26.335

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.77

SECTION NO. W

26.335	10.04	1705.64	1702.96	.00	1706.18	.54	4.08	.04	1730.10
36800.0	.0	29545.8	7254.2	.0	4610.6	2478.9	1485.6	341.7	1706.30
.37	.00	6.41	2.93	.000	.061	.079	.000	1695.60	9640.14
.004907	495.	500.	520.	2	15	0	.00	1635.88	11467.65

FLOW DISTRIBUTION FOR SECNO= 26.33 CWSEL= 1705.64

STA=	9640.	10263.	10575.	10711.	10907.	11034.	11435.	11468.
PER Q=	80.3	3.2	3.3	4.4	3.2	4.0	1.5
AREA=	4610.6	472.9	431.1	548.2	352.7	533.9	140.1
VEL=	6.4	2.5	2.8	3.0	3.4	2.8	4.0
DEPTH=	7.4	1.5	3.2	2.8	2.8	1.3	4.3

1490 NH CARD USED
*SECNO 26.430

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. X

26.430	10.28	1707.78	1706.58	.00	1709.35	1.58	2.86	.31	1726.70
36800.0	.0	34151.9	2648.1	.0	3278.6	757.0	1549.8	356.1	1712.40
.38	.00	10.42	3.50	.000	.041	.080	.000	1697.50	9781.18
.006799	490.	495.	520.	3	12	0	.00	822.81	11309.70

FLOW DISTRIBUTION FOR SECNO= 26.43 CWSEL= 1707.78

STA=	9781.	10285.	11082.	11124.	11310.
PER Q=	92.8	3.1	3.0	1.1	
AREA=	3278.6	361.7	231.0	164.1	
VEL=	10.4	3.1	4.8	2.4	
DEPTH=	6.6	.5	5.4	.9	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 26.529

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. Y

26.529	8.94	1711.54	1711.54	.00	1714.46	2.93	3.32	.41	1719.80
36800.0	.0	34431.9	2368.1	.0	2430.7	657.7	1592.3	364.7	1716.00
.39	.00	14.17	3.60	.000	.028	.080	.000	1702.60	9791.61
.006016	530.	520.	520.	0	16	0	.00	624.79	11118.71

FLOW DISTRIBUTION FOR SECNO= 26.53 CWSEL= 1711.54

STA=	9792.	10170.	11048. 11119.
PER Q=	93.6	3.6	2.9
AREA=	2430.7	401.6	256.1
VEL=	14.2	3.3	4.1
DEPTH=	6.6	.5	3.6

1490 NH CARD USED
*SECNO 26.623

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. Z

26.623	12.50	1716.40	1713.24	.00	1717.36	.96	2.70	.20	1721.70
36800.0	.0	33905.4	2894.6	.0	4161.3	942.0	1639.9	373.4	1720.10
.41	.00	8.15	3.07	.000	.053	.080	.000	1703.90	9641.09
.004833	500.	500.	530.	3	8	0	.00	842.27	11190.20

FLOW DISTRIBUTION FOR SECNO= 26.62 CWSEL= 1716.40

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

STA=	9641.	10128.	11001.	11056.	11190.
PER Q=	92.1	3.2	3.2	1.4	
AREA=	4161.3	426.5	295.7	219.7	
VEL=	8.1	2.7	4.0	2.4	
DEPTH=	8.6	.5	5.4	1.6	

1490 NH CARD USED
*SECNO 26.695

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. AA

26.695	11.10	1720.60	1720.60	.00	1722.93	2.33	2.21	.41	1721.40
36800.0	6996.7	18020.3	11783.0	529.7	1295.0	1424.7	1677.6	380.6	1724.60
.42	13.21	13.92	8.27	.025	.035	.040	.000	1709.50	9610.54
.006778	370.	380.	430.	0	13	0	.00	723.21	11501.63

FLOW DISTRIBUTION FOR SECNO= 26.69 CWSEL= 1720.60

STA=	9611.	9823.	9866.	9880.	10055.	10372.	10406.	10442.	10586.	11490.	11502.
PER Q=	6.3	11.9	.8	49.0	6.5	11.4	3.7	3.7	6.5	.3	
AREA=	219.8	267.4	42.5	1295.0	154.4	237.3	147.6	273.5	578.2	33.7	
VEL=	10.5	16.4	7.0	13.9	15.4	17.7	9.2	4.9	4.1	2.9	
DEPTH=	1.0	6.1	3.1	8.2	.5	6.9	4.1	1.9	.6	2.8	

1490 NH CARD USED
*SECNO 26.775

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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        SECTION NO. AB
   26.775     11.29   1723.99   1723.99      .00   1727.14      3.15      2.50       .25   1726.60
 36800.0      356.1   33676.7    2767.2    154.8    2265.6     856.0    1710.1     387.6   1730.60
     .43       2.30     14.86      3.23     .086      .028      .080      .000   1712.70   9801.32
 .005105       390.      420.      470.        0         5         0       .00    652.12  11588.20


FLOW DISTRIBUTION FOR SECNO=     26.77          CWSEL=   1723.99

STA=    9801.    9877.   10208.   11447.   11555.   11588.
  PER Q=      1.0      91.5      3.0      3.0      1.5
   AREA=    154.8    2265.6    339.5    367.4    149.1
    VEL=      2.3      14.9      3.3      3.0      3.6
  DEPTH=      2.1       7.8       .3      3.4      4.4

1490 NH CARD USED
*SECNO 26.845

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

        SECTION NO. AC
   26.845     10.72   1727.72   1726.42      .00   1729.36      1.63      2.07       .15   1731.10
 36800.0      723.1   29880.1    6196.8    101.4    2780.3     793.7    1740.2     393.8   1728.00
     .44       7.13     10.75      7.81     .035      .042      .035      .000   1717.00   9618.31
 .006019       350.      370.      400.        4        15         0       .00    776.16  11264.75


FLOW DISTRIBUTION FOR SECNO=     26.84          CWSEL=   1727.72

STA=    9618.    9652.   10020.   10153.   10171.   10192.   10570.   11265.
  PER Q=      2.0      81.2      5.3      4.3      3.3      3.0       .9
   AREA=    101.4    2780.3    164.6    118.1    106.1    188.9    216.1
    VEL=      7.1      10.7     11.9     13.3     11.4      5.9      1.6
  DEPTH=      3.0       7.9      1.2      6.5      5.1       .5       .3

1490 NH CARD USED
*SECNO 26.921

3265 DIVIDED FLOW

        SECTION NO. AD
   26.921     10.80   1731.00   1729.09      .00   1732.59      1.59      3.23       .00   1739.40
 33800.0        .0   33161.8     638.2       .0    3251.0     242.5    1775.2     400.4   1731.90
     .45       .00     10.20      2.63     .000      .056      .085      .000   1720.20   9726.52
 .009993       450.      430.      400.        2        15         0       .00    586.08  10894.68
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.92 CWSEL= 1731.00

STA=	9727.	9939.	10028.	10149.	10895.
PER Q=	54.3	29.9	13.9	1.9	
AREA=	1613.3	885.7	752.1	242.5	
VEL=	11.4	11.4	6.2	2.6	
DEPTH=	7.6	10.0	6.3	.3	

1490 NH CARD USED
*SECNO 27.008

3265 DIVIDED FLOW

SECTION NO. AE

27.008	11.50	1734.50	1731.51	.00	1735.63	1.13	3.00	.05	1746.20
33800.0	.0	33368.3	431.7	.0	3895.4	242.5	1810.2	406.5	1736.30
.46	.00	8.57	1.78	.000	.054	.080	.000	1723.00	9697.18
.005820	400.	400.	400.	2	15	0	.00	736.38	10796.49

FLOW DISTRIBUTION FOR SECNO= 27.01 CWSEL= 1734.50

STA=	9697.	10164.	10796.
PER Q=	98.7	1.3	
AREA=	3895.4	242.5	
VEL=	8.6	1.8	
DEPTH=	8.4	.4	

1490 NH CARD USED
*SECNO 27.106

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

SECTION NO. AF

27.106	12.77	1738.47	1737.54	.00	1740.27	1.80	4.44	.20	1755.70
33800.0	.0	32865.5	934.5	.0	3017.0	266.6	1854.4	414.7	1742.70
.48	.00	10.89	3.51	.000	.053	.080	.000	1725.70	9772.03
.013755	540.	520.	500.	2	8	0	.00	659.42	10848.05

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

FLOW DISTRIBUTION FOR SECNO= 27.11 CWSEL= 1738.47

STA=	9772.	10275.	10654.	10672.	10755.	10762.	10799.	10818.	10848.
PER Q=	97.2	.1	.1	.2	.1	.4	.9	1.0	
AREA=	3017.0	20.9	11.6	26.9	11.9	49.0	64.8	81.4	
VEL=	10.9	1.6	1.6	2.4	3.4	2.6	4.7	4.2	
DEPTH=	6.1	.1	.6	.3	1.9	1.3	3.3	2.7	

1490 NH CARD USED
*SECNO 27.169

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

SECTION NO. AG

27.169	9.44	1741.54	1739.79	.00	1742.85	1.31	2.53	.05	1753.50
33800.0	.0	32076.5	1723.5	.0	3406.8	552.3	1881.7	419.7	1745.50
.49	.00	9.42	3.12	.000	.039	.080	.000	1732.10	9870.13
.004904	400.	330.	310.	2	14	0	.00	691.13	10986.50

FLOW DISTRIBUTION FOR SECNO= 27.17 CWSEL= 1741.54

STA=	9870.	10000.	10266.	10380.	10929.	10986.
PER Q=	28.8	44.1	22.0	3.0	2.1	
AREA=	740.9	1920.0	745.9	333.7	218.5	
VEL=	13.2	7.8	10.0	3.0	3.2	
DEPTH=	5.7	7.2	7.0	.6	3.8	

1490 NH CARD USED
*SECNO 27.226

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

SECTION NO. AH

27.226	8.28	1743.08	1742.93	.00	1745.45	2.38	2.28	.32	1743.70
33800.0	.0	31319.8	2480.2	.0	2451.5	500.0	1905.5	424.3	1749.00
.49	.00	12.78	4.96	.000	.043	.078	.000	1734.80	9929.54
.013369	310.	300.	300.	3	15	0	.00	648.27	11083.53

FLOW DISTRIBUTION FOR SECNO= 27.23 CWSEL= 1743.08

STA=	9930.	10380.	11055.	11084.
PER Q=	92.7	5.9	1.4	
AREA=	2451.5	402.4	97.7	
VEL=	12.8	5.0	4.9	
DEPTH=	5.7	.6	3.4	

1490 NH CARD USED
*SECNO 27.265

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. AI

27.265	13.57	1749.27	1749.27	.00	1750.66	1.39	2.19	.10	1750.20
33800.0	.0	20033.5	13766.5	.0	1747.4	2557.4	1923.3	428.5	1750.70
.50	.00	11.46	5.38	.000	.040	.068	.000	1735.70	9919.96
.008160	210.	210.	220.	0	14	0	.00	1041.47	11169.70

FLOW DISTRIBUTION FOR SECNO= 27.26 CWSEL= 1749.27

STA=	9920.	10202.	10618.	10707.	10780.	10811.	10940.	10986.	11056.	11102.	11124.	11149.	11170.
PER Q=	59.3	3.2	3.2	3.3	3.1	4.1	3.5	3.7	4.8	4.8	5.9	1.3	
AREA=	1747.4	317.1	242.7	224.4	156.7	320.9	198.4	244.4	288.9	212.4	253.4	98.1	
VEL=	11.5	3.4	4.4	5.0	6.7	4.3	5.9	5.2	5.7	7.6	7.8	4.5	
DEPTH=	6.6	.8	2.7	3.1	5.1	2.5	4.3	3.5	6.3	9.6	10.1	4.8	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 27.320

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. AJ

27.320	12.09	1752.39	1752.39	.00	1754.67	2.27	1.94	.26	1749.80
33800.0	280.5	23524.9	9994.5	167.1	1645.4	2678.2	1952.5	436.4	1754.90
.51	1.68	14.30	3.73	.080	.036	.080	.000	1740.30	9694.17
.005814	260.	275.	300.	0	12	0	.00	1289.74	11141.41

FLOW DISTRIBUTION FOR SECNO= 27.32 CWSEL= 1752.39

STA=	9694.	9908.	10072.	10676.	10900.	11000.	11052.	11077.	11117.	11141.
PER Q=	.8	69.6	3.2	5.4	5.7	3.7	4.0	5.6	2.1	
AREA=	167.0	1645.4	615.2	605.4	473.7	286.1	222.5	328.2	147.0	
VEL=	1.7	14.3	1.7	3.0	4.0	4.4	6.0	5.8	4.7	
DEPTH=	.8	10.2	1.0	2.7	4.7	5.5	8.8	8.3	6.0	

1490 NH CARD USED
*SECNO 27.366

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. AK

27.366	13.00	1755.30	1751.96	.00	1755.91	.61	1.08	.17	1777.30
33800.0	.0	25388.7	8411.3	.0	3620.0	2893.4	1982.8	443.4	1755.10
.52	.00	7.01	2.91	.000	.057	.083	.000	1742.30	9738.19
.003560	230.	240.	240.	3	15	0	.00	1255.67	11136.80

FLOW DISTRIBUTION FOR SECNO= 27.37 CWSEL= 1755.30

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

STA=	9738.	10110.	10555.	10781.	10925.	11022.	11137.
PER Q=	75.1	3.1	6.4	5.0	3.8	3.6	2.9
AREA=	3620.0	400.8	686.1	496.8	500.0	424.0	385.7
VEL=	7.0	2.6	3.1	3.4	2.6	2.9	2.6
DEPTH=	9.7	.9	3.0	3.4	5.2	7.8	6.4

1490 NH CARD USED
*SECNO 27.417

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. AL

27.417	12.41	1757.21	1757.21	.00	1759.34	2.13	1.95	.46	1779.80
33800.0	.0	26218.0	7582.0	.0	2020.2	1385.0	2014.6	449.8	1759.40
.53	.00	12.98	5.47	.000	.056	.098	.000	1744.80	9880.44
.020512	250.	270.	290.	0	10	0	.00	722.96	11079.16

FLOW DISTRIBUTION FOR SECNO= 27.42 CWSEL= 1757.21

STA=	9880.	10201.	10809.	10842.	10893.	11035.	11079.
PER Q=	77.6	5.1	3.1	3.4	6.7	4.1
AREA=	2020.2	263.5	122.4	235.9	519.3	243.9
VEL=	13.0	6.5	8.5	4.9	4.4	5.7
DEPTH=	6.4	.4	3.7	4.6	3.7	5.5

1490 NH CARD USED
*SECNO 27.502
SECTION NO. AM

27.502	15.77	1764.57	1764.55	.00	1766.27	1.70	6.89	.04	1783.80
33800.0	.0	23416.9	10383.1	.0	1915.5	2346.7	2056.7	459.8	1762.50
.54	.00	12.23	4.42	.000	.059	.074	.000	1748.80	9960.59
.011161	430.	450.	510.	1	9	0	.00	1050.87	11011.45

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

FLOW DISTRIBUTION FOR SECNO= 27.50 CWSEL= 1764.57

STA=	9961.	10150.	10266.	10302.	10330.	10426.	10574.	10675.	10830.	10918.	11011.
PER Q=	69.3	3.6	3.2	4.2	3.1	3.1	3.2	4.0	4.0	2.2	
AREA=	1915.5	249.0	120.5	131.6	234.9	317.2	279.5	360.7	386.3	267.0	
VEL=	12.2	4.9	9.1	10.8	4.5	3.3	3.9	3.7	3.5	2.8	
DEPTH=	10.1	2.2	3.3	4.7	2.4	2.1	2.8	2.3	4.4	2.9	

1490 NH CARD USED
*SECNO 27.604

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

SECTION NO. AN

27.604	14.31	1768.51	1766.57	.00	1770.60	2.09	4.21	.12	1786.60
33800.0	.0	31417.5	2382.5	.0	2614.5	960.8	2111.9	472.6	1765.20
.55	.00	12.02	2.48	.000	.043	.089	.000	1754.20	9772.68
.005128	510.	550.	700.	4	11	0	.00	633.32	10876.54

FLOW DISTRIBUTION FOR SECNO= 27.60 CWSEL= 1768.51

STA=	9773.	10014.	10150.	10877.
PER Q=	93.0	4.1	2.9	
AREA=	2614.5	457.1	503.7	
VEL=	12.0	3.0	2.0	
DEPTH=	10.8	3.4	.7	

1490 NH CARD USED
*SECNO 27.693

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. AO

27.693	17.99	1774.29	1774.29	.00	1776.00	1.71	4.90	.04	1791.70
33800.0	.0	23008.1	10791.9	.0	1910.6	1800.9	2150.9	481.3	1771.70
.57	.00	12.04	5.99	.000	.092	.094	.000	1756.30	9980.23
.032031	490.	470.	460.	0	13	0	.00	1009.98	11257.60

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

FLOW DISTRIBUTION FOR SECNO= 27.69 CWSEL= 1774.29

STA=	9980.	10196.	10231.	10352.	10459.	10897.	10957.	10990.	11258.
PER Q=	68.1	3.1	8.9	5.5	3.3	5.1	3.3	2.7	
AREA=	1910.6	132.2	402.9	289.3	341.0	279.2	170.4	185.9	
VEL=	12.0	8.0	7.4	6.4	3.3	6.2	6.6	4.8	
DEPTH=	8.9	3.7	3.3	2.7	.8	4.6	5.2	.7	

1490 NH CARD USED
*SECNO 27.797

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.77

SECTION NO. AP

27.797	19.21	1779.81	1778.91	.00	1781.01	1.21	4.96	.05	1796.60
33800.0	.0	22525.5	11274.5	.0	2123.3	3977.3	2212.9	496.9	1776.10
.59	.00	10.61	2.83	.000	.045	.081	.000	1760.60	9976.26
.004177	560.	550.	550.	5	5	0	.00	1447.96	11424.21

FLOW DISTRIBUTION FOR SECNO= 27.80 CWSEL= 1779.81

STA=	9976.	10158.	10265.	10415.	10520.	10634.	10778.	10988.	11107.	11424.
PER Q=	66.6	3.3	5.3	5.7	4.0	3.6	4.9	4.5	2.3	
AREA=	2123.3	359.3	544.9	496.3	412.8	426.9	688.0	614.0	435.0	
VEL=	10.6	3.1	3.3	3.9	3.3	2.8	2.4	2.4	1.8	
DEPTH=	11.7	3.4	3.6	4.7	3.6	3.0	3.3	5.2	1.4	

1490 NH CARD USED
*SECNO 27.913

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

SECTION NO. AQ

27.913	20.13	1783.23	1782.81	.00	1784.62	1.39	3.55	.05	1800.80
33800.0	.0	26543.0	7257.0	.0	2519.3	2242.9	2288.2	516.3	1782.10
.60	.00	10.54	3.24	.000	.057	.079	.000	1763.10	9970.21
.008754	620.	610.	600.	3	9	0	.00	1364.66	11382.05

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

FLOW DISTRIBUTION FOR SECNO= 27.91 CWSEL= 1783.23

STA=	9970.	10240.	10431.	10609.	10826.	10887.	11062.	11366.	11382.
PER Q=	78.5	3.1	4.8	3.3	3.6	3.4	3.2	.0	
AREA=	2519.3	319.7	405.4	389.9	338.2	424.8	356.6	8.4	
VEL=	10.5	3.3	4.0	2.9	3.6	2.7	3.0	1.5	
DEPTH=	9.3	1.7	2.3	1.8	5.5	2.4	1.2	.5	

1490 NH CARD USED
*SECNO 28.023

3265 DIVIDED FLOW

SECTION NO. AR

28.023	15.02	1787.52	1786.44	.00	1789.25	1.73	4.53	.10	1782.90
33800.0	13785.5	15895.8	4118.6	1055.0	1698.4	1514.6	2348.6	532.5	1784.00
.62	13.07	9.36	2.72	.042	.058	.093	.000	1772.50	9772.24
.006920	600.	580.	580.	2	16	0	.00	1064.57	11038.96

FLOW DISTRIBUTION FOR SECNO= 28.02 CWSEL= 1787.52

STA=	9772.	9787.	9799.	9806.	9813.	9821.	9834.	9853.	9881.	9892.	10073.	10575.	10699.
PER Q=	6.0	6.8	4.4	4.2	5.3	5.6	4.7	3.2	.5	47.0	3.5	3.2	
AREA=	145.3	143.0	89.4	84.9	107.3	130.3	139.2	159.2	56.5	1698.4	398.9	412.9	
VEL=	14.1	16.0	16.6	16.9	16.8	14.6	11.4	6.8	3.0	9.4	2.9	2.6	
DEPTH=	9.8	11.8	12.4	12.9	12.8	10.6	7.1	5.8	4.9	9.4	.8	3.3	

STA=	10699.	10779.	11039.
PER Q=	3.6	2.0	
AREA=	397.4	305.5	
VEL=	3.0	2.2	
DEPTH=	5.0	1.2	

1490 NH CARD USED
*SECNO 28.091

3265 DIVIDED FLOW

SECTION NO. AS

28.091	9.61	1790.41	1789.99	.00	1792.50	2.08	3.14	.10	1786.50
33800.0	10401.6	20573.1	2825.4	1193.6	1530.6	919.9	2381.6	540.9	1789.60
.63	8.71	13.44	3.07	.058	.043	.118	.000	1780.80	9666.90
.011812	330.	360.	400.	2	14	0	.00	869.22	10910.49

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

FLOW DISTRIBUTION FOR SECNO= 28.09 CWSEL= 1790.41

STA=	9667.	9726.	9857.	9900.	9979.	10122.	10778.	10822.	10910.
PER Q=	22.0	5.6	3.2	6.6	54.2	3.1	3.8	1.5	
AREA=	457.1	541.3	195.2	385.4	1145.3	457.6	276.4	185.8	
VEL=	16.2	3.5	5.5	5.8	16.0	2.3	4.6	2.8	
DEPTH=	7.7	4.2	4.5	4.9	8.0	.7	6.3	2.1	

1490 NH CARD USED
*SECNO 28.157

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. AT

28.157	11.46	1794.06	1794.06	.00	1796.04	1.98	2.56	.01	1788.50
33800.0	13736.6	15679.1	4384.3	1689.9	1068.7	1502.1	2413.6	549.2	1792.30
.64	8.13	14.67	2.92	.041	.029	.073	.000	1782.60	9623.67
.005007	340.	350.	370.	0	11	0	.00	1154.97	11020.32

FLOW DISTRIBUTION FOR SECNO= 28.16 CWSEL= 1794.06

STA=	9624.	9667.	9680.	9711.	9790.	9866.	9942.	10000.	10073.	10139.	10712.	10838.	11020.
PER Q=	7.3	3.5	5.9	10.6	4.6	8.7	16.4	29.9	3.2	3.6	3.1	3.1	
AREA=	295.6	107.6	213.4	435.2	259.3	378.9	464.2	604.5	179.2	350.8	451.6	520.5	
VEL=	8.4	11.0	9.4	8.2	6.0	7.7	12.0	16.7	5.9	3.5	2.3	2.0	
DEPTH=	6.8	8.6	6.8	5.6	3.4	5.0	8.0	8.3	2.7	.6	3.6	2.8	

1490 NH CARD USED
*SECNO 28.241
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SECTION NO. AU

28.241	9.17	1799.07	1799.07	.00	1801.29	2.23	2.08	.07	1795.00
33800.0	2902.0	27010.0	3888.0	335.6	2067.1	1743.0	2457.0	561.3	1796.60
.65	8.65	13.07	2.23	.027	.028	.095	.000	1789.90	9663.91
.004556	400.	440.	490.	0	15	0	.00	1108.13	10772.03

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

FLOW DISTRIBUTION FOR SECNO= 28.24 CWSEL= 1799.07

STA=	9664.	9742.	9758.	9831.	10000.	10051.	10223.	10615.	10702.	10772.
PER Q=	6.9	1.7	14.4	63.0	2.5	3.2	3.8	3.9	.6	
AREA=	276.9	58.7	395.9	1431.5	239.7	455.2	650.0	491.6	146.2	
VEL=	8.5	9.5	12.3	14.9	3.5	2.4	2.0	2.6	1.5	
DEPTH=	3.6	3.7	5.4	8.5	4.7	2.6	1.7	5.7	2.1	

1490 NH CARD USED
*SECNO 28.326

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

SECTION NO. AV

28.326	12.11	1803.41	1803.01	.00	1804.89	1.48	3.52	.08	1822.40
33800.0	.0	22139.8	11660.2	.0	1953.1	2073.6	2500.0	572.5	1802.00
.66	.00	11.34	5.62	.000	.067	.071	.000	1791.30	9836.46
.015980	440.	450.	470.	3	11	0	.00	994.30	10902.71

FLOW DISTRIBUTION FOR SECNO= 28.33 CWSEL= 1803.41

STA=	9836.	10076.	10252.	10389.	10477.	10599.	10684.	10804.	10903.
PER Q=	65.5	4.0	5.4	8.4	10.1	3.5	3.1	.0	
AREA=	1953.1	300.3	321.0	356.8	454.4	314.2	321.4	5.5	
VEL=	11.3	4.5	5.7	8.0	7.5	3.8	3.3	.7	
DEPTH=	8.1	1.7	2.4	4.1	3.7	3.7	2.7	.1	

1490 NH CARD USED
*SECNO 28.390

3301 HV CHANGED MORE THAN HVINS

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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.62

SECTION NO. AW

28.390	14.59	1807.39	1805.64	.00	1808.13	.73	3.16	.07	1821.50
33800.0	.0	12944.5	20855.5	.0	1932.4	2993.2	2535.0	580.0	1802.70
.68	.00	6.70	6.97	.000	.081	.043	.000	1792.80	9879.57
.006083	350.	340.	340.	1	9	0	.00	926.04	10805.61

FLOW DISTRIBUTION FOR SECNO= 28.39 CWSEL= 1807.39

STA=	9880.	10064.	10178.	10317.	10383.	10449.	10521.	10603.	10706.	10806.
PER Q=	38.3	5.0	15.3	9.6	9.6	8.2	7.6	3.4	3.0	
AREA=	1932.4	434.1	539.6	303.9	304.8	285.3	287.6	450.0	388.0	
VEL=	6.7	3.9	9.6	10.7	10.7	9.7	8.9	2.6	2.6	
DEPTH=	10.5	3.8	3.9	4.6	4.6	4.0	3.5	4.4	3.9	

1490 NH CARD USED
*SECNO 28.462

3301 HV CHANGED MORE THAN HVINS

SECTION NO. AX

28.462	15.23	1810.03	1809.26	.00	1811.30	1.26	3.01	.16	1827.90
33800.0	.0	21677.2	12122.8	.0	2019.6	2672.6	2576.9	588.3	1805.60
.69	.00	10.73	4.54	.000	.073	.080	.000	1794.80	9892.32
.010748	380.	380.	380.	2	6	0	.00	979.18	10871.51

FLOW DISTRIBUTION FOR SECNO= 28.46 CWSEL= 1810.03

STA=	9892.	10061.	10176.	10271.	10450.	10600.	10674.	10722.	10847.	10872.
PER Q=	64.1	7.3	5.1	9.0	3.1	3.9	3.8	3.7	.0	
AREA=	2019.6	485.8	366.4	658.2	322.1	282.1	231.2	314.3	12.6	
VEL=	10.7	5.1	4.7	4.6	3.2	4.7	5.5	4.0	1.2	
DEPTH=	12.0	4.2	3.8	3.7	2.2	3.8	4.9	2.5	.5	

1490 NH CARD USED
*SECNO 28.555

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

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. AY

28.555	14.62	1814.02	1814.02	.00	1816.42	2.40	4.47	.34	1835.90
33800.0	.0	26267.1	7532.9	.0	1892.8	1635.1	2623.6	598.7	1810.00
.70	.00	13.88	4.61	.000	.047	.060	.000	1799.40	9944.64
.007742	490.	490.	500.	0	11	0	.00	837.51	10782.15

FLOW DISTRIBUTION FOR SECNO= 28.56 CWSEL= 1814.02

STA=	9945.	10111.	10175.	10251.	10356.	10410.	10527.	10782.
PER Q=	77.7	5.4	3.9	3.9	3.1	4.4	1.6	
AREA=	1892.8	300.1	262.3	298.2	200.3	333.2	240.9	
VEL=	13.9	6.1	5.1	4.4	5.2	4.4	2.2	
DEPTH=	11.4	4.7	3.5	2.8	3.7	2.8	.9	

1490 NH CARD USED
*SECNO 28.657

3301 HV CHANGED MORE THAN HVINS

SECTION NO. AZ

28.657	19.45	1819.95	1816.91	.00	1820.62	.67	4.03	.17	1841.50
33800.0	.0	19664.3	14135.7	.0	2880.7	2293.7	2677.6	608.4	1816.70
.72	.00	6.83	6.16	.000	.092	.060	.000	1800.50	9948.24
.007190	550.	540.	540.	3	8	0	.00	729.56	10677.80

FLOW DISTRIBUTION FOR SECNO= 28.66 CWSEL= 1819.95

STA=	9948.	10197.	10271.	10328.	10385.	10440.	10514.	10562.	10596.	10641.	10678.
PER Q=	58.2	3.6	3.9	5.5	6.5	8.2	5.1	3.5	4.6	.9	
AREA=	2880.7	253.3	239.1	297.6	322.5	418.3	261.9	183.7	240.5	76.8	
VEL=	6.8	4.8	5.5	6.3	6.8	6.7	6.5	6.5	6.4	4.1	
DEPTH=	11.6	3.4	4.2	5.2	5.9	5.7	5.5	5.4	5.4	2.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 28.750

SECTION NO. BA

28.750	14.64	1822.94	1821.00	.00	1823.85	.91	3.16	.07	1844.30
33800.0	.0	22295.5	11504.5	.0	2551.1	2342.2	2733.1	617.1	1819.70
.74	.00	8.74	4.91	.000	.065	.060	.000	1808.30	9899.41
.006000	500.	490.	470.	2	14	0	.00	865.53	10764.94

FLOW DISTRIBUTION FOR SECNO= 28.75 CWSEL= 1822.94

STA=	9899.	10129.	10292.	10410.	10482.	10539.	10579.	10623.	10669.	10723.	10765.
PER Q=	66.0	3.1	3.6	3.9	4.7	3.3	3.5	4.1	4.9	2.7	
AREA=	2551.1	337.3	325.0	279.0	284.7	200.7	216.2	240.8	283.1	175.3	
VEL=	8.7	3.2	3.8	4.7	5.6	5.6	5.5	5.8	5.8	5.3	
DEPTH=	11.1	2.1	2.8	3.9	4.9	5.0	4.9	5.3	5.3	4.1	

1490 NH CARD USED
*SECNO 28.847

3301 HV CHANGED MORE THAN HVINS

SECTION NO. BB

28.847	13.63	1825.53	1825.20	.00	1827.18	1.65	3.10	.22	1847.00
33800.0	.0	22432.6	11367.4	.0	1858.0	2105.2	2784.5	627.4	1821.40
.76	.00	12.07	5.40	.000	.048	.051	.000	1811.90	9911.63
.006251	520.	510.	500.	3	9	0	.00	919.39	10831.01

FLOW DISTRIBUTION FOR SECNO= 28.85 CWSEL= 1825.53

STA=	9912.	10077.	10162.	10448.	10554.	10617.	10693.	10726.	10757.	10789.	10831.
PER Q=	66.4	3.3	3.2	5.5	4.6	3.9	3.3	3.8	3.3	2.7	
AREA=	1858.0	403.3	375.1	308.3	226.6	219.9	144.5	150.7	141.4	135.5	
VEL=	12.1	2.8	2.9	6.1	6.8	6.0	7.7	8.4	7.9	6.8	
DEPTH=	11.2	4.7	1.3	2.9	3.6	2.9	4.3	4.9	4.4	3.2	

1490 NH CARD USED
*SECNO 28.934

SECTION NO. BC

28.934	13.95	1829.45	1828.90	.00	1830.61	1.17	3.39	.05	1851.10
33800.0	.0	17591.0	16209.0	.0	1925.8	1996.0	2826.6	637.9	1826.80
.77	.00	9.13	8.12	.000	.068	.035	.000	1815.50	9857.42
.008624	410.	460.	470.	3	6	0	.00	1039.84	10897.26

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

FLOW DISTRIBUTION FOR SECNO= 28.93 CWSEL= 1829.45

STA=	9857.	10055.	10138.	10184.	10215.	10239.	10255.	10268.	10287.	10325.	10353.	10632.	10745.
PER Q=	52.0	3.6	3.5	3.7	3.3	3.2	3.5	4.5	10.1	4.0	3.0	3.5	
AREA=	1925.8	146.8	114.8	101.6	87.7	71.1	70.9	94.0	201.3	104.0	407.8	334.8	
VEL=	9.1	8.2	10.3	12.2	12.8	15.3	16.7	16.1	16.9	13.0	2.5	3.6	
DEPTH=	9.8	1.8	2.5	3.3	3.5	4.6	5.2	5.0	5.4	3.6	1.5	3.0	

STA=	10745.	10897.
PER Q=	2.0	
AREA=	261.1	
VEL=	2.6	
DEPTH=	1.7	

1490 NH CARD USED
*SECNO 29.012

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. BD

29.012	14.24	1832.94	1832.94	.00	1835.25	2.31	2.41	.34	1850.00
33800.0	.0	23938.8	9861.2	.0	1698.1	1905.8	2862.4	647.2	1827.50
.78	.00	14.10	5.17	.000	.033	.043	.000	1818.70	9940.80
.004196	400.	410.	420.	0	8	0	.00	898.85	10839.64

FLOW DISTRIBUTION FOR SECNO= 29.01 CWSEL= 1832.94

STA=	9941.	10091.	10169.	10220.	10267.	10304.	10364.	10487.	10840.
PER Q=	70.8	7.4	5.3	4.0	3.1	3.3	3.2	2.9	
AREA=	1698.1	368.4	255.8	208.0	171.6	220.5	287.4	394.1	
VEL=	14.1	6.8	7.1	6.5	6.0	5.1	3.8	2.5	
DEPTH=	11.3	4.7	5.0	4.4	4.7	3.7	2.3	1.1	

1490 NH CARD USED
*SECNO 29.130

3265 DIVIDED FLOW

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

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. BE

29.130	15.92	1836.92	1836.92	.00	1839.25	2.33	3.94	.01	1855.00
33800.0	.0	30475.2	3324.8	.0	2392.8	532.6	2907.2	658.1	1834.50
.79	.00	12.74	6.24	.000	.044	.045	.000	1821.00	9971.96
.011947	590.	595.	600.	0	8	0	.00	688.06	10928.98

FLOW DISTRIBUTION FOR SECNO= 29.13 CWSEL= 1836.92

STA=	9972.	10332.	10392.	10441.	10890.	10929.
PER Q=	90.2	3.5	3.2	3.1	.0	
AREA=	2392.8	166.9	145.7	219.7	.3	
VEL=	12.7	7.1	7.5	4.8	.2	
DEPTH=	6.7	2.8	3.0	.5	.0	

1490 NH CARD USED
*SECNO 29.258

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. BF

29.258	14.25	1842.95	1841.24	.00	1845.83	2.89	6.41	.17	1852.70
33800.0	.0	33774.2	25.8	.0	2476.0	28.0	2951.1	666.3	1844.50
.81	.00	13.64	.92	.000	.041	.080	.000	1828.70	9794.05
.007154	710.	705.	710.	3	19	0	.00	324.13	10507.51

FLOW DISTRIBUTION FOR SECNO= 29.26 CWSEL= 1842.95

STA=	9794.	10051.	10494.	10508.
PER Q=	99.9	.1	.0	
AREA=	2476.0	23.1	4.9	
VEL=	13.6	.9	.8	
DEPTH=	9.7	.1	.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 29.351

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. BG

29.351	12.85	1848.75	1844.92	.00	1849.45	.70	3.40	.22	1849.70
33800.0	.0	33721.9	78.1	.0	5017.4	72.0	2993.8	672.1	1849.30
.83	.00	6.72	1.09	.000	.072	.118	.000	1835.90	9685.31
.006733	500.	490.	490.	3	14	0	.00	706.43	10570.60

FLOW DISTRIBUTION FOR SECNO= 29.35 CWSEL= 1848.75

STA=	9685.	10317.	10545.	10566.	10571.
PER Q=	99.8	.1	.1	.0	
AREA=	5017.4	40.6	28.9	2.4	
VEL=	6.7	1.0	1.2	1.3	
DEPTH=	8.0	.2	1.4	.5	

1490 NH CARD USED
*SECNO 29.387

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

SECTION NO. BH

29.387	10.80	1849.60	1846.66	.00	1850.25	.64	.79	.01	1854.20
33800.0	.0	33795.1	4.9	.0	5253.9	14.2	3016.4	675.5	1850.70
.84	.00	6.43	.34	.000	.042	.120	.000	1838.80	9485.67
.002805	190.	190.	200.	2	14	0	.00	848.94	10487.19

FLOW DISTRIBUTION FOR SECNO= 29.39 CWSEL= 1849.60

STA=	9486.	9576.	9645.	9750.	9960.	10037.	10302.	10487.
PER Q=	7.5	17.8	5.0	15.0	34.3	20.4	.0	
AREA=	574.8	672.4	717.1	1086.3	783.5	1419.8	14.2	
VEL=	4.4	8.9	2.3	4.7	14.8	4.9	.3	
DEPTH=	6.4	9.7	6.8	5.2	10.2	5.5	.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 29.493

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .43

SECTION NO. BI

29.493	8.87	1852.27	1851.71	.00	1853.50	1.23	3.08	.18	1855.30
33800.0	.0	33233.1	566.9	.0	3703.2	153.4	3075.0	686.9	1850.80
.85	.00	8.97	3.70	.000	.054	.080	.000	1843.40	9191.13
.015351	610.	560.	520.	1	14	0	.00	937.12	10128.25

FLOW DISTRIBUTION FOR SECNO= 29.49 CWSEL= 1852.27

STA=	9191.	10048.	10064.	10071.	10089.	10100.	10106.	10110.	10128.
PER Q=	98.3	.3	.1	.2	.3	.3	.2	.3	
AREA=	3703.2	27.1	13.5	26.9	23.4	21.6	11.6	29.2	
VEL=	9.0	3.3	3.4	3.0	3.9	5.1	5.1	3.1	
DEPTH=	4.3	1.7	1.8	1.5	2.2	3.3	3.3	1.6	

1490 NH CARD USED
*SECNO 29.538

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. BJ

29.538	9.46	1854.96	1854.96	.00	1857.03	2.07	2.90	.25	1869.70
33800.0	.0	33800.0	.0	.0	2926.3	.0	3093.7	691.5	1857.70
.86	.00	11.55	.00	.000	.032	.000	.000	1845.50	9089.26
.009782	270.	240.	230.	0	8	0	.00	733.97	10047.78

FLOW DISTRIBUTION FOR SECNO= 29.54 CWSEL= 1854.96

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


STA=    9089.    9545.    9838.    9949.   10016.   10072.
  PER Q=      9.4     54.3      7.4     28.1       .9
   AREA=    654.9   1211.6    497.8    485.6     76.5
    VEL=      4.9     15.1      5.0     19.5      4.0
  DEPTH=      2.8      4.1      4.5      7.2      2.4

1490 NH CARD USED
*SECNO 29.601

3265 DIVIDED FLOW

         SECTION NO. BK
   29.601      9.82   1859.72   1859.27       .00   1861.41      1.69      4.33       .04   1861.40
  33800.0     443.1   33356.9        .0      86.4    3180.2        .0    3117.2     697.3   1867.90
     .87      5.13     10.49       .00      .060      .052      .000      .000   1849.90   9145.05
 .018521      370.      330.      330.         3         5         0       .00    768.50  10047.80


FLOW DISTRIBUTION FOR SECNO=     29.60          CWSEL=   1859.72

STA=    9145.    9203.   10060.
  PER Q=      1.3     98.7
   AREA=     86.4   3180.2
    VEL=      5.1     10.5
  DEPTH=      1.5      4.5

1490 NH CARD USED
*SECNO 29.663

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1862.30 ELREA=      1889.30

         SECTION NO. BL
   29.663     13.60   1864.50   1861.46       .00   1865.36       .86      3.87       .08   1862.30
  33800.0    4200.1   29599.9        .0     942.8    3807.4        .0    3147.6     703.8   1889.30
     .88      4.45      7.77       .00      .060      .061      .000      .000   1850.90   9229.96
 .008071      330.      330.      330.         1        11         0       .00    951.30  10181.27
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 29.66 CWSEL= 1864.50

STA=	9230.	9410.	9497.	9590.	9615.	10195.
PER Q=	3.0	3.6	5.0	.8	87.6	
AREA=	288.9	260.3	329.6	64.0	3807.4	
VEL=	3.5	4.7	5.2	4.2	7.8	
DEPTH=	1.6	3.0	3.5	2.6	6.7	

1490 NH CARD USED
*SECNO 29.710

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1890.00 ELREA= 1890.00

SECTION NO. BM (SECTION BN MOVED 50' DWNSTREAM TO FRONT OF BRIDGE)

29.710	10.57	1865.57	1864.43	.00	1868.30	2.73	2.38	.56	1876.00
33800.0	.0	33800.0	.0	.0	2549.0	.0	3176.7	709.5	1876.10
.89	.00	13.26	.00	.000	.037	.000	.000	1855.00	9732.32
.006553	600.	310.	150.	3	19	0	.00	310.08	10042.40

FLOW DISTRIBUTION FOR SECNO= 29.71 CWSEL= 1865.57

STA=	9732.	10048.
PER Q=	100.0	
AREA=	2549.0	
VEL=	13.3	
DEPTH=	8.2	

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
5227 DOWNSTREAM ELEV IS 1862.42 , NOT 1865.57 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.60	2.60	.00	220.00	12.00	4032.00	2.00	1855.00	1855.00

*SECNO 29.720

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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1864.08 BRIDGE VELOCITY= 16.45 CALCULATED CHANNEL AREA= 2055.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1869.30	.00	0.	33800.	4032.	3840.	1871.00	1879.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1880.00 ELREA= 1880.00

SECTION NO. BN

29.720	11.16	1866.16	.00	.00	1869.30	3.14	1.00	.00	1876.00
33800.0	.0	33800.0	.0	.0	2377.9	.0	3179.5	709.9	1876.10
.89	.00	14.21	.00	.000	.037	.000	.000	1855.00	9618.91
.007033	50.	50.	50.	0	0	0	.00	272.02	9890.92

FLOW DISTRIBUTION FOR SECNO= 29.72 CWSEL= 1866.16

STA= 9619. 9895.
PER Q= 100.0
AREA= 2377.9
VEL= 14.2
DEPTH= 8.7

1490 NH CARD USED
*SECNO 29.770

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1890.60 ELREA= 1872.70

SECTION NO. BO

29.770	10.35	1867.55	1866.51	.00	1870.69	3.14	1.39	.00	1890.60
33800.0	.0	33800.0	.0	.0	2375.3	.0	3190.4	711.1	1872.70
.89	.00	14.23	.00	.000	.037	.000	.000	1857.20	9771.31
.006885	50.	200.	550.	2	15	0	.00	268.32	10039.63

FLOW DISTRIBUTION FOR SECNO= 29.77 CWSEL= 1867.55

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

```
STA=    9771.   10043.
  PER Q=    100.0
   AREA=   2375.3
    VEL=     14.2
  DEPTH=      8.9

1490 NH CARD USED
*SECNO 29.850
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          SECTION NO. BP (NEW SECTION ADDED @ 400' UPSTREAM OF 68)
    29.850     14.13   1871.83   1871.83       .00   1874.64      2.81      2.41       .03   1860.00
   33800.0   14242.5   19041.6     515.8    2521.5    1106.2      98.3    3218.4     715.3   1858.00
       .90      5.65     17.21      5.25      .060      .035      .060      .000   1857.70   9407.38
   .005305      400.      400.      400.         0        11         0       .00    636.15  10043.52


FLOW DISTRIBUTION FOR SECNO=     29.85          CWSEL=   1871.83

STA=    9407.    9505.    9540.    9560.    9575.    9609.    9758.    9924.    9945.   10029.   10044.
  PER Q=      4.1      5.2      4.8      3.6      5.0      3.9     12.3      3.3     56.3      1.5
   AREA=    328.6    257.8    197.8    147.1    243.6    379.5    803.9    163.2   1106.2     98.3
    VEL=      4.2      6.8      8.3      8.2      6.9      3.5      5.2      6.9     17.2      5.2
  DEPTH=      3.4      7.3      9.8      9.7      7.2      2.6      4.8      7.8     13.1      6.9

CCHV=     .100 CEHV=     .300
*SECNO 30.100

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

    30.100     12.84   1880.24   1878.68       .00   1881.31      1.07      6.50       .17   1873.00
   33800.0   23346.2   10162.3     291.5    3595.9     888.0      58.8    3327.9     737.3   1869.60
       .94      6.49     11.44      4.96      .055      .050      .055      .000   1867.40   8743.77
   .005612      1100.     1304.     1325.         2        16         0       .00   1071.61  10021.85


FLOW DISTRIBUTION FOR SECNO=     30.10          CWSEL=   1880.24
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	8744.	8859.	9276.	9307.	9330.	9356.	9390.	9421.	9560.	9634.	9667.	9694.	9710.
PER Q=	3.0	3.6	3.6	3.5	4.7	3.3	5.2	3.1	3.2	6.5	6.6	4.6	
AREA=	246.2	344.6	184.1	158.4	199.8	183.1	229.8	260.3	224.9	271.8	248.6	164.8	
VEL=	4.2	3.5	6.6	7.4	7.9	6.2	7.7	4.0	4.8	8.1	9.0	9.4	
DEPTH=	2.1	.8	5.9	7.0	7.7	5.3	7.5	1.9	3.0	8.1	9.4	10.0	

STA=	9710.	9723.	9755.	9892.	9936.	10011.	10022.
PER Q=	3.2	4.5	4.1	6.3	30.1	.9	
AREA=	118.4	215.3	250.8	295.1	888.0	58.8	
VEL=	9.0	7.1	5.6	7.2	11.4	5.0	
DEPTH=	9.5	6.6	1.8	6.7	11.8	5.3	

*SECNO 30.200

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

30.200	10.48	1885.68	1885.68	.00	1887.25	1.58	3.99	.15	1876.50
33800.0	15239.4	17850.0	710.5	2523.5	1415.3	94.5	3380.6	750.6	1875.20
.96	6.04	12.61	7.52	.055	.050	.055	.000	1875.20	8982.60
.010330	535.	537.	545.	0	14	0	.00	1097.60	10111.24

FLOW DISTRIBUTION FOR SECNO= 30.20 CWSEL= 1885.68

STA=	8983.	9037.	9171.	9235.	9325.	9382.	9564.	9641.	9670.	9714.	9742.	9859.	9928.
PER Q=	4.0	3.2	3.8	3.2	3.8	3.8	3.4	3.0	3.7	3.6	3.6	6.0	
AREA=	199.9	230.3	212.2	210.8	200.5	274.7	212.9	132.4	178.2	145.0	257.1	269.5	
VEL=	6.8	4.7	6.1	5.1	6.4	4.6	5.5	7.7	7.0	8.3	4.7	7.5	
DEPTH=	3.7	1.7	3.3	2.4	3.5	1.5	2.8	4.7	4.0	5.3	2.2	3.9	

STA=	9928.	10093.	10111.
PER Q=	52.8	2.1	
AREA=	1415.3	94.5	
VEL=	12.6	7.5	
DEPTH=	8.6	5.2	

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

*SECNO 30.280

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

30.280	14.44	1891.54	1891.54	.00	1893.68	2.14	4.50	.17	1881.80
33800.0	13904.4	19047.9	847.8	2320.9	1296.9	111.4	3425.3	762.6	1877.50
.97	5.99	14.69	7.61	.055	.050	.055	.000	1877.10	9156.63
.008668	550.	421.	430.	0	11	0	.00	873.75	10030.38

FLOW DISTRIBUTION FOR SECNO= 30.28 CWSEL= 1891.54

STA=	9157.	9251.	9352.	9428.	9481.	9617.	9679.	9775.	9834.	9865.	9895.	9909.	10015.
PER Q=	3.2	3.1	4.3	3.3	3.3	3.7	3.1	3.8	4.5	5.2	3.5	56.4	
AREA=	234.2	226.7	248.8	189.1	269.3	216.6	223.7	213.3	185.0	201.3	112.9	1296.9	
VEL=	4.7	4.6	5.9	5.9	4.1	5.8	4.7	6.1	8.3	8.8	10.3	14.7	
DEPTH=	2.5	2.2	3.3	3.6	2.0	3.4	2.3	3.7	6.0	6.5	8.5	12.2	

STA=	10015.	10030.
PER Q=	2.5	
AREA=	111.4	
VEL=	7.6	
DEPTH=	7.0	

*SECNO 30.420

3301 HV CHANGED MORE THAN HVINS

30.420	11.60	1897.40	1895.86	.00	1898.22	.82	4.41	.13	1890.30
33800.0	8016.7	6343.0	19440.2	1597.6	683.5	2665.5	3484.8	774.3	1890.30
1.00	5.02	9.28	7.29	.055	.050	.055	.000	1885.80	9522.99
.005861	500.	713.	650.	2	18	0	.00	952.34	10475.33

FLOW DISTRIBUTION FOR SECNO= 30.42 CWSEL= 1897.40

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

STA=	9523.	9613.	9667.	9734.	9855.	9907.	9970.	10053.	10081.	10124.	10160.	10187.	10211.
PER Q=	5.4	4.3	3.4	3.6	3.2	3.9	18.8	3.3	4.0	5.9	7.6	4.1	
AREA=	350.8	250.9	236.2	315.1	207.1	237.4	683.5	164.2	218.8	260.5	270.1	179.5	
VEL=	5.2	5.8	4.8	3.9	5.2	5.5	9.3	6.7	6.1	7.7	9.6	7.8	
DEPTH=	3.9	4.7	3.5	2.6	3.9	3.8	8.3	5.9	5.1	7.2	10.0	7.3	

STA=	10211.	10239.	10258.	10320.	10362.	10390.	10439.	10475.
PER Q=	3.4	3.6	6.2	5.5	5.0	6.6	2.3	
AREA=	166.9	150.2	330.2	264.0	212.2	311.6	137.2	
VEL=	6.8	8.2	6.4	7.0	8.0	7.1	5.6	
DEPTH=	6.0	7.9	5.3	6.3	7.6	6.4	3.8	

*SECNO 30.520

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

30.520	8.73	1902.23	1902.23	.00	1903.74	1.52	4.61	.21	1893.60
33800.0	12900.4	9224.8	11674.8	1833.9	654.7	1378.1	3540.2	787.5	1894.00
1.01	7.03	14.09	8.47	.055	.050	.055	.000	1893.50	9292.81
.013268	600.	560.	500.	0	14	0	.00	1102.43	10395.24

FLOW DISTRIBUTION FOR SECNO= 30.52 CWSEL= 1902.23

STA=	9293.	9463.	9630.	9721.	9785.	9872.	9888.	9902.	9933.	9965.	9983.	10062.	10095.
PER Q=	3.4	3.9	3.5	3.7	3.6	3.5	3.6	4.3	4.1	4.5	27.3	5.9	
AREA=	271.4	291.8	212.2	191.3	210.6	108.0	104.8	156.2	155.5	132.0	654.7	196.1	
VEL=	4.3	4.6	5.5	6.5	5.8	11.1	11.7	9.2	8.9	11.5	14.1	10.2	
DEPTH=	1.6	1.7	2.3	3.0	2.4	7.0	7.3	5.0	4.9	7.2	8.4	5.9	

STA=	10095.	10162.	10214.	10260.	10291.	10323.	10384.	10395.
PER Q=	5.0	4.2	3.7	5.6	5.9	4.1	.2	
AREA=	233.9	190.4	168.5	183.0	191.9	197.5	16.7	
VEL=	7.2	7.4	7.4	10.3	10.4	7.0	3.9	
DEPTH=	3.5	3.7	3.6	6.0	5.9	3.3	1.5	

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T1 COUNTY OF MARIPOSA, AZ FLOOD INSURANCE RESTUDY
T2 ANALYSIS BASED ON CONDITIONS FOUND AUGUST 1996
T3       CAVE CREEK

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0        3                           .003                                  1632

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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
1490 NH CARD USED
*SECNO 24.525

3265 DIVIDED FLOW

SECTION NO. A

24.525	11.13	1633.13	.00	1632.00	1633.23	.10	.00	.00	1629.30
38200.0	19893.8	3547.3	14758.9	7383.8	1266.7	6815.6	.0	.0	1628.10
.00	2.69	2.80	2.17	.120	.120	.120	.000	1622.00	8856.17
.003004	0.	0.	0.	0	0	4	.00	2565.47	11431.46

1490 NH CARD USED
*SECNO 24.646

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

SECTION NO. B

24.646	10.13	1636.13	.00	.00	1636.48	.35	3.17	.07	1630.50
38200.0	13495.3	5254.2	19450.5	3791.1	1238.6	3540.1	189.6	36.9	1630.50
.04	3.56	4.24	5.49	.115	.120	.062	.000	1626.00	8807.41
.008100	760.	640.	620.	3	0	0	.00	2202.50	11064.03

1490 NH CARD USED
*SECNO 24.752

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. C

24.752	10.69	1639.89	.00	.00	1641.45	1.56	4.61	.36	1632.90
38200.0	1981.7	12108.4	24109.9	641.3	782.3	3924.8	282.7	59.6	1638.30
.06	3.09	15.48	6.14	.120	.035	.060	.000	1629.20	8735.73
.008838	850.	560.	430.	2	0	0	.00	1413.32	10185.49

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 24.845
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. D

24.845	10.62	1645.92	.00	.00	1646.54	.62	5.00	.09	1646.70
38200.0	365.1	9235.9	28599.0	279.4	922.8	6229.1	355.3	77.4	1641.90
.08	1.31	10.01	4.59	.120	.069	.104	.000	1635.30	8309.43
.011825	560.	490.	490.	2	0	0	.00	1679.73	10061.16

1490 NH CARD USED
*SECNO 24.919

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

SECTION NO. E

24.919	13.83	1648.73	.00	.00	1649.31	.58	2.76	.00	1650.40
38200.0	251.7	12895.3	25053.0	256.5	1378.9	7280.9	422.7	92.2	1643.60
.10	.98	9.35	3.44	.120	.045	.102	.000	1634.90	8101.99
.005315	460.	390.	350.	3	0	0	.00	1785.93	10006.71

1490 NH CARD USED
*SECNO 25.010
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

SECTION NO. F

25.010	10.68	1650.88	.00	.00	1651.46	.58	2.15	.00	1646.00
38200.0	4144.6	24966.2	9089.2	1064.6	3506.4	2683.2	518.7	111.0	1648.70
.12	3.89	7.12	3.39	.080	.052	.065	.000	1640.20	8639.93
.003457	410.	480.	550.	3	0	0	.00	1395.29	10035.21

1490 NH CARD USED

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

*SECNO 25.099

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECTION NO. G

25.099	10.67	1656.67	1656.67	.00	1658.82	2.15	2.07	.47	1652.00
38200.0	13473.8	14061.5	10664.7	3218.6	746.9	3925.3	603.0	128.4	1650.80
.14	4.19	18.83	2.72	.080	.025	.120	.000	1646.00	8628.81
.005617	430.	470.	530.	20	5	0	.00	1687.21	10316.02

1490 NH CARD USED
*SECNO 25.180

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECTION NO. H

25.180	12.21	1659.91	.00	.00	1661.24	1.33	2.34	.08	1654.50
38200.0	6118.0	18288.9	13793.0	1534.1	1411.1	5201.1	686.0	145.8	1653.80
.15	3.99	12.96	2.65	.080	.032	.120	.000	1647.70	8692.83
.004859	500.	430.	430.	3	0	0	.00	1662.62	10502.30

1490 NH CARD USED
*SECNO 25.233

3470 ENCROACHMENT STATIONS= 8750.0 10400.0 TYPE= 1 TARGET= 1650.000

SECTION NO. I

25.233	14.46	1661.76	.00	1661.80	1662.78	1.02	1.51	.03	1659.60
38200.0	6899.1	13448.8	17852.1	1519.1	1059.3	5416.4	729.5	155.1	1656.00
.16	4.54	12.70	3.30	.064	.035	.120	.000	1647.30	8750.00
.007189	390.	280.	180.	3	0	0	.00	1650.00	10400.00

1490 NH CARD USED
*SECNO 25.326

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

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9180.0 10260.0 TYPE= 1 TARGET= 1080.000
SECTION NO. J

25.326	12.86	1665.86	1665.86	1665.34	1668.14	2.28	3.83	.38	1661.50
36800.0	2563.9	21769.4	12466.8	597.0	1407.1	3657.8	805.9	170.3	1661.10
.18	4.29	15.47	3.41	.080	.037	.120	.000	1653.00	9180.00
.008347	490.	510.	480.	2	10	0	.00	1080.00	10260.00

1490 NH CARD USED
*SECNO 25.388

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9330.0 10450.0 TYPE= 1 TARGET= 1120.000
SECTION NO. K

25.388	13.39	1669.99	1669.99	1669.17	1672.39	2.40	3.26	.04	1665.90
36800.0	2309.7	20476.6	14013.7	527.2	1251.9	3983.1	853.8	179.5	1660.50
.19	4.38	16.36	3.52	.080	.039	.120	.000	1656.60	9330.00
.009667	350.	360.	370.	20	8	0	.00	1105.81	10450.00

1490 NH CARD USED
*SECNO 25.458

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

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


3470 ENCROACHMENT STATIONS=     9581.0   10830.0  TYPE=      1  TARGET=     1249.000
        SECTION NO. L
  25.458     13.85   1674.35       .00   1673.33   1674.71       .35      2.11       .20   1669.30
 36800.0   13999.6    2495.4   20305.0    2389.2     549.9    5230.2     914.5     189.7   1668.50
     .21      5.86      4.54      3.88      .058      .080      .080      .000   1660.50   9581.00
 .003654      390.      360.      380.         2         0         0       .00   1230.11  10830.00


1490 NH CARD USED
*SECNO 25.519

3470 ENCROACHMENT STATIONS=     9571.0   10750.0  TYPE=      1  TARGET=     1179.000
        SECTION NO. M
  25.519     14.02   1675.62       .00   1674.75   1676.43       .81      1.58       .14   1670.00
 36800.0   17809.5    5655.4   13335.1    2225.0     572.1    3201.8     970.4     199.1   1670.10
     .22      8.00      9.89      4.16      .045      .038      .073      .000   1661.60   9571.00
 .005345      450.      310.      290.         2         0         0       .00   1179.00  10750.00


1490 NH CARD USED
*SECNO 25.580
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     9639.0   10790.0  TYPE=      1  TARGET=     1151.000
        SECTION NO. N
  25.580     11.15   1677.05       .00   1676.35   1678.00       .96      1.53       .04   1674.10
 36800.0   12273.2    4700.0   19826.8    2023.6     782.3    2175.8    1008.6     207.1   1670.80
     .23      6.06      6.01      9.11      .058      .061      .025      .000   1665.90   9639.00
 .004764      320.      300.      290.         2         0         0       .00   1139.59  10790.00


1490 NH CARD USED
*SECNO 25.644
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9540.0   10760.0  TYPE=      1  TARGET=     1220.000
         SECTION NO. O
   25.644     10.35   1679.05   1679.05   1678.52   1680.55      1.49      1.97       .16   1676.60
  36800.0   14447.3   12036.5   10316.2    1706.4    1002.1    1199.0    1041.4     215.5   1675.20
      .24      8.47     12.01      8.60      .049      .046      .025      .000   1668.70   9540.00
 .008365      360.      320.      280.         2        10         0       .00   1220.00  10760.00


1490 NH CARD USED
*SECNO 25.699
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9583.8   10789.8  TYPE=      1  TARGET=     1206.000
         SECTION NO. P
   25.699     13.50   1682.90   1682.90   1682.46   1684.74      1.84      1.11       .11   1677.90
  36800.0    4716.1   22214.0    9869.9    1957.0    1626.9    2205.2    1073.7     223.5   1678.40
      .25      2.41     13.65      4.48      .105      .025      .036      .000   1669.40   9583.80
 .002192      290.      290.      290.        20        12         0       .00   1206.00  10789.80


1490 NH CARD USED
*SECNO 25.750
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9578.0   10950.0  TYPE=      1  TARGET=     1372.000
         SECTION NO. Q
   25.750     13.45   1685.05       .00   1684.90   1685.70       .65       .84       .12   1682.00
  36800.0    5329.3    6539.5   24931.1    1917.2    1319.1    3394.5    1113.1     231.8   1681.90
      .26      2.78      4.96      7.34      .113      .089      .041      .000   1671.60   9578.00
 .004404      270.      280.      280.         4         0         0       .00   1372.00  10950.00


1490 NH CARD USED
*SECNO 25.843

3470 ENCROACHMENT STATIONS=     9627.0   11100.0  TYPE=      1  TARGET=     1473.000
         SECTION NO. R
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
25.843	12.71	1686.21	.00	1685.95	1687.17	.96	1.38	.09	1686.10
36800.0	2700.7	12027.7	22071.6	597.5	1303.9	3002.0	1155.3	241.5	1685.50
.27	4.52	9.22	7.35	.050	.041	.039	.000	1673.50	9627.00
.005283	540.	370.	210.	2	0	0	.00	1473.00	11100.00

1490 NH CARD USED
*SECNO 25.919

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9693.0 11150.0 TYPE= 1 TARGET= 1457.000
SECTION NO. S

25.919	11.24	1689.64	1689.64	1689.02	1691.16	1.52	2.73	.17	1690.30
36800.0	2047.1	13910.3	20842.6	360.1	1094.7	2649.1	1191.4	252.6	1689.80
.28	5.69	12.71	7.87	.067	.045	.049	.000	1678.40	9693.00
.012551	450.	400.	310.	20	9	0	.00	1356.10	11150.00

1490 NH CARD USED
*SECNO 26.044
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9934.0 11270.0 TYPE= 1 TARGET= 1336.000
SECTION NO. T

26.044	11.94	1696.24	1696.24	1695.28	1698.31	2.08	4.57	.17	100000.00
36800.0	.0	17495.1	19304.9	.0	1070.1	5455.1	1247.8	266.4	1694.20
.30	.00	16.35	3.54	.000	.027	.100	.000	1684.30	9934.00
.006571	750.	650.	400.	19	8	0	.00	1336.00	11270.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 26.137
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9988.0 11210.0 TYPE= 1 TARGET= 1222.000
SECTION NO. U

26.137	13.97	1699.67	.00	1698.90	1700.72	1.04	2.30	.10	100000.00
36800.0	.0	10431.1	26368.9	.0	819.0	4846.6	1314.7	280.2	1704.10
.32	.00	12.74	5.44	.000	.030	.049	.000	1685.70	9988.00
.003611	500.	495.	475.	2	0	0	.00	1179.17	11210.00

1490 NH CARD USED
*SECNO 26.239
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9931.0 11050.0 TYPE= 1 TARGET= 1119.000
SECTION NO. V

26.239	9.23	1702.03	1702.03	1701.16	1703.61	1.59	2.19	.16	100000.00
36800.0	.0	8925.4	27874.6	.0	882.6	2756.4	1352.6	289.3	1700.80
.33	.00	10.11	10.11	.000	.046	.041	.000	1692.80	9931.00
.012194	570.	420.	340.	4	18	0	.00	1088.26	11050.00

1490 NH CARD USED
*SECNO 26.335

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

1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

3470 ENCROACHMENT STATIONS= 9641.0 10650.0 TYPE= 1 TARGET= 1009.000

SECTION NO. W

26.335	10.96	1706.56	.00	1705.64	1707.17	.61	3.46	.10	100000.00
36800.0	.0	33621.4	3178.6	.0	5179.3	1106.9	1410.4	301.6	1706.30
.35	.00	6.49	2.87	.000	.061	.078	.000	1695.60	9641.00
.004327	495.	500.	520.	3	0	0	.00	1009.00	10650.00

1490 NH CARD USED
*SECNO 26.430
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9781.1 10750.0 TYPE= 1 TARGET= 968.880

SECTION NO. X

26.430	10.85	1708.35	.00	1707.78	1709.95	1.60	2.49	.30	100000.00
36800.0	.0	36402.8	397.2	.0	3565.3	169.5	1467.7	311.0	1712.40
.36	.00	10.21	2.34	.000	.041	.078	.000	1697.50	9781.12
.005879	490.	495.	520.	3	0	0	.00	614.78	10750.00

1490 NH CARD USED
*SECNO 26.529
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9791.2 10650.0 TYPE= 1 TARGET= 858.790
SECTION NO. Y

26.529	9.06	1711.66	1711.66	1711.54	1715.09	3.43	3.21	.55	100000.00
36800.0	.0	36799.7	.3	.0	2476.2	.4	1504.8	316.9	1716.00
.37	.00	14.86	.72	.000	.028	.025	.000	1702.60	9791.21
.006481	530.	520.	520.	4	11	0	.00	376.25	10400.96

1490 NH CARD USED
*SECNO 26.623
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9641.0 10600.0 TYPE= 1 TARGET= 958.950
SECTION NO. Z

26.623	13.07	1716.97	.00	1716.40	1718.04	1.07	2.72	.24	100000.00
36800.0	.0	36800.0	.0	.0	4436.9	.0	1544.5	321.8	1720.10
.39	.00	8.29	.00	.000	.053	.000	.000	1703.90	9641.05
.004623	500.	500.	530.	2	0	0	.00	483.61	10124.66

1490 NH CARD USED
*SECNO 26.695
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9810.2 10920.0 TYPE= 1 TARGET= 1109.830
SECTION NO. AA

26.695	11.69	1721.19	1721.19	1720.60	1723.95	2.76	2.12	.51	1721.40
36800.0	6375.0	19167.0	11258.1	418.7	1392.3	1001.2	1576.6	326.3	1724.60
.40	15.23	13.77	11.24	.026	.035	.031	.000	1709.50	9810.17
.006626	370.	380.	430.	20	10	0	.00	506.20	10920.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 26.775
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9801.0 10950.0 TYPE= 1 TARGET= 1149.010
SECTION NO. AB

26.775	11.39	1724.09	1724.09	1723.99	1727.61	3.52	2.53	.23	1726.60
36800.0	389.1	35261.9	1149.0	162.8	2296.1	332.0	1604.2	331.4	1730.60
.41	2.39	15.36	3.46	.086	.028	.080	.000	1712.70	9800.99
.005364	390.	420.	470.	3	8	0	.00	510.03	10794.65

1490 NH CARD USED
*SECNO 26.845
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9618.2 10700.0 TYPE= 1 TARGET= 1081.770
SECTION NO. AC

26.845	11.23	1728.23	.00	1727.72	1729.71	1.48	1.90	.20	1731.10
36800.0	818.2	29645.9	6335.9	118.4	2956.9	718.1	1632.5	336.7	1728.00
.42	6.91	10.03	8.82	.035	.042	.031	.000	1717.00	9618.23
.004856	350.	370.	400.	4	0	0	.00	708.79	10658.28

1490 NH CARD USED
*SECNO 26.921

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

1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .60

3470 ENCROACHMENT STATIONS= 9726.1 10450.0 TYPE= 1 TARGET= 723.910

SECTION NO. AD

26.921	10.94	1731.14	.00	1731.00	1732.75	1.61	3.00	.04	100000.00
33800.0	.0	33800.0	.0	.0	3315.0	.0	1667.3	342.1	1731.90
.43	.00	10.20	.00	.000	.061	.000	.000	1720.20	9726.26
.011532	450.	430.	400.	2	0	0	.00	421.39	10147.65

1490 NH CARD USED
*SECNO 27.008
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

3470 ENCROACHMENT STATIONS= 9696.9 10400.0 TYPE= 1 TARGET= 703.130

SECTION NO. AE

27.008	11.75	1734.75	.00	1734.50	1735.84	1.09	3.04	.05	100000.00
33800.0	.0	33693.0	107.0	.0	4010.9	67.8	1701.3	346.5	1736.30
.44	.00	8.40	1.58	.000	.054	.080	.000	1723.00	9696.87
.005388	400.	400.	400.	2	0	0	.00	528.41	10334.06

1490 NH CARD USED
*SECNO 27.106
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

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

3470 ENCROACHMENT STATIONS= 9772.0 10600.0 TYPE= 1 TARGET= 828.020

SECTION NO. AF

27.106	12.78	1738.48	.00	1738.47	1740.42	1.94	4.32	.26	100000.00
33800.0	.0	33800.0	.0	.0	3021.8	.0	1743.7	352.6	1742.70
.46	.00	11.19	.00	.000	.053	.000	.000	1725.70	9772.00
.014474	540.	520.	500.	8	0	0	.00	492.01	10264.01

1490 NH CARD USED
*SECNO 27.169
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.64

3470 ENCROACHMENT STATIONS= 9869.8 10770.0 TYPE= 1 TARGET= 900.170

SECTION NO. AG

27.169	9.70	1741.80	.00	1741.54	1743.21	1.42	2.74	.05	100000.00
33800.0	.0	33797.4	2.6	.0	3538.4	6.9	1768.5	356.5	1745.50
.46	.00	9.55	.37	.000	.042	.080	.000	1732.10	9869.83
.005373	400.	330.	310.	2	0	0	.00	551.88	10528.18

1490 NH CARD USED
*SECNO 27.226
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

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


3470 ENCROACHMENT STATIONS=     9929.2   10930.0  TYPE=      1  TARGET=     1000.830
         SECTION NO. AH
   27.226      8.59   1743.39   1743.16   1743.08   1745.90      2.51      2.36       .33 100000.00
  33800.0        .0   33174.1     625.9       .0    2587.1     172.1    1790.2     360.3   1749.00
      .47       .00     12.82      3.64      .000      .043      .070      .000   1734.80   9929.17
  .012583      310.      300.      300.         6        15         0       .00    538.99  10924.13


1490 NH CARD USED
*SECNO 27.265
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9959.8   11000.0  TYPE=      1  TARGET=     1040.200
         SECTION NO. AI
   27.265     14.40   1750.10   1750.10   1749.27   1751.85      1.75      1.95       .08 100000.00
  33800.0        .0   23781.6   10018.4       .0    1944.0    2024.9    1806.7     364.0   1750.70
      .48       .00     12.23      4.95      .000      .032      .060      .000   1735.70   9959.80
  .007014      210.      210.      220.        20        19         0       .00    961.39  11000.00


1490 NH CARD USED
*SECNO 27.320
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9694.1 11000.0 TYPE= 1 TARGET= 1305.870

SECTION NO. AJ

27.320	13.12	1753.42	1753.42	1752.39	1755.73	2.31	1.64	.17	1749.80
33800.0	744.9	25325.8	7729.4	371.6	1812.1	2580.1	1835.5	371.4	1754.90
.48	2.00	13.98	3.00	.080	.036	.080	.000	1740.30	9694.13
.004923	260.	275.	300.	20	15	0	.00	1255.77	11000.00

1490 NH CARD USED
*SECNO 27.366
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9738.6 11000.0 TYPE= 1 TARGET= 1261.370

SECTION NO. AK

27.366	13.93	1756.23	.00	1755.30	1756.77	.53	.86	.18	100000.00
33800.0	.0	25798.8	8001.2	.0	3965.2	2728.3	1867.1	378.3	1755.10
.50	.00	6.51	2.93	.000	.057	.064	.000	1742.30	9738.63
.002735	230.	240.	240.	3	0	0	.00	1261.37	11000.00

1490 NH CARD USED
*SECNO 27.417

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9879.0 10890.0 TYPE= 1 TARGET= 1011.010

SECTION NO. AL

27.417	13.07	1757.87	1757.87	1757.21	1760.17	2.30	1.56	.53	100000.00
33800.0	.0	28789.1	5010.9	.0	2231.4	784.3	1898.0	384.4	1759.40
.50	.00	12.90	6.39	.000	.056	.075	.000	1744.80	9878.99
.018219	250.	270.	290.	20	10	0	.00	637.94	10890.00

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
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 27.502
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS=     9960.7   10600.0  TYPE=      1  TARGET=      639.290
          SECTION NO. AM
   27.502     16.08   1764.88       .00   1764.57   1767.12      2.24      6.94       .01 100000.00
  33800.0        .0   26140.0    7660.0        .0    1974.0    1259.5    1931.6     391.6   1762.50
      .51       .00     13.24      6.08      .000      .059      .057      .000   1748.80   9960.71
 .012642      430.      450.      510.         2         0         0       .00    639.29  10600.00


1490 NH CARD USED
*SECNO 27.604
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.71


3470 ENCROACHMENT STATIONS=     9772.5   10415.0  TYPE=      1  TARGET=      642.460
          SECTION NO. AN
   27.604     14.98   1769.18       .00   1768.51   1771.08      1.90      3.93       .03 100000.00
  33800.0        .0   31668.0    2132.0        .0    2775.7     718.7    1977.5     400.2   1765.20
      .53       .00     11.41      2.97      .000      .043      .080      .000   1754.20   9772.54
 .004312      510.      550.      700.         3         0         0       .00    524.06  10415.00


1490 NH CARD USED
*SECNO 27.693

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9980.3   10480.0  TYPE=      1  TARGET=      499.750
          SECTION NO. AO
   27.693     18.01   1774.31   1774.31   1774.29   1776.92      2.60      4.66       .21 100000.00
  33800.0        .0   26691.2    7108.8        .0    1915.0     867.6    2011.2     405.6   1771.70
      .54       .00     13.94      8.19      .000      .092      .080      .000   1756.30   9980.25
 .042776      490.      470.      460.        20        12         0       .00    499.75  10480.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 27.797
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.24

3470 ENCROACHMENT STATIONS= 9976.2 10605.0 TYPE= 1 TARGET= 628.810
SECTION NO. AP

27.797	20.18	1780.78	.00	1779.81	1782.26	1.48	5.24	.11	100000.00
33800.0	.0	25394.0	8406.0	.0	2301.5	2159.1	2056.9	412.8	1776.10
.55	.00	11.03	3.89	.000	.045	.070	.000	1760.60	9976.19
.004076	560.	550.	550.	5	0	0	.00	628.81	10605.00

1490 NH CARD USED
*SECNO 27.913
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9970.2 10450.0 TYPE= 1 TARGET= 479.830
SECTION NO. AQ

27.913	20.96	1784.06	.00	1783.23	1785.97	1.91	3.58	.13	100000.00
33800.0	.0	31424.0	2376.0	.0	2745.7	536.8	2110.8	420.4	1782.10
.57	.00	11.44	4.43	.000	.057	.060	.000	1763.10	9970.17
.009225	620.	610.	600.	3	0	0	.00	479.83	10450.00

1490 NH CARD USED
*SECNO 28.023
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS= 9772.2 10225.0 TYPE= 1 TARGET= 452.770
SECTION NO. AR

28.023	15.96	1788.46	.00	1787.52	1790.34	1.89	4.37	.00	1782.90
33800.0	15105.2	17599.1	1095.7	1167.6	1868.1	307.7	2155.2	426.7	1784.00
.58	12.94	9.42	3.56	.043	.058	.060	.000	1772.50	9772.23
.006174	600.	580.	580.	3	0	0	.00	452.77	10225.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 28.091

3470 ENCROACHMENT STATIONS= 9666.9 10145.0 TYPE= 1 TARGET= 478.140
SECTION NO. AS

28.091	10.20	1791.00	.00	1790.41	1793.24	2.23	2.79	.10	1786.50
33800.0	11493.0	22275.9	31.1	1331.4	1661.4	15.4	2180.7	430.5	1789.60
.59	8.63	13.41	2.03	.060	.044	.060	.000	1780.80	9666.86
.010755	330.	360.	400.	2	0	0	.00	476.53	10143.39

1490 NH CARD USED
*SECNO 28.157
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9623.6 10175.0 TYPE= 1 TARGET= 551.400
SECTION NO. AT

28.157	11.49	1794.09	1794.09	1794.06	1796.72	2.63	2.72	.12	1788.50
33800.0	15164.9	17260.1	1375.0	1700.4	1073.0	229.3	2204.6	434.6	1792.30
.60	8.92	16.09	6.00	.041	.029	.035	.000	1782.60	9623.60
.005986	340.	350.	370.	3	8	0	.00	551.40	10175.00

1490 NH CARD USED
*SECNO 28.241
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9663.8 10265.0 TYPE= 1 TARGET= 601.170
SECTION NO. AU

28.241	9.26	1799.16	1799.16	1799.07	1801.89	2.73	2.38	.03	1795.00
33800.0	3196.7	29173.5	1429.8	343.9	2093.3	549.6	2234.4	440.4	1796.60
.61	9.29	13.94	2.60	.027	.028	.077	.000	1789.90	9663.83
.005109	400.	440.	490.	20	15	0	.00	601.17	10265.00

1490 NH CARD USED
*SECNO 28.326

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

1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9836.3 10435.0 TYPE= 1 TARGET= 598.660

SECTION NO. AV

28.326	12.44	1803.74	1803.74	1803.41	1806.15	2.41	4.17	.03	100000.00
33800.0	.0	27292.1	6507.9	.0	2032.1	923.3	2265.4	446.7	1802.00
.62	.00	13.43	7.05	.000	.067	.060	.000	1791.30	9836.34
.021395	440.	450.	470.	6	11	0	.00	598.66	10435.00

1490 NH CARD USED
*SECNO 28.390
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.11

3470 ENCROACHMENT STATIONS= 9879.5 10530.0 TYPE= 1 TARGET= 650.470

SECTION NO. AW

28.390	15.54	1808.34	.00	1807.39	1809.30	.97	3.01	.14	100000.00
33800.0	.0	13215.5	20584.5	.0	2106.4	2342.2	2294.3	451.6	1802.70
.63	.00	6.27	8.79	.000	.082	.034	.000	1792.80	9879.53
.004815	350.	340.	340.	4	0	0	.00	650.47	10530.00

1490 NH CARD USED
*SECNO 28.462
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 9892.3 10475.0 TYPE= 1 TARGET= 582.720

SECTION NO. AX

28.462	15.81	1810.61	.00	1810.03	1812.17	1.56	2.69	.18	100000.00
33800.0	.0	24101.7	9698.3	.0	2116.3	1817.6	2330.8	457.0	1805.60
.64	.00	11.39	5.34	.000	.073	.080	.000	1794.80	9892.28
.011426	380.	380.	380.	3	0	0	.00	582.72	10475.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 28.555
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9944.6 10450.0 TYPE= 1 TARGET= 505.400
SECTION NO. AY

28.555	15.03	1814.43	.00	1814.02	1816.81	2.37	4.39	.24	100000.00
33800.0	.0	26739.0	7061.0	.0	1961.1	1335.4	2371.8	463.2	1810.00
.65	.00	13.63	5.29	.000	.046	.060	.000	1799.40	9944.60
.007143	490.	490.	500.	2	0	0	.00	505.40	10450.00

1490 NH CARD USED
*SECNO 28.657

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9948.2 10450.0 TYPE= 1 TARGET= 501.790
SECTION NO. AZ

28.657	19.94	1820.44	.00	1819.95	1821.41	.97	4.46	.14	100000.00
33800.0	.0	24416.7	9383.4	.0	3002.5	1292.5	2418.9	469.4	1816.70
.67	.00	8.13	7.26	.000	.092	.060	.000	1800.50	9948.21
.009677	550.	540.	540.	4	0	0	.00	501.79	10450.00

1490 NH CARD USED
*SECNO 28.750
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS= 9899.3 10550.0 TYPE= 1 TARGET= 650.650
SECTION NO. BA

28.750	15.67	1823.97	.00	1822.94	1825.03	1.06	3.59	.03	100000.00
33800.0	.0	25316.8	8483.2	.0	2787.2	1713.9	2467.7	475.7	1819.70
.69	.00	9.08	4.95	.000	.065	.060	.000	1808.30	9899.35
.005847	500.	490.	470.	3	0	0	.00	650.65	10550.00

1490 NH CARD USED

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 28.847
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9911.6   10560.0  TYPE=      1  TARGET=      648.430
          SECTION NO. BB
    28.847     14.50   1826.40       .00   1825.53   1828.59      2.19      3.22       .34 100000.00
   33800.0        .0   26402.0    7398.0        .0    2003.5    1535.9    2514.4     483.2   1821.40
       .70       .00     13.18      4.82      .000      .048      .064      .000   1811.90   9911.57
   .006926      520.      510.      500.         3         0         0       .00    648.43  10560.00


1490 NH CARD USED
*SECNO 28.934
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9857.4   10510.0  TYPE=      1  TARGET=      652.620
          SECTION NO. BC
    28.934     14.78   1830.28       .00   1829.45   1831.73      1.45      3.07       .07 100000.00
   33800.0        .0   17166.5   16633.5        .0    2089.4    1514.4    2552.4     490.2   1826.80
       .72       .00      8.22     10.98      .000      .068      .027      .000   1815.50   9857.38
   .006341      410.      460.      470.         3         0         0       .00    652.62  10510.00


1490 NH CARD USED
*SECNO 29.012
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9940.8   10590.0  TYPE=      1  TARGET=      649.240
          SECTION NO. BD
    29.012     14.45   1833.15   1833.15   1832.94   1835.48      2.33      2.07       .26 100000.00
   33800.0        .0   24216.6    9583.4        .0    1729.3    1657.5    2585.7     496.5   1827.50
       .73       .00     14.00      5.78      .000      .033      .042      .000   1818.70   9940.76
   .004049      400.      410.      420.        20         6         0       .00    649.24  10590.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 29.130
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS= 9972.0 10650.0 TYPE= 1 TARGET= 678.040
SECTION NO. BE

29.130	15.99	1836.99	.00	1836.92	1839.28	2.29	3.81	.00	100000.00
33800.0	.0	30481.0	3319.0	.0	2419.3	497.8	2628.9	504.8	1834.50
.74	.00	12.60	6.67	.000	.044	.045	.000	1821.00	9971.96
.011526	590.	595.	600.	4	0	0	.00	571.68	10543.64

1490 NH CARD USED
*SECNO 29.258

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9794.0 10550.0 TYPE= 1 TARGET= 755.950
SECTION NO. BF

29.258	14.21	1842.91	.00	1842.95	1845.82	2.91	6.35	.19	100000.00
33800.0	.0	33777.4	22.6	.0	2466.6	25.5	2672.7	512.1	1844.50
.75	.00	13.69	.89	.000	.041	.080	.000	1828.70	9794.10
.007232	710.	705.	710.	4	0	0	.00	321.24	10506.86

1490 NH CARD USED
*SECNO 29.351
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9695.0 10400.0 TYPE= 1 TARGET= 705.000
SECTION NO. BG

29.351	12.88	1848.78	.00	1848.75	1849.49	.71	3.45	.22	100000.00
33800.0	.0	33800.0	.0	.0	4990.1	.0	2714.8	517.4	1849.30
.77	.00	6.77	.00	.000	.072	.000	.000	1835.90	9695.00
.006858	500.	490.	490.	3	0	0	.00	619.80	10314.80

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
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 29.387
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS= 9570.0 10303.0 TYPE= 1 TARGET= 733.000
SECTION NO. BH

29.387	11.18	1849.98	.00	1849.60	1850.68	.71	1.19	.00	100000.00
33800.0	.0	33800.0	.0	.0	5005.7	.0	2736.6	520.3	1850.70
.78	.00	6.75	.00	.000	.060	.000	.000	1838.80	9570.00
.005755	190.	190.	200.	2	0	0	.00	728.75	10298.75

1490 NH CARD USED
*SECNO 29.493
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS= 9300.0 10160.0 TYPE= 1 TARGET= 860.000
SECTION NO. BI

29.493	9.91	1853.31	.00	1852.27	1854.22	.91	3.47	.06	100000.00
33800.0	.0	33060.1	739.9	.0	4285.1	239.5	2797.7	530.3	1850.80
.80	.00	7.72	3.09	.000	.050	.080	.000	1843.40	9300.00
.006719	610.	560.	520.	2	0	0	.00	834.20	10134.20

1490 NH CARD USED
*SECNO 29.538
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS= 9300.0 10120.0 TYPE= 1 TARGET= 820.000
SECTION NO. BJ

29.538	9.67	1855.17	.00	1854.96	1857.08	1.91	2.56	.30	100000.00
33800.0	.0	33800.0	.0	.0	3046.4	.0	2818.5	534.6	1857.70
.81	.00	11.09	.00	.000	.049	.000	.000	1845.50	9329.75
.019474	270.	240.	230.	3	0	0	.00	721.18	10050.93

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
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 29.601
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS=     9500.0   10060.0  TYPE=      1  TARGET=      560.000
         SECTION NO. BK
   29.601     10.48   1860.38       .00   1859.72   1862.11      1.72      5.01       .02 100000.00
  33800.0        .0   33800.0        .0        .0    3208.6        .0    2842.2     539.4 100000.00
      .82       .00     10.53       .00      .000      .050      .000      .000   1849.90   9500.00
  .012157      370.      330.      330.         3         0         0       .00    548.92  10048.92


1490 NH CARD USED
*SECNO 29.663
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3470 ENCROACHMENT STATIONS=     9650.0   10100.0  TYPE=      1  TARGET=      450.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00

         SECTION NO. BL
   29.663     13.64   1864.54       .00   1864.50   1866.25      1.72      4.15       .00 100000.00
  33800.0        .0   33800.0        .0        .0    3214.6        .0    2866.6     543.2 100000.00
      .83       .00     10.51       .00      .000      .059      .000      .000   1850.90   9650.00
  .012993      330.      330.      330.         2         0         0       .00    450.00  10100.00


1490 NH CARD USED
*SECNO 29.710
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.65


3470 ENCROACHMENT STATIONS=     9733.0   10033.0  TYPE=      1  TARGET=      300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1890.00 ELREA=      1890.00

         SECTION NO. BM (SECTION BN MOVED 50' DWNSTREAM TO FRONT OF BRIDGE)
   29.710     11.42   1866.42       .00   1865.57   1868.71      2.29      2.29       .17 100000.00
  33800.0        .0   33800.0        .0        .0    2783.9        .0    2887.9     545.9 100000.00
      .83       .00     12.14       .00      .000      .036      .000      .000   1855.00   9733.00
  .004754      600.      310.      150.         3         0         0       .00    300.00  10033.00
```

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

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.60	2.60	.00	220.00	12.00	4032.00	2.00	1855.00	1855.00

*SECNO 29.720
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1865.87 BRIDGE VELOCITY= 13.53 CALCULATED CHANNEL AREA= 2498.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1869.61	.58	0.	33800.	4032.	3840.	1871.00	1879.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1880.00 ELREA= 1880.00

SECTION NO. BN

29.720	12.01	1867.01	.00	1866.16	1869.61	2.60	.90	.00	1876.00
33800.0	.0	33800.0	.0	.0	2610.3	.0	2891.0	546.2	1876.10
.83	.00	12.95	.00	.000	.037	.000	.000	1855.00	9617.08
.005277	50.	50.	50.	0	0	0	.00	275.23	9892.31

1490 NH CARD USED
*SECNO 29.770
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1890.60 ELREA= 1872.70

SECTION NO. BO

29.770	10.74	1867.94	.00	1867.55	1870.82	2.88	1.13	.08	1890.60
33800.0	.0	33800.0	.0	.0	2479.7	.0	2902.7	547.4	1872.70
.84	.00	13.63	.00	.000	.037	.000	.000	1857.20	9770.43
.006035	50.	200.	550.	2	0	0	.00	269.88	10040.30

1490 NH CARD USED
*SECNO 29.850
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

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

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9448.5 10043.5 TYPE= 1 TARGET= 595.000
SECTION NO. BP (NEW SECTION ADDED @ 400' UPSTREAM OF 68)

29.850	14.12	1871.82	1871.82	1871.83	1874.75	2.94	2.30	.02	1860.00
33800.0	13950.3	19326.6	523.2	2401.4	1105.2	98.2	2930.6	551.4	1858.00
.85	5.81	17.49	5.33	.060	.035	.060	.000	1857.70	9448.50
.005482	400.	400.	400.	20	11	0	.00	595.00	10043.50

CCHV= .100 CEHV= .300
*SECNO 30.100

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9312.7 10022.6 TYPE= 1 TARGET= 709.850

30.100	13.14	1880.54	.00	1880.24	1881.91	1.37	6.99	.16	1873.00
33800.0	22263.8	11204.1	332.1	2949.0	911.0	62.2	3030.8	567.2	1869.60
.88	7.55	12.30	5.34	.055	.050	.055	.000	1867.40	9312.74
.006264	1100.	1304.	1325.	2	0	0	.00	620.76	10022.17

*SECNO 30.200

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9405.3 10111.3 TYPE= 1 TARGET= 706.020

30.200	10.94	1886.14	1886.14	1885.68	1888.31	2.18	4.50	.24	1876.50
33800.0	12103.8	20834.7	861.5	1697.3	1491.4	102.8	3075.2	575.4	1875.20
.90	7.13	13.97	8.38	.055	.050	.055	.000	1875.20	9405.25
.011819	535.	537.	545.	20	12	0	.00	706.02	10111.27

*SECNO 30.280
7185 MINIMUM SPECIFIC ENERGY

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

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9454.5 10030.4 TYPE= 1 TARGET= 575.910

30.280	14.80	1891.90	1891.90	1891.54	1894.57	2.67	4.94	.15	1881.80
33800.0	11893.8	20951.4	954.9	1689.8	1334.9	117.1	3111.3	583.0	1877.50
.91	7.04	15.70	8.15	.055	.050	.055	.000	1877.10	9454.46
.009524	550.	421.	430.	3	11	0	.00	575.91	10030.37

*SECNO 30.420

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9630.3 10401.7 TYPE= 1 TARGET= 771.390

30.420	12.44	1898.24	.00	1897.40	1899.11	.87	4.36	.18	1890.30
33800.0	7514.7	7006.7	19278.6	1440.7	751.7	2584.5	3166.5	591.8	1890.30
.93	5.22	9.32	7.46	.055	.050	.055	.000	1885.80	9630.32
.005208	500.	713.	650.	1	0	0	.00	771.39	10401.71

*SECNO 30.520

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9600.2 10301.0 TYPE= 1 TARGET= 700.729

30.520	8.86	1902.36	1902.36	1902.23	1904.52	2.15	4.63	.39	1893.60
33800.0	12576.8	10495.5	10727.6	1390.1	665.6	1086.0	3216.2	601.2	1894.00
.94	9.05	15.77	9.88	.055	.050	.055	.000	1893.50	9600.24
.016259	600.	560.	500.	2	19	0	.00	700.73	10300.97

PROFILE FOR STREAM CAVE CREEK

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1622.	1672.	1722.	1772.	1822.	1872.	1922.	1972.	2022.	2072.
SECNO	CUMDIS									
24.52	0.	ILE M	.	.	.	.	.	.	.	.	.
	50.	ILE M	.	.	.	.	.	.	.	.	.
	100.	ILE M	.	.	.	.	.	.	.	.	.
	150.	IRE M	.	.	.	.	.	.	.	.	.
	200.	IRE M	.	.	.	.	.	.	.	.	.
	250.	IRE M	.	.	.	.	.	.	.	.	.
	300.	IRLEM	.	.	.	.	.	.	.	.	.
	350.	IRLEM	.	.	.	.	.	.	.	.	.
	400.	CILEM	.	.	.	.	.	.	.	.	.
	450.	CILEM	.	.	.	.	.	.	.	.	.
	500.	CILE M	.	.	.	.	.	.	.	.	.
	550.	CILE M	.	.	.	.	.	.	.	.	.
	600.	CILE M	.	.	.	.	.	.	.	.	.
24.65	650.	CILE M	.	.	.	.	.	.	.	.	.
	700.	CILE M	.	.	.	.	.	.	.	.	.
	750.	CILE M	.	.	.	.	.	.	.	.	.
	800.	CILE M	.	.	.	.	.	.	.	.	.
	850.	CILE M	.	.	.	.	.	.	.	.	.
	900.	CILEM	.	.	.	.	.	.	.	.	.
	950.	CILEM	.	.	.	.	.	.	.	.	.
	1000.	CILWE	.	.	.	.	.	.	.	.	.
	1050.	CILWE	.	.	.	.	.	.	.	.	.
	1100.	CILWE	.	.	.	.	.	.	.	.	.
	1150.	CILWE	.	.	.	.	.	.	.	.	.
24.75	1200.	CILRE	.	.	.	.	.	.	.	.	.
	1250.	C IRE	.	.	.	.	.	.	.	.	.
	1300.	C ILE	.	.	.	.	.	.	.	.	.
	1350.	C ILE	.	.	.	.	.	.	.	.	.
	1400.	C ILE	.	.	.	.	.	.	.	.	.
	1450.	C I E	.	.	.	.	.	.	.	.	.
	1500.	C I WE	.	.	.	.	.	.	.	.	.
	1550.	C I WE	.	.	.	.	.	.	.	.	.
	1600.	C I LE	.	.	.	.	.	.	.	.	.
	1650.	C IRE	.	.	.	.	.	.	.	.	.
24.84	1700.	C IRE	.	.	.	.	.	.	.	.	.
	1750.	C IRE	.	.	.	.	.	.	.	.	.
	1800.	C IRE	.	.	.	.	.	.	.	.	.
	1850.	C IREM	.	.	.	.	.	.	.	.	.
	1900.	C IREM	.	.	.	.	.	.	.	.	.
	1950.	C IREM	.	.	.	.	.	.	.	.	.
	2000.	C IREL	.	.	.	.	.	.	.	.	.
	2050.	C IREL	.	.	.	.	.	.	.	.	.
24.92	2100.	C IREL	.	.	.	.	.	.	.	.	.
	2150.	C IRWE	.	.	.	.	.	.	.	.	.
	2200.	C I WEM	.	.	.	.	.	.	.	.	.
	2250.	C I WEM	.	.	.	.	.	.	.	.	.

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       2300.  C  I LEM  .         .         .         .         .         .         .         .         .         .
       2350.  C  I LEM  .         .         .         .         .         .         .         .         .         .
       2400.  C  I LEM  .         .         .         .         .         .         .         .         .         .
       2450.  C  I LEM  .         .         .         .         .         .         .         .         .         .
       2500.  C  I LEM  .         .         .         .         .         .         .         .         .         .
       2550.  C   ILE M .         .         .         .         .         .         .         .         .         .
25.01  2600.  C   ILE M .         .         .         .         .         .         .         .         .         .
       2650.  C   ILE M .         .         .         .         .         .         .         .         .         .
       2700.  C   ILE M .         .         .         .         .         .         .         .         .         .
       2750.  C   ILE M .         .         .         .         .         .         .         .         .         .
       2800.  C   ILWE  .         .         .         .         .         .         .         .         .         .
       2850.  C   ILWE  .         .         .         .         .         .         .         .         .         .
       2900.  C   I LE  .         .         .         .         .         .         .         .         .         .
       2950.  C    ILE  .         .         .         .         .         .         .         .         .         .
       3000.  C    ILE  .         .         .         .         .         .         .         .         .         .
25.10  3050.  .    ILE  .         .         .         .         .         .         .         .         .         .
       3100.  C    ILE  .         .         .         .         .         .         .         .         .         .
       3150.  C    ILE  .         .         .         .         .         .         .         .         .         .
       3200.  C    ILWE .         .         .         .         .         .         .         .         .         .
       3250.  C    ILWE .         .         .         .         .         .         .         .         .         .
       3300.  C    ILWE .         .         .         .         .         .         .         .         .         .
       3350.  C    ILWE .         .         .         .         .         .         .         .         .         .
       3400.  C    ILWE .         .         .         .         .         .         .         .         .         .
       3450.  C    IL E .         .         .         .         .         .         .         .         .         .
25.18  3500.  C    IRLE .         .         .         .         .         .         .         .         .         .
       3550.  C    IRLE .         .         .         .         .         .         .         .         .         .
       3600.  C    I LE .         .         .         .         .         .         .         .         .         .
       3650.  C    I LE .         .         .         .         .         .         .         .         .         .
       3700.  C    I LE .         .         .         .         .         .         .         .         .         .
25.23  3750.  C    I RE .         .         .         .         .         .         .         .         .         .
       3800.  C    I RE .         .         .         .         .         .         .         .         .         .
       3850.  C    I REM.         .         .         .         .         .         .         .         .         .
       3900.  C    I REM.         .         .         .         .         .         .         .         .         .
       3950.  C     IRWE.         .         .         .         .         .         .         .         .         .
       4000.  C     IRWE.         .         .         .         .         .         .         .         .         .
       4050.  C     IRWE.         .         .         .         .         .         .         .         .         .
       4100.  C     IRLE.         .         .         .         .         .         .         .         .         .
       4150.  C     I LE.         .         .         .         .         .         .         .         .         .
       4200.  C     I LE.         .         .         .         .         .         .         .         .         .
25.33  4250.  .     I LE.         .         .         .         .         .         .         .         .         .
       4300.  .     I LEM         .         .         .         .         .         .         .         .         .
       4350.  .     I LEM         .         .         .         .         .         .         .         .         .
       4400.  .     I LWE         .         .         .         .         .         .         .         .         .
       4450.  .      ILWE         .         .         .         .         .         .         .         .         .
       4500.  .      IRWE         .         .         .         .         .         .         .         .         .
       4550.  .      IRWE         .         .         .         .         .         .         .         .         .
       4600.  .      IRLE         .         .         .         .         .         .         .         .         .
25.39  4650.  .      IRLE         .         .         .         .         .         .         .         .         .
       4700.  C      IRLEM        .         .         .         .         .         .         .         .         .
       4750.  C      IRLEM        .         .         .         .         .         .         .         .         .
       4800.  C      IRLEM        .         .         .         .         .         .         .         .         .
       4850.  C      I LEM        .         .         .         .         .         .         .         .         .
       4900.  C      I LEM        .         .         .         .         .         .         .         .         .
       4950.  C       ILEM        .         .         .         .         .         .         .         .         .
25.46  5000.  C       ILWE        .         .         .         .         .         .         .         .         .
       5050.  C       IL.E        .         .         .         .         .         .         .         .         .
       5100.  C       IRLE        .         .         .         .         .         .         .         .         .
       5150.  C       IRLE        .         .         .         .         .         .         .         .         .
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       5200.  C      I LE      .         .         .         .         .         .         .         .         .
       5250.  C      I LE      .         .         .         .         .         .         .         .         .
25.52  5300.  C      I LE      .         .         .         .         .         .         .         .         .
       5350.  C      I LEM     .         .         .         .         .         .         .         .         .
       5400.  C      I LEM     .         .         .         .         .         .         .         .         .
       5450.  C      I LEM     .         .         .         .         .         .         .         .         .
       5500.  C      I LEM     .         .         .         .         .         .         .         .         .
       5550.  C       ILEM     .         .         .         .         .         .         .         .         .
25.58  5600.  C       ILEM     .         .         .         .         .         .         .         .         .
       5650.  C       ILEM     .         .         .         .         .         .         .         .         .
       5700.  C       IREM     .         .         .         .         .         .         .         .         .
       5750.  C       IREM     .         .         .         .         .         .         .         .         .
       5800.  C       IRWE     .         .         .         .         .         .         .         .         .
       5850.  C       IRWE     .         .         .         .         .         .         .         .         .
25.64  5900.  .       I.WE     .         .         .         .         .         .         .         .         .
       5950.  .       I.LE     .         .         .         .         .         .         .         .         .
       6000.  .       I.LE     .         .         .         .         .         .         .         .         .
       6050.  .       I.LE     .         .         .         .         .         .         .         .         .
       6100.  .       I.LEM    .         .         .         .         .         .         .         .         .
       6150.  .       I.LEM    .         .         .         .         .         .         .         .         .
25.70  6200.  .       I.LWE    .         .         .         .         .         .         .         .         .
       6250.  C       ILWE     .         .         .         .         .         .         .         .         .
       6300.  C       ILWE     .         .         .         .         .         .         .         .         .
       6350.  C       I WE     .         .         .         .         .         .         .         .         .
       6400.  C       I WE     .         .         .         .         .         .         .         .         .
       6450.  C       I LE     .         .         .         .         .         .         .         .         .
25.75  6500.  C       I LE     .         .         .         .         .         .         .         .         .
       6550.  C       I LE     .         .         .         .         .         .         .         .         .
       6600.  C       I LE     .         .         .         .         .         .         .         .         .
       6650.  C       I LE     .         .         .         .         .         .         .         .         .
       6700.  C       I LE     .         .         .         .         .         .         .         .         .
       6750.  C       I REM    .         .         .         .         .         .         .         .         .
       6800.  C       I  EM    .         .         .         .         .         .         .         .         .
25.84  6850.  C       I  EM    .         .         .         .         .         .         .         .         .
       6900.  C       I  EM    .         .         .         .         .         .         .         .         .
       6950.  C       .I EM    .         .         .         .         .         .         .         .         .
       7000.  C       .I EM    .         .         .         .         .         .         .         .         .
       7050.  C       .I EM    .         .         .         .         .         .         .         .         .
       7100.  C       .I WE    .         .         .         .         .         .         .         .         .
       7150.  C       .I WE    .         .         .         .         .         .         .         .         .
       7200.  C       .I WE    .         .         .         .         .         .         .         .         .
25.92  7250.  .       .I  E    .         .         .         .         .         .         .         .         .
       7300.  .       .I  E    .         .         .         .         .         .         .         .         L
       7350.  .       .I  E    .         .         .         .         .         .         .         .         L
       7400.  .       . I E    .         .         .         .         .         .         .         .         L
       7450.  .       . I E    .         .         .         .         .         .         .         .         L
       7500.  .       . I E    .         .         .         .         .         .         .         .         L
       7550.  .       . I EM   .         .         .         .         .         .         .         .         L
       7600.  .       . I WE   .         .         .         .         .         .         .         .         L
       7650.  .       . I WE   .         .         .         .         .         .         .         .         L
       7700.  .       . I WE   .         .         .         .         .         .         .         .         L
       7750.  .       . I RE   .         .         .         .         .         .         .         .         L
       7800.  .       . I RE   .         .         .         .         .         .         .         .         L
       7850.  .       . I RE   .         .         .         .         .         .         .         .         L
26.04  7900.  .       . I RE   .         .         .         .         .         .         .         .         L
       7950.  C       . I  E   .         .         .         .         .         .         .         .         L
       8000.  C       .  I E   .         .         .         .         .         .         .         .         L
       8050.  C       .  I E   .         .         .         .         .         .         .         .         L
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       8100.  C          .  I EM   .         .         .         .         .         .         .         .         L
       8150.  C          .  I WE   .         .         .         .         .         .         .         .         L
       8200.  C          .  I WE   .         .         .         .         .         .         .         .         L
       8250.  C          .  I WE   .         .         .         .         .         .         .         .         L
       8300.  C          .  I WE   .         .         .         .         .         .         .         .         L
       8350.  C          .  I WE   .         .         .         .         .         .         .         .         L
26.14  8400.  C          .  I  E   .         .         .         .         .         .         .         .         L
       8450.  C          .  I  E   .         .         .         .         .         .         .         .         L
       8500.  C          .  I  E   .         .         .         .         .         .         .         .         L
       8550.  C          .  I  E   .         .         .         .         .         .         .         .         L
       8600.  C          .  I  E   .         .         .         .         .         .         .         .         L
       8650.  C          .   I E   .         .         .         .         .         .         .         .         L
       8700.  C          .   I E   .         .         .         .         .         .         .         .         L
       8750.  C          .   I E   .         .         .         .         .         .         .         .         L
       8800.  C          .   I E   .         .         .         .         .         .         .         .         L
26.24  8850.  .          .   I E   .         .         .         .         .         .         .         .         L
       8900.  C          .   I EM  .         .         .         .         .         .         .         .         L
       8950.  C          .   I EM  .         .         .         .         .         .         .         .         L
       9000.  C          .   I WE  .         .         .         .         .         .         .         .         L
       9050.  C          .   I WE  .         .         .         .         .         .         .         .         L
       9100.  C          .   I WE  .         .         .         .         .         .         .         .         L
       9150.  C          .   I RE  .         .         .         .         .         .         .         .         L
       9200.  C          .    I E  .         .         .         .         .         .         .         .         L
       9250.  C          .    I E  .         .         .         .         .         .         .         .         L
       9300.  C          .    I E  .         .         .         .         .         .         .         .         L
26.33  9350.  C          .    I E  .         .         .         .         .         .         .         .         L
       9400.  C          .    I E  .         .         .         .         .         .         .         .         L
       9450.  C          .    I E  .         .         .         .         .         .         .         .         L
       9500.  C          .    I EM .         .         .         .         .         .         .         .         L
       9550.  C          .    I EM .         .         .         .         .         .         .         .         L
       9600.  C          .    I EM .         .         .         .         .         .         .         .         L
       9650.  C          .    I ER .         .         .         .         .         .         .         .         L
       9700.  C          .    I ER .         .         .         .         .         .         .         .         L
       9750.  C          .    I ER .         .         .         .         .         .         .         .         L
26.43  9800.  C          .    I WE .         .         .         .         .         .         .         .         L
       9850.  C          .    I WE .         .         .         .         .         .         .         .         L
       9900.  C          .    I WE .         .         .         .         .         .         .         .         L
       9950.  C          .    I WE .         .         .         .         .         .         .         .         L
      10000.  C          .    I  E .         .         .         .         .         .         .         .         L
      10050.  C          .     I E .         .         .         .         .         .         .         .         L
      10100.  C          .     I E .         .         .         .         .         .         .         .         L
      10150.  C          .     I ER.         .         .         .         .         .         .         .         L
      10200.  C          .     I ER.         .         .         .         .         .         .         .         L
      10250.  C          .     I ER.         .         .         .         .         .         .         .         L
      10300.  .     C    .     I WE.         .         .         .         .         .         .         .         L
26.53 10350.  .          .     I WE.         .         .         .         .         .         .         .         L
      10400.  C          .     I WE.         .         .         .         .         .         .         .         L
      10450.  C          .     I WE.         .         .         .         .         .         .         .         L
      10500.  C          .     I WE.         .         .         .         .         .         .         .         L
      10550.  C          .     I WE.         .         .         .         .         .         .         .         L
      10600.  C          .     I WE.         .         .         .         .         .         .         .         L
      10650.  C          .     I  E.         .         .         .         .         .         .         .         L
      10700.  C          .     I  EM         .         .         .         .         .         .         .         L
      10750.  C          .     I  EM         .         .         .         .         .         .         .         L
      10800.  C          .     I  ER         .         .         .         .         .         .         .         L
26.62 10850.  C          .     I  ER         .         .         .         .         .         .         .         L
      10900.  C          .      I ER         .         .         .         .         .         .         .         L
      10950.  C          .      I WE         .         .         .         .         .         .         .         L
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       11000.  C        .     I WEM      .        .        .        .        .        .        .        L
       11050.  C        .     I WEM      .        .        .        .        .        .        .        L
       11100.  C        .     I  EM      .        .        .        .        .        .        .        L
       11150.  C        .     I  EM      .        .        .        .        .        .        .        L
26.69  11200.  .        .      I ER      .        .        .        .        .        .        .        .
       11250.  .        .      I ER      .        .        .        .        .        .        .        .
       11300.  .        .      I WE      .        .        .        .        .        .        .        .
       11350.  .        .      I WE      .        .        .        .        .        .        .        .
       11400.  .        .      I WE      .        .        .        .        .        .        .        .
       11450.  .        .      I WEM     .        .        .        .        .        .        .        .
       11500.  .        .      I WEM     .        .        .        .        .        .        .        .
       11550.  .        .      I WER     .        .        .        .        .        .        .        .
       11600.  .        .      I WER     .        .        .        .        .        .        .        .
26.77  11650.  .        .      I WER     .        .        .        .        .        .        .        .
       11700.  C        .      I .ER     .        .        .        .        .        .        .        .
       11750.  C        .      I .ER     .        .        .        .        .        .        .        .
       11800.  C        .      I .ER     .        .        .        .        .        .        .        .
       11850.  C        .       I.EM     .        .        .        .        .        .        .        .
       11900.  C        .       I.EL     .        .        .        .        .        .        .        .
       11950.  C        .       I.EL     .        .        .        .        .        .        .        .
26.84  12000.  C        .       I.WEM    .        .        .        .        .        .        .        .
       12050.  C        .       I.WEM    .        .        .        .        .        .        .        L
       12100.  C        .       I.WEM    .        .        .        .        .        .        .        L
       12150.  C        .       I.WEM    .        .        .        .        .        .        .        L
       12200.  C        .       I. EM    .        .        .        .        .        .        .        L
       12250.  C        .       I. EM    .        .        .        .        .        .        .        L
       12300.  C        .       I. EM    .        .        .        .        .        .        .        L
       12350.  C        .        I EM    .        .        .        .        .        .        .        L
       12400.  C        .        I EM    .        .        .        .        .        .        .        L
26.92  12450.  C        .        I EM    .        .        .        .        .        .        .        L
       12500.  C        .        I EM    .        .        .        .        .        .        .        L
       12550.  C        .        I EM    .        .        .        .        .        .        .        L
       12600.  C        .        I EM    .        .        .        .        .        .        .        L
       12650.  C        .        I EM    .        .        .        .        .        .        .        L
       12700.  C        .        I WE    .        .        .        .        .        .        .        L
       12750.  C        .        I WE    .        .        .        .        .        .        .        L
       12800.  C        .        I WE    .        .        .        .        .        .        .        L
27.01  12850.  C        .        I  EM   .        .        .        .        .        .        .        L
       12900.  C        .        I  EM   .        .        .        .        .        .        .        L
       12950.  C        .        I  EM   .        .        .        .        .        .        .        L
       13000.  C        .        I  EM   .        .        .        .        .        .        .        L
       13050.  C        .        I  EM   .        .        .        .        .        .        .        L
       13100.  C        .        I  EM   .        .        .        .        .        .        .        L
       13150.  C        .        .I ER   .        .        .        .        .        .        .        L
       13200.  C        .        .I ER   .        .        .        .        .        .        .        L
       13250.  C        .        .I ER   .        .        .        .        .        .        .        L
       13300.  C        .        .I WEM  .        .        .        .        .        .        .        L
27.11  13350.  C        .        .I WEM  .        .        .        .        .        .        .        L
       13400.  C        .        .I WEM  .        .        .        .        .        .        .        L
       13450.  C        .        .I WEM  .        .        .        .        .        .        .        L
       13500.  C        .        .I  EM  .        .        .        .        .        .        .        L
       13550.  C        .        . I EM  .        .        .        .        .        .        .        L
       13600.  C        .        . I ER  .        .        .        .        .        .        .        L
       13650.  C        .        . I ERM .        .        .        .        .        .        .        L
27.17  13700.  C        .        . I ERM .        .        .        .        .        .        .        L
       13750.  C        .        . I ERM .        .        .        .        .        .        .        L
       13800.  C        .        . I ERM .        .        .        .        .        .        .        L
       13850.  C        .        . I WEM .        .        .        .        .        .        .        L
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       13900.  C        .        . I WEM   .        .        .        .        .        .        .        L
       13950.  C        .        . I WEM   .        .        .        .        .        .        .        L
27.23  14000.  .        .        .  IWEM   .        .        .        .        .        .        .        L
       14050.  .        .        .  I EM   .        .        .        .        .        .        .        L
       14100.  .        .        .  I ER   .        .        .        .        .        .        .        L
       14150.  .        .        .  I WE   .        .        .        .        .        .        .        L
27.26  14200.  .        .        .  I  E   .        .        .        .        .        .        .        L
       14250.  .        .        .  I  EM  .        .        .        .        .        .        .        L
       14300.  .        .        .  I  EM  .        .        .        .        .        .        .        L
       14350.  .        .        .  I  EM  .        .        .        .        .        .        .        L
       14400.  .        .        .  I  WE  .        .        .        .        .        .        .        L
       14450.  .        .        .   I WE  .        .        .        .        .        .        .        L
27.32  14500.  .        .        .   I WE  .        .        .        .        .        .        .        .
       14550.  C        .        .   I WE  .        .        .        .        .        .        .        L
       14600.  C        .        .   I  E  .        .        .        .        .        .        .        L
       14650.  C        .        .   I  E  .        .        .        .        .        .        .        L
27.37  14700.  C        .        .   I  EM .        .        .        .        .        .        .        L
       14750.  C        .        .   I  EM .        .        .        .        .        .        .        L
       14800.  C        .        .   I  EM .        .        .        .        .        .        .        L
       14850.  C        .        .   I  EM .        .        .        .        .        .        .        L
       14900.  C        .        .   I  EM .        .        .        .        .        .        .        L
       14950.  .C       .        .    I WE .        .        .        .        .        .        .        L
27.42  15000.  .        .        .    I WE .        .        .        .        .        .        .        L
       15050.  C        .        .    I WE .        .        .        .        .        .        .        L
       15100.  C        .        .    I WEM.        .        .        .        .        .        .        L
       15150.  C        .        .    I  EM.        .        .        .        .        .        .        L
       15200.  C        .        .    I  EM.        .        .        .        .        .        .        L
       15250.  C        .        .    I  E M        .        .        .        .        .        .        L
       15300.  C        .        .    I  WEM        .        .        .        .        .        .        L
       15350.  C        .        .    I  WEM        .        .        .        .        .        .        L
       15400.  C        .        .    I  WE.M       .        .        .        .        .        .        L
27.50  15450.  C        .        .    I  RE.M       .        .        .        .        .        .        L
       15500.  C        .        .    I  RE.M       .        .        .        .        .        .        L
       15550.  C        .        .     I RE.M       .        .        .        .        .        .        L
       15600.  C        .        .     I RE.M       .        .        .        .        .        .        L
       15650.  C        .        .     I RE. M      .        .        .        .        .        .        L
       15700.  C        .        .     I RE. M      .        .        .        .        .        .        L
       15750.  C        .        .     I RE. M      .        .        .        .        .        .        L
       15800.  C        .        .     I RWE M      .        .        .        .        .        .        L
       15850.  C        .        .     I RWE M      .        .        .        .        .        .        L
       15900.  C        .        .     I  WE M      .        .        .        .        .        .        L
       15950.  C        .        .     I  WE M      .        .        .        .        .        .        L
27.60  16000.  C        .        .     I  WE M      .        .        .        .        .        .        L
       16050.  C        .        .     I  RE M      .        .        .        .        .        .        L
       16100.  C        .        .      I RE M      .        .        .        .        .        .        L
       16150.  C        .        .      I RE  M     .        .        .        .        .        .        L
       16200.  C        .        .      I RE  M     .        .        .        .        .        .        L
       16250.  C        .        .      I RE  M     .        .        .        .        .        .        L
       16300.  C        .        .      I RWE M     .        .        .        .        .        .        L
       16350.  C        .        .      I  WE M     .        .        .        .        .        .        L
       16400.  C        .        .      I  WE M     .        .        .        .        .        .        L
27.69  16450.  .        .        .      I  WE M     .        .        .        .        .        .        L
       16500.  C        .        .      I  RE M     .        .        .        .        .        .        L
       16550.  C        .        .      I  RE M     .        .        .        .        .        .        L
       16600.  C        .        .      I  RE M     .        .        .        .        .        .        L
       16650.  C        .        .      I  RE M     .        .        .        .        .        .        L
       16700.  C        .        .      I  RE M     .        .        .        .        .        .        L
       16750.  C        .        .      I  RWEM     .        .        .        .        .        .        L
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       16800.  C        .        .      I  RWEM      .        .        .        .        .        .        L
       16850.  C        .        .      I  .WEM      .        .        .        .        .        .        L
       16900.  C        .        .       I .REM      .        .        .        .        .        .        L
       16950.  C        .        .       I .REM      .        .        .        .        .        .        L
27.80  17000.  C        .        .       I .REM      .        .        .        .        .        .        L
       17050.  C        .        .       I .REM      .        .        .        .        .        .        L
       17100.  C        .        .       I .REM      .        .        .        .        .        .        L
       17150.  C        .        .       I .REM      .        .        .        .        .        .        L
       17200.  C        .        .       I .REM      .        .        .        .        .        .        L
       17250.  C        .        .       I .REM      .        .        .        .        .        .        L
       17300.  C        .        .       I .REM      .        .        .        .        .        .        L
       17350.  C        .        .       I . EM      .        .        .        .        .        .        L
       17400.  C        .        .       I . WE      .        .        .        .        .        .        L
       17450.  C        .        .       I . WE      .        .        .        .        .        .        L
       17500.  C        .        .       I . WE      .        .        .        .        .        .        L
       17550.  C        .        .       I . WE      .        .        .        .        .        .        L
27.91  17600.  C        .        .       I . WE      .        .        .        .        .        .        L
       17650.  C        .        .       I . WE      .        .        .        .        .        .        L
       17700.  C        .        .        I. RE      .        .        .        .        .        .        L
       17750.  C        .        .        I. RE      .        .        .        .        .        .        L
       17800.  C        .        .        I. RE      .        .        .        .        .        .        L
       17850.  C        .        .        I. RE      .        .        .        .        .        .        L
       17900.  C        .        .        I. RE      .        .        .        .        .        .        L
       17950.  C        .        .        I. RE      .        .        .        .        .        .        L
       18000.  C        .        .         I RE      .        .        .        .        .        .        L
       18050.  C        .        .         I RE      .        .        .        .        .        .        L
       18100.  C        .        .         I RWE     .        .        .        .        .        .        L
       18150.  C        .        .         I RWE     .        .        .        .        .        .        L
28.02  18200.  C        .        .         I LWE     .        .        .        .        .        .        .
       18250.  C        .        .         I LWE     .        .        .        .        .        .        .
       18300.  C        .        .         .ILWE     .        .        .        .        .        .        .
       18350.  C        .        .         .ILREM    .        .        .        .        .        .        .
       18400.  C        .        .         .I LEM    .        .        .        .        .        .        .
       18450.  C        .        .         .I LE M   .        .        .        .        .        .        .
       18500.  C        .        .         .I LE M   .        .        .        .        .        .        .
28.09  18550.  C        .        .         . ILE M   .        .        .        .        .        .        .
       18600.  C        .        .         . ILE  M  .        .        .        .        .        .        .
       18650.  C        .        .         . ILE  M  .        .        .        .        .        .        .
       18700.  C        .        .         . ILWE M  .        .        .        .        .        .        .
       18750.  C        .        .         . ILWE M  .        .        .        .        .        .        .
       18800.  C        .        .         . ILWE M  .        .        .        .        .        .        .
       18850.  C        .        .         . ILWE M  .        .        .        .        .        .        .
28.16  18900.  .        .        .         . ILWE M  .        .        .        .        .        .        .
       18950.  .        .        .         . ILRE M  .        .        .        .        .        .        .
       19000.  .        .        .         . I LE M  .        .        .        .        .        .        .
       19050.  .        .        .         .  ILE M  .        .        .        .        .        .        .
       19100.  .        .        .         .  ILE M  .        .        .        .        .        .        .
       19150.  .        .        .         .  ILWEM  .        .        .        .        .        .        .
       19200.  .        .        .         .  ILWEM  .        .        .        .        .        .        .
       19250.  .        .        .         .  ILWEM  .        .        .        .        .        .        .
       19300.  .        .        .         .  ILWEM  .        .        .        .        .        .        .
28.24  19350.  .        .        .         .   IWE M .        .        .        .        .        .        .
       19400.  .        .        .         .   IRE M .        .        .        .        .        .        L
       19450.  .        .        .         .   IRE M .        .        .        .        .        .        L
       19500.  .        .        .         .   IRE M .        .        .        .        .        .        L
       19550.  .        .        .         .   IRE M .        .        .        .        .        .        L
       19600.  .        .        .         .   I E  M.        .        .        .        .        .        L
       19650.  .        .        .         .   I WE M.        .        .        .        .        .        L
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       19700.  .         .         .         .  I WE M.        .         .         .         .         .         L
       19750.  .         .         .         .  I WE M.        .         .         .         .         .         L
28.33  19800.  .         .         .         .  I WE  M        .         .         .         .         .         L
       19850.  C         .         .         .  I WE  M        .         .         .         .         .         L
       19900.  C         .         .         .  I RE  M        .         .         .         .         .         L
       19950.  C         .         .         .  I RE  M        .         .         .         .         .         L
       20000.  C         .         .         .  I RE  M        .         .         .         .         .         L
       20050.  C         .         .         .  I RE  M        .         .         .         .         .         L
       20100.  C         .         .         .  I RE  M        .         .         .         .         .         L
28.39  20150.  C         .         .         .  I RE  M        .         .         .         .         .         L
       20200.  C         .         .         .  I RWE M        .         .         .         .         .         L
       20250.  C         .         .         .  I RWE M        .         .         .         .         .         L
       20300.  C         .         .         .  I RWE M        .         .         .         .         .         L
       20350.  C         .         .         .  I R E M        .         .         .         .         .         L
       20400.  C         .         .         .  I  RE M        .         .         .         .         .         L
       20450.  C         .         .         .  I  RE M        .         .         .         .         .         L
28.46  20500.  C         .         .         .   I RE M        .         .         .         .         .         L
       20550.  C         .         .         .   I RE M        .         .         .         .         .         L
       20600.  C         .         .         .   I RE .M       .         .         .         .         .         L
       20650.  C         .         .         .   I RE .M       .         .         .         .         .         L
       20700.  C         .         .         .   I RE .M       .         .         .         .         .         L
       20750.  C         .         .         .   I RWE.M       .         .         .         .         .         L
       20800.  C         .         .         .   I RWE.M       .         .         .         .         .         L
       20850.  C         .         .         .   I RWE.M       .         .         .         .         .         L
       20900.  C         .         .         .   I RWE.M       .         .         .         .         .         L
       20950.  C         .         .         .   I  WE. M      .         .         .         .         .         L
28.56  21000.  C         .         .         .   I  WE. M      .         .         .         .         .         L
       21050.  C         .         .         .    I RE. M      .         .         .         .         .         L
       21100.  C         .         .         .    I RE. M      .         .         .         .         .         L
       21150.  C         .         .         .    I RE. M      .         .         .         .         .         L
       21200.  C         .         .         .    I RE. M      .         .         .         .         .         L
       21250.  C         .         .         .    I RE. M      .         .         .         .         .         L
       21300.  C         .         .         .    I RE. M      .         .         .         .         .         L
       21350.  C         .         .         .    I RWE M      .         .         .         .         .         L
       21400.  C         .         .         .    I  WE M      .         .         .         .         .         L
       21450.  C         .         .         .    I  WE  M     .         .         .         .         .         L
       21500.  C         .         .         .    I  RE  M     .         .         .         .         .         L
28.66  21550.  C         .         .         .    I  RE  M     .         .         .         .         .         L
       21600.  C         .         .         .    I  RE  M     .         .         .         .         .         L
       21650.  C         .         .         .    I  RE  M     .         .         .         .         .         L
       21700.  C         .         .         .    I  RE  M     .         .         .         .         .         L
       21750.  C         .         .         .    I  RE  M     .         .         .         .         .         L
       21800.  C         .         .         .    I  RE  M     .         .         .         .         .         L
       21850.  C         .         .         .     I RE  M     .         .         .         .         .         L
       21900.  C         .         .         .     I RE  M     .         .         .         .         .         L
       21950.  C         .         .         .     I RE  M     .         .         .         .         .         L
       22000.  C         .         .         .     I RWE M     .         .         .         .         .         L
28.75  22050.  C         .         .         .     I  WE M     .         .         .         .         .         L
       22100.  C         .         .         .     I  WE M     .         .         .         .         .         L
       22150.  C         .         .         .     I  WE M     .         .         .         .         .         L
       22200.  C         .         .         .     I  RE M     .         .         .         .         .         L
       22250.  C         .         .         .      I RE M     .         .         .         .         .         L
       22300.  C         .         .         .      I RE M     .         .         .         .         .         L
       22350.  C         .         .         .      I RE M     .         .         .         .         .         L
       22400.  C         .         .         .      I RE M     .         .         .         .         .         L
       22450.  C         .         .         .      I RE M     .         .         .         .         .         L
       22500.  C         .         .         .      I RE M     .         .         .         .         .         L
28.85  22550.  C         .         .         .      I RE M     .         .         .         .         .         L
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       22600.  C         .         .         .       I RE  M     .         .         .         .         .         L
       22650.  C         .         .         .       I RE  M     .         .         .         .         .         L
       22700.  C         .         .         .       I RWE M     .         .         .         .         .         L
       22750.  C         .         .         .       I RWE M     .         .         .         .         .         L
       22800.  C         .         .         .       I RWE M     .         .         .         .         .         L
       22850.  C         .         .         .       I .WE M     .         .         .         .         .         L
       22900.  C         .         .         .        I.WE  M    .         .         .         .         .         L
       22950.  C         .         .         .        I.RE  M    .         .         .         .         .         L
28.93  23000.  C         .         .         .        I.RE  M    .         .         .         .         .         L
       23050.  C         .         .         .        I.RE  M    .         .         .         .         .         L
       23100.  C         .         .         .        I.RE  M    .         .         .         .         .         L
       23150.  C         .         .         .        I.RE   M   .         .         .         .         .         L
       23200.  C         .         .         .        I.RE   M   .         .         .         .         .         L
       23250.  C         .         .         .        I.RE   M   .         .         .         .         .         L
       23300.  C         .         .         .        I.RE   M   .         .         .         .         .         L
       23350.  C         .         .         .        I.RWE  M   .         .         .         .         .         L
29.01  23400.  .         .         .         .        I.RWE   M  .         .         .         .         .         L
       23450.  .         .C        .         .        I.RWE   M  .         .         .         .         .         L
       23500.  C         .         .         .        I.RWE   M  .         .         .         .         .         L
       23550.  C         .         .         .        I.RWE   M  .         .         .         .         .         L
       23600.  C         .         .         .        I. WE   M  .         .         .         .         .         L
       23650.  C         .         .         .         I RE   M  .         .         .         .         .         L
       23700.  C         .         .         .         I RE   M  .         .         .         .         .         L
       23750.  C         .         .         .         I RE   M  .         .         .         .         .         L
       23800.  C         .         .         .         I RE   M  .         .         .         .         .         L
       23850.  C         .         .         .         I RE    M .         .         .         .         .         L
       23900.  C         .         .         .         I RE    M .         .         .         .         .         L
       23950.  C         .         .         .         I RE    M .         .         .         .         .         L
29.13  24000.  C         .         .         .         I  E    M .         .         .         .         .         L
       24050.  C         .         .         .         I  WE   M .         .         .         .         .         L
       24100.  C         .         .         .         I  WE   M .         .         .         .         .         L
       24150.  C         .         .         .         I  WE   M .         .         .         .         .         L
       24200.  C         .         .         .         I  WE    M.         .         .         .         .         L
       24250.  C         .         .         .         I  WE    M.         .         .         .         .         L
       24300.  C         .         .         .         I  RE    M.         .         .         .         .         L
       24350.  C         .         .         .         .I RE    M.         .         .         .         .         L
       24400.  C         .         .         .         .I  E    M.         .         .         .         .         L
       24450.  C         .         .         .         .I  E    M.         .         .         .         .         L
       24500.  C         .         .         .         .I  E     M         .         .         .         .         L
       24550.  C         .         .         .         .I  E     M         .         .         .         .         L
       24600.  C         .         .         .         .I  WE    M         .         .         .         .         L
       24650.  C         .         .         .         .I  WE    M         .         .         .         .         L
29.26  24700.  C         .         .         .         .I  WE    M         .         .         .         .         L
       24750.  C         .         .         .         .I  WE    M         .         .         .         .         L
       24800.  C         .         .         .         . I WE    M         .         .         .         .         L
       24850.  C         .         .         .         . I  E    M         .         .         .         .         L
       24900.  C         .         .         .         . I  E    M         .         .         .         .         L
       24950.  C         .         .         .         . I  E    .M        .         .         .         .         L
       25000.  C         .         .         .         . I  E    .M        .         .         .         .         L
       25050.  C         .         .         .         . I  E    .M        .         .         .         .         L
       25100.  C         .         .         .         .  I E    .M        .         .         .         .         L
       25150.  C         .         .         .         .  I E    .M        .         .         .         .         L
29.35  25200.  C         .         .         .         .  I E    .M        .         .         .         .         L
       25250.  C         .         .         .         .  I WE   .M        .         .         .         .         L
       25300.  C         .         .         .         .  I WE   .M        .         .         .         .         L
       25350.  C         .         .         .         .  I  E   .M        .         .         .         .         L
29.39  25400.  C         .         .         .         .  I  E   .M        .         .         .         .         L
       25450.  C         .         .         .         .  I  E   .M        .         .         .         .         L
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       25500.  C          .         .         .         .  I E   .M        .         .         .         .         L
       25550.  C          .         .         .         .  I E   .M        .         .         .         .         L
       25600.  C          .         .         .         .  I E   M         .         .         .         .         L
       25650.  C          .         .         .         .  I E   M         .         .         .         .         L
       25700.  C          .         .         .         .  I E   M         .         .         .         .         L
       25750.  C          .         .         .         .  I E  M.         .         .         .         .         L
       25800.  C          .         .         .         .  I E  M.         .         .         .         .         L
       25850.  C          .         .         .         .  I E  M.         .         .         .         .         L
       25900.  C          .         .         .         .  I E  M.         .         .         .         .         L
29.49  25950.  C          .         .         .         .  I E M .         .         .         .         .         L
       26000.  C          .         .         .         .  I WE M.         .         .         .         .         L
       26050.  C          .         .         .         .  I WE M.         .         .         .         .         L
       26100.  C          .         .         .         .  IWE  M          .         .         .         .         L
       26150.  C          .         .         .         .  I E  M          .         .         .         .         L
29.54  26200.  C          .         .         .         .  I E  M          .         .         .         .         L
       26250.  C          .         .         .         .  I E  M          .         .         .         .         L
       26300.  C          .         .         .         .  I E  M          .         .         .         .         L
       26350.  C          .         .         .         .  I E M.          .         .         .         .         L
       26400.  C          .         .         .         .  I WEM.          .         .         .         .         L
       26450.  C          .         .         .         .  I WEM.          .         .         .         .         L
       26500.  C          .         .         .         .   I EM.          .         .         .         .         L
29.60  26550.  C          .         .         .         .   I E .          .         .         .         .         L
       26600.  C          .         .         .         .   I EM.          .         .         .         .         L
       26650.  C          .         .         .         .   I EM.          .         .         .         .         L
       26700.  C          .         .         .         .   I E M          .         .         .         .         L
       26750.  C          .         .         .         .   I WEM          .         .         .         .         L
       26800.  C          .         .         .         .   I WE.M         .         .         .         .         L
29.66  26850.  C          .         .         .         .   I  E. M        .         .         .         .         L
       26900.  C          .         .         .         .   I  E.M         .         .         .         .         L
       26950.  C          .         .         .         .   I  E.M         .         .         .         .         L
       27000.  C          .         .         .         .   I  E.M         .         .         .         .         L
       27050.  C          .         .         .         .   I  E.M         .         .         .         .         L
       27100.  C          .         .         .         .   I  E.M         .         .         .         .         L
29.71  27150.  C          .         .         .         .    I E.M         .         .         .         .         L
29.72  27200.  C          .         .         .         .    I WEL         .         .         .         .         .
       27250.  C          .         .         .         .    I WERL        .         .         .         .         .
       27300.  C          .         .         .         .    I WEML        .         .         .         .         .
       27350.  C          .         .         .         .    I WE  L       .         .         .         .         .
29.77  27400.  C          .         .         .         .    I WE   L      .         .         .         .         .
       27450.  C          .         .         .         .    I WEM L       .         .         .         .         .
       27500.  C          .         .         .         .    I WE L        .         .         .         .         .
       27550.  C          .         .         .         .    I WELM        .         .         .         .         .
       27600.  C          .         .         .         .    I REL M       .         .         .         .         .
       27650.  C          .         .         .         .    IR E   M      .         .         .         .         .
       27700.  C          .         .         .         .    IRLE   M      .         .         .         .         .
       27750.  .  C       .         .         .         .    IL E    M     .         .         .         .         .
29.85  27800.  .          .         .         .         .    IL WE   M     .         .         .         .         .
       27850.  .          .         .         .   C     .    IL WE   M     .         .         .         .         .
       27900.  .          .         .C        .         .    IL WE   M     .         .         .         .         .
       27950.  .       C  .         .         .         .    IL WE   M     .         .         .         .         .
       28000.  C          .         .         .         .    IL WE   M     .         .         .         .         .
       28050.  C          .         .         .         .     I WE   M     .         .         .         .         .
       28100.  C          .         .         .         .     I WE   M     .         .         .         .         .
       28150.  C          .         .         .         .     I WE   M     .         .         .         .         .
       28200.  C          .         .         .         .     I WE   M     .         .         .         .         .
       28250.  C          .         .         .         .     I .E   M     .         .         .         .         .
       28300.  C          .         .         .         .     IL.E   M     .         .         .         .         .
       28350.  C          .         .         .         .     IL.E   M     .         .         .         .         .
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       28400.  C         .         .         .         .         IL.E   M    .         .         .         .         .
       28450.  C         .         .         .         .         IL.E   M    .         .         .         .         .
       28500.  C         .         .         .         .         IL.E   M    .         .         .         .         .
       28550.  C         .         .         .         .         IL.E   M    .         .         .         .         .
       28600.  C         .         .         .         .         IL.E   M    .         .         .         .         .
       28650.  C         .         .         .         .         IL.E   M    .         .         .         .         .
       28700.  C         .         .         .         .         IL.WE  M    .         .         .         .         .
       28750.  C         .         .         .         .          I.WE  M    .         .         .         .         .
       28800.  C         .         .         .         .          ILWE  M    .         .         .         .         .
       28850.  C         .         .         .         .          ILWE  M    .         .         .         .         .
       28900.  C         .         .         .         .          ILWE  M    .         .         .         .         .
       28950.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29000.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29050.  C         .         .         .         .          IL E  M    .         .         .         .         .
30.10  29100.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29150.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29200.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29250.  C         .         .         .         .           I E  M    .         .         .         .         .
       29300.  C         .         .         .         .           I E  M    .         .         .         .         .
       29350.  C         .         .         .         .          ILWE M     .         .         .         .         .
       29400.  C         .         .         .         .          ILWE M     .         .         .         .         .
       29450.  C         .         .         .         .          ILWE M     .         .         .         .         .
       29500.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29550.  C         .         .         .         .          IL E  M    .         .         .         .         .
       29600.  .         .         .         C         .         .I E  M     .         .         .         .         .
30.20  29650.  .         .         .         .         .         .I E  M     .         .         .         .         .
       29700.  .         .         .         .         .         .I E  M     .         .         .         .         .
       29750.  .         .         .         .         .         .I WE M     .         .         .         .         .
       29800.  .         .         .         .         .         .I WE M     .         .         .         .         .
       29850.  .         .         .         .         .         .I WE M     .         .         .         .         .
       29900.  .         .         .         .         .         .IL E M     .         .         .         .         .
       29950.  .         .         .         .         .         .IL E M     .         .         .         .         .
       30000.  .         .         .         .         .         .IL E M     .         .         .         .         .
       30050.  .         .         .         .         .         .IL E M     .         .         .         .         .
30.28  30100.  .         .         .         .         .         .IL WEM     .         .         .         .         .
       30150.  .         .         .         C         .         .IL WEM     .         .         .         .         .
       30200.  .C        .         .         .         .         .IL WEM     .         .         .         .         .
       30250.  C         .         .         .         .         .IL WEM     .         .         .         .         .
       30300.  C         .         .         .         .         . I WEM     .         .         .         .         .
       30350.  C         .         .         .         .         . ILWEM     .         .         .         .         .
       30400.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30450.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30500.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30550.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30600.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30650.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30700.  C         .         .         .         .         . IL E M    .         .         .         .         .
       30750.  C         .         .         .         .         .  ILE  M   .         .         .         .         .
30.42  30800.  C         .         .         .         .         .  ILE  M   .         .         .         .         .
       30850.  C         .         .         .         .         .  ILWE M   .         .         .         .         .
       30900.  C         .         .         .         .         .  ILWE M   .         .         .         .         .
       30950.  C         .         .         .         .         .  ILWE M   .         .         .         .         .
       31000.  C         .         .         .         .         .  IL E M   .         .         .         .         .
       31050.  C         .         .         .         .         .  IL E M   .         .         .         .         .
       31100.  C         .         .         .         .         .   I E M   .         .         .         .         .
       31150.  C         .         .         .         .         .   I E M   .         .         .         .         .
       31200.  C         .         .         .         .         .   I E M   .         .         .         .         .
       31250.  C         .         .         .         .         .   I E M   .         .         .         .         .
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      31300.  .        .   C   .        .        .        .  I E M .        .        .        .        .
30.52 31350.  .        .       .        .        .        .  I WE M.        .        .        .        .
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THIS RUN EXECUTED 18JUN97 02:15:53

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HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	24.525	.00	.00	.00	1622.00	38200.00	1633.13	1627.94	1633.23	30.04	2.80	15466.20	6969.18
	24.525	.00	.00	.00	1622.00	38200.00	1633.13	.00	1633.23	30.04	2.80	15466.20	6969.18
*	24.646	640.00	.00	.00	1626.00	38200.00	1636.13	1634.53	1636.48	81.00	4.24	8569.80	4244.37
*	24.646	640.00	.00	.00	1626.00	38200.00	1636.13	.00	1636.48	81.00	4.24	8569.80	4244.37
	24.752	560.00	.00	.00	1629.20	38200.00	1639.89	1639.52	1641.45	88.38	15.48	5348.44	4063.30
	24.752	560.00	.00	.00	1629.20	38200.00	1639.89	.00	1641.45	88.38	15.48	5348.44	4063.30
	24.845	490.00	.00	.00	1635.30	38200.00	1645.92	1644.37	1646.54	118.27	10.01	7430.86	3512.60
	24.845	490.00	.00	.00	1635.30	38200.00	1645.92	.00	1646.54	118.25	10.01	7431.27	3512.85
*	24.919	390.00	.00	.00	1634.90	38200.00	1648.73	1645.79	1649.31	53.15	9.35	8916.71	5239.91
*	24.919	390.00	.00	.00	1634.90	38200.00	1648.73	.00	1649.31	53.15	9.35	8916.28	5239.61
	25.010	480.00	.00	.00	1640.20	38200.00	1650.88	1648.01	1651.46	34.56	7.12	7254.61	6497.82
	25.010	480.00	.00	.00	1640.20	38200.00	1650.88	.00	1651.46	34.57	7.12	7254.27	6497.44
*	25.099	470.00	.00	.00	1646.00	38200.00	1656.67	1656.67	1658.82	56.17	18.83	7890.86	5097.12
*	25.099	470.00	.00	.00	1646.00	38200.00	1656.67	1656.67	1658.82	56.17	18.83	7890.86	5097.12
	25.180	430.00	.00	.00	1647.70	38200.00	1659.91	1658.95	1661.24	48.59	12.96	8146.31	5480.22
	25.180	430.00	.00	.00	1647.70	38200.00	1659.91	.00	1661.24	48.59	12.96	8146.31	5480.22
	25.233	280.00	.00	.00	1647.30	38200.00	1661.80	1661.06	1662.75	68.29	12.40	8323.65	4622.61
	25.233	280.00	.00	.00	1647.30	38200.00	1661.76	.00	1662.78	71.89	12.70	7994.82	4505.47
*	25.326	510.00	.00	.00	1653.00	36800.00	1665.34	1665.34	1667.42	88.28	15.33	6195.77	3916.68
*	25.326	510.00	.00	.00	1653.00	36800.00	1665.86	1665.86	1668.14	83.47	15.47	5661.87	4027.89
*	25.388	360.00	.00	.00	1656.60	36800.00	1669.17	1669.17	1671.19	99.74	15.89	6493.88	3684.74
*	25.388	360.00	.00	.00	1656.60	36800.00	1669.99	1669.99	1672.39	96.67	16.36	5762.23	3742.90

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	25.458	360.00	.00	.00	1660.50	36800.00	1673.33	1670.37	1673.67	41.44	4.43	8221.37	5716.31
*	25.458	360.00	.00	.00	1660.50	36800.00	1674.35	.00	1674.71	36.54	4.54	8169.33	6087.51
	25.519	310.00	.00	.00	1661.60	36800.00	1674.75	1673.24	1675.40	53.71	8.99	6610.64	5021.24
	25.519	310.00	.00	.00	1661.60	36800.00	1675.62	.00	1676.43	53.45	9.89	5998.88	5033.58
	25.580	300.00	.00	.00	1665.90	36800.00	1676.35	1675.03	1677.04	54.17	5.96	5568.57	5000.16
	25.580	300.00	.00	.00	1665.90	36800.00	1677.05	.00	1678.00	47.64	6.01	4981.73	5331.50
*	25.644	320.00	.00	.00	1668.70	36800.00	1678.52	1678.52	1679.89	98.35	12.45	4403.17	3710.67
*	25.644	320.00	.00	.00	1668.70	36800.00	1679.05	1679.05	1680.55	83.65	12.01	3907.47	4023.56
*	25.699	290.00	.00	.00	1669.40	36800.00	1682.46	1682.46	1684.34	24.47	14.04	6603.86	7439.70
*	25.699	290.00	.00	.00	1669.40	36800.00	1682.90	1682.90	1684.74	21.92	13.65	5789.02	7859.44
	25.750	280.00	.00	.00	1671.60	36800.00	1684.90	1682.62	1685.36	41.89	4.79	7462.06	5686.04
	25.750	280.00	.00	.00	1671.60	36800.00	1685.05	.00	1685.70	44.04	4.96	6630.72	5545.53
	25.843	370.00	.00	.00	1673.50	36800.00	1685.95	1685.29	1686.87	56.34	9.43	5038.00	4902.74
	25.843	370.00	.00	.00	1673.50	36800.00	1686.21	.00	1687.17	52.83	9.22	4903.41	5063.15
*	25.919	400.00	.00	.00	1678.40	36800.00	1689.02	1689.02	1690.49	108.31	11.39	3940.24	3536.05
*	25.919	400.00	.00	.00	1678.40	36800.00	1689.64	1689.64	1691.16	125.51	12.71	4103.83	3284.81
*	26.044	650.00	.00	.00	1684.30	36800.00	1695.28	1695.28	1697.10	78.80	16.39	7478.00	4145.54
*	26.044	650.00	.00	.00	1684.30	36800.00	1696.24	1696.24	1698.31	65.71	16.35	6525.16	4539.81
*	26.137	495.00	.00	.00	1685.70	36800.00	1698.90	1697.60	1699.68	36.11	12.20	7404.59	6123.75
	26.137	495.00	.00	.00	1685.70	36800.00	1699.67	.00	1700.72	36.11	12.74	5665.56	6123.88
*	26.239	420.00	.00	.00	1692.80	36800.00	1701.16	1700.76	1702.06	153.12	9.95	4981.72	2973.92
*	26.239	420.00	.00	.00	1692.80	36800.00	1702.03	1702.03	1703.61	121.94	10.11	3638.92	3332.48
*	26.335	500.00	.00	.00	1695.60	36800.00	1705.64	1702.96	1706.18	49.07	6.41	7089.45	5253.44
*	26.335	500.00	.00	.00	1695.60	36800.00	1706.56	.00	1707.17	43.27	6.49	6286.20	5594.66
	26.430	495.00	.00	.00	1697.50	36800.00	1707.78	1706.58	1709.35	67.99	10.42	4035.52	4462.95
	26.430	495.00	.00	.00	1697.50	36800.00	1708.35	.00	1709.95	58.79	10.21	3734.79	4799.40
*	26.529	520.00	.00	.00	1702.60	36800.00	1711.54	1711.54	1714.46	60.16	14.17	3088.39	4744.54
*	26.529	520.00	.00	.00	1702.60	36800.00	1711.66	1711.66	1715.09	64.81	14.86	2476.54	4571.24
	26.623	500.00	.00	.00	1703.90	36800.00	1716.40	1713.24	1717.36	48.33	8.15	5103.31	5293.43
	26.623	500.00	.00	.00	1703.90	36800.00	1716.97	.00	1718.04	46.23	8.29	4436.88	5412.54
*	26.695	380.00	.00	.00	1709.50	36800.00	1720.60	1720,60	1722.93	67.78	13.92	3249.42	4469.90
*	26.695	380.00	.00	.00	1709.50	36800.00	1721.19	1721.19	1723.95	66.26	13.77	2812.10	4521.01
*	26.775	420.00	.00	.00	1712.70	36800.00	1723.99	1723.99	1727.14	51.05	14.86	3276.38	5150.40
*	26.775	420.00	.00	.00	1712.70	36800.00	1724.09	1724.09	1727.61	53.64	15.36	2790.88	5024.82

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	26.845	370.00	.00	.00	1717.00	36800.00	1727.72	1726.42	1729.36	60.19	10.75	3675.45	4743.47
	26.845	370.00	.00	.00	1717.00	36800.00	1728.23	.00	1729.71	48.56	10.03	3793.34	5281.11
	26.921	430.00	.00	.00	1720.20	33800.00	1731.00	1729.09	1732.59	99.93	10.20	3493.53	3381.12
*	26.921	430.00	.00	.00	1720.20	33800.00	1731.14	.00	1732.75	115.32	10.20	3315.04	3147.51
	27.008	400.00	.00	.00	1723.00	33800.00	1734.50	1731.51	1735.63	58.20	8.57	4137.90	4430.70
*	27.008	400.00	.00	.00	1723.00	33800.00	1734.75	.00	1735.84	53.88	8.40	4078.72	4604.55
*	27.106	520.00	.00	.00	1725.70	33800.00	1738.47	1737.54	1740.27	137.55	10.89	3283.57	2881.90
*	27.106	520.00	.00	.00	1725.70	33800.00	1738.48	.00	1740.42	144.74	11.19	3021.85	2809.50
*	27.169	330.00	.00	.00	1732.10	33800.00	1741.54	1739.79	1742.85	49.04	9.42	3959.05	4826.60
*	27.169	330.00	.00	.00	1732.10	33800.00	1741.80	.00	1743.21	53.73	9.55	3545.25	4610.95
*	27.226	300.00	.00	.00	1734.80	33800.00	1743.08	1742.93	1745.45	133.69	12.78	2951.58	2923.23
*	27.226	300.00	.00	.00	1734.80	33800.00	1743.39	1743.16	1745.90	125.83	12.82	2759.20	3013.23
*	27.265	210.00	.00	.00	1735.70	33800.00	1749.27	1749.27	1750.66	81.60	11.46	4304.85	3741.67
*	27.265	210.00	.00	.00	1735.70	33800.00	1750.10	1750.10	1751.85	70.14	12.23	3968.92	4035.83
*	27.320	275.00	.00	.00	1740.30	33800.00	1752.39	1752.39	1754.67	58.14	14.30	4490.63	4432.71
*	27.320	275.00	.00	.00	1740.30	33800.00	1753.42	1753.42	1755.73	49.23	13.98	4763.82	4817.49
	27.366	240.00	.00	.00	1742.30	33800.00	1755.30	1751.96	1755.91	35.60	7.01	6513.36	5664.99
	27.366	240.00	.00	.00	1742.30	33800.00	1756.23	.00	1756.77	27.35	6.51	6693.56	6463.01
*	27.417	270.00	.00	.00	1744.80	33800.00	1757.21	1757.21	1759.34	205.12	12.98	3405.24	2359.99
*	27.417	270.00	.00	.00	1744.80	33800.00	1757.87	1757.87	1760.17	182.19	12.90	3015.72	2504.09
	27.502	450.00	.00	.00	1748.80	33800.00	1764.57	1764.55	1766.27	111.61	12.23	4262.18	3199.41
	27.502	450.00	.00	.00	1748.80	33800.00	1764.88	.00	1767.12	126.42	13.24	3233.44	3006.17
*	27.604	550.00	.00	.00	1754.20	33800.00	1768.51	1766.57	1770.60	51.28	12.02	3575.31	4720.15
*	27.604	550.00	.00	.00	1754.20	33800.00	1769.18	.00	1771.08	43.12	11.41	3494.43	5147.03
*	27.693	470.00	.00	.00	1756.30	33800.00	1774.29	1774.29	1776.00	320.31	12.04	3711.50	1888.56
*	27.693	470.00	.00	.00	1756.30	33800.00	1774.31	1774.31	1776.92	427.76	13.94	2782.59	1634.24
*	27.797	550.00	.00	.00	1760.60	33800.00	1779.81	1778.91	1781.01	41.77	10.61	6100.66	5229.99
*	27.797	550.00	.00	.00	1760.60	33800.00	1780.78	.00	1782.26	40.76	11.03	4460.58	5294.16
*	27.913	610.00	.00	.00	1763.10	33800.00	1783.23	1782.81	1784.62	87.54	10.54	4762.22	3612.65
*	27.913	610.00	.00	.00	1763.10	33800.00	1784.06	.00	1785.97	92.25	11.44	3282.43	3519.20
	28.023	580.00	.00	.00	1772.50	33800.00	1787.52	1786.44	1789.25	69.20	9.36	4268.07	4063.27
	28.023	580.00	.00	.00	1772.50	33800.00	1788.46	.00	1790.34	61.74	9.42	3343.41	4301.58
	28.091	360.00	.00	.00	1780.80	33800.00	1790.41	1789.99	1792.50	118.12	13.44	3644.15	3109.99
	28.091	360.00	.00	.00	1780.80	33800.00	1791.00	.00	1793.24	107.55	13.41	3008.16	3259.15

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	28.157	350.00	.00	.00	1782.60	33800.00	1794.06	1794.06	1796.04	50.07	14.67	4260.69	4776.82
*	28.157	350.00	.00	.00	1782.60	33800.00	1794.09	1794.09	1796.72	59.86	16.09	3002.73	4368.57
*	28.241	440.00	.00	.00	1789.90	33800.00	1799.07	1799.07	1801.29	45.56	13.07	4145.63	5007.73
*	28.241	440.00	.00	.00	1789.90	33800.00	1799.16	1799.16	1801.89	51.09	13.94	2986.82	4728.81
*	28.326	450.00	.00	.00	1791.30	33800.00	1803.41	1803.01	1804.89	159.80	11.34	4026.68	2673.77
*	28.326	450.00	.00	.00	1791.30	33800.00	1803.74	1803.74	1806.15	213.95	13.43	2955.36	2310.78
*	28.390	340.00	.00	.00	1792.80	33800.00	1807.39	1805.64	1808.13	60.83	6.70	4925.54	4333.55
*	28.390	340.00	.00	.00	1792.80	33800.00	1808.34	.00	1809.30	48.15	6.27	4448.56	4870.99
	28.462	380.00	.00	.00	1794.80	33800.00	1810.03	1809.26	1811.30	107.48	10.73	4692.21	3260.29
*	28.462	380.00	.00	.00	1794.80	33800.00	1810.61	.00	1812.17	114.26	11.39	3933.89	3162.07
*	28.555	490.00	.00	.00	1799.40	33800.00	1814.02	1814.02	1816.42	77.42	13.88	3527.82	3841.52
	28.555	490.00	.00	.00	1799.40	33800.00	1814.43	.00	1816.81	71.43	13.63	3296.51	3999.11
	28.657	540.00	.00	.00	1800.50	33800.00	1819.95	1816.91	1820.62	71.90	6.83	5174.39	3986.08
	28.657	540.00	.00	.00	1800.50	33800.00	1820.44	.00	1821.41	96.77	8.13	4294.97	3435.98
	28.750	490.00	.00	.00	1808.30	33800.00	1822.94	1821.00	1823.85	60.00	8.74	4893.23	4363.60
	28.750	490.00	.00	.00	1808.30	33800.00	1823.97	.00	1825.03	58.47	9.08	4501.06	4420.16
	28.847	510.00	.00	.00	1811.90	33800.00	1825.53	1825.20	1827.18	62.51	12.07	3963.25	4275.02
	28.847	510.00	.00	.00	1811.90	33800.00	1826.40	.00	1828.59	69.26	13.18	3539.40	4061.39
	28.934	460.00	.00	.00	1815.50	33800.00	1829.45	1828.90	1830.61	86.24	9.13	3921.81	3639.60
	28.934	460.00	.00	.00	1815.50	33800.00	1830.28	.00	1831.73	63.41	8.22	3603.87	4244.53
*	29.012	410.00	.00	.00	1818.70	33800.00	1832.94	1832.94	1835.25	41.96	14.10	3603.90	5218.05
*	29.012	410.00	.00	.00	1818.70	33800.00	1833.15	1833.15	1835.48	40.49	14.00	3386.80	5311.75
*	29.130	595.00	.00	.00	1821.00	33800.00	1836.92	1836.92	1839.25	119.47	12.74	2925.42	3092.29
*	29.130	595.00	.00	.00	1821.00	33800.00	1836.99	.00	1839.28	115.26	12.60	2917.13	3148.26
	29.258	705.00	.00	.00	1828.70	33800.00	1842.95	1841.24	1845.83	71.54	13.64	2504.01	3996.28
	29.258	705.00	.00	.00	1828.70	33800.00	1842.91	.00	1845.82	72.32	13.69	2492.11	3974.52
	29.351	490.00	.00	.00	1835.90	33800.00	1848.75	1844.92	1849.45	67.33	6.72	5089.38	4119.25
	29.351	490.00	.00	.00	1835.90	33800.00	1848.78	.00	1849.49	68.58	6.77	4990.15	4081.53
*	29.387	190.00	.00	.00	1838.80	33800.00	1849.60	1846.66	1850.25	28.05	6.43	5268.09	6382.11
	29.387	190.00	.00	.00	1838.80	33800.00	1849.98	.00	1850.68	57.55	6.75	5005.69	4455.35
*	29.493	560.00	.00	.00	1843.40	33800.00	1852.27	1851.71	1853.50	153.51	8.97	3856.61	2727.99
	29.493	560.00	.00	.00	1843.40	33800.00	1853.31	.00	1854.22	67.19	7.72	4524.61	4123.35
*	29.538	240.00	.00	.00	1845.50	33800.00	1854.96	1854.96	1857.03	97.82	11.55	2926.35	3417.46
*	29.538	240.00	.00	.00	1845.50	33800.00	1855.17	.00	1857.08	194.74	11.09	3046.44	2422.07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	29.601	330.00	.00	.00	1849.90	33800.00	1859.72	1859.27	1861.41	185.21	10.49	3266.63	2483.58
	29.601	330.00	.00	.00	1849.90	33800.00	1860.38	.00	1862.11	121.57	10.53	3208.55	3065.52
*	29.663	330.00	.00	.00	1850.90	33800.00	1864.50	1861.46	1865.36	80.71	7.77	4750.23	3762.24
	29.663	330.00	.00	.00	1850.90	33800.00	1864.54	.00	1866.25	129.93	10.51	3214.58	2965.22
	29.710	310.00	.00	.00	1855.00	33800.00	1865.57	1864.43	1868.30	65.53	13.26	2548.95	4175.36
*	29.710	310.00	.00	.00	1855.00	33800.00	1866.42	.00	1868.71	47.54	12.14	2783.90	4901.99
*	29.720	50.00	1879.80	1871.00	1855.00	33800.00	1866.16	.00	1869.30	70.33	14.21	2377.94	4030.37
	29.720	50.00	1879.80	1871.00	1855.00	33800.00	1867.01	.00	1869.61	52.77	12.95	2610.31	4652.85
	29.770	200.00	.00	.00	1857.20	33800.00	1867.55	1866.51	1870.69	68.85	14.23	2375.32	4073.43
	29.770	200.00	.00	.00	1857.20	33800.00	1867.94	.00	1870.82	60.35	13.63	2479.72	4350.97
*	29.850	400.00	.00	.00	1857.70	33800.00	1871.83	1871.83	1874.64	53.05	17.21	3726.04	4640.41
*	29.850	400.00	.00	.00	1857.70	33800.00	1871.82	1871.82	1874.75	54.82	17.49	3604.73	4565.06
	30.100	1304.00	.00	.00	1867.40	33800.00	1880.24	1878.68	1881.31	56.12	11.44	4542.68	4511.70
	30.100	1304.00	.00	.00	1867.40	33800.00	1880.54	.00	1881.91	62.64	12.30	3922.29	4270.53
*	30.200	537.00	.00	.00	1875.20	33800.00	1885.68	1885.68	1887.25	103.30	12.61	4033.32	3325.63
*	30.200	537.00	.00	.00	1875.20	33800.00	1886.14	1886.14	1888.31	118.19	13.97	3291.54	3109.06
*	30.280	421.00	.00	.00	1877.10	33800.00	1891.54	1891.54	1893.68	86.68	14.69	3729.27	3630.46
*	30.280	421.00	.00	.00	1877.10	33800.00	1891.90	1891.90	1894.57	95.24	15.70	3141.81	3463.46
	30.420	713.00	.00	.00	1885.80	33800.00	1897.40	1895.86	1898.22	58.61	9.28	4946.54	4415.14
	30.420	713.00	.00	.00	1885.80	33800.00	1898.24	.00	1899.11	52.08	9.32	4776.91	4683.81
*	30.520	560.00	.00	.00	1893.50	33800.00	1902.23	1902.23	1903.74	132.68	14.09	3866.68	2934.31
*	30.520	560.00	.00	.00	1893.50	33800.00	1902.36	1902.36	1904.52	162.59	15.77	3141.76	2650.75

CAVE CREEK

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	24.525	38200.00	1633.13	.00	.00	1.13	2565.47	.00
	24.525	38200.00	1633.13	.00	.00	1.13	2565.47	.00
*	24.646	38200.00	1636.13	.00	3.00	.00	2202.50	640.00
*	24.646	38200.00	1636.13	.00	3.00	.00	2202.50	640.00
	24.752	38200.00	1639.89	.00	3.76	.00	1413.32	560.00
	24.752	38200.00	1639.89	.00	3.76	.00	1413.32	560.00
	24.845	38200.00	1645.92	.00	6.03	.00	1679.69	490.00
	24.845	38200.00	1645.92	.00	6.03	.00	1679.73	490.00
*	24.919	38200.00	1648.73	.00	2.81	.00	1785.97	390.00
*	24.919	38200.00	1648.73	.00	2.81	.00	1785.93	390.00
	25.010	38200.00	1650.88	.00	2.15	.00	1395.30	480.00
	25.010	38200.00	1650.88	.00	2.15	.00	1395.29	480.00
*	25.099	38200.00	1656.67	.00	5.79	.00	1687.21	470.00
*	25.099	38200.00	1656.67	.00	5.79	.00	1687.21	470.00
	25.180	38200.00	1659.91	.00	3.25	.00	1662.62	430.00
	25.180	38200.00	1659.91	.00	3.25	.00	1662.62	430.00
	25.233	38200.00	1661.80	.00	1.88	.00	1797.94	280.00
	25.233	38200.00	1661.76	-.04	1.85	-.04	1650.00	280.00
*	25.326	36800.00	1665.34	.00	3.54	.00	1345.18	510.00
*	25.326	36800.00	1665.86	.53	4.11	.53	1080.00	510.00
*	25.388	36800.00	1669.17	.00	3.83	.00	1475.65	360.00
*	25.388	36800.00	1669.99	.82	4.13	.82	1105.81	360.00
*	25.458	36800.00	1673.33	.00	4.16	.00	1378.16	360.00
*	25.458	36800.00	1674.35	1.03	4.36	1.03	1230.11	360.00
	25.519	36800.00	1674.75	.00	1.42	.00	1421.53	310.00
	25.519	36800.00	1675.62	.87	1.26	.87	1179.00	310.00
	25.580	36800.00	1676.35	.00	1.60	.00	1358.12	300.00
	25.580	36800.00	1677.05	.70	1.43	.70	1139.59	300.00
*	25.644	36800.00	1678.52	.00	2.17	.00	1391.68	320.00
*	25.644	36800.00	1679.05	.54	2.01	.54	1220.00	320.00
*	25.699	36800.00	1682.46	.00	3.94	.00	1522.05	290.00
*	25.699	36800.00	1682.90	.44	3.84	.44	1206.00	290.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	25.750	36800.00	1684.90	.00	2.44	.00	1647.33	280.00
	25.750	36800.00	1685.05	.14	2.15	.14	1372.00	280.00
	25.843	36800.00	1685.95	.00	1.04	.00	1616.52	370.00
	25.843	36800.00	1686.21	.26	1.16	.26	1473.00	370.00
*	25.919	36800.00	1689.02	.00	3.08	.00	1412.35	400.00
*	25.919	36800.00	1689.64	.62	3.43	.62	1356.10	400.00
*	26.044	36800.00	1695.28	.00	6.25	.00	1957.24	650.00
*	26.044	36800.00	1696.24	.96	6.60	.96	1336.00	650.00
*	26.137	36800.00	1698.90	.00	3.63	.00	1872.87	495.00
	26.137	36800.00	1699.67	.77	3.43	.77	1179.17	495.00
*	26.239	36800.00	1701.16	.00	2.25	.00	1755.76	420.00
*	26.239	36800.00	1702.03	.87	2.35	.87	1088.26	420.00
*	26.335	36800.00	1705.64	.00	4.48	.00	1635.88	500.00
*	26.335	36800.00	1706.56	.92	4.53	.92	1009.00	500.00
	26.430	36800.00	1707.78	.00	2.13	.00	822.81	495.00
	26.430	36800.00	1708.35	.58	1.79	.58	614.78	495.00
*	26.529	36800.00	1711.54	.00	3.76	.00	624.79	520.00
*	26.529	36800.00	1711.66	.12	3.31	.12	376.25	520.00
	26.623	36800.00	1716.40	.00	4.86	.00	842.27	500.00
	26.623	36800.00	1716.97	.57	5.31	.57	483.61	500.00
*	26.695	36800.00	1720.60	.00	4.20	.00	723.21	380.00
*	26.695	36800.00	1721.19	.60	4.22	.60	506.20	380.00
*	26.775	36800.00	1723.99	.00	3.39	.00	652.12	420.00
*	26.775	36800.00	1724.09	.11	2.90	.11	510.03	420.00
	26.845	36800.00	1727.72	.00	3.74	.00	776.16	370.00
	26.845	36800.00	1728.23	.50	4.14	.50	708.79	370.00
	26.921	33800.00	1731.00	.00	3.28	.00	586.08	430.00
*	26.921	33800.00	1731.14	.14	2.91	.14	421.39	430.00
	27.008	33800.00	1734.50	.00	3.50	.00	736.38	400.00
*	27.008	33800.00	1734.75	.25	3.62	.25	528.41	400.00
*	27.106	33800.00	1738.47	.00	3.97	.00	659.42	520.00
*	27.106	33800.00	1738.48	.01	3.73	.01	492.01	520.00
*	27.169	33800.00	1741.54	.00	3.06	.00	691.13	330.00
*	27.169	33800.00	1741.80	.26	3.32	.26	551.88	330.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	27.226	33800.00	1743.08	.00	1.54	.00	648.27	300.00
*	27.226	33800.00	1743.39	.31	1.59	.31	538.99	300.00
*	27.265	33800.00	1749.27	.00	6.19	.00	1041.47	210.00
*	27.265	33800.00	1750.10	.83	6.71	.83	961.39	210.00
*	27.320	33800.00	1752.39	.00	3.13	.00	1289.74	275.00
*	27.320	33800.00	1753.42	1.03	3.32	1.03	1255.77	275.00
	27.366	33800.00	1755.30	.00	2.91	.00	1255.67	240.00
	27.366	33800.00	1756.23	.93	2.81	.93	1261.37	240.00
*	27.417	33800.00	1757.21	.00	1.91	.00	722.96	270.00
*	27.417	33800.00	1757.87	.66	1.64	.66	637.94	270.00
	27.502	33800.00	1764.57	.00	7.36	.00	1050.87	450.00
	27.502	33800.00	1764.88	.31	7.01	.31	639.29	450.00
*	27.604	33800.00	1768.51	.00	3.94	.00	633.32	550.00
*	27.604	33800.00	1769.18	.66	4.30	.66	524.06	550.00
*	27.693	33800.00	1774.29	.00	5.78	.00	1009.98	470.00
*	27.693	33800.00	1774.31	.02	5.14	.02	499.75	470.00
*	27.797	33800.00	1779.81	.00	5.52	.00	1447.96	550.00
*	27.797	33800.00	1780.78	.98	6.47	.98	628.81	550.00
*	27.913	33800.00	1783.23	.00	3.42	.00	1364.66	610.00
*	27.913	33800.00	1784.06	.83	3.28	.83	479.83	610.00
	28.023	33800.00	1787.52	.00	4.29	.00	1064.57	580.00
	28.023	33800.00	1788.46	.94	4.40	.94	452.77	580.00
	28.091	33800.00	1790.41	.00	2.90	.00	869.22	360.00
	28.091	33800.00	1791.00	.59	2.55	.59	476.53	360.00
*	28.157	33800.00	1794.06	.00	3.65	.00	1154.97	350.00
*	28.157	33800.00	1794.09	.03	3.09	.03	551.40	350.00
*	28.241	33800.00	1799.07	.00	5.01	.00	1108.13	440.00
*	28.241	33800.00	1799.16	.09	5.07	.09	601.17	440.00
*	28.326	33800.00	1803.41	.00	4.34	.00	994.30	450.00
*	28.326	33800.00	1803.74	.33	4.58	.33	598.66	450.00
*	28.390	33800.00	1807.39	.00	3.98	.00	926.04	340.00
*	28.390	33800.00	1808.34	.94	4.60	.94	650.47	340.00
	28.462	33800.00	1810.03	.00	2.64	.00	979.18	380.00
*	28.462	33800.00	1810.61	.58	2.28	.58	582.72	380.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	28.555	33800.00	1814.02	.00	3.99	.00	837.51	490.00
	28.555	33800.00	1814.43	.41	3.82	.41	505.40	490.00
	28.657	33800.00	1819.95	.00	5.93	.00	729.56	540.00
	28.657	33800.00	1820.44	.49	6.01	.49	501.79	540.00
	28.750	33800.00	1822.94	.00	2.99	.00	865.53	490.00
	28.750	33800.00	1823.97	1.03	3.53	1.03	650.65	490.00
	28.847	33800.00	1825.53	.00	2.58	.00	919.39	510.00
	28.847	33800.00	1826.40	.88	2.43	.88	648.43	510.00
	28.934	33800.00	1829.45	.00	3.92	.00	1039.84	460.00
	28.934	33800.00	1830.28	.83	3.87	.83	652.62	460.00
*	29.012	33800.00	1832.94	.00	3.49	.00	898.85	410.00
*	29.012	33800.00	1833.15	.21	2.87	.21	649.24	410.00
*	29.130	33800.00	1836.92	.00	3.98	.00	688.06	595.00
*	29.130	33800.00	1836.99	.07	3.85	.07	571.68	595.00
	29.258	33800.00	1842.95	.00	6.02	.00	324.13	705.00
	29.258	33800.00	1842.91	-.03	5.92	-.03	321.24	705.00
	29.351	33800.00	1848.75	.00	5.81	.00	706.43	490.00
	29.351	33800.00	1848.78	.03	5.87	.03	619.80	490.00
*	29.387	33800.00	1849.60	.00	.85	.00	848.94	190.00
	29.387	33800.00	1849.98	.37	1.20	.37	728.75	190.00
*	29.493	33800.00	1852.27	.00	2.67	.00	937.12	560.00
	29.493	33800.00	1853.31	1.04	3.34	1.04	834.20	560.00
*	29.538	33800.00	1854.96	.00	2.69	.00	733.97	240.00
*	29.538	33800.00	1855.17	.20	1.86	.20	721.18	240.00
	29.601	33800.00	1859.72	.00	4.75	.00	768.50	330.00
	29.601	33800.00	1860.38	.67	5.21	.67	548.92	330.00
*	29.663	33800.00	1864.50	.00	4.78	.00	951.30	330.00
	29.663	33800.00	1864.54	.04	4.15	.04	450.00	330.00
	29.710	33800.00	1865.57	.00	1.07	.00	310.08	310.00
*	29.710	33800.00	1866.42	.86	1.89	.86	300.00	310.00
*	29.720	33800.00	1866.16	.00	.59	.00	272.02	50.00
	29.720	33800.00	1867.01	.85	.58	.85	275.23	50.00
	29.770	33800.00	1867.55	.00	1.39	.00	268.32	200.00
	29.770	33800.00	1867.94	.39	.93	.39	269.88	200.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	29.850	33800.00	1871.83	.00	4.28	.00	636.15	400.00
*	29.850	33800.00	1871.82	-.01	3.88	-.01	595.00	400.00
	30.100	33800.00	1880.24	.00	8.41	.00	1071.61	1304.00
	30.100	33800.00	1880.54	.30	8.72	.30	620.76	1304.00
*	30.200	33800.00	1885.68	.00	5.44	.00	1097.60	537.00
*	30.200	33800.00	1886.14	.46	5.59	.46	706.02	537.00
*	30.280	33800.00	1891.54	.00	5.86	.00	873.75	421.00
*	30.280	33800.00	1891.90	.36	5.76	.36	575.91	421.00
	30.420	33800.00	1897.40	.00	5.87	.00	952.34	713.00
	30.420	33800.00	1898.24	.84	6.34	.84	771.39	713.00
*	30.520	33800.00	1902.23	.00	4.82	.00	1102.43	560.00
*	30.520	33800.00	1902.36	.14	4.12	.14	700.73	560.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     24.646  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.646  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.919  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.919  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.099  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.099  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.099  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.099  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.099  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.326  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.326  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.326  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.326  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     25.388  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.388  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.388  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.388  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.388  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.458  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.458  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.644  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.644  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.644  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.644  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     25.699  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.699  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.699  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.699  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.699  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.919  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.919  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.919  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.919  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.919  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     26.044  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.044  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.044  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.044  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.137  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO= 26.239 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     26.239  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.239  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.335  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.335  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.529  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.529  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.529  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.529  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     26.695  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.695  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.695  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.695  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.695  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     26.775  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.775  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.775  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.775  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.921  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     27.008  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     27.106  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.106  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     27.169  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.169  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     27.226  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.226  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     27.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.265  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.265  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     27.320  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.320  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.320  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.320  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.320  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     27.417  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.417  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.417  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.417  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.417  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     27.604  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    27.604  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    27.693  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    27.693  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    27.693  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    27.693  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    27.693  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    27.797  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    27.797  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    27.913  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    27.913  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    28.157  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    28.157  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    28.157  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    28.157  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    28.241  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    28.241  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    28.241  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    28.241  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    28.241  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    28.326  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    28.326  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    28.326  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    28.390  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    28.390  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    28.462  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    28.555  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    28.555  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    29.012  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    29.012  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    29.012  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    29.012  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    29.012  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    29.130  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    29.130  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    29.130  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    29.387  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    29.493  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    29.538  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    29.538  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    29.538  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     29.663  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     29.710  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     29.720  PROFILE=  1  HYDRAULIC JUMP D.S.

CAUTION SECNO=     29.850  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     29.850  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     29.850  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     29.850  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     29.850  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     30.200  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.200  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     30.200  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.200  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     30.200  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     30.280  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.280  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     30.280  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.280  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     30.520  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.520  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     30.520  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.520  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

FLOODWAY DATA, CAVE CREEK
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
24.525	2575.	15466.	2.5	1633.1	1633.1	.0
24.646	2257.	8570.	4.5	1636.1	1636.1	.0
24.752	1450.	5348.	7.1	1639.9	1639.9	.0
24.845	1752.	7431.	5.1	1645.9	1645.9	.0
24.919	1905.	8916.	4.3	1648.7	1648.7	.0
25.010	1395.	7254.	5.3	1650.9	1650.9	.0
25.099	1687.	7891.	4.8	1656.7	1656.7	.0
25.180	1809.	8146.	4.7	1659.9	1659.9	.0
25.233	1650.	7995.	4.8	1661.8	1661.8	.0
25.326	1080.	5662.	6.5	1665.8	1665.3	.5
25.388	1120.	5762.	6.4	1670.0	1669.2	.8
25.458	1249.	8169.	4.5	1674.3	1673.3	1.0
25.519	1179.	5999.	6.1	1675.6	1674.7	.9
25.580	1151.	4982.	7.4	1677.0	1676.3	.7
25.644	1220.	3907.	9.4	1679.0	1678.5	.5
25.699	1206.	5789.	6.4	1682.9	1682.5	.4
25.750	1372.	6631.	5.5	1685.0	1684.9	.1
25.843	1473.	4903.	7.5	1686.2	1685.9	.3
25.919	1457.	4104.	9.0	1689.6	1689.0	.6
26.044	1336.	6525.	5.6	1696.3	1695.3	1.0
26.137	1222.	5666.	6.5	1699.7	1698.9	.8
26.239	1119.	3639.	10.1	1702.1	1701.2	.9
26.335	1009.	6286.	5.9	1706.5	1705.6	.9
26.430	969.	3735.	9.9	1708.4	1707.8	.6
26.529	610.	2477.	14.9	1711.6	1711.5	.1
26.623	484.	4437.	8.3	1717.0	1716.4	.6
26.695	1110.	2812.	13.1	1721.2	1720.6	.6
26.775	994.	2791.	13.2	1724.1	1724.0	.1
26.845	1040.	3793.	9.7	1728.2	1727.7	.5
26.921	421.	3315.	10.2	1731.1	1731.0	.1
27.008	637.	4079.	8.3	1734.7	1734.5	.2
27.106	492.	3022.	11.2	1738.5	1738.5	.0
27.169	658.	3545.	9.5	1741.8	1741.5	.3
27.226	995.	2759.	12.2	1743.4	1743.1	.3
27.265	1040.	3969.	8.5	1750.1	1749.3	.8
27.320	1306.	4764.	7.1	1753.4	1752.4	1.0
27.366	1261.	6694.	5.0	1756.2	1755.3	.9
27.417	1011.	3016.	11.2	1757.9	1757.2	.7
27.502	639.	3233.	10.5	1764.9	1764.6	.3
27.604	642.	3494.	9.7	1769.2	1768.5	.7
27.693	500.	2783.	12.1	1774.3	1774.3	.0
27.797	629.	4461.	7.6	1780.8	1779.8	1.0

FLOODWAY DATA, CAVE CREEK
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
27.913	480.	3282.	10.3	1784.0	1783.2	.8
28.023	453.	3343.	10.1	1788.4	1787.5	.9
28.091	477.	3008.	11.2	1791.0	1790.4	.6
28.157	551.	3003.	11.3	1794.1	1794.1	.0
28.241	601.	2987.	11.3	1799.2	1799.1	.1
28.326	599.	2955.	11.4	1803.7	1803.4	.3
28.390	650.	4449.	7.6	1808.3	1807.4	.9
28.462	583.	3934.	8.6	1810.6	1810.0	.6
28.555	505.	3297.	10.3	1814.4	1814.0	.4
28.657	502.	4295.	7.9	1820.5	1820.0	.5
28.750	651.	4501.	7.5	1823.9	1822.9	1.0
28.847	648.	3539.	9.5	1826.4	1825.5	.9
28.934	653.	3604.	9.4	1830.2	1829.4	.8
29.012	649.	3387.	10.0	1833.1	1832.9	.2
29.130	572.	2917.	11.6	1837.0	1836.9	.1
29.258	713.	2492.	13.6	1842.9	1842.9	.0
29.351	620.	4990.	6.8	1848.8	1848.8	.0
29.387	729.	5006.	6.8	1850.0	1849.6	.4
29.493	834.	4525.	7.5	1853.3	1852.3	1.0
29.538	721.	3046.	11.1	1855.2	1855.0	.2
29.601	549.	3209.	10.5	1860.4	1859.7	.7
29.663	450.	3215.	10.5	1864.5	1864.5	.0
29.710	300.	2784.	12.1	1866.5	1865.6	.9
29.720	275.	2610.	12.9	1867.0	1866.2	.8
29.770	270.	2480.	13.6	1867.9	1867.5	.4
29.850	595.	3605.	9.4	1871.8	1871.8	.0
30.100	709.	3922.	8.6	1880.5	1880.2	.3
30.200	706.	3292.	10.3	1886.2	1885.7	.5
30.280	576.	3142.	10.8	1891.9	1891.5	.4
30.420	771.	4777.	7.1	1898.2	1897.4	.8
30.520	701.	3142.	10.8	1902.3	1902.2	.1

HARRIS-TOUPS

HEC-2 MODEL

```
1*****************************************
****************************************
 *  HEC-2 WATER SURFACE PROFILES          *
*
 *                                        *
*
 *  Version   4.6.2;  May 1991            *
*
 *                                        *
*
 *  RUN DATE    19FEB97    TIME   10:00:33  *
*
 *****************************************
****************************************
```


```
*  U.S. ARMY CORPS OF ENGINEERS
*  HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
```


```
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
```

THIS RUN EXECUTED 19FEB97 10:00:33

```
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************


T1          CAVE CREEK WASH      SECTIONS 29.00 - 35.49
T2          100YEAR FREQUENCY
T3          CAVE CREEK WASH                1978

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

     -1        2         0         0   .010740                                   1833.33

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38        43         1         2        26        39        21        22        27        28
     53        54         0        38        13        14        15        55        26        56
     63         1        51         4        42        57         0        38        39        33
      3        10        11        12         5         7         8        16        17        18
      0       200       150

NC    .050      .050      .042      .300      .500
ET      0.        0.       9.1        0.        0.       9.1        0.        0.     1940.     2386.
QT      2     36860     36860
            FLOWLINE AT STA. 2000
X1     29        12      1965      2080
GR   1856      1750      1852      1885      1848      1915      1844      1935      1840      1940
GR   1820      1965      1820      2030      1820      2050      1824      2080      1828      2180
GR   1832      2540      1840      3120         0         0         0         0         0         0

ET      0         0       9.1         0         0       9.1         0         0      1940      2386
X1 29.190        15      1940      2060      1080       920      1020
GR   1864      1820      1860      1890      1840      1940      1828      1960      1828      2000
GR   1830      2060      1832      2100      1836      2180      1840      2320      1839      2410
GR   1840      2550      1838      2760      1840      2815      1844      2850      1846      3140
```

```
ET      0       0     9.1       0       0     9.1       0       0    1531    2082
X1  29.39      26    1960    2050     950     980    1020
GR   1879     960    1876    1265    1872    1390    1868    1430    1864    1440
GR   1860    1455    1840    1520    1839    1530    1840    1550    1844    1690
GR   1844    1730    1844    1830    1840    1960    1838    1970    1838    2025
GR   1840    2050    1844    2110    1848    2150    1849    2250    1848    2390
GR   1852    2420    1856    2435    1857    2480    1856    2570    1855    2650
GR   1856    2760       0       0       0       0       0       0       0       0

ET      0       0     9.1       0       0     9.1       0       0    1520    2050
X1  29.570      19    1950    2050    1050    1030     990
GR   1880     900    1872     990    1868    1010    1864    1050    1856    1160
GR   1860    1250    1856    1460    1856    1510    1858    1570    1856    1600
GR   1852    1650    1852    1800    1855    1860    1856    1950    1848    1980
GR   1848    2025    1856    2050    1868    2085    1869    2160

ET      0       0     9.1       0       0     9.1       0       0    1548    2083
X1   29.7      15    1915    2050     700     600     680
GR   1880     960    1876    1200    1868    1280    1863    1470    1865    1670
GR   1864    1800    1860    1840    1856    1915    1854    1950    1854    2040
GR   1860    2050    1864    2170    1868    2180    1872    2580    1876    2740

ET      0       0     9.1               0     9.1       0       0    1580    2100
X1  29.73      15    1890    2050     350      50     140
GR   1881    1000    1880    1130    1868    1190    1868    1280    1869    1380
GR   1868    1610    1864    1700    1860    1810    1860    1890    1856    1950
GR   1856    2040    1858    2050    1860    2080    1864    2250    1868    2380

ET      0       0     9.1       0       0     9.1       0       0    1570    2100
            CONTROL SECTION AT CAREFREE HIGHWAY CROSSING
X1  29.74      15    1910    2050      80      20      20
GR   1881    1000    1880    1075    1872    1120    1870    1300    1872    1360
GR   1872    1420    1868    1570    1864    1710    1860    1910    1856    1950
GR   1856    2040    1858    2050    1860    2100    1864    2260    1868    2390

ET      0       0     9.1       0       0     9.1       0       0    1550    2050
X1   29.8      18    1930    2050     130     280     330
GR   1880    1040    1872    1100    1876    1200    1872    1320    1868    1350
GR   1866    1410    1868    1560    1864    1680    1864    1800    1862    1835
GR   1864    1850    1865    1890    1864    1930    1860    1960    1860    2040
GR   1864    2050    1872    2070    1876    2150

ET      0       0     9.1       0       0     9.1       0       0    1250    2060
X1  29.94      19    1950    2060     600     800     750
GR   1887     760    1884     910    1876     950    1872     990    1870    1040
GR   1872    1100    1869    1300    1868    1590    1876    1720    1872    1930
GR   1868    1950    1864    1970    1862    2000    1864    2050    1868    2060
GR   1884    2080    1886    2200    1888    2400    1896    2460
```

ET	0	0	9.1	0	0	9.1	0	0	1250	2030
X1	30.1	26	1880	2030	600	950	880			
GR	1888	750	1880	780	1878	820	1880	920	1879	1050
GR	1880	1140	1880	1200	1876	1260	1875	1320	1875	1370
GR	1874	1420	1876	1460	1878	1580	1876	1680	1874	1730
GR	1876	1770	1880	1800	1882	1830	1880	1850	1876	1880
GR	1872	1950	1868	1990	1868	2020	1872	2030	1904	2200
GR	1908	2290								
QT	2	35900	35900							
ET	0	0	9.1	0	0	9.1	0	0	1461	2040
X1	30.33	23	1870	2040	1150	1180	1200			
GR	1912	550	1908	600	1904	740	1903	800	1904	960
GR	1903	1040	1904	1110	1900	1160	1892	1190	1889	1280
GR	1888	1420	1887	1480	1889	1540	1887	1590	1889	1630
GR	1888	1820	1884	1870	1882	1920	1882	2030	1892	2040
GR	1896	2210	1900	2310	1920	2580				
ET	0	0	9.1	0	0	9.1	0	0	1743	2070
X1	30.64	20	1950	2070	1800	1500	1650			
GR	1919	1140	1916	1200	1912	1225	1909	1300	1910	1500
GR	1908	1670	1904	1780	1901	1810	1902	1870	1901	1950
GR	1900	2000	1904	2070	1908	2090	1911	2150	1908	2225
GR	1907	2245	1908	2260	1932	2370	1940	2430	1944	2650
ET	0	0	9.1	0	0	9.1	0	0	1901	2592
X1	30.86	23	1940	2060	750	1150	1150			
GR	1930	1420	1928	1510	1920	1580	1916	1840	1912	1940
GR	1909	2000	1912	2060	1915	2140	1913	2240	1914	2260
GR	1912	2315	1913	2370	1912	2405	1910	2420	1912	2440
GR	1917	2500	1916	2540	1912	2600	1916	2660	1920	2680
GR	1924	2820	1928	2890	1940	2970				
ET	0	0	9.1	0	0	9.1	0	0	1898	2681
X1	31.06	16	1940	2100	1300	850	1030			
GR	1941	1630	1940	1715	1936	1760	1928	1785	1924	1820
GR	1925	1880	1924.5	1910	1924	1940	1924	2000	1924	2100
GR	1926	2480	1923	2590	1926	2670	1924	2710	1924	2760
GR	1960	2900								
ET	0	0	9.1	0	0	9.1	0	0	1950	2505
X1	31.3	19	1950	2100	1350	1200	1300			
GR	1960	1100	1956	1360	1944	1540	1943	1580	1944	1615
GR	1945	1690	1944	1810	1940	1870	1936	1950	1932	2000
GR	1934	2100	1936	2275	1937	2340	1936	2440	1935	2490
GR	1936	2545	1940	2570	1948	2790	1952	2840		
ET	0	0	9.1	0	0	9.1	0	0	1880	2431
X1	31.48	20	1880	2130	1000	1000	960			
GR	1980	770	1972	870	1968	1060	1964	1530	1960	1675
GR	1953	1785	1956	1830	1944	1880	1943	2000	1944	2130
GR	1947	2220	1944	2330	1943	2370	1945	2440	1943	2480
GR	1948	2520	1950	2615	1948	2730	1952	3140	1980	3215

ET	0	0	9.1	0	0	9.1	0	0	1724	2225
X1	31.65	18	1930	2120	900	850	850			
GR	1980	1090	1976	1260	1972	1310	1968	1500	1964	1540
GR	1956	1580	1952	1800	1953	1850	1952	1930	1948	1950
GR	1948	2050	1952	2120	1954	2180	1952	2240	1956	2275
GR	1957	2450	1960	2750	1980	2820				
ET	0	0	9.1	0	0	9.1	0	0	1789	2090
X1	31.82	12	1920	2090	900	800	920			
GR	1980	1400	1976	1590	1972	1685	1960	1760	1956	1920
GR	1955	2000	1956	2020	1960	2090	1964	2150	1968	2215
GR	1972	2250	1980	2300						
ET	0	0	9.1	0	0	9.1	0	0	1625	2060
X1	32.03	15	1870	2060	1180	1060	1120			
GR	2000	1050	1996	1075	1988	1200	1984	1320	1980	1570
GR	1964	1615	1965	1740	1964	1870	1963	2000	1964	2060
GR	1968	2075	1972	2120	1976	2170	1984	2215	2000	2400
ET	0	0	9.1	0	0	9.1	0	0	1713	2080
X1	32.24	13	1950	2080	960	1080	1080			
GR	2000	1100	1996	1210	1992	1365	1988	1570	1984	1615
GR	1976	1640	1972	1950	1971	2000	1972	2080	1980	2140
GR	1984	2235	1988	2340	2000	2420				
ET	0	0	9.1	0	0	9.1	0	0	1706	2208
X1	32.47	14	1920	2090	1250	1250	1210			
GR	2020	1105	2012	1320	2008	1390	2004	1410	2000	1530
GR	1992	1595	1988	1635	1984	1920	1982	2000	1984	2090
GR	1985	2180	1988	2270	2000	2320	2020	2630		
QT	2	35000	35000							
ET	0	0	9.1	0	0	9.1	0	0	1680	2050
X1	32.66	16	1930	2050	950	980	1000			
GR	2020	1220	2008	1310	2004	1370	2000	1500	1996	1700
GR	1995	1725	1996	1750	1999	1785	1996	1820	1992	1930
GR	1990	2000	1992	2050	2008	2085	2012	2115	2016	2220
GR	2020	2280								
ET	0	0	9.1	0	0	9.1	0	0	1767.69	2228.54
X1	32.91	13	1920	2110	1350	1370	1350			
GR	2028	1720	2024	1745	2012	1770	2008	1810	2007	1830
GR	2008	1880	2004	1920	2004	2000	2006	2110	2005	2150
GR	2008	2195	2024	2300	2028	2350				
ET	0	0	9.1	0	0	9.1	0	0	1668.31	2072.49
X1	33.11	8	1950	2050	1160	1000	1060			
GR	2040	1620	2024	1670	2020	1720	2016	1950	2014	2000
GR	2016	2050	2020	2060	2060	2170				

```
NC     .050      .050      .045      .300      .500
ET        0         0       9.1         0         0       9.1         0         0   1898.87    2237.2
X1    33.32         9      1930      2030      1030      1040      1080
GR     2052      1865      2028      1910      2024      1930      2020      1970      2019      2000
GR     2020      2030      2024      2065      2028      2210      2052      2320

NC     .050      .050      .045      .100      .300
ET        0         0       9.1         0         0       9.1         0         0   1949.72   2229.14
            SEC. 200 FEET UPSTREAM OF OCOTILLO WASH CONFLUENCE
X1    33.48        18      1975      2050       820       750       800
GR     2072      1710      2064      1775      2056      1800      2052      1820      2048      1900
GR     2044      1945      2040      1960      2028      1975      2026      1976      2026      2020
GR     2028      2035      2032      2050      2036      2125      2040      2220      2052      2260
GR     2056      2335      2060      2370      2072      2540

NC     .050      .050      .042      .100      .300
ET        0         0       9.1         0         0       9.1         0         0   1926.26   2077.49
X1    33.66         8      1960      2040       950       910       940
GR     2080      1790      2060      1915      2040      1960      2038      1970      2038      2035
GR     2040      2040      2068      2110      2080      2180

ET        0         0       9.1         0         0       9.1         0         0   1830.04   2113.34
X1    33.78        14      1920      2070       460       530       500
GR     2080      1685      2072      1770      2060      1845      2056      1860      2052      1875
GR     2050      1910      2048      1920      2044      1965      2044      2000      2044      2045
GR   2043.5      2060      2044      2070      2048      2085      2080      2148

QT        2     23600     23600
ET        0         0       9.1         0         0       9.1         0         0    1884.2   2143.84
X1    33.84        15      1940      2040       430       460       440
GR     2092      1465      2080      1570      2076      1640      2072      1750      2068      1820
GR     2064      1880      2060      1905      2056      1910      2052      1940      2049      1970
GR     2049      2020      2052      2040      2056      2120      2060      2135      2092      2220

NC     .050      .050      .042      .300      .500
ET        0         0       9.1         0         0       9.1         0         0   1921.22   2374.79
X1    34.05        20      1940      2080      1170      1100      1100
GR     2120      1030      2112      1580      2108      1710      2100      1750      2092      1775
GR     2080      1800      2076      1825      2072      1855      2068      1930      2064      1940
GR     2059      1960      2059      2030      2060      2050      2064      2080      2067      2140
GR     2064      2220      2065      2250      2063      2325      2064      2370      2120      2430

ET        0         0       9.1         0         0       9.1         0         0   1916.99   2175.83
X1    34.22        14      1930      2070       870       930       900
GR     2120      1520      2100      1700      2092      1730      2088      1755      2084      1900
GR     2080      1910      2076      1925      2072      1930      2068      1980      2064      2000
GR     2068      2015      2072      2070      2076      2170      2120      2290
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NC     .050     .050     .045     .300     .500
ET        0        0      9.1        0        0      9.1        0        0  1697.96  2142.04
X1    34.44       15     1930     2080     1030     1200     1130
GR     2128     1590     2124     1605     2120     1620     2088     1700     2080     1715
GR     2080     1790     2084     1810     2084     1930     2080     1950     2080     2060
GR     2084     2080     2084     2130     2096     2160     2100     2200     2128     2400

ET        0        0      9.1        0        0      9.1        0        0   1736.6  2099.06
X1    34.64       15     1970     2030     1100     1020     1050
GR     2140     1530     2120     1635     2100     1730     2096     1800     2092     1970
GR     2090     1980     2090     2020     2092     2030     2096     2090     2100     2100
GR     2408     2140     2112     2210     2120     2245     2124     2290     2140     2350

NC     .050     .050     .042     .300     .500
ET        0        0      9.1        0        0      9.1        0        0  1692.24  2123.28
X1    34.84       12     1980     2030      950     1070     1040
GR     2152     1510     2140     1560     2120     1680     2112     1700     2108     1980
GR     2102     1990     2102     2020     2108     2030     2112     2050     2112     2100
GR     2116     2130     2140     2200

ET        0        0      9.1        0        0      9.1        0        0  1643.49  2229.38
X1    35.03       14     1940     2050      950     1010     1020
GR     2164     1575     2124     1645     2120     1780     2123     1870     2120     1940
GR     2113     1960     2113     2040     2116     2050     2120     2060     2120     2100
GR     2124     2210     2128     2300     2140     2360     2160     2400

ET        0        0      9.1        0        0      9.1        0        0  1905.07  2620.39
X1    35.23       15     1920     2035     1080     1000     1050
GR     2180     1780     2172     1840     2140     1900     2128     1920     2124     1960
GR     2124     2030     2128     2035     2136     2130     2136     2420     2134     2530
GR     2136     2615     2144     2660     2148     2690     2160     2750     2180     2790

ET        0        0      9.1        0        0      9.1        0        0  1634.18  2059.05
            THIS IS THE UPSTREAM LIMIT OF THE STUDY
X1    35.49       14     1940     2040     1250     1260     1350
GR     2200      890     2196     1380     2192     1450     2180     1480     2160     1500
GR     2152     1515     2148     1650     2144     1870     2140     1940     2137     1960
GR     2137     2030     2140     2040     2160     2085     2200     2250
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1

CCHV=     .300 CEHV=     .500
*SECNO 29.000
3720 CRITICAL DEPTH ASSUMED
            FLOWLINE AT STA. 2000
   29.000     13.31   1833.31   1833.31   1833.33   1835.93      2.62       .00       .00   1820.00
  36860.0     798.4   22982.5   13079.1     110.7    1470.2    1982.8        .0        .0   1824.00
      .00      7.21     15.63      6.60      .050      .042      .050      .000   1820.00   1948.37
 .006549        0.        0.        0.         0         5         0       .00    686.35   2634.71


*SECNO 29.190
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   29.190     13.12   1841.12   1841.12       .00   1843.41      2.29      6.69       .10   1840.00
  36860.0       2.5   20919.6   15937.9       1.6    1394.0    2348.5      80.7      16.9   1830.00
      .02      1.62     15.01      6.79      .050      .042      .050      .000   1828.00   1937.21
 .007093     1080.     1020.      920.         2         5         0       .00    887.56   2824.77


*SECNO 29.390

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   29.390     10.61   1848.61       .00       .00   1849.99      1.38      6.31       .27   1840.00
  36860.0   21602.5   11617.0    3640.5    2824.0     919.9     547.1     171.1      35.9   1840.00
      .05      7.65     12.63      6.65      .050      .042      .050      .000   1838.00   1492.02
 .005766      950.     1020.      980.         2         0         0       .00    809.05   2394.58


*SECNO 29.570

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
29.570	10.97	1858.97	1858.97	.00	1861.12	2.15	8.02	.39	1856.00
36860.0	23094.7	13714.7	50.6	2651.2	876.9	12.9	264.2	55.9	1856.00
.08	8.71	15.64	3.93	.050	.042	.050	.000	1848.00	1119.17
.011135	1050.	990.	1030.	4	8	0	.00	862.19	2058.66

*SECNO 29.700
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

29.700	12.22	1866.22	1866.22	.00	1868.57	2.35	5.77	.10	1856.00
36860.0	10356.1	23301.3	3202.6	1649.6	1584.6	512.5	321.6	69.3	1860.00
.10	6.28	14.70	6.25	.050	.042	.050	.000	1854.00	1347.66
.006584	700.	680.	600.	2	8	0	.00	827.89	2175.55

*SECNO 29.730

3265 DIVIDED FLOW

3280 CROSS SECTION 29.73 EXTENDED .85 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.62

29.730	12.85	1868.85	.00	.00	1869.71	.86	.70	.45	1860.00
36860.0	9535.9	17938.3	9385.8	1912.4	1925.2	1828.9	342.9	74.9	1858.00
.10	4.99	9.32	5.13	.050	.042	.050	.000	1856.00	1185.77
.002522	350.	140.	50.	3	0	0	.00	1143.15	2380.00

*SECNO 29.740
3280 CROSS SECTION 29.74 EXTENDED .91 FEET

CONTROL SECTION AT CAREFREE HIGHWAY CROSSING

29.740	12.91	1868.91	.00	.00	1869.83	.92	.09	.03	1860.00
36860.0	9078.3	16828.2	10953.5	1806.3	1717.9	1980.6	348.0	76.1	1858.00
.10	5.03	9.80	5.53	.050	.042	.050	.000	1856.00	1535.74
.002718	80.	20.	20.	2	0	0	.00	854.26	2390.00

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

*SECNO 29.800

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

29.800	9.61	1869.61	1869.61	.00	1871.88	2.28	1.16	.68	1864.00
36860.0	19970.9	16662.7	226.4	2401.0	1072.7	39.3	371.3	79.6	1864.00
.11	8.32	15.53	5.76	.050	.042	.050	.000	1860.00	1337.96
.010508	130.	330.	280.	2	19	0	.00	726.06	2064.01

*SECNO 29.940

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

29.940	13.22	1875.22	.00	.00	1876.20	.99	3.93	.39	1868.00
36860.0	22990.9	13750.1	119.0	4205.8	1253.8	32.5	437.5	92.4	1868.00
.13	5.47	10.97	3.66	.050	.042	.050	.000	1862.00	957.83
.003802	600.	750.	800.	3	0	0	.00	1057.33	2069.02

*SECNO 30.100

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

30.100	12.24	1880.24	1880.24	.00	1881.87	1.62	3.82	.32	1876.00
36860.0	18222.4	17432.7	1204.9	2852.5	1316.7	180.5	514.4	109.3	1872.00
.16	6.39	13.24	6.67	.050	.042	.050	.000	1868.00	779.08
.007807	600.	880.	950.	3	10	0	.00	1250.82	2073.80

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

*SECNO 30.330
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

30.330	9.74	1891.74	1891.74	.00	1893.74	2.00	9.36	.19	1884.00
35900.0	14516.1	21383.9	.0	2286.5	1556.4	.0	624.3	137.1	1892.00
.19	6.35	13.74	.00	.050	.042	.000	.000	1882.00	1197.70
.008109	1150.	1200.	1180.	3	16	0	.00	842.05	2039.74

*SECNO 30.640

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

30.640	9.94	1909.94	1909.94	.00	1912.02	2.08	14.83	.04	1901.00
35900.0	20064.6	14582.5	1252.9	2097.3	1027.7	257.4	768.2	172.7	1904.00
.23	9.57	14.19	4.87	.050	.042	.050	.000	1900.00	1276.51
.009189	1800.	1650.	1500.	4	5	0	.00	927.44	2268.89

*SECNO 30.860

3301 HV CHANGED MORE THAN HVINS

30.860	9.71	1918.71	.00	.00	1919.78	1.07	7.46	.30	1912.00
35900.0	3707.7	10960.7	21231.6	708.6	984.7	3057.0	862.7	194.0	1912.00
.26	5.23	11.13	6.95	.050	.042	.050	.000	1909.00	1664.10
.005988	750.	1150.	1150.	3	0	0	.00	1009.43	2673.53

*SECNO 31.060

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

31.060	5.19	1928.19	1928.19	.00	1929.94	1.75	9.63	.34	1924.00
35900.0	5051.9	8825.5	22022.6	519.6	670.4	2284.7	952.7	216.3	1924.00
.29	9.72	13.16	9.64	.050	.042	.050	.000	1923.00	1784.41
.020488	1300.	1030.	850.	3	11	0	.00	991.89	2776.30

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

*SECNO 31.300

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

31.300	9.55	1941.55	.00	.00	1942.82	1.27	12.73	.14	1936.00
35900.0	1569.6	13869.4	20461.0	302.1	1232.6	2736.8	1063.0	241.3	1934.00
.33	5.20	11.25	7.48	.050	.042	.050	.000	1932.00	1846.74
.006109	1350.	1300.	1200.	6	0	0	.00	765.90	2612.64

*SECNO 31.480

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

31.480	6.43	1949.43	1949.30	.00	1951.25	1.82	8.16	.28	1944.00
35900.0	381.8	18805.2	16713.0	61.5	1483.1	1991.4	1151.4	260.9	1944.00
.35	6.21	12.68	8.39	.050	.042	.050	.000	1943.00	1857.37
.011959	1000.	960.	1000.	6	14	0	.00	959.83	2876.81

*SECNO 31.650

31.650	9.54	1957.54	.00	.00	1959.33	1.79	8.07	.01	1952.00
35900.0	9693.0	21093.4	5113.6	1440.2	1632.8	865.6	1225.2	279.6	1952.00
.38	6.73	12.92	5.91	.050	.042	.050	.000	1948.00	1572.30
.007600	900.	850.	850.	3	0	0	.00	931.79	2504.09

*SECNO 31.820

3301 HV CHANGED MORE THAN HVINS

31.820	10.03	1965.03	.00	.00	1967.83	2.80	7.99	.51	1956.00
35900.0	12976.6	21750.5	1172.9	1204.6	1445.7	190.7	1294.7	293.3	1960.00
.40	10.77	15.04	6.15	.050	.042	.050	.000	1955.00	1728.54
.010427	900.	920.	800.	2	0	0	.00	438.26	2166.80

*SECNO 32.030

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

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

32.030	10.41	1973.41	.00	.00	1974.46	1.04	6.10	.53	1964.00
35900.0	17095.6	17501.0	1303.4	2398.0	1883.8	277.4	1392.0	306.2	1964.00
.43	7.13	9.29	4.70	.050	.042	.050	.000	1963.00	1588.52
.003237	1180.	1120.	1060.	3	0	0	.00	549.17	2137.69

*SECNO 32.240

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

32.240	8.34	1979.34	1979.34	.00	1982.14	2.80	5.98	.88	1972.00
35900.0	17630.8	16610.8	1658.4	1673.6	1019.5	202.2	1478.8	318.5	1972.00
.46	10.53	16.29	8.20	.050	.042	.050	.000	1971.00	1629.56
.013611	960.	1080.	1080.	3	15	0	.00	505.51	2135.07

*SECNO 32.470

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

32.470	9.58	1991.58	.00	.00	1992.88	1.30	10.28	.45	1984.00
35900.0	11352.4	16218.7	8328.8	1652.3	1457.5	1119.8	1579.9	335.4	1984.00
.49	6.87	11.13	7.44	.050	.042	.050	.000	1982.00	1599.27
.005639	1250.	1210.	1250.	4	0	0	.00	685.62	2284.89

*SECNO 32.660

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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

  32.660      11.00    2001.00    2001.00        .00    2003.52       2.52       6.89        .61    1992.00
 35000.0    15564.7    18793.0      642.3     1904.2     1199.5       88.5     1662.7      349.7    1992.00
     .52       8.17      15.67       7.26       .050       .042       .050       .000    1990.00    1467.65
 .009113       950.      1000.       980.          3          8          0        .00     602.03    2069.68

*SECNO 32.910
  32.910       9.11    2013.11        .00        .00    2015.31       2.20      11.69        .10    2004.00
 35000.0     6877.4    21703.7     6418.9      802.9     1621.1      687.6     1760.6      366.2    2006.00
     .55       8.57      13.39       9.33       .050       .042       .050       .000    2004.00    1767.69
 .008213      1350.      1350.      1370.          2          0          0        .00     460.86    2228.54

*SECNO 33.110

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  33.110      10.54    2024.54    2024.54        .00    2027.66       3.12      10.60        .46    2016.00
 35000.0    17704.0    16443.4      852.6     1632.4      954.2      93.8     1833.3      377.1    2016.00
     .57      10.85      17.23       9.09       .050       .042       .050       .000    2014.00    1668.30
 .011730      1160.      1060.      1000.          3          8          0        .00     404.19    2072.49

CCHV=     .300 CEHV=     .500
*SECNO 33.320

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47

  33.320      14.93    2033.93        .00        .00    2036.07       2.13       8.11        .30    2024.00
 35000.0     1498.3    18401.4    15100.3      191.7     1343.5     1648.9     1904.2      386.1    2020.00
     .60       7.82      13.70       9.16       .050       .045       .050       .000    2019.00    1898.87
 .005403      1030.      1080.      1040.          3          0          0        .00     338.33    2237.20

CCHV=     .100 CEHV=     .300
*SECNO 33.480
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
SEC. 200 FEET UPSTREAM OF OCOTILLO WASH CONFLUENCE

33.480	16.74	2042.74	2042.74	.00	2046.88	4.14	5.28	.60	2028.00
35000.0	1352.9	22396.0	11251.0	145.2	1179.7	1118.7	1954.3	391.5	2032.00
.61	9.32	18.99	10.06	.050	.045	.050	.000	2026.00	1949.72
.008669	820.	800.	750.	20	8	0	.00	279.42	2229.14

CCHV= .100 CEHV= .300
*SECNO 33.660

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

33.660	16.99	2054.99	2054.99	.00	2061.57	6.57	8.27	.73	2040.00
35000.0	2577.5	29528.1	2894.4	252.9	1344.5	281.0	2000.5	396.1	2040.00
.62	10.19	21.96	10.30	.050	.042	.050	.000	2038.00	1926.26
.009036	950.	940.	910.	20	5	0	.00	151.22	2077.48

*SECNO 33.780

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.21

33.780	18.88	2062.38	.00	.00	2063.83	1.44	1.75	.51	2048.00
35000.0	4415.0	27709.2	2875.8	741.5	2673.8	449.4	2033.3	398.6	2044.00
.64	5.95	10.36	6.40	.050	.042	.050	.000	2043.50	1830.10
.001845	460.	500.	530.	3	0	0	.00	283.22	2113.32

*SECNO 33.840

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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

   33.840     14.29   2063.29       .00       .00   2064.87      1.57      1.00       .04   2052.00
  23600.0    2255.5   15388.5    5956.0     338.8    1353.6     836.5    2065.8     401.3   2052.00
      .65      6.66     11.37      7.12      .050      .042      .050      .000   2049.00   1884.46
  .003216      430.      440.      460.         2         0         0       .00    259.27   2143.73


CCHV=     .300 CEHV=     .500
*SECNO 34.050

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .61

   34.050      9.48   2068.48       .00       .00   2070.63      2.15      5.47       .29   2064.00
  23600.0     121.4   15914.6    7564.1      26.9    1176.8    1106.6    2127.2     410.4   2064.00
      .68      4.51     13.52      6.84      .050      .042      .050      .000   2059.00   1921.06
  .008621     1170.     1100.     1100.         4         0         0       .00    453.74   2374.80


*SECNO 34.220

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   34.220     14.14   2078.14   2078.14       .00   2081.57      3.43      8.62       .64   2072.00
  23600.0     164.3   20170.2    3265.5      29.2    1278.9     419.7    2169.4     417.9   2072.00
      .69      5.62     15.77      7.78      .050      .042      .050      .000   2064.00   1916.99
  .010525      870.      900.      930.         3        14         0       .00    258.83   2175.82


CCHV=     .300 CEHV=     .500
*SECNO 34.440

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49
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 SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
 Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
 TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
 SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

  34.440      8.81    2088.81        .00        .00    2089.87       1.06       7.59        .71    2084.00
 23600.0   10545.0    11545.6     1509.4     1448.3     1242.3      269.7     2229.0      426.8    2084.00
     .73      7.28       9.29       5.60       .050       .045       .050       .000    2080.00    1697.96
 .004760     1030.      1130.      1200.          3          0          0        .00     444.08    2142.04

*SECNO 34.640

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  34.640      9.62    2099.62    2099.62        .00    2102.23       2.61       7.86        .78    2092.00
 23600.0   10755.2     9178.1     3666.7     1071.0      557.4      353.9     2289.9      436.8    2092.00
     .76     10.04      16.46      10.36       .050       .045       .050       .000    2090.00    1736.58
 .012838     1100.      1050.      1020.          9          8          0        .00     362.48    2099.06

CCHV=     .300 CEHV=     .500
*SECNO 34.840
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  34.840     13.11    2115.11    2115.11        .00    2117.46       2.36      10.53        .08    2108.00
 23600.0   11850.4     9862.1     1887.5     1441.5      595.3      293.5     2339.0      445.8    2108.00
     .78      8.22      16.57       6.43       .050       .042       .050       .000    2102.00    1692.24
 .008788      950.      1040.      1070.          3         11          0        .00     431.05    2123.29

*SECNO 35.030
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  35.030     11.86    2124.86    2124.86        .00    2126.79       1.93       6.92        .13    2120.00
 23600.0    4433.1    15967.2     3199.6      924.9     1219.8      586.2     2396.2      457.2    2116.00
     .81      4.79      13.09       5.46       .050       .042       .050       .000    2113.00    1643.49
 .005644      950.      1020.      1010.          2         10          0        .00     585.90    2229.39

*SECNO 35.230
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  35.230     12.96    2136.96    2136.96        .00    2139.15       2.19       5.59        .13    2128.00
 23600.0     347.4    18515.8     4736.7       66.9     1400.3     1133.7     2459.8      472.5    2128.00
     .83      5.19      13.22       4.18       .050       .042       .050       .000    2124.00    1905.07
 .005078     1080.      1050.      1000.          5         11          0        .00     715.32    2620.39
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 35.490
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
THIS IS THE UPSTREAM LIMIT OF THE STUDY

35.490	11.47	2148.47	2148.47	.00	2151.12	2.65	8.05	.23	2140.00
23600.0	6557.3	16534.2	508.5	1000.1	1102.0	80.7	2531.5	489.2	2140.00
.86	6.56	15.00	6.30	.050	.042	.050	.000	2137.00	1634.13
.007396	1250.	1350.	1260.	5	15	0	.00	424.93	2059.06

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T1          CAVE CREEK WASH     SECTIONS 29.00 - 35.49
T2          fldway run
T3          CAVE CREEK WASH             1978

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0        3         0         0      .01074                                  1833.33

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15                   -1
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 2

CCHV=     .300 CEHV=     .500
*SECNO 29.000
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1940.0    2386.0  TYPE=      1  TARGET=      446.000
            FLOWLINE AT STA. 2000
   29.000     13.03   1833.03   1833.03   1833.31   1836.23      3.20       .00       .00   1820.00
  36860.0     822.5   24145.4   11892.2     106.1    1438.3    1502.9        .0        .0   1824.00
     .00      7.75     16.79      7.91      .050      .042      .050      .000   1820.00   1948.71
 .007778        0.        0.        0.         0         8         0       .00    437.28   2386.00

*SECNO 29.190

3470 ENCROACHMENT STATIONS=     1940.0    2386.0  TYPE=      1  TARGET=      446.000
   29.190     13.19   1841.19       .00   1841.12   1844.23      3.04      7.96       .05   1840.00
  36860.0        .0   22830.5   14029.5        .0    1402.6    1531.5      66.6       9.6   1830.00
     .02       .00     16.28      9.16      .000      .042      .050      .000   1828.00   1940.00
 .008384     1080.     1020.      920.         3         0         0       .00    446.00   2386.00

*SECNO 29.390

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     1531.0    2082.0  TYPE=      1  TARGET=      551.000
   29.390     11.55   1849.55       .00   1848.61   1850.91      1.36      6.17       .51   1840.00
  36860.0   22549.5   12287.2    2023.3    3005.7    1004.4     271.4     147.9      20.8   1840.00
     .05      7.50     12.23      7.45      .050      .042      .050      .000   1838.00   1531.00
 .004812      950.     1020.      980.         2         0         0       .00    551.00   2082.00

*SECNO 29.570

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1520.0    2050.0  TYPE=      1  TARGET=      530.000
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

  29.570     11.00   1859.00   1859.00   1858.97   1861.76      2.76      7.65       .70   1856.00
 36860.0   22224.8   14635.2        .0    2096.0     879.8        .0     234.0      33.7 100000.00
     .07     10.60     16.63       .00      .050      .042      .000      .000   1848.00   1520.00
 .013033     1050.      990.     1030.         5        11         0       .00    530.00   2050.00

*SECNO 29.700
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1548.0    2083.0  TYPE=      1  TARGET=      535.000
  29.700     12.33   1866.33   1866.33   1866.22   1869.38      3.05      6.77       .15   1856.00
 36860.0    9777.0   25628.7    1454.2    1273.2    1599.8     190.8     281.7      42.1   1860.00
     .09      7.68     16.02      7.62      .050      .042      .050      .000   1854.00   1548.00
 .007716      700.      680.      600.         3         8         0       .00    535.00   2083.00

*SECNO 29.730
3280 CROSS SECTION     29.73 EXTENDED      1.56 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.62

3470 ENCROACHMENT STATIONS=     1580.0    2100.0  TYPE=      1  TARGET=      520.000
  29.730     13.56   1869.56       .00   1868.85   1870.80      1.25       .88       .54   1860.00
 36860.0   12017.4   21348.1    3494.5    1961.0    2039.3     503.2     300.9      45.4   1858.00
     .09      6.13     10.47      6.94      .050      .042      .050      .000   1856.00   1580.00
 .002948      350.      140.       50.         4         0         0       .00    520.00   2100.00

*SECNO 29.740
3280 CROSS SECTION     29.74 EXTENDED      1.60 FEET

3470 ENCROACHMENT STATIONS=     1570.0    2100.0  TYPE=      1  TARGET=      530.000
           CONTROL SECTION AT CAREFREE HIGHWAY CROSSING
  29.740     13.60   1869.60       .00   1868.91   1871.01      1.41       .13       .08   1860.00
 36860.0   12251.8   20657.7    3950.5    2025.1    1814.5     530.2     305.7      46.1   1858.00
     .09      6.05     11.39      7.45      .050      .042      .050      .000   1856.00   1570.00
 .003414       80.       20.       20.         2         0         0       .00    530.00   2100.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 29.800

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS= 1550.0 2050.0 TYPE= 1 TARGET= 500.000

29.800	10.45	1870.45	.00	1869.61	1872.65	2.20	1.24	.40	1864.00
36860.0	19822.9	17037.1	.0	2181.0	1173.8	.0	325.0	48.3	100000.00
.10	9.09	14.51	.00	.050	.042	.000	.000	1860.00	1550.00
.008720	130.	330.	280.	2	0	0	.00	500.00	2050.00

*SECNO 29.940

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.40

3470 ENCROACHMENT STATIONS= 1250.0 2060.0 TYPE= 1 TARGET= 810.000

29.940	13.71	1875.71	.00	1875.22	1876.96	1.25	4.02	.29	1868.00
36860.0	21610.8	15249.2	.0	3371.1	1308.9	.0	384.6	57.6	100000.00
.12	6.41	11.65	.00	.050	.042	.000	.000	1862.00	1250.00
.004431	600.	750.	800.	2	0	0	.00	790.56	2060.00

*SECNO 30.100

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

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


3470 ENCROACHMENT STATIONS=     1250.0    2030.0  TYPE=      1  TARGET=      780.000
   30.100     12.02   1880.02       .00   1880.24   1882.20      2.18      4.77       .47   1876.00
  36860.0   18058.3   18801.7        .0    2271.0    1282.4        .0     449.7      68.9 100000.00
     .14      7.95     14.66       .00      .050      .042      .000      .000   1868.00   1250.00
 .010623      600.      880.      950.         2         0         0       .00    730.40   2030.00


*SECNO 30.330
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1461.0    2040.0  TYPE=      1  TARGET=      579.000
   30.330      9.96   1891.96   1891.96   1891.74   1894.55      2.59     11.75       .20   1884.00
  35900.0   12051.7   23848.3        .0    1641.2    1593.4        .0     540.9      86.4 100000.00
     .17      7.34     14.97       .00      .050      .042      .000      .000   1882.00   1461.00
 .009348     1150.     1200.     1180.         3        15         0       .00    578.96   2039.96


*SECNO 30.640

3470 ENCROACHMENT STATIONS=     1743.0    2070.0  TYPE=      1  TARGET=      327.000
   30.640      9.84   1909.84       .00   1909.94   1912.90      3.06     18.11       .24   1901.00
  35900.0   20061.8   15838.2        .0    1579.4    1016.0        .0     656.9     104.6 100000.00
     .20     12.70     15.59       .00      .050      .042      .000      .000   1900.00   1743.00
 .011999     1800.     1650.     1500.         4         0         0       .00    327.00   2070.00


*SECNO 30.860

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.60


3470 ENCROACHMENT STATIONS=     1901.0    2592.0  TYPE=      1  TARGET=      691.000
   30.860     10.72   1919.72       .00   1918.71   1920.79      1.07      7.28       .60   1912.00
  35900.0    1813.8   11757.7   22328.5     270.7    1106.6    3245.1     743.7     116.9   1912.00
     .23      6.70     10.62      6.88      .050      .042      .050      .000   1909.00   1901.00
 .004670      750.     1150.     1150.         3         0         0       .00    691.00   2592.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 31.060

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 1898.0 2681.0 TYPE= 1 TARGET= 783.000

31.060	5.76	1928.76	1928.76	1928.19	1930.81	2.05	7.81	.49	1924.00
35900.0	1966.8	10608.9	23324.3	185.3	761.9	2272.7	826.4	132.3	1924.00
.26	10.61	13.92	10.26	.050	.042	.050	.000	1923.00	1898.00
.019330	1300.	1030.	850.	2	11	0	.00	783.00	2681.00

*SECNO 31.300

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.77

3470 ENCROACHMENT STATIONS= 1950.0 2505.0 TYPE= 1 TARGET= 555.000

31.300	10.07	1942.07	.00	1941.55	1943.52	1.44	12.53	.18	1936.00
35900.0	.0	15077.4	20822.6	.0	1311.1	2590.3	927.2	151.1	1934.00
.29	.00	11.50	8.04	.000	.042	.050	.000	1932.00	1950.00
.006196	1350.	1300.	1200.	5	0	0	.00	555.00	2505.00

*SECNO 31.480

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 1880.0 2431.0 TYPE= 1 TARGET= 551.000

31.480	6.94	1949.94	.00	1949.43	1952.14	2.20	8.24	.38	1944.00
35900.0	.0	21339.3	14560.7	.0	1610.8	1516.8	1006.5	163.6	1944.00
.32	.00	13.25	9.60	.000	.042	.050	.000	1943.00	1880.00
.012063	1000.	960.	1000.	3	0	0	.00	551.00	2431.00

*SECNO 31.650

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


3470 ENCROACHMENT STATIONS=     1724.0    2225.0  TYPE=      1  TARGET=      501.000
   31.650     10.07   1958.07       .00   1957.54   1960.19      2.11      8.03       .03   1952.00
  35900.0    8964.3  23150.1    3785.6    1133.6    1734.0     521.5    1070.8     174.0   1952.00
      .34      7.91     13.35      7.26      .050      .042      .050      .000   1948.00   1724.00
 .007492      900.      850.      850.         3         0         0       .00    501.00   2225.00


*SECNO 31.820

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     1789.0    2090.0  TYPE=      1  TARGET=      301.000
   31.820     10.56   1965.56       .00   1965.03   1968.73      3.17      8.02       .53   1956.00
  35900.0   12211.9  23688.1        .0    1037.9    1535.2        .0    1132.5     182.3 100000.00
      .36     11.77     15.43       .00      .050      .042      .000      .000   1955.00   1789.00
 .010566      900.      920.      800.         2         0         0       .00    301.00   2090.00


*SECNO 32.030

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.86


3470 ENCROACHMENT STATIONS=     1625.0    2060.0  TYPE=      1  TARGET=      435.000
   32.030     11.20   1974.20       .00   1973.41   1975.28      1.07      5.91       .63   1964.00
  35900.0   17251.8  18648.2        .0    2372.7    2033.6        .0    1224.6     192.0 100000.00
      .39      7.27      9.17       .00      .050      .042      .000      .000   1963.00   1625.00
 .003053     1180.     1120.     1060.         3         0         0       .00    435.00   2060.00


*SECNO 32.240

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1713.0    2080.0  TYPE=      1  TARGET=      367.000
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 SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
 Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
 TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
 SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 32.240       8.73   1979.73    1979.73    1979.34    1983.11       3.37       5.91       1.15    1972.00
35900.0    17771.8   18128.2         .0     1470.5     1070.4         .0     1305.4      201.3  100000.00
    .41      12.09     16.94        .00       .050       .042       .000       .000    1971.00    1713.00
.014885       960.     1080.      1080.          3         15          0        .00     367.00    2080.00

*SECNO 32.470

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.70

3470 ENCROACHMENT STATIONS=     1706.0    2208.0  TYPE=      1  TARGET=      502.000
 32.470      10.30   1992.30        .00   1991.58   1993.74       1.44      10.05        .58    1984.00
35900.0   10962.6   17762.2     7175.2     1454.9    1581.1      893.4     1397.0      213.6    1984.00
    .45       7.53     11.23       8.03       .050       .042       .050       .000    1982.00    1706.00
.005156      1250.     1210.      1250.          3          0          0        .00     502.00    2208.00

*SECNO 32.660

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1680.0    2050.0  TYPE=      1  TARGET=      370.000
 32.660      11.02   2001.02    2001.02   2001.00   2004.35       3.33       7.29        .95    1992.00
35000.0   14534.4   20465.6         .0     1391.3    1202.6         .0     1470.1      223.3  100000.00
    .47      10.45     17.02        .00       .050       .042       .000       .000    1990.00    1680.00
.011802       950.     1000.       980.          3          8          0        .00     370.00    2050.00

*SECNO 32.910

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     1767.7    2228.5  TYPE=      1  TARGET=      460.850
   32.910      9.92   2013.92       .00   2013.11   2015.66      1.74     10.83       .48   2004.00
  35000.0    7230.9   21190.2    6579.0     926.0    1774.6     783.4    1564.4     236.2   2006.00
      .51      7.81     11.94      8.40      .050      .042      .050      .000   2004.00   1767.69
 .005791     1350.     1350.     1370.         4         0         0       .00    460.85   2228.54


*SECNO 33.110

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1668.3    2072.5  TYPE=      1  TARGET=      404.180
   33.110     10.48   2024.48   2024.48   2024.54   2027.66      3.18      8.80       .72   2016.00
  35000.0   17654.8   16497.2     848.0    1615.0     948.1     92.4    1641.4     247.1   2016.00
      .53     10.93     17.40      9.18      .050      .042      .050      .000   2014.00   1668.50
 .012065     1160.     1060.     1000.         1         8         0       .00    403.82   2072.32


CCHV=     .300 CEHV=     .500
*SECNO 33.320

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3470 ENCROACHMENT STATIONS=     1898.9    2237.2  TYPE=      1  TARGET=      338.330
   33.320     14.99   2033.99       .00   2033.93   2036.10      2.11      8.11       .32   2024.00
  35000.0    1505.0   18363.5   15131.5     193.5    1349.2    1660.9    1712.2     256.0   2020.00
      .55      7.78     13.61      9.11      .050      .045      .050      .000   2019.00   1898.87
 .005304     1030.     1080.     1040.         3         0         0       .00    338.33   2237.20


CCHV=     .100 CEHV=     .300
*SECNO 33.480

3301 HV CHANGED MORE THAN HVINS
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1949.7    2229.1  TYPE=      1  TARGET=      279.420
            SEC. 200 FEET UPSTREAM OF OCOTILLO WASH CONFLUENCE
   33.480     16.74   2042.74   2042.74   2042.74   2046.88      4.14      5.22       .61   2028.00
  35000.0    1353.2  22393.2   11253.6     145.3    1179.8    1119.1    1762.6     261.5   2032.00
      .57      9.31     18.98     10.06      .050      .045      .050      .000   2026.00   1949.72
 .008662      820.      800.      750.        20         8         0       .00    279.42   2229.14


CCHV=     .100 CEHV=     .300
*SECNO 33.660

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1926.3    2077.5  TYPE=      1  TARGET=      151.230
   33.660     17.20   2055.20   2055.20   2054.99   2061.56      6.36      8.07       .67   2040.00
  35000.0    2624.1  29428.2    2947.6     259.9    1361.2     288.8    1809.1     266.1   2040.00
      .58     10.10     21.62     10.21      .050      .042      .050      .000   2038.00   1926.26
 .008614      950.      940.      910.        20         8         0       .00    151.23   2077.49


*SECNO 33.780

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.15


3470 ENCROACHMENT STATIONS=     1830.0    2113.3  TYPE=      1  TARGET=      283.300
   33.780     18.83   2062.33       .00   2062.38   2063.78      1.45      1.73       .49   2048.00
  35000.0    4400.5  27727.3    2872.3     736.7    2665.7     447.1    1842.0     268.6   2044.00
      .59      5.97     10.40      6.42      .050      .042      .050      .000   2043.50   1830.44
 .001866      460.      500.      530.         3         0         0       .00    282.77   2113.21
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 33.840

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

3470 ENCROACHMENT STATIONS=     1884.2    2143.8  TYPE=      1  TARGET=      259.640
   33.840     14.25   2063.25       .00   2063.29   2064.84      1.59      1.01       .04   2052.00
  23600.0    2249.3   15406.7    5944.0     336.2    1349.0     831.8    1874.3     271.3   2052.00
      .61      6.69     11.42      7.15      .050      .042      .050      .000   2049.00   1884.75
 .003260      430.      440.      460.         2         0         0       .00    258.86   2143.61

CCHV=     .300 CEHV=     .500
*SECNO 34.050

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .62

3470 ENCROACHMENT STATIONS=     1921.2    2374.8  TYPE=      1  TARGET=      453.570
   34.050      9.48   2068.48       .00   2068.48   2070.63      2.14      5.51       .28   2064.00
  23600.0     121.8   15907.4    7570.9      27.0    1177.6    1108.3    1935.6     280.4   2064.00
      .63      4.51     13.51      6.83      .050      .042      .050      .000   2059.00   1921.22
 .008593     1170.     1100.     1100.         4         0         0       .00    453.57   2374.79

*SECNO 34.220

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1917.0    2175.8  TYPE=      1  TARGET=      258.840
   34.220     14.14   2078.14   2078.14   2078.14   2081.57      3.43      8.59       .64   2072.00
  23600.0     164.7   20165.3    3270.0      29.3    1279.9     420.5    1977.8     287.8   2072.00
      .65      5.62     15.76      7.78      .050      .042      .050      .000   2064.00   1916.99
 .010493      870.      900.      930.         3        14         0       .00    258.84   2175.83
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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CCHV=     .300 CEHV=     .500
*SECNO 34.440

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     1698.0    2142.0  TYPE=      1  TARGET=      444.080
    34.440      8.81   2088.81       .00   2088.81   2089.87      1.06      7.59       .71   2084.00
   23600.0   10544.2   11547.2    1508.5    1447.3    1241.6     269.5    2037.5     296.8   2084.00
       .69      7.29      9.30      5.60      .050      .045      .050      .000   2080.00   1697.97
   .004770     1030.     1130.     1200.         3         0         0       .00    444.05   2142.03


*SECNO 34.640

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1736.6    2099.1  TYPE=      1  TARGET=      362.460
    34.640      9.64   2099.64   2099.64   2099.62   2102.23      2.59      7.84       .77   2092.00
   23600.0   10768.2    9162.3    3669.6    1075.6     558.6     355.2    2098.4     306.8   2092.00
       .71     10.01     16.40     10.33      .050      .045      .050      .000   2090.00   1736.60
   .012705     1100.     1050.     1020.         7         8         0       .00    362.46   2099.06


CCHV=     .300 CEHV=     .500
*SECNO 34.840
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1692.2    2123.3  TYPE=      1  TARGET=      431.040
    34.840     13.13   2115.13   2115.13   2115.11   2117.46      2.33     10.39       .08   2108.00
   23600.0   11873.1    9827.6    1899.3    1449.8     596.7     296.2    2147.7     315.7   2108.00
       .74      8.19     16.47      6.41      .050      .042      .050      .000   2102.00   1692.24
   .008656      950.     1040.     1070.         2        11         0       .00    431.04   2123.28
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 35.030
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1643.5    2229.4  TYPE=      1  TARGET=      585.890
   35.030     11.63   2124.63   2124.63   2124.86   2126.79      2.16      7.35       .05   2120.00
  23600.0    4148.6  16388.4    3062.9     856.2    1194.3     545.3    2203.6     327.1   2116.00
      .76      4.85     13.72      5.62      .050      .042      .050      .000   2113.00   1643.90
 .006379      950.     1020.     1010.         2        15         0       .00    580.28   2224.18


*SECNO 35.230
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1905.1    2620.4  TYPE=      1  TARGET=      715.320
   35.230     12.98   2136.98   2136.98   2136.96   2139.15      2.17      5.90       .01   2128.00
  23600.0     348.0  18483.6    4768.5      67.1    1402.2    1143.4    2265.7     342.4   2128.00
      .79      5.18     13.18      4.17      .050      .042      .050      .000   2124.00   1905.07
 .005038     1080.     1050.     1000.         4        12         0       .00    715.32   2620.39


*SECNO 35.490
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     1634.2    2059.1  TYPE=      1  TARGET=      424.870
            THIS IS THE UPSTREAM LIMIT OF THE STUDY
   35.490     11.48   2148.48   2148.48   2148.47   2151.12      2.64      8.00       .23   2140.00
  23600.0    6572.3  16518.3     509.4    1003.8    1103.2      80.9    2337.6     359.1   2140.00
      .82      6.55     14.97      6.29      .050      .042      .050      .000   2137.00   1634.18
 .007356     1250.     1350.     1260.         7        15         0       .00    424.87   2059.05
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THIS RUN EXECUTED 19FEB97 10:00:35

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST
*	29.000	36860.00	1833.31	1833.31	15.63	.00	1965.00	2080.00	.00	.00	1948.37	2634.71
*	29.000	36860.00	1833.03	1833.03	16.79	.00	1965.00	2080.00	1940.00	2386.00	1948.71	2386.00
*	29.190	36860.00	1841.12	1841.12	15.01	1020.00	1940.00	2060.00	.00	.00	1937.21	2824.77
	29.190	36860.00	1841.19	.00	16.28	1020.00	1940.00	2060.00	1940.00	2386.00	1940.00	2386.00
	29.390	36860.00	1848.61	.00	12.63	1020.00	1960.00	2050.00	.00	.00	1492.02	2394.58
	29.390	36860.00	1849.55	.00	12.23	1020.00	1960.00	2050.00	1531.00	2082.00	1531.00	2082.00
*	29.570	36860.00	1858.97	1858.97	15.64	990.00	1950.00	2050.00	.00	.00	1119.17	2058.66
*	29.570	36860.00	1859.00	1859.00	16.63	990.00	1950.00	2050.00	1520.00	2050.00	1520.00	2050.00
*	29.700	36860.00	1866.22	1866.22	14.70	680.00	1915.00	2050.00	.00	.00	1347.66	2175.55
*	29.700	36860.00	1866.33	1866.33	16.02	680.00	1915.00	2050.00	1548.00	2083.00	1548.00	2083.00
*	29.730	36860.00	1868.85	.00	9.32	140.00	1890.00	2050.00	.00	.00	1185.77	2380.00
*	29.730	36860.00	1869.56	.00	10.47	140.00	1890.00	2050.00	1580.00	2100.00	1580.00	2100.00
	29.740	36860.00	1868.91	.00	9.80	20.00	1910.00	2050.00	.00	.00	1535.74	2390.00
	29.740	36860.00	1869.60	.00	11.39	20.00	1910.00	2050.00	1570.00	2100.00	1570.00	2100.00
*	29.800	36860.00	1869.61	1869.61	15.53	330.00	1930.00	2050.00	.00	.00	1337.96	2064.01
*	29.800	36860.00	1870.45	.00	14.51	330.00	1930.00	2050.00	1550.00	2050.00	1550.00	2050.00
*	29.940	36860.00	1875.22	.00	10.97	750.00	1950.00	2060.00	.00	.00	957.83	2069.02
*	29.940	36860.00	1875.71	.00	11.65	750.00	1950.00	2060.00	1250.00	2060.00	1250.00	2060.00
*	30.100	36860.00	1880.24	1880.24	13.24	880.00	1880.00	2030.00	.00	.00	779.08	2073.80
*	30.100	36860.00	1880.02	.00	14.66	880.00	1880.00	2030.00	1250.00	2030.00	1250.00	2030.00
*	30.330	35900.00	1891.74	1891.74	13.74	1200.00	1870.00	2040.00	.00	.00	1197.70	2039.74
*	30.330	35900.00	1891.96	1891.96	14.97	1200.00	1870.00	2040.00	1461.00	2040.00	1461.00	2039.96

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST
*	30.640	35900.00	1909.94	1909.94	14.19	1650.00	1950.00	2070.00	.00	.00	1276.51	2268.89
	30.640	35900.00	1909.84	.00	15.59	1650.00	1950.00	2070.00	1743.00	2070.00	1743.00	2070.00
	30.860	35900.00	1918.71	.00	11.13	1150.00	1940.00	2060.00	.00	.00	1664.10	2673.53
*	30.860	35900.00	1919.72	.00	10.62	1150.00	1940.00	2060.00	1901.00	2592.00	1901.00	2592.00
*	31.060	35900.00	1928.19	1928.19	13.16	1030.00	1940.00	2100.00	.00	.00	1784.41	2776.30
*	31.060	35900.00	1928.76	1928.76	13.92	1030.00	1940.00	2100.00	1898.00	2681.00	1898.00	2681.00
*	31.300	35900.00	1941.55	.00	11.25	1300.00	1950.00	2100.00	.00	.00	1846.74	2612.64
*	31.300	35900.00	1942.07	.00	11.50	1300.00	1950.00	2100.00	1950.00	2505.00	1950.00	2505.00
	31.480	35900.00	1949.43	1949.30	12.68	960.00	1880.00	2130.00	.00	.00	1857.37	2876.81
	31.480	35900.00	1949.94	.00	13.25	960.00	1880.00	2130.00	1880.00	2431.00	1880.00	2431.00
	31.650	35900.00	1957.54	.00	12.92	850.00	1930.00	2120.00	.00	.00	1572.30	2504.09
	31.650	35900.00	1958.07	.00	13.35	850.00	1930.00	2120.00	1724.00	2225.00	1724.00	2225.00
	31.820	35900.00	1965.03	.00	15.04	920.00	1920.00	2090.00	.00	.00	1728.54	2166.80
	31.820	35900.00	1965.56	.00	15.43	920.00	1920.00	2090.00	1789.00	2090.00	1789.00	2090.00
*	32.030	35900.00	1973.41	.00	9.29	1120.00	1870.00	2060.00	.00	.00	1588.52	2137.69
*	32.030	35900.00	1974.20	.00	9.17	1120.00	1870.00	2060.00	1625.00	2060.00	1625.00	2060.00
*	32.240	35900.00	1979.34	1979.34	16.29	1080.00	1950.00	2080.00	.00	.00	1629.56	2135.07
*	32.240	35900.00	1979.73	1979.73	16.94	1080.00	1950.00	2080.00	1713.00	2080.00	1713.00	2080.00
*	32.470	35900.00	1991.58	.00	11.13	1210.00	1920.00	2090.00	.00	.00	1599.27	2284.89
*	32.470	35900.00	1992.30	.00	11.23	1210.00	1920.00	2090.00	1706.00	2208.00	1706.00	2208.00
*	32.660	35000.00	2001.00	2001.00	15.67	1000.00	1930.00	2050.00	.00	.00	1467.65	2069.68
*	32.660	35000.00	2001.02	2001.02	17.02	1000.00	1930.00	2050.00	1680.00	2050.00	1680.00	2050.00
	32.910	35000.00	2013.11	.00	13.39	1350.00	1920.00	2110.00	.00	.00	1767.69	2228.54
*	32.910	35000.00	2013.92	.00	11.94	1350.00	1920.00	2110.00	1767.69	2228.54	1767.69	2228.54
*	33.110	35000.00	2024.54	2024.54	17.23	1060.00	1950.00	2050.00	.00	.00	1668.30	2072.49
*	33.110	35000.00	2024.48	2024.48	17.40	1060.00	1950.00	2050.00	1668.31	2072.49	1668.50	2072.32
*	33.320	35000.00	2033.93	.00	13.70	1080.00	1930.00	2030.00	.00	.00	1898.87	2237.20
*	33.320	35000.00	2033.99	.00	13.61	1080.00	1930.00	2030.00	1898.87	2237.20	1898.87	2237.20
*	33.480	35000.00	2042.74	2042.74	18.99	800.00	1975.00	2050.00	.00	.00	1949.72	2229.14
*	33.480	35000.00	2042.74	2042.74	18.98	800.00	1975.00	2050.00	1949.72	2229.14	1949.72	2229.14
*	33.660	35000.00	2054.99	2054.99	21.96	940.00	1960.00	2040.00	.00	.00	1926.26	2077.48
*	33.660	35000.00	2055.20	2055.20	21.62	940.00	1960.00	2040.00	1926.26	2077.49	1926.26	2077.49
*	33.780	35000.00	2062.38	.00	10.36	500.00	1920.00	2070.00	.00	.00	1830.10	2113.32
*	33.780	35000.00	2062.33	.00	10.40	500.00	1920.00	2070.00	1830.04	2113.34	1830.44	2113.21

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST
*	33.840	23600.00	2063.29	.00	11.37	440.00	1940.00	2040.00	.00	.00	1884.46	2143.73
*	33.840	23600.00	2063.25	.00	11.42	440.00	1940.00	2040.00	1884.20	2143.84	1884.75	2143.61
*	34.050	23600.00	2068.48	.00	13.52	1100.00	1940.00	2080.00	.00	.00	1921.06	2374.80
*	34.050	23600.00	2068.48	.00	13.51	1100.00	1940.00	2080.00	1921.22	2374.79	1921.22	2374.79
*	34.220	23600.00	2078.14	2078.14	15.77	900.00	1930.00	2070.00	.00	.00	1916.99	2175.82
*	34.220	23600.00	2078.14	2078.14	15.76	900.00	1930.00	2070.00	1916.99	2175.83	1916.99	2175.83
*	34.440	23600.00	2088.81	.00	9.29	1130.00	1930.00	2080.00	.00	.00	1697.96	2142.04
*	34.440	23600.00	2088.81	.00	9.30	1130.00	1930.00	2080.00	1697.96	2142.04	1697.97	2142.03
*	34.640	23600.00	2099.62	2099.62	16.46	1050.00	1970.00	2030.00	.00	.00	1736.58	2099.06
*	34.640	23600.00	2099.64	2099.64	16.40	1050.00	1970.00	2030.00	1736.60	2099.06	1736.60	2099.06
*	34.840	23600.00	2115.11	2115.11	16.57	1040.00	1980.00	2030.00	.00	.00	1692.24	2123.29
*	34.840	23600.00	2115.13	2115.13	16.47	1040.00	1980.00	2030.00	1692.24	2123.28	1692.24	2123.28
*	35.030	23600.00	2124.86	2124.86	13.09	1020.00	1940.00	2050.00	.00	.00	1643.49	2229.39
*	35.030	23600.00	2124.63	2124.63	13.72	1020.00	1940.00	2050.00	1643.49	2229.38	1643.90	2224.18
*	35.230	23600.00	2136.96	2136.96	13.22	1050.00	1920.00	2035.00	.00	.00	1905.07	2620.39
*	35.230	23600.00	2136.98	2136.98	13.18	1050.00	1920.00	2035.00	1905.07	2620.39	1905.07	2620.39
*	35.490	23600.00	2148.47	2148.47	15.00	1350.00	1940.00	2040.00	.00	.00	1634.13	2059.06
*	35.490	23600.00	2148.48	2148.48	14.97	1350.00	1940.00	2040.00	1634.18	2059.05	1634.18	2059.05

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	29.000	798.41	22982.49	13079.10	7.21	15.63	6.60	1840.00	1833.31	.00	686.35	1820.00	1.58
*	29.000	822.47	24145.37	11892.17	7.75	16.79	7.91	1840.00	1833.03	.00	437.28	1820.00	1.41
*	29.190	2.52	20919.61	15937.88	1.62	15.01	6.79	1846.00	1841.12	7.81	887.56	1828.00	1.52
	29.190	.00	22830.48	14029.52	.00	16.28	9.16	1846.00	1841.19	8.16	446.00	1828.00	1.24
	29.390	21602.48	11617.04	3640.48	7.65	12.63	6.65	1856.00	1848.61	7.49	809.05	1838.00	1.21
	29.390	22549.55	12287.16	2023.29	7.50	12.23	7.45	1856.00	1849.55	8.36	551.00	1838.00	1.18
*	29.570	23094.71	13714.72	50.57	8.71	15.64	3.93	1869.00	1858.97	10.36	862.19	1848.00	1.28
*	29.570	22224.78	14635.22	.00	10.60	16.63	.00	1869.00	1859.00	9.45	530.00	1848.00	1.16
*	29.700	10356.12	23301.33	3202.55	6.28	14.70	6.25	1876.00	1866.22	7.25	827.89	1854.00	1.56
*	29.700	9777.02	25628.75	1454.23	7.68	16.02	7.62	1876.00	1866.33	7.33	535.00	1854.00	1.36
*	29.730	9535.92	17938.29	9385.79	4.99	9.32	5.13	1868.00	1868.85	2.63	1143.15	1856.00	1.31
*	29.730	12017.39	21348.09	3494.52	6.13	10.47	6.94	1868.00	1869.56	3.23	520.00	1856.00	1.20
	29.740	9078.28	16828.17	10953.55	5.03	9.80	5.53	1868.00	1868.91	.06	854.26	1856.00	1.32
	29.740	12251.84	20657.68	3950.48	6.05	11.39	7.45	1868.00	1869.60	.04	530.00	1856.00	1.28
*	29.800	19970.93	16662.66	226.42	8.32	15.53	5.76	1876.00	1869.61	.69	726.06	1860.00	1.33
*	29.800	19822.94	17037.06	.00	9.09	14.51	.00	1876.00	1870.45	.85	500.00	1860.00	1.17
*	29.940	22990.94	13750.06	119.00	5.47	10.97	3.66	1887.00	1875.22	5.61	1057.33	1862.00	1.41
*	29.940	21610.83	15249.17	.00	6.41	11.65	.00	1896.00	1875.71	5.26	790.56	1862.00	1.29
*	30.100	18222.44	17432.65	1204.91	6.39	13.24	6.67	1888.00	1880.24	5.03	1250.82	1868.00	1.46
*	30.100	18058.32	18801.68	.00	7.95	14.66	.00	1908.00	1880.02	4.30	730.40	1868.00	1.31
*	30.330	14516.08	21383.92	.00	6.35	13.74	.00	1912.00	1891.74	11.50	842.05	1882.00	1.48
*	30.330	12051.68	23848.31	.00	7.34	14.97	.00	1920.00	1891.96	11.95	578.96	1882.00	1.35
*	30.640	20064.60	14582.54	1252.85	9.57	14.19	4.87	1919.00	1909.94	18.20	927.44	1900.00	1.19
	30.640	20061.85	15838.15	.00	12.70	15.59	.00	1944.00	1909.84	17.88	327.00	1900.00	1.03
	30.860	3707.72	10960.72	21231.56	5.23	11.13	6.95	1930.00	1918.71	8.77	1009.43	1909.00	1.21
*	30.860	1813.82	11757.68	22328.50	6.70	10.62	6.88	1940.00	1919.72	9.88	691.00	1909.00	1.14
*	31.060	5051.87	8825.49	22022.64	9.72	13.16	9.64	1941.00	1928.19	9.48	991.89	1923.00	1.06
*	31.060	1966.76	10608.92	23324.32	10.61	13.92	10.26	1960.00	1928.76	9.04	783.00	1923.00	1.06
*	31.300	1569.65	13869.38	20460.98	5.20	11.25	7.48	1952.00	1941.55	13.36	765.90	1932.00	1.16
*	31.300	.00	15077.38	20822.62	.00	11.50	8.04	1952.00	1942.07	13.31	555.00	1932.00	1.10
	31.480	381.79	18805.22	16712.99	6.21	12.68	8.39	1980.00	1949.43	7.88	959.83	1943.00	1.14
	31.480	.00	21339.31	14560.69	.00	13.25	9.60	1980.00	1949.94	7.86	551.00	1943.00	1.08

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
	31.650	9693.00	21093.35	5113.65	6.73	12.92	5.91	1980.00	1957.54	8.11	931.79	1948.00	1.39
	31.650	8964.34	23150.08	3785.57	7.91	13.35	7.26	1980.00	1958.07	8.14	501.00	1948.00	1.21
	31.820	12976.64	21750.49	1172.88	10.77	15.04	6.15	1980.00	1965.03	7.48	438.26	1955.00	1.13
	31.820	12211.85	23688.15	.00	11.77	15.43	.00	1980.00	1965.56	7.49	301.00	1955.00	1.05
*	32.030	17095.60	17501.00	1303.40	7.13	9.29	4.70	2000.00	1973.41	8.39	549.17	1963.00	1.08
*	32.030	17251.76	18648.24	.00	7.27	9.17	.00	2000.00	1974.20	8.64	435.00	1963.00	1.04
*	32.240	17630.81	16610.79	1658.40	10.53	16.29	8.20	2000.00	1979.34	5.93	505.51	1971.00	1.17
*	32.240	17771.84	18128.16	.00	12.09	16.94	.00	2000.00	1979.73	5.53	367.00	1971.00	1.09
*	32.470	11352.43	16218.73	8328.85	6.87	11.13	7.44	2020.00	1991.58	12.24	685.62	1982.00	1.16
*	32.470	10962.58	17762.21	7175.21	7.53	11.23	8.03	2020.00	1992.30	12.56	502.00	1982.00	1.11
*	32.660	15564.70	18793.00	642.29	8.17	15.67	7.26	2020.00	2001.00	9.42	602.03	1990.00	1.35
*	32.660	14534.42	20465.57	.00	10.45	17.02	.00	2020.00	2001.02	8.72	370.00	1990.00	1.18
	32.910	6877.36	21703.70	6418.94	8.57	13.39	9.33	2028.00	2013.11	12.11	460.86	2004.00	1.12
*	32.910	7230.87	21190.16	6578.97	7.81	11.94	8.40	2028.00	2013.92	12.90	460.85	2004.00	1.11
*	33.110	17704.01	16443.44	852.55	10.85	17.23	9.09	2040.00	2024.54	11.44	404.19	2014.00	1.18
*	33.110	17654.76	16497.24	848.00	10.93	17.40	9.18	2060.00	2024.48	10.56	403.82	2014.00	1.18
*	33.320	1498.29	18401.41	15100.29	7.82	13.70	9.16	2052.00	2033.93	9.39	338.33	2019.00	1.14
*	33.320	1504.97	18363.54	15131.49	7.78	13.61	9.11	2052.00	2033.99	9.51	338.33	2019.00	1.14
*	33.480	1352.93	22396.03	11251.04	9.32	18.99	10.06	2072.00	2042.74	8.81	279.42	2026.00	1.30
*	33.480	1353.18	22393.21	11253.61	9.31	18.98	10.06	2072.00	2042.74	8.75	279.42	2026.00	1.30
*	33.660	2577.51	29528.05	2894.44	10.19	21.96	10.30	2080.00	2054.99	12.25	151.22	2038.00	1.22
*	33.660	2624.15	29428.21	2947.64	10.10	21.62	10.21	2080.00	2055.20	12.46	151.23	2038.00	1.22
*	33.780	4415.01	27709.20	2875.79	5.95	10.36	6.40	2080.00	2062.38	7.39	283.22	2043.50	1.13
*	33.780	4400.46	27727.25	2872.29	5.97	10.40	6.42	2080.00	2062.33	7.13	282.77	2043.50	1.13
*	33.840	2255.52	15388.53	5955.96	6.66	11.37	7.12	2092.00	2063.29	.91	259.27	2049.00	1.16
*	33.840	2249.29	15406.69	5944.01	6.69	11.42	7.15	2092.00	2063.25	.92	258.86	2049.00	1.16
*	34.050	121.36	15914.58	7564.05	4.51	13.52	6.84	2120.00	2068.48	5.18	453.74	2059.00	1.33
*	34.050	121.75	15907.39	7570.85	4.51	13.51	6.83	2120.00	2068.48	5.23	453.57	2059.00	1.33
*	34.220	164.33	20170.16	3265.51	5.62	15.77	7.78	2120.00	2078.14	9.66	258.83	2064.00	1.19
*	34.220	164.74	20165.31	3269.95	5.62	15.76	7.78	2120.00	2078.14	9.66	258.84	2064.00	1.19
*	34.440	10545.03	11545.60	1509.37	7.28	9.29	5.60	2128.00	2088.81	10.68	444.08	2080.00	1.07
*	34.440	10544.24	11547.24	1508.52	7.29	9.30	5.60	2128.00	2088.81	10.67	444.05	2080.00	1.07
*	34.640	10755.20	9178.08	3666.72	10.04	16.46	10.36	2140.00	2099.62	10.81	362.48	2090.00	1.19
*	34.640	10768.15	9162.26	3669.59	10.01	16.40	10.33	2140.00	2099.64	10.83	362.46	2090.00	1.19

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	34.840	11850.39	9862.12	1887.49	8.22	16.57	6.43	2140.00	2115.11	15.48	431.05	2102.00	1.48
*	34.840	11873.08	9827.58	1899.34	8.19	16.47	6.41	2140.00	2115.13	15.49	431.04	2102.00	1.48
*	35.030	4433.13	15967.22	3199.65	4.79	13.09	5.46	2160.00	2124.86	9.76	585.90	2113.00	1.66
*	35.030	4148.64	16388.41	3062.95	4.85	13.72	5.62	2160.00	2124.63	9.50	580.28	2113.00	1.68
*	35.230	347.44	18515.83	4736.74	5.19	13.22	4.18	2180.00	2136.96	12.10	715.32	2124.00	1.71
*	35.230	347.97	18483.56	4768.46	5.18	13.18	4.17	2180.00	2136.98	12.35	715.32	2124.00	1.72
*	35.490	6557.26	16534.19	508.55	6.56	15.00	6.30	2200.00	2148.47	11.51	424.93	2137.00	1.46
*	35.490	6572.27	16518.34	509.39	6.55	14.97	6.29	2200.00	2148.48	11.51	424.87	2137.00	1.46

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	29.000	.00	.00	1835.93	2.62	.00	.00	65.49	.00	13.31	50.00	42.00	50.00
*	29.000	.00	.00	1836.23	3.20	.00	.00	77.78	.00	13.03	50.00	42.00	50.00
*	29.190	1020.00	7.84	1843.41	2.29	6.69	.10	70.93	80.66	13.12	50.00	42.00	50.00
	29.190	1020.00	7.84	1844.23	3.04	7.96	.05	83.84	66.62	13.19	.00	42.00	50.00
	29.390	1020.00	9.80	1849.99	1.38	6.31	.27	57.66	171.14	10.61	50.00	42.00	50.00
	29.390	1020.00	9.80	1850.91	1.36	6.17	.51	48.12	147.86	11.55	50.00	42.00	50.00
*	29.570	990.00	10.10	1861.12	2.15	8.02	.39	111.35	264.17	10.97	50.00	42.00	50.00
*	29.570	990.00	10.10	1861.76	2.76	7.65	.70	130.33	233.97	11.00	50.00	42.00	.00
*	29.700	680.00	8.82	1868.57	2.35	5.77	.10	65.84	321.56	12.22	50.00	42.00	50.00
*	29.700	680.00	8.82	1869.38	3.05	6.77	.15	77.16	281.70	12.33	50.00	42.00	50.00
*	29.730	140.00	14.29	1869.71	.86	.70	.45	25.22	342.85	12.85	50.00	42.00	50.00
*	29.730	140.00	14.29	1870.80	1.25	.88	.54	29.48	300.94	13.56	50.00	42.00	50.00
	29.740	20.00	.00	1869.83	.92	.09	.03	27.18	347.98	12.91	50.00	42.00	50.00
	29.740	20.00	.00	1871.01	1.41	.13	.08	34.14	305.73	13.60	50.00	42.00	50.00
*	29.800	330.00	12.12	1871.88	2.28	1.16	.68	105.08	371.32	9.61	50.00	42.00	50.00
*	29.800	330.00	12.12	1872.65	2.20	1.24	.40	87.20	325.03	10.45	50.00	42.00	.00
*	29.940	750.00	2.67	1876.20	.99	3.93	.39	38.02	437.51	13.22	50.00	42.00	50.00
*	29.940	750.00	2.67	1876.96	1.25	4.02	.29	44.31	384.64	13.71	50.00	42.00	.00
*	30.100	880.00	6.82	1881.87	1.62	3.82	.32	78.07	514.41	12.24	50.00	42.00	50.00
*	30.100	880.00	6.82	1882.20	2.18	4.77	.47	106.23	449.67	12.02	50.00	42.00	.00
*	30.330	1200.00	11.67	1893.74	2.00	9.36	.19	81.09	624.26	9.74	50.00	42.00	.00
*	30.330	1200.00	11.67	1894.55	2.59	11.75	.20	93.48	540.92	9.96	50.00	42.00	.00
*	30.640	1650.00	10.91	1912.02	2.08	14.83	.04	91.89	768.21	9.94	50.00	42.00	50.00
	30.640	1650.00	10.91	1912.90	3.06	18.11	.24	119.99	656.88	9.84	50.00	42.00	.00
	30.860	1150.00	7.83	1919.78	1.07	7.46	.30	59.88	862.68	9.71	50.00	42.00	50.00
*	30.860	1150.00	7.83	1920.79	1.07	7.28	.60	46.70	743.66	10.72	50.00	42.00	50.00
*	31.060	1030.00	13.59	1929.94	1.75	9.63	.34	204.88	952.70	5.19	50.00	42.00	50.00
*	31.060	1030.00	13.59	1930.81	2.05	7.81	.49	193.30	826.40	5.76	50.00	42.00	50.00
*	31.300	1300.00	6.92	1942.82	1.27	12.73	.14	61.09	1062.99	9.55	50.00	42.00	50.00
*	31.300	1300.00	6.92	1943.52	1.44	12.53	.18	61.96	927.18	10.07	.00	42.00	50.00
	31.480	960.00	11.46	1951.25	1.82	8.16	.28	119.59	1151.36	6.43	50.00	42.00	50.00
	31.480	960.00	11.46	1952.14	2.20	8.24	.38	120.63	1006.52	6.94	.00	42.00	50.00

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
	31.650	850.00	5.88	1959.33	1.79	8.07	.01	76.00	1225.15	9.54	50.00	42.00	50.00
	31.650	850.00	5.88	1960.19	2.11	8.03	.03	74.92	1070.76	10.07	50.00	42.00	50.00
	31.820	920.00	7.61	1967.83	2.80	7.99	.51	104.27	1294.68	10.03	50.00	42.00	50.00
	31.820	920.00	7.61	1968.73	3.17	8.02	.53	105.66	1132.50	10.56	50.00	42.00	.00
*	32.030	1120.00	7.14	1974.46	1.04	6.10	.53	32.37	1391.98	10.41	50.00	42.00	50.00
*	32.030	1120.00	7.14	1975.28	1.07	5.91	.63	30.53	1224.58	11.20	50.00	42.00	.00
*	32.240	1080.00	7.41	1982.14	2.80	5.98	.88	136.11	1478.78	8.34	50.00	42.00	50.00
*	32.240	1080.00	7.41	1983.11	3.37	5.91	1.15	148.85	1305.40	8.73	50.00	42.00	.00
*	32.470	1210.00	9.09	1992.88	1.30	10.28	.45	56.39	1579.87	9.58	50.00	42.00	50.00
*	32.470	1210.00	9.09	1993.74	1.44	10.05	.58	51.56	1397.02	10.30	50.00	42.00	50.00
*	32.660	1000.00	8.00	2003.52	2.52	6.89	.61	91.13	1662.74	11.00	50.00	42.00	50.00
*	32.660	1000.00	8.00	2004.35	3.33	7.29	.95	118.02	1470.06	11.02	50.00	42.00	.00
	32.910	1350.00	10.37	2015.31	2.20	11.69	.10	82.13	1760.60	9.11	50.00	42.00	50.00
*	32.910	1350.00	10.37	2015.66	1.74	10.83	.48	57.91	1564.42	9.92	50.00	42.00	50.00
*	33.110	1060.00	9.43	2027.66	3.12	10.60	.46	117.30	1833.33	10.54	50.00	42.00	50.00
*	33.110	1060.00	9.43	2027.66	3.18	8.80	.72	120.65	1641.44	10.48	50.00	42.00	50.00
*	33.320	1080.00	4.63	2036.07	2.13	8.11	.30	54.03	1904.18	14.93	50.00	45.00	50.00
*	33.320	1080.00	4.63	2036.10	2.11	8.11	.32	53.04	1712.23	14.99	50.00	45.00	50.00
*	33.480	800.00	8.75	2046.88	4.14	5.28	.60	86.69	1954.35	16.74	50.00	45.00	50.00
*	33.480	800.00	8.75	2046.88	4.14	5.22	.61	86.62	1762.58	16.74	50.00	45.00	50.00
*	33.660	940.00	12.77	2061.57	6.57	8.27	.73	90.36	2000.55	16.99	50.00	42.00	50.00
*	33.660	940.00	12.77	2061.56	6.36	8.07	.67	86.14	1809.12	17.20	50.00	42.00	50.00
*	33.780	500.00	11.00	2063.83	1.44	1.75	.51	18.45	2033.30	18.88	50.00	42.00	50.00
*	33.780	500.00	11.00	2063.78	1.45	1.73	.49	18.66	1841.97	18.83	50.00	42.00	50.00
*	33.840	440.00	12.50	2064.87	1.57	1.00	.04	32.16	2065.77	14.29	50.00	42.00	50.00
*	33.840	440.00	12.50	2064.84	1.59	1.01	.04	32.60	1874.29	14.25	50.00	42.00	50.00
*	34.050	1100.00	9.09	2070.63	2.15	5.47	.29	86.21	2127.16	9.48	50.00	42.00	50.00
*	34.050	1100.00	9.09	2070.63	2.14	5.51	.28	85.93	1935.57	9.48	50.00	42.00	50.00
*	34.220	900.00	5.56	2081.57	3.43	8.62	.64	105.25	2169.38	14.14	50.00	42.00	50.00
*	34.220	900.00	5.56	2081.57	3.43	8.59	.64	104.93	1977.84	14.14	50.00	42.00	50.00
*	34.440	1130.00	14.16	2089.87	1.06	7.59	.71	47.60	2229.05	8.81	50.00	45.00	50.00
*	34.440	1130.00	14.16	2089.87	1.06	7.59	.71	47.70	2037.50	8.81	50.00	45.00	50.00
*	34.640	1050.00	9.52	2102.23	2.61	7.86	.78	128.38	2289.85	9.62	50.00	45.00	50.00
*	34.640	1050.00	9.52	2102.23	2.59	7.84	.77	127.05	2098.37	9.64	50.00	45.00	50.00

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	34.840	1040.00	11.54	2117.46	2.36	10.53	.08	87.88	2338.96	13.11	50.00	42.00	50.00
*	34.840	1040.00	11.54	2117.46	2.33	10.39	.08	86.56	2147.70	13.13	50.00	42.00	50.00
*	35.030	1020.00	10.78	2126.79	1.93	6.92	.13	56.44	2396.21	11.86	50.00	42.00	50.00
*	35.030	1020.00	10.78	2126.79	2.16	7.35	.05	63.79	2203.57	11.63	50.00	42.00	50.00
*	35.230	1050.00	10.48	2139.15	2.19	5.59	.13	50.78	2459.83	12.96	50.00	42.00	50.00
*	35.230	1050.00	10.48	2139.15	2.17	5.90	.01	50.38	2265.69	12.98	50.00	42.00	50.00
*	35.490	1350.00	9.63	2151.12	2.65	8.05	.23	73.96	2531.48	11.47	50.00	42.00	50.00
*	35.490	1350.00	9.63	2151.12	2.64	8.00	.23	73.56	2337.59	11.48	50.00	42.00	50.00

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	29.000	.00	.00	.00	1820.00	36860.00	1833.31	1833.31	1835.93	65.49	15.63	3563.71	4554.88
*	29.000	.00	.00	.00	1820.00	36860.00	1833.03	1833.03	1836.23	77.78	16.79	3047.24	4179.48
*	29.190	1020.00	.00	.00	1828.00	36860.00	1841.12	1841.12	1843.41	70.93	15.01	3744.02	4376.52
	29.190	1020.00	.00	.00	1828.00	36860.00	1841.19	.00	1844.23	83.84	16.28	2934.04	4025.58
	29.390	1020.00	.00	.00	1838.00	36860.00	1848.61	.00	1849.99	57.66	12.63	4291.10	4854.39
	29.390	1020.00	.00	.00	1838.00	36860.00	1849.55	.00	1850.91	48.12	12.23	4281.56	5313.65
*	29.570	990.00	.00	.00	1848.00	36860.00	1858.97	1858.97	1861.12	111.35	15.64	3541.04	3493.06
*	29.570	990.00	.00	.00	1848.00	36860.00	1859.00	1859.00	1861.76	130.33	16.63	2975.88	3228.72
*	29.700	680.00	.00	.00	1854.00	36860.00	1866.22	1866.22	1868.57	65.84	14.70	3746.73	4542.63
*	29.700	680.00	.00	.00	1854.00	36860.00	1866.33	1866.33	1869.38	77.16	16.02	3063.77	4196.17
*	29.730	140.00	.00	.00	1856.00	36860.00	1868.85	.00	1869.71	25.22	9.32	5666.54	7340.19
*	29.730	140.00	.00	.00	1856.00	36860.00	1869.56	.00	1870.80	29.48	10.47	4503.42	6788.56
	29.740	20.00	.00	.00	1856.00	36860.00	1868.91	.00	1869.83	27.18	9.80	5504.78	7069.92
	29.740	20.00	.00	.00	1856.00	36860.00	1869.60	.00	1871.01	34.14	11.39	4369.72	6308.88
*	29.800	330.00	.00	.00	1860.00	36860.00	1869.61	1869.61	1871.88	105.08	15.53	3512.95	3595.76
*	29.800	330.00	.00	.00	1860.00	36860.00	1870.45	.00	1872.65	87.20	14.51	3354.72	3947.27
*	29.940	750.00	.00	.00	1862.00	36860.00	1875.22	.00	1876.20	38.02	10.97	5492.22	5977.63
*	29.940	750.00	.00	.00	1862.00	36860.00	1875.71	.00	1876.96	44.31	11.65	4679.99	5537.08
*	30.100	880.00	.00	.00	1868.00	36860.00	1880.24	1880.24	1881.87	78.07	13.24	4349.67	4171.59
*	30.100	880.00	.00	.00	1868.00	36860.00	1880.02	.00	1882.20	106.23	14.66	3553.42	3576.21
*	30.330	1200.00	.00	.00	1882.00	35900.00	1891.74	1891.74	1893.74	81.09	13.74	3842.92	3986.74
*	30.330	1200.00	.00	.00	1882.00	35900.00	1891.96	1891.96	1894.55	93.48	14.97	3234.58	3713.16
*	30.640	1650.00	.00	.00	1900.00	35900.00	1909.94	1909.94	1912.02	91.89	14.19	3382.47	3745.01
	30.640	1650.00	.00	.00	1900.00	35900.00	1909.84	.00	1912.90	119.99	15.59	2595.37	3277.32
	30.860	1150.00	.00	.00	1909.00	35900.00	1918.71	.00	1919.78	59.88	11.13	4750.38	4639.20
*	30.860	1150.00	.00	.00	1909.00	35900.00	1919.72	.00	1920.79	46.70	10.62	4622.47	5253.16
*	31.060	1030.00	.00	.00	1923.00	35900.00	1928.19	1928.19	1929.94	204.88	13.16	3474.75	2508.09
*	31.060	1030.00	.00	.00	1923.00	35900.00	1928.76	1928.76	1930.81	193.30	13.92	3219.94	2582.13
*	31.300	1300.00	.00	.00	1932.00	35900.00	1941.55	.00	1942.82	61.09	11.25	4271.46	4593.27
*	31.300	1300.00	.00	.00	1932.00	35900.00	1942.07	.00	1943.52	61.96	11.50	3901.37	4560.93
	31.480	960.00	.00	.00	1943.00	35900.00	1949.43	1949.30	1951.25	119.59	12.68	3535.95	3282.78
	31.480	960.00	.00	.00	1943.00	35900.00	1949.94	.00	1952.14	120.63	13.25	3127.63	3268.58

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	31.650	850.00	.00	.00	1948.00	35900.00	1957.54	.00	1959.33	76.00	12.92	3938.64	4117.93
	31.650	850.00	.00	.00	1948.00	35900.00	1958.07	.00	1960.19	74.92	13.35	3389.05	4147.60
	31.820	920.00	.00	.00	1955.00	35900.00	1965.03	.00	1967.83	104.27	15.04	2841.00	3515.79
	31.820	920.00	.00	.00	1955.00	35900.00	1965.56	.00	1968.73	105.66	15.43	2573.13	3492.51
*	32.030	1120.00	.00	.00	1963.00	35900.00	1973.41	.00	1974.46	32.37	9.29	4559.20	6310.32
*	32.030	1120.00	.00	.00	1963.00	35900.00	1974.20	.00	1975.28	30.53	9.17	4406.25	6496.80
*	32.240	1080.00	.00	.00	1971.00	35900.00	1979.34	1979.34	1982.14	136.11	16.29	2895.22	3077.15
*	32.240	1080.00	.00	.00	1971.00	35900.00	1979.73	1979.73	1983.11	148.85	16.94	2540.94	2942.54
*	32.470	1210.00	.00	.00	1982.00	35900.00	1991.58	.00	1992.88	56.39	11.13	4229.53	4780.78
*	32.470	1210.00	.00	.00	1982.00	35900.00	1992.30	.00	1993.74	51.56	11.23	3929.42	4999.75
*	32.660	1000.00	.00	.00	1990.00	35000.00	2001.00	2001.00	2003.52	91.13	15.67	3192.12	3666.32
*	32.660	1000.00	.00	.00	1990.00	35000.00	2001.02	2001.02	2004.35	118.02	17.02	2593.89	3221.77
	32.910	1350.00	.00	.00	2004.00	35000.00	2013.11	.00	2015.31	82.13	13.39	3111.66	3862.01
*	32.910	1350.00	.00	.00	2004.00	35000.00	2013.92	.00	2015.66	57.91	11.94	3484.01	4599.45
*	33.110	1060.00	.00	.00	2014.00	35000.00	2024.54	2024.54	2027.66	117.30	17.23	2680.40	3231.58
*	33.110	1060.00	.00	.00	2014.00	35000.00	2024.48	2024.48	2027.66	120.65	17.40	2655.49	3186.43
*	33.320	1080.00	.00	.00	2019.00	35000.00	2033.93	.00	2036.07	54.03	13.70	3184.10	4761.68
*	33.320	1080.00	.00	.00	2019.00	35000.00	2033.99	.00	2036.10	53.04	13.61	3203.67	4805.80
*	33.480	800.00	.00	.00	2026.00	35000.00	2042.74	2042.74	2046.88	86.69	18.99	2443.57	3759.04
*	33.480	800.00	.00	.00	2026.00	35000.00	2042.74	2042.74	2046.88	86.62	18.98	2444.28	3760.53
*	33.660	940.00	.00	.00	2038.00	35000.00	2054.99	2054.99	2061.57	90.36	21.96	1878.45	3682.04
*	33.660	940.00	.00	.00	2038.00	35000.00	2055.20	2055.20	2061.56	86.14	21.62	1909.90	3771.05
*	33.780	500.00	.00	.00	2043.50	35000.00	2062.38	.00	2063.83	18.45	10.36	3864.78	8147.64
*	33.780	500.00	.00	.00	2043.50	35000.00	2062.33	.00	2063.78	18.66	10.40	3849.50	8101.30
*	33.840	440.00	.00	.00	2049.00	23600.00	2063.29	.00	2064.87	32.16	11.37	2528.96	4161.79
*	33.840	440.00	.00	.00	2049.00	23600.00	2063.25	.00	2064.84	32.60	11.42	2517.00	4133.30
*	34.050	1100.00	.00	.00	2059.00	23600.00	2068.48	.00	2070.63	86.21	13.52	2310.27	2541.72
*	34.050	1100.00	.00	.00	2059.00	23600.00	2068.48	.00	2070.63	85.93	13.51	2312.93	2545.82
*	34.220	900.00	.00	.00	2064.00	23600.00	2078.14	2078.14	2081.57	105.25	15.77	1727.84	2300.33
*	34.220	900.00	.00	.00	2064.00	23600.00	2078.14	2078.14	2081.57	104.93	15.76	1729.67	2303.86
*	34.440	1130.00	.00	.00	2080.00	23600.00	2088.81	.00	2089.87	47.60	9.29	2960.34	3420.67
*	34.440	1130.00	.00	.00	2080.00	23600.00	2088.81	.00	2089.87	47.70	9.30	2958.39	3417.16
*	34.640	1050.00	.00	.00	2090.00	23600.00	2099.62	2099.62	2102.23	128.38	16.46	1982.30	2082.85
*	34.640	1050.00	.00	.00	2090.00	23600.00	2099.64	2099.64	2102.23	127.05	16.40	1989.38	2093.76

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	34.840	1040.00	.00	.00	2102.00	23600.00	2115.11	2115.11	2117.46	87.88	16.57	2330.30	2517.55
*	34.840	1040.00	.00	.00	2102.00	23600.00	2115.13	2115.13	2117.46	86.56	16.47	2342.72	2536.59
*	35.030	1020.00	.00	.00	2113.00	23600.00	2124.86	2124.86	2126.79	56.44	13.09	2730.93	3141.33
*	35.030	1020.00	.00	.00	2113.00	23600.00	2124.63	2124.63	2126.79	63.79	13.72	2595.84	2954.76
*	35.230	1050.00	.00	.00	2124.00	23600.00	2136.96	2136.96	2139.15	50.78	13.22	2600.79	3311.67
*	35.230	1050.00	.00	.00	2124.00	23600.00	2136.98	2136.98	2139.15	50.38	13.18	2612.67	3325.00

*	35.490	1350.00	.00	.00	2137.00	23600.00	2148.47	2148.47	2151.12	73.96	15.00	2182.83	2744.10
*	35.490	1350.00	.00	.00	2137.00	23600.00	2148.48	2148.48	2151.12	73.56	14.97	2187.90	2751.71

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	29.000	36860.00	1833.31	.00	.00	-.02	686.35	.00
*	29.000	36860.00	1833.03	-.28	.00	-.28	437.28	.00
*	29.190	36860.00	1841.12	.00	7.81	.00	887.56	1020.00
	29.190	36860.00	1841.19	.07	8.16	.07	446.00	1020.00
	29.390	36860.00	1848.61	.00	7.49	.00	809.05	1020.00
	29.390	36860.00	1849.55	.94	8.36	.94	551.00	1020.00
*	29.570	36860.00	1858.97	.00	10.36	.00	862.19	990.00
*	29.570	36860.00	1859.00	.03	9.45	.03	530.00	990.00
*	29.700	36860.00	1866.22	.00	7.25	.00	827.89	680.00
*	29.700	36860.00	1866.33	.11	7.33	.11	535.00	680.00
*	29.730	36860.00	1868.85	.00	2.63	.00	1143.15	140.00
*	29.730	36860.00	1869.56	.71	3.23	.71	520.00	140.00
	29.740	36860.00	1868.91	.00	.06	.00	854.26	20.00
	29.740	36860.00	1869.60	.69	.04	.69	530.00	20.00
*	29.800	36860.00	1869.61	.00	.69	.00	726.06	330.00
*	29.800	36860.00	1870.45	.84	.85	.84	500.00	330.00
*	29.940	36860.00	1875.22	.00	5.61	.00	1057.33	750.00
*	29.940	36860.00	1875.71	.50	5.26	.50	790.56	750.00
*	30.100	36860.00	1880.24	.00	5.03	.00	1250.82	880.00
*	30.100	36860.00	1880.02	-.23	4.30	-.23	730.40	880.00
*	30.330	35900.00	1891.74	.00	11.50	.00	842.05	1200.00
*	30.330	35900.00	1891.96	.22	11.95	.22	578.96	1200.00
*	30.640	35900.00	1909.94	.00	18.20	.00	927.44	1650.00
	30.640	35900.00	1909.84	-.10	17.88	-.10	327.00	1650.00
	30.860	35900.00	1918.71	.00	8.77	.00	1009.43	1150.00
*	30.860	35900.00	1919.72	1.02	9.88	1.02	691.00	1150.00
*	31.060	35900.00	1928.19	.00	9.48	.00	991.89	1030.00
*	31.060	35900.00	1928.76	.57	9.04	.57	783.00	1030.00
*	31.300	35900.00	1941.55	.00	13.36	.00	765.90	1300.00
*	31.300	35900.00	1942.07	.53	13.31	.53	555.00	1300.00
	31.480	35900.00	1949.43	.00	7.88	.00	959.83	960.00
	31.480	35900.00	1949.94	.50	7.86	.50	551.00	960.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	31.650	35900.00	1957.54	.00	8.11	.00	931.79	850.00
	31.650	35900.00	1958.07	.53	8.14	.53	501.00	850.00
	31.820	35900.00	1965.03	.00	7.48	.00	438.26	920.00
	31.820	35900.00	1965.56	.54	7.49	.54	301.00	920.00
*	32.030	35900.00	1973.41	.00	8.39	.00	549.17	1120.00
*	32.030	35900.00	1974.20	.79	8.64	.79	435.00	1120.00
*	32.240	35900.00	1979.34	.00	5.93	.00	505.51	1080.00
*	32.240	35900.00	1979.73	.39	5.53	.39	367.00	1080.00
*	32.470	35900.00	1991.58	.00	12.24	.00	685.62	1210.00
*	32.470	35900.00	1992.30	.72	12.56	.72	502.00	1210.00
*	32.660	35000.00	2001.00	.00	9.42	.00	602.03	1000.00
*	32.660	35000.00	2001.02	.03	8.72	.03	370.00	1000.00
	32.910	35000.00	2013.11	.00	12.11	.00	460.86	1350.00
*	32.910	35000.00	2013.92	.81	12.90	.81	460.85	1350.00
*	33.110	35000.00	2024.54	.00	11.44	.00	404.19	1060.00
*	33.110	35000.00	2024.48	-.06	10.56	-.06	403.82	1060.00
*	33.320	35000.00	2033.93	.00	9.39	.00	338.33	1080.00
*	33.320	35000.00	2033.99	.06	9.51	.06	338.33	1080.00
*	33.480	35000.00	2042.74	.00	8.81	.00	279.42	800.00
*	33.480	35000.00	2042.74	.00	8.75	.00	279.42	800.00
*	33.660	35000.00	2054.99	.00	12.25	.00	151.22	940.00
*	33.660	35000.00	2055.20	.21	12.46	.21	151.23	940.00
*	33.780	35000.00	2062.38	.00	7.39	.00	283.22	500.00
*	33.780	35000.00	2062.33	-.05	7.13	-.05	282.77	500.00
*	33.840	23600.00	2063.29	.00	.91	.00	259.27	440.00
*	33.840	23600.00	2063.25	-.04	.92	-.04	258.86	440.00
*	34.050	23600.00	2068.48	.00	5.18	.00	453.74	1100.00
*	34.050	23600.00	2068.48	.01	5.23	.01	453.57	1100.00
*	34.220	23600.00	2078.14	.00	9.66	.00	258.83	900.00
*	34.220	23600.00	2078.14	.01	9.66	.01	258.84	900.00
*	34.440	23600.00	2088.81	.00	10.68	.00	444.08	1130.00
*	34.440	23600.00	2088.81	.00	10.67	.00	444.05	1130.00
*	34.640	23600.00	2099.62	.00	10.81	.00	362.48	1050.00
*	34.640	23600.00	2099.64	.02	10.83	.02	362.46	1050.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	34.840	23600.00	2115.11	.00	15.48	.00	431.05	1040.00
*	34.840	23600.00	2115.13	.03	15.49	.03	431.04	1040.00
*	35.030	23600.00	2124.86	.00	9.76	.00	585.90	1020.00
*	35.030	23600.00	2124.63	-.23	9.50	-.23	580.28	1020.00
*	35.230	23600.00	2136.96	.00	12.10	.00	715.32	1050.00
*	35.230	23600.00	2136.98	.02	12.35	.02	715.32	1050.00
*	35.490	23600.00	2148.47	.00	11.51	.00	424.93	1350.00
*	35.490	23600.00	2148.48	.01	11.51	.01	424.87	1350.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     29.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     29.000  PROFILE=  2  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     29.190  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     29.190  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     29.570  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     29.570  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     29.700  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     29.700  PROFILE=  2  MINIMUM SPECIFIC ENERGY

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WARNING SECNO=     29.730  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     29.800  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     29.800  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     29.940  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     29.940  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     30.100  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     30.100  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     30.330  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     30.330  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.330  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     30.640  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     30.640  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     30.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     31.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     31.060  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     31.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     31.060  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     31.300  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     31.300  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     32.030  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     32.030  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=     32.240  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     32.240  PROFILE=  2  MINIMUM SPECIFIC ENERGY

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WARNING SECNO=     32.470  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     32.660  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     32.660  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     32.660  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     32.660  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     32.910  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     33.110  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     33.110  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     33.110  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     33.320  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     33.320  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     33.480  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     33.480  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     33.480  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     33.480  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     33.480  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     33.480  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     33.660  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     33.660  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     33.660  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     33.660  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     33.660  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     33.660  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     33.780  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     33.780  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=     33.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     34.050  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     34.050  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     34.220  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     34.440  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=     35.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     35.490  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     35.490  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     35.490  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
29.000	437.	3047.	12.1	1833.0	1833.3	-.3
29.190	446.	2934.	12.6	1841.2	1841.1	.1
29.390	551.	4282.	8.6	1849.5	1848.6	.9
29.570	530.	2976.	12.4	1859.0	1859.0	.0
29.700	535.	3064.	12.0	1866.3	1866.2	.1
29.730	520.	4503.	8.2	1869.6	1868.9	.7
29.740	530.	4370.	8.4	1869.6	1868.9	.7
29.800	500.	3355.	11.0	1870.4	1869.6	.8
29.940	810.	4680.	7.9	1875.7	1875.2	.5
30.100	780.	3553.	10.4	1880.0	1880.2	-.2
30.330	579.	3235.	11.1	1891.9	1891.7	.2
30.640	327.	2595.	13.8	1909.8	1909.9	-.1
30.860	691.	4622.	7.8	1919.7	1918.7	1.0
31.060	783.	3220.	11.1	1928.8	1928.2	.6
31.300	555.	3901.	9.2	1942.0	1941.5	.5
31.480	551.	3128.	11.5	1949.9	1949.4	.5
31.650	501.	3389.	10.6	1958.0	1957.5	.5
31.820	301.	2573.	14.0	1965.5	1965.0	.5
32.030	435.	4406.	8.1	1974.2	1973.4	.8
32.240	367.	2541.	14.1	1979.7	1979.3	.4
32.470	502.	3929.	9.1	1992.3	1991.6	.7
32.660	370.	2594.	13.5	2001.0	2001.0	.0
32.910	461.	3484.	10.0	2013.9	2013.1	.8
33.110	404.	2655.	13.2	2024.4	2024.5	-.1
33.320	338.	3204.	10.9	2034.0	2033.9	.1
33.480	279.	2444.	14.3	2042.7	2042.7	.0
33.660	151.	1910.	18.3	2055.2	2055.0	.2
33.780	283.	3850.	9.1	2062.3	2062.4	-.1
33.840	259.	2517.	9.4	2063.3	2063.3	.0
34.050	454.	2313.	10.2	2068.5	2068.5	.0
34.220	259.	1730.	13.6	2078.1	2078.1	.0
34.440	444.	2958.	8.0	2088.8	2088.8	.0
34.640	362.	1989.	11.9	2099.6	2099.6	.0
34.840	431.	2343.	10.1	2115.1	2115.1	.0
35.030	580.	2596.	9.1	2124.7	2124.9	-.2
35.230	715.	2613.	9.0	2137.0	2137.0	.0
35.490	425.	2188.	10.8	2148.5	2148.5	.0

FINAL "n" VALUE REPORT

CAVE CREEK

FLOOD INSURANCE STUDY

Submitted to:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
2801 West Durango Street
Phoenix, Arizona 85009

Submitted by:

WILLDAN ASSOCIATES
1717 W. Northern Avenue, Suite 112
Phoenix, Arizona 85021

February, 1997

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- List of Photographs
- Photographs

APPENDIX 2
- Manning's Roughness Factor Calculations for Reachs

APPENDIX 3
- Cross Sections With "n" Values

E:\RPT7\09.WPD

I. Introduction

This report is being prepared by Willdan Associates as part of the Flood Insurance study of Cave Creek for the Flood Control District of Maricopa County. The limits of the study are the Cave Buttes Dam to 600 feet upstream of Carefree Highway a distance of approximately five miles. The Photo Location/Cross Section map in Appendix 1 shows the study limits.

The data contained in this report is preliminary and subject to review.

II. Methodology

Values for Manning's roughness coefficient, "n", are assigned for conditions that exist at the time of the preparation of the study. The Manning's "n" values developed in this study for the Cave Creek Flood Insurance study were developed for the 100-year peak flood discharges.

Several sources of data were utilized to develop the "n" values presented in this preliminary report. The information available included: 1) aerial photo contact prints (flown on January 12, 1996); 2) ground level photographs; 3) site reconnaissance. The ground level photographs and field reconnaissance were conducted April 4, 1996.

The "n" values assigned to a stream reach should represent the roughness factors that create energy loss due to friction. The reach Manning's roughness coefficients were calculated by assigning a base "n" (n_b) value that represents the surface roughness for a straight, uniform channel or overbank region composed of a given bed material. Vegetation, channel shape and irregularity, stage, discharge, and other factors that increase roughness were accounted for by adding increments of roughness to n_b.

Two procedures are available to integrate the "n" values into the detailed hydraulic model (HEC-2). The first procedure ("NC" cards) assigns "n" values to channel and overbank areas of a typical cross section representing a stream reach of uniform roughness characteristics. The second procedure ("NH" cards) assigns "n" values to a specific cross section. The cross sections are horizontally subdivided into segments of uniform roughness. The hydraulic model (HEC-2) then computes the average "n" value for the specific section. This procedure was utilized for this study for Cave Creek, defining the cross section "n" values only by channel, left overbank and right overbank regions was insufficient to adequately describe the lateral roughness variation created by the multiple channels, vegetation areas and overbank conditions.

Cave Creek shows evidence of sediment movement on the right bank channel invert and fines deposition on the right overbank. The left bank is generally stable with nearly vertical slopes. The channel bed form is a function of flow velocity, grain size and other variables.

The "n" values developed for sand bed channels can also be a function of bed form roughness. The field reconnaissance revealed very few signs of bed form creation and or sediment transport due to bed form movement. For this reason bed form roughness was judged as negligible and was not included in the calculations.

III. Base "n" Value Determination Reach Calculations

The base "n" values used in this study generally apply to average conditions rather than the smoothest reach attainable for a given bed material. The bed material is characterized as medium to coarse grain sand. Close examination of the bed material photographs indicates a representative base "n" value for Cave Creek would be 0.025 for a sandy bottom and 0.035 for the cobble bottom. Photographs 4 and 5 illustrate these two bottom materials. Photographs 7 and 10 illustrates typical overbank vegetation. Additional overbank photographs have been included were the vegetation varies significantly from these norms.

The base "n" values for the overbanks were assigned considering stable channel conditions. Review of photographs of the overbanks provides little evidence of bed material movement except in locations where small channels have formed in the overbank. The bed material is considered "firm soil". Therefore, a base "n" value of 0.020 was assigned to the overbanks for Cave Creek. Photographs 6 and 13 illustrate typical small channel bed material and vegetation characteristics.

IV. Adjustments to the Base Value

The base "n" value (n_b) must be adjusted accordingly for factors such as depth of flow, channel irregularities (n_1), obstructions (n_2), vegetation (n_3), changes in channel shape, and degree of meandering. The method used for this study to arrive at the overall "n" was to add increments of roughness (n_1, n_2, and n_3) to n_b for each condition that increases the roughness.

Channel irregularity can have a great impact on the overall "n" when the width-to-depth ratio is small. Cave Creek alternates from a relatively uniform main channel to flow paths disrupted by the current gravel operations. In these areas channel irregularity is so great that it will be characterized by changes in the cross section geometry rather than roughness coefficients.

Obstructions are physical objects that disturb the flow pattern and increase the "n" value. The amount of increase depends upon the channel slope, shape of the obstruction, the size in relation to the cross section, and the number, arrangement, and spacing of obstructions. Engineering judgment and experience was applied when assigning adjustments to the base "n" value for obstructions so as not to duplicate conditions considered for other adjustment factors. The adjustment for obstructions (n_2) is relatively small throughout the Cave Creek study reach.

Several factors impact the extent to which vegetation affects the base "n" values. The percentage of wetted perimeter covered by vegetation, the density of vegetation below the high water line, the degree to which high water flattens the vegetation, and the alignment of vegetation relative to the flow, all impact the value assigned to the vegetation adjustment factor (n_3).

Photographs are used to illustrate typical features and characteristics for representative reaches of the channel. The channel and overbank features in the photographs are representative of that particular reach. See Appendix 1 for these photographs. See Appendix 2 the reach "n" value calculations.

V. Reach "n" Values vs. Cross Section "n" Values

The topography shows the extent that the water course varies within a given reach. The vegetation also varies from section to section. Because of this variation, it was judged that the calculated reach "n" values are too generalized to accurately represent the roughness of individual cross sections. A second field reconnaissance was performed on August 8 and 9, 1996 to determine the individual cross section roughness. This more detailed analysis is described below.

VI. Detailed Analyses

Vegetation is the primary factor that affects "n" for the Cave Creek. Therefore, vegetation is the basis for assigning "n" values rather than the material in which it is growing for most parts of the channel or flood plains. The density of the vegetation was used to assign "n" values for each cross section. Varying degrees of density of trees, brush and weeds exist throughout the study reach. The levels of density are described as dense, medium and light.

The cross sections also contain areas of no vegetation. The "n" values for these areas were assigned based on the material that composed the bed of the water course in these areas. Where there is a significant range of bed material sizes the final "n" value is a combination

of the "n" values for the different material sizes. The following is a listing of bed and vegetation type and the corresponding "n" value.

Bed Material / Vegetation	Mannings Roughness Factor "n"
Light Vegetation	0.06
Medium Vegetation	0.08
Dense Vegetation / Trees	0.12
Sand	0.025
Cobbles	0.035
Boulders	0.045

"n" values were assigned to individual subareas on each cross section. The values will be entered into the NH card for each section. HEC 2 will calculate the composite "n" value. The cross sections with "n" values are shown in Appendix 3.

VII. References

1. Established Manning's Roughness Coefficients for Stream Channels and Flood Plains in Maricopa County, Arizona
   B.W. Thomsen and H.W. Hjalmarson, U.S. Geological Survey and the Flood Control District of Maricopa County April, 1991

2. Open Channel Hydraulics
   Ven Te Chow
   McGraw Hill, 1959

3. Roughness Characteristics of Natural Channels
   U.S. Geological Survey Water Supply Paper 1849
   Harry H. Barnes 1967

APPENDIX 1

- ***Photo / Cross Section Location Map***
- ***List of Photographs***
- ***Photographs***

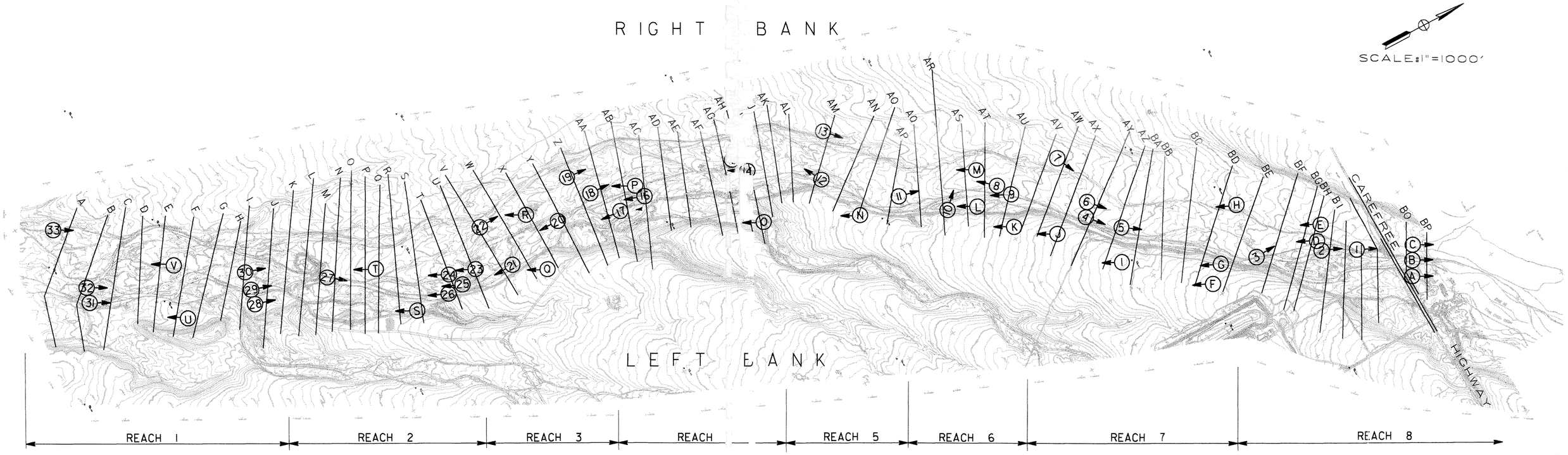


PHOTO LOCATION MAP

List of Photographs

PHOTOGRAPH NO.

1. Reach 8 - Looking Upstream at Carefree Highway
2. Reach 8 - Main Channel Bed
3. Reach 8 - Looking Upstream at Right Overbank
4. Reach 7 - at Powerline Crossing Looking Upstream at Main Channel With Sandy Bottom
5. Reach 7 - at Powerline Crossing Looking Upstream at Main Channel With Cobble Bottom
6. Reach 7 - at Powerline Crossing Looking Upstream at Right Overflow Channel
7. Reach 7 - below Powerline Crossing Looking Upstream at Right Overbank
8. Reach 6 - Looking Downstream at Main Channel
9. Reach 6 - Looking Downstream at Left Overbank
10. Reach 6 - Looking at Main Channel and Right Overbank
11. Reach 6 - Looking Upstream at Main Channel
12. Reach 5 - Looking Downstream at Main Channel
13. Reach 5 - Looking Upstream at Right Overflow Channel
14. Reach 4 - Looking Downstream at Main Channel
15. Reach 4 - Looking Upstream at Right Overflow Area
16. Reach 4 - Looking Downstream at Main Channel
17. Reach 3 - Looking Downstream at Main Channel Obstruction
18. Reach 3 - Looking Upstream at Right Overflow Channel
19. Reach 3 - Looking Upstream at Right Bank
20. Reach 3 - Looking Downstream at Main Channel
21. Reach 3 - Looking Downstream at Main Channel

22. Reach 3 - Looking Upstream at Right Bank

23. Reach 2 - Looking Downstream at Right Overbank

24. Reach 2 - Looking Downstream at Right Overflow Channel

25. Reach 2 - Looking Downstream at Right Overbank

26. Reach 2 - Looking Downstream at Main Channel

27. Reach 2 - Looking Upstream at Main Channel

28. Reach 1 - Upstream End - Looking Upstream at Left Bank

29. Reach 1 - Upstream End - Looking Upstream at Main Channel

30. Reach 1 - Upstream End - Looking Upstream at Right Bank

31. Reach 1 - Downstream End - Looking Upstream at Largest Channel

32. Reach 1 - Downstream End - Looking Upstream at Small Channel

34. Reach 1 - Downstream End - Looking Upstream at Overbank Area

SUPPLEMENTAL PHOTOGRAPHS

A. Reach 8 - Looking Upstream From Bridge at Left Bank Rip Rap

B. Reach 8 - Looking upstream From Bridge at Main Channel

C. Reach 8 - Looking Upstream From Bridge at Left Bank

D. Reach 8 - Looking Downstream at Right Bank

E. Reach 8 - Looking Downstream at Right Over Bank

F. Reach 7 - Looking Downstream at Left Over Bank

G. Reach 7 - Looking Downstream at Main Channel

H. Reach 7 - Looking Downstream at Right Over Bank

I. Reach 7 - Looking Downstream at Left Over Bank

J. Reach 7 - Looking Downstream at Left Over Bank

K. Reach 7 - Looking Downstream at Left Over Bank

L. Reach 6 - Looking Downstream at Main Channel

M. Reach 6 - Looking Downstream at Right Over Bank

N. Reach 5 - Looking Downstream at Left Over Bank

O. Reach 5 - Looking at Stockpiled Cobbles and Boulders

P. Reach 4 - Looking Downstream at Right Over Bank

Q. Reach 3 - Looking Downstream at Left Over Bank

R. Reach 3 - Looking Downstream at Right Bank

S. Reach 2 - Looking Downstream at Left Bank

T. Reach 2 - Looking Downstream at Right Over Bank

U. Reach 1 - Looking Downstream at Left Over Bank

V. Reach 1 - Looking Downstream at Right Over Bank

PHOTOGRAPHS
For
CAVE CREEK FLOOD INSURANCE STUDY
Taken
April 10, 1996

1. Reach 8 Looking Upstream at Carefree Highway

2. Reach 8 - Main Channel Bed

3. Reach 8 - Looking Upstream at Right Overbank

4. Reach 7 - At Powerline Looking Upstream at Main Channel With Sandy Bottom

5. Reach 7 - At Powerline Looking Upstream at Main Channel With Cobble Bottom

6. Reach 7 - At Powerline Looking Upstream at Right Overflow Channel

7. Reach 7 - Below Powerline Crossing Looking Upstream at Right Overbank

8. Reach 6 - Looking Downstream at Main Channel

9. Reach 6 - Looking Down Stream at Left Overbank

10. Reach 6 - Looking at Main Channel and Right Overbank

11. Reach 6 - Looking Upstream at Main Channel

12. Reach 5 - Looking Downstream at Main Channel

13. Reach 5 Looking upstream at Right Overflow Channel

14. Reach 4 - Looking Downstream at Main Channel

15. Reach 4 - Looking Upstream at Right Ovrflow Area

16. Reach 4 - Looking Downstream at Main Channel

17. Reach 3 - Looking Downstream at Main Channel Obstruction

18. Reach 3 - Looking Upstream at Right Overflow Area

19. Reach 3 - Looking Downstream at Right Bank Channel

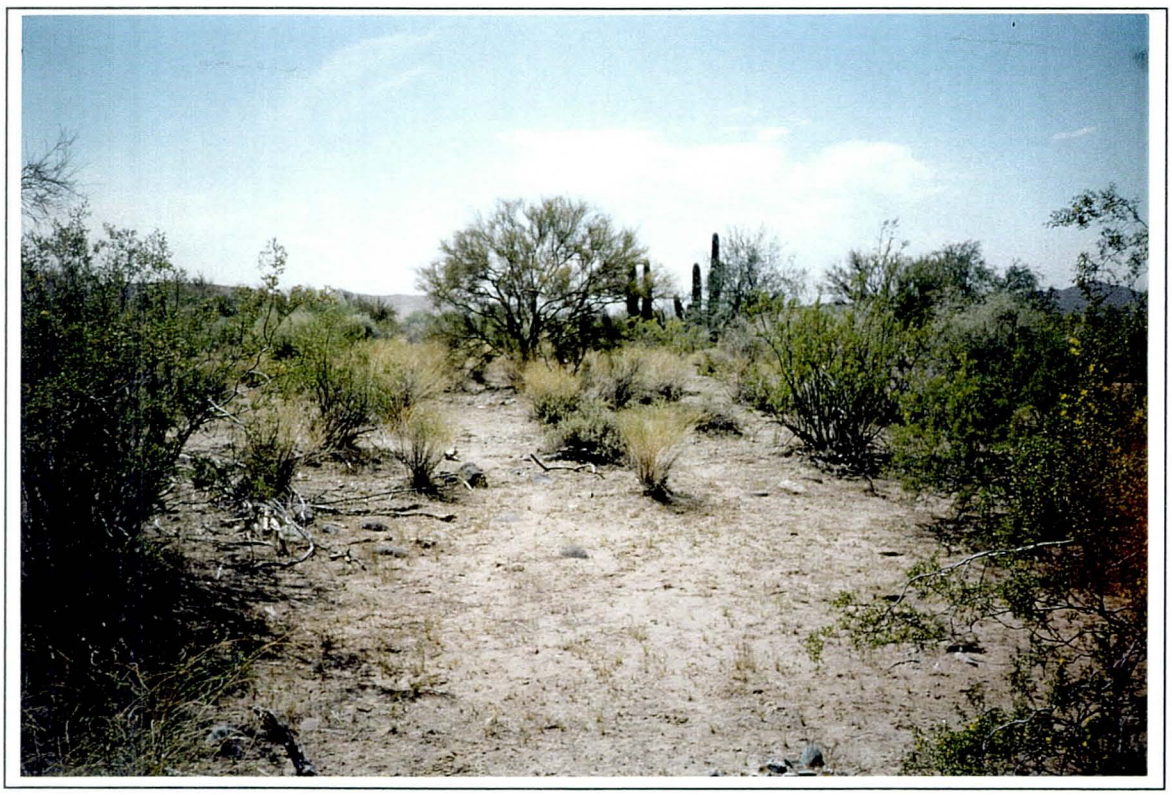
20. Reach 1 - Looking Downstream at Main

21. Reach 3 - Looking Downstream at Main Channel

22. Reach 3 - Looking Upstream at Right Bank

23. Reach 2 - Looking Downstream at Right Bank

24. Reach 2 - Looking Downstream atRight Overflow Channel



25. Reach 2 - Looking Downstream at Right Over Bank

26. Reach 2 - Looking Downstream at Main Channel

27. Reach 2 - Looking Upstream at Main Channel

28. Reach 1 - Upstream End Looking Upstream at Left Bank

29. Reach 1 - Upstream End Looking at Main Channel

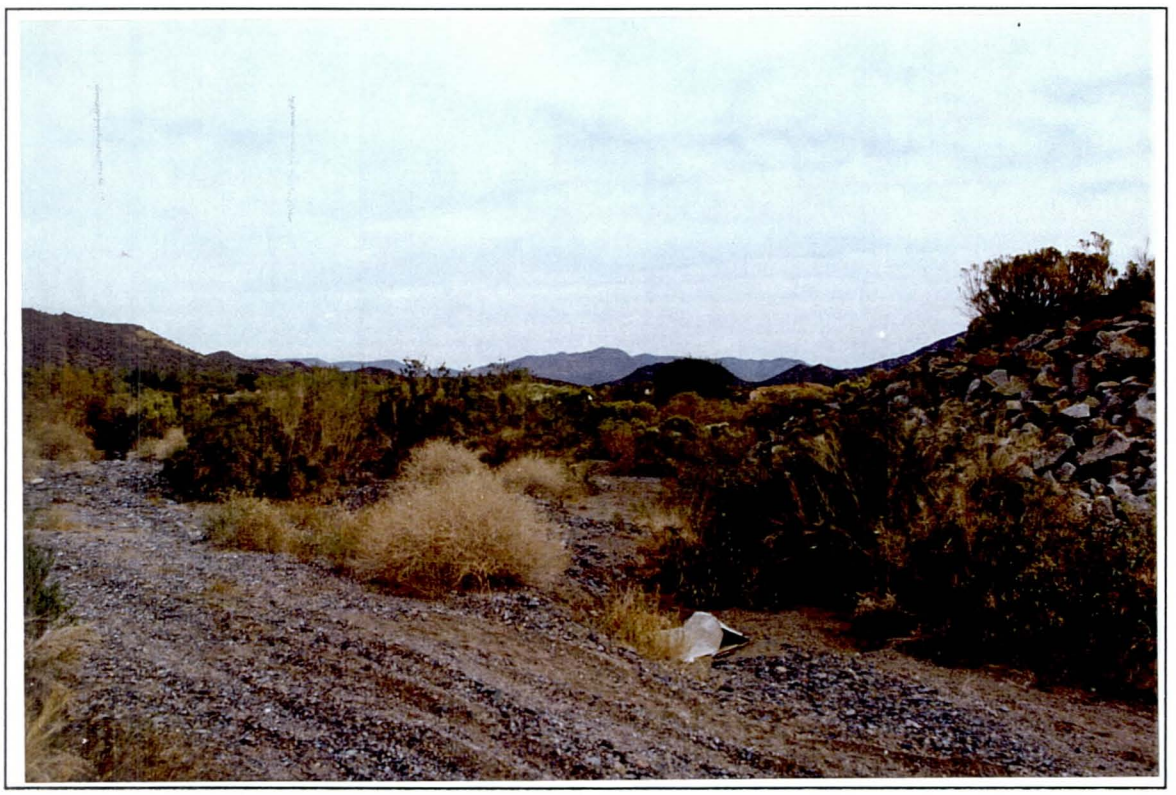
30. Reach 1 -Upstream End Looking Upstream at Right Bank

31. Reach 1 - Downstream End Looking Upstream at Largest Channel

32. Reach 1 - Downstream End Looking Upstream at Small Channel

33. Reach 1 - Downstream End Looking Upstream at Overbank Area

SUPPLEMENTAL PHOTOGRAPHS
For
CAVE CREEK FLOOD INSURANCE STUDY
Taken
December 9, 1996



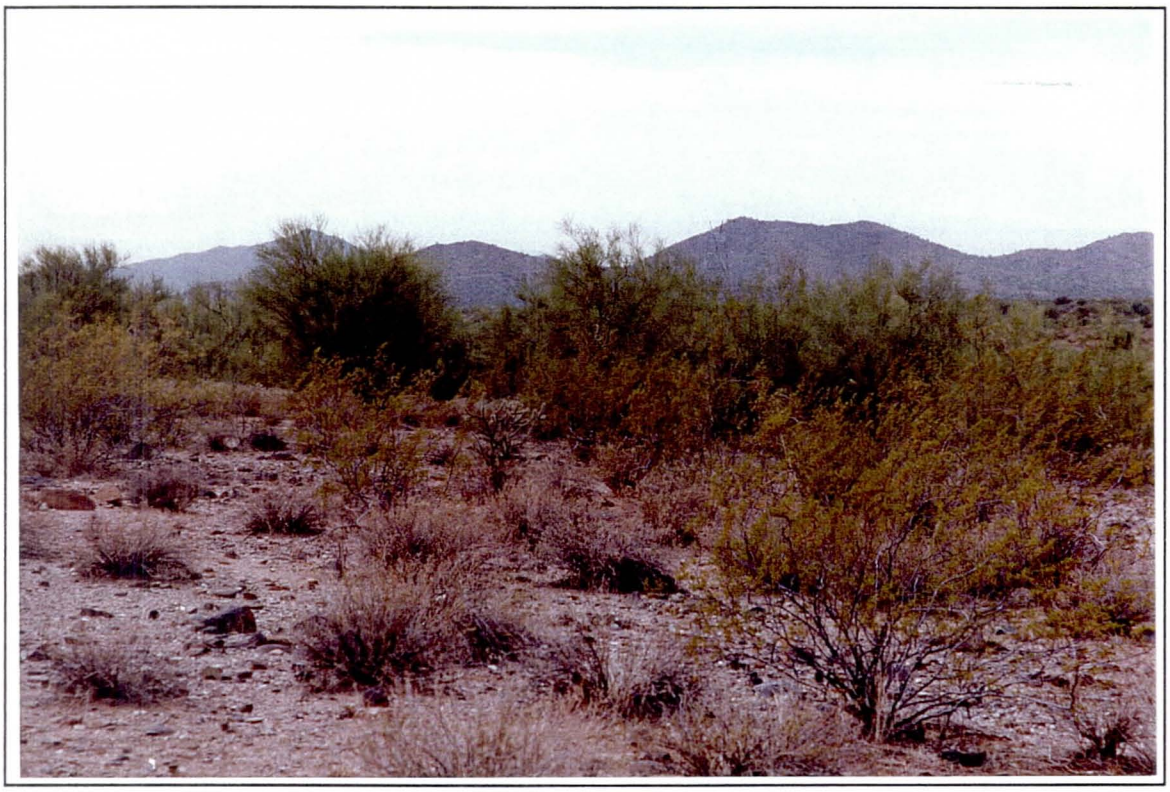
A. Reach 8 - Looking Upstream From Bridge at Left Bank Rip Rap

B. Reach 8 - Looking Upstream From Bridge at Main Channel

C. Reach 8 - Looking Upstream From Bridge at Left Bank

D. Reach 8 - Looking Downstream at Right Bank

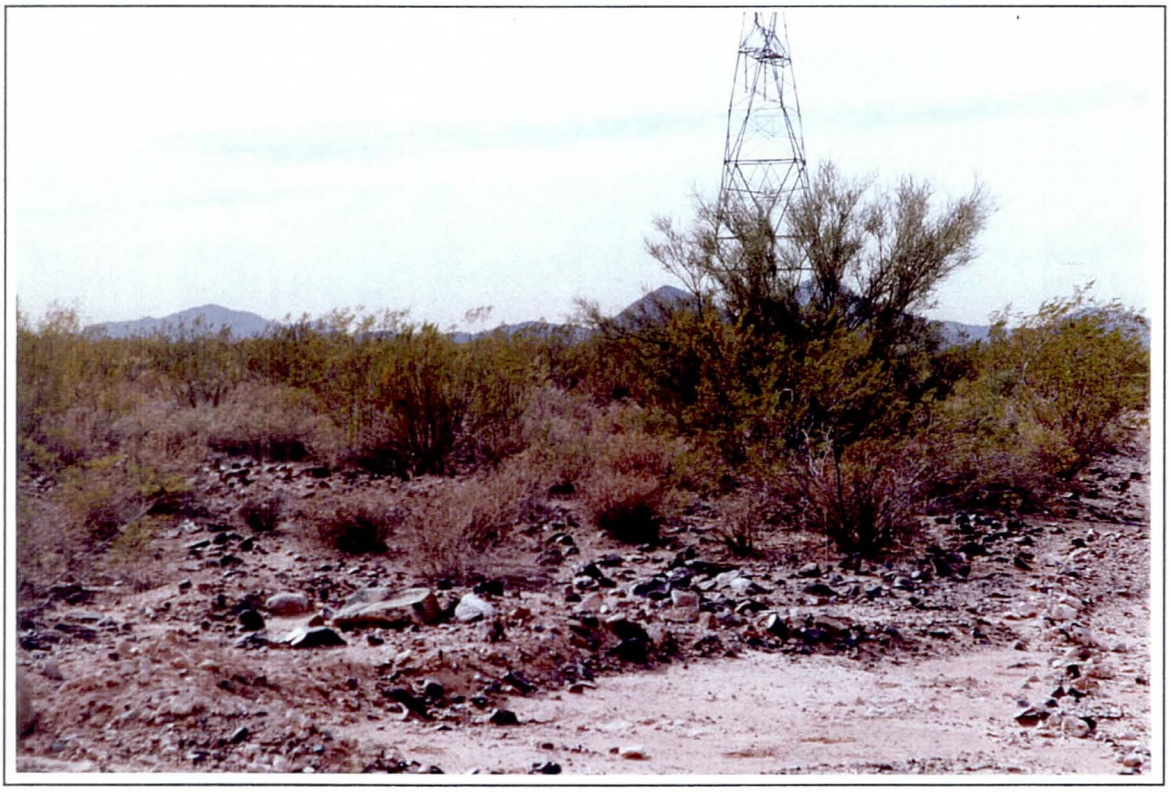
E. Reach 8 - Looking Downstream at Right Over Bank



F. Reach 7 Looking Down Stream at Left Over Bank

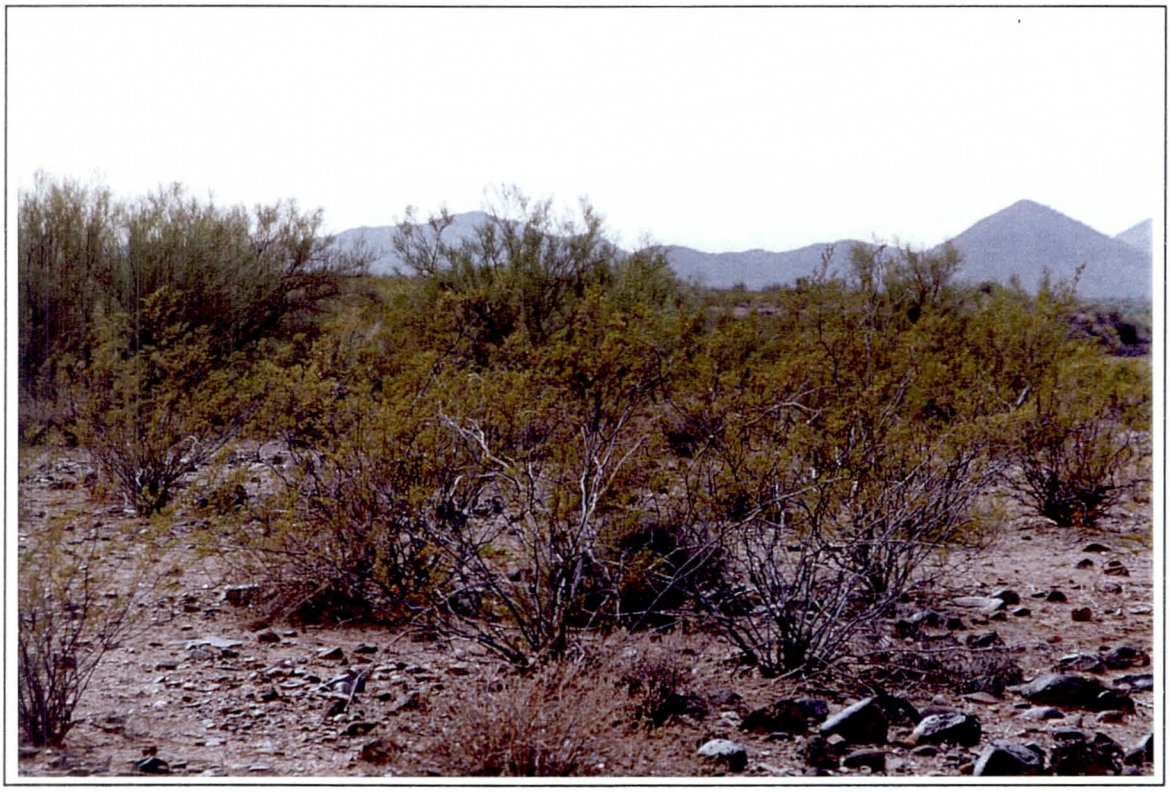
G. Reach 7 - Looking Downstream at Main Channel

H. Reach 7 - Looking Downstream at Right Over Bank



I. Reach 7 - Looking Downstream at Left Over Bank

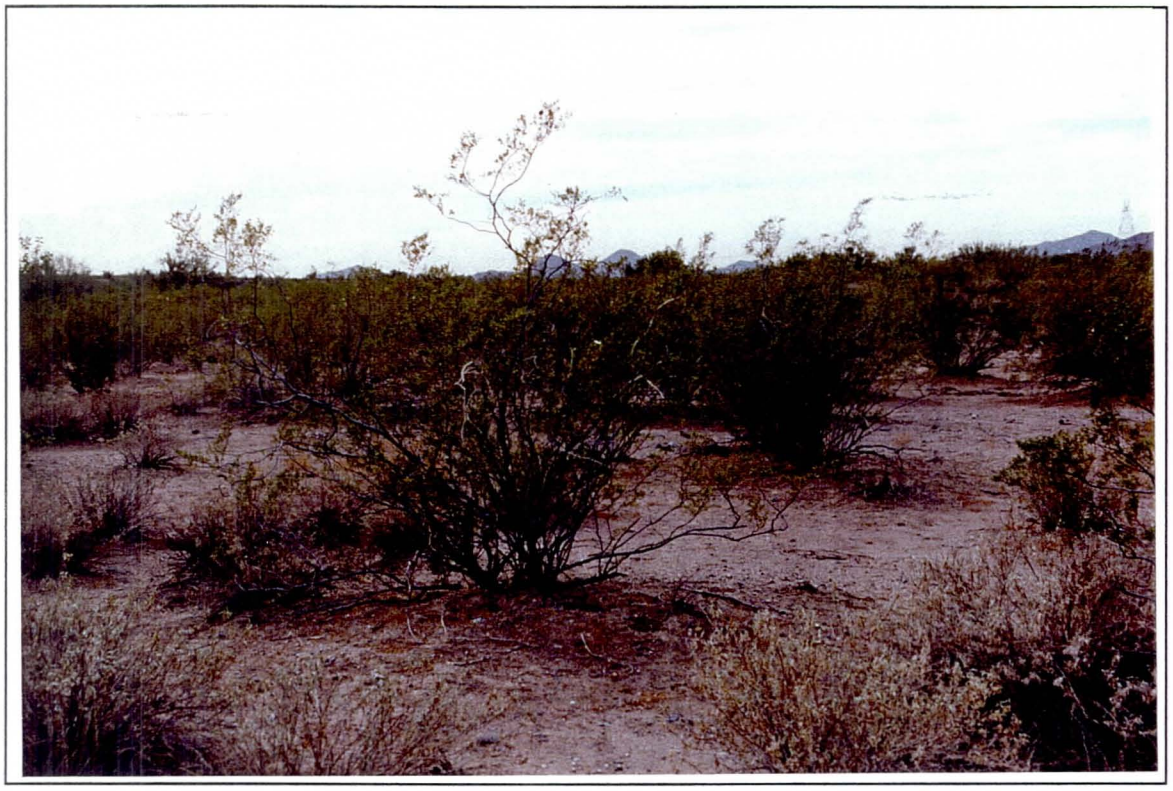
J. Reach 7 - Looking Downstream at Left Over Bank



K. Reach 6 - Looking Downstream at Left Over Bank

L. Reach 6 - Looking Downstream at Main Channel

M. Reach 6 - Looking Downstream at Right Over Bank

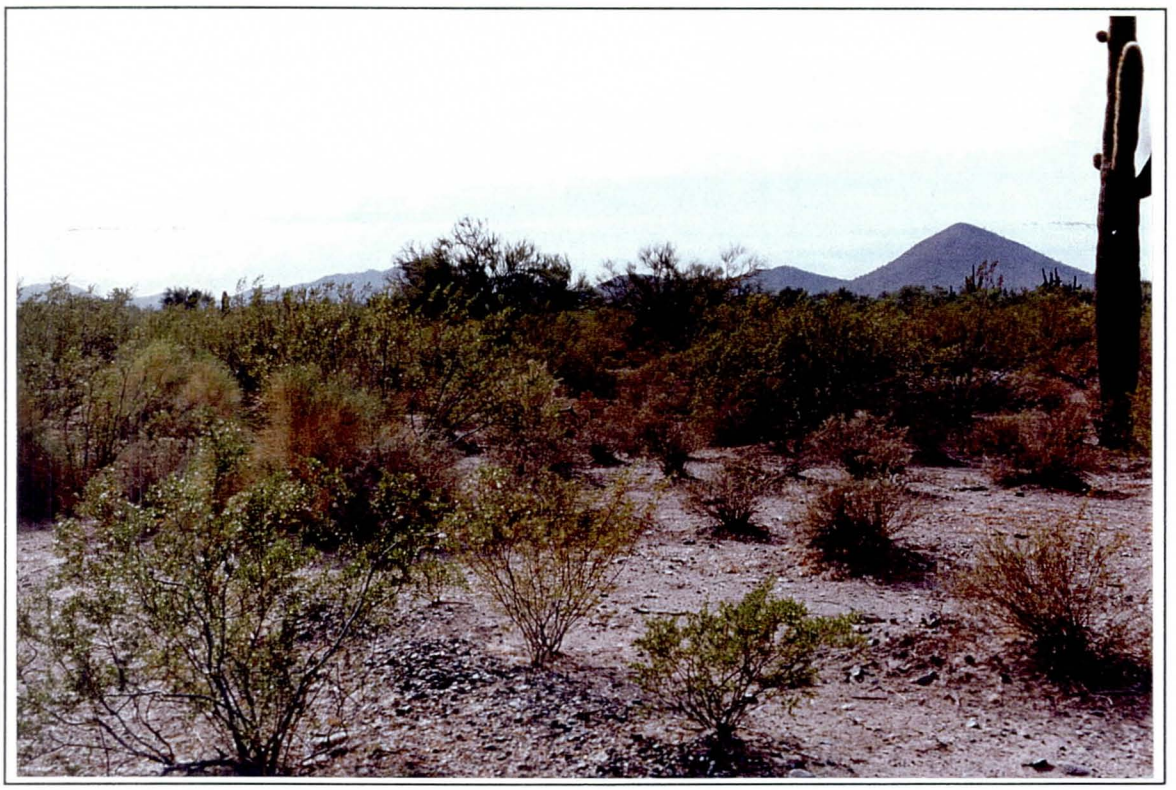


N. Reach 5 - Looking Downstream at Left Over Bank

O. Reach 4 - Looking at Stockpiled Cobbles and Boulders

P. Reach 4 - Looking Downstream at Right Over Bank

Q. Reach 3 - Looking Downstream at Left Over Bank

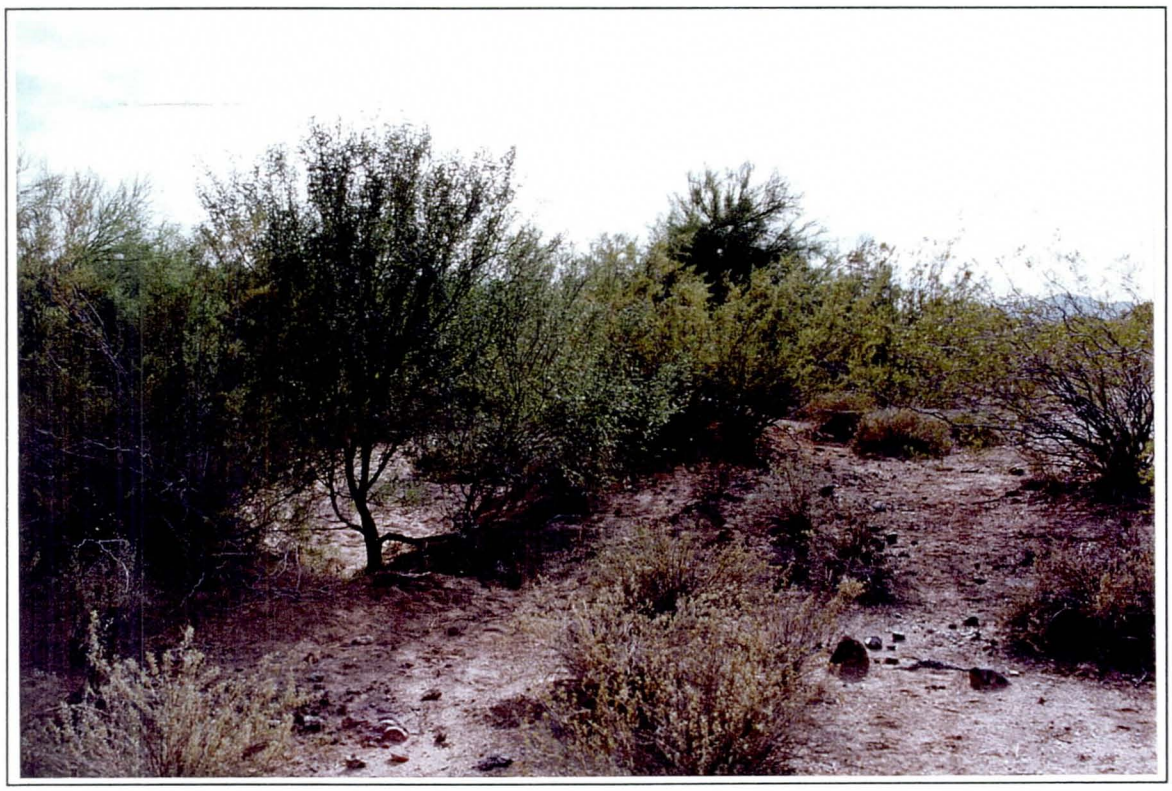


R. Reach 3 - Looking Downstream at Right Bank

S. Reach 2 - Looking Downstream at Left Bank

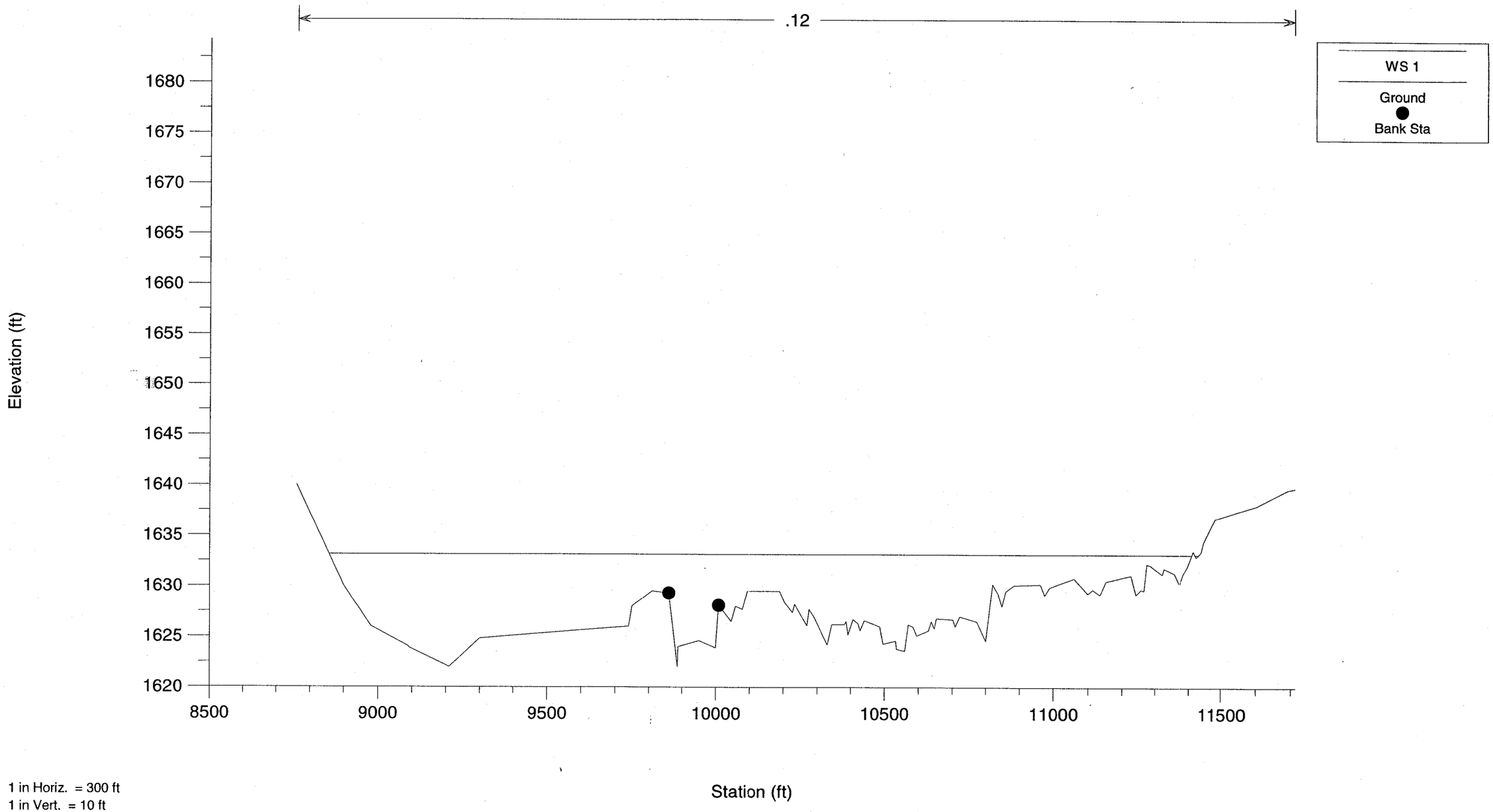
T. Reach 2 - Looking Downstream at Right Over Bank

U. Reach 1 - Looking Downstream at Left Over Bank

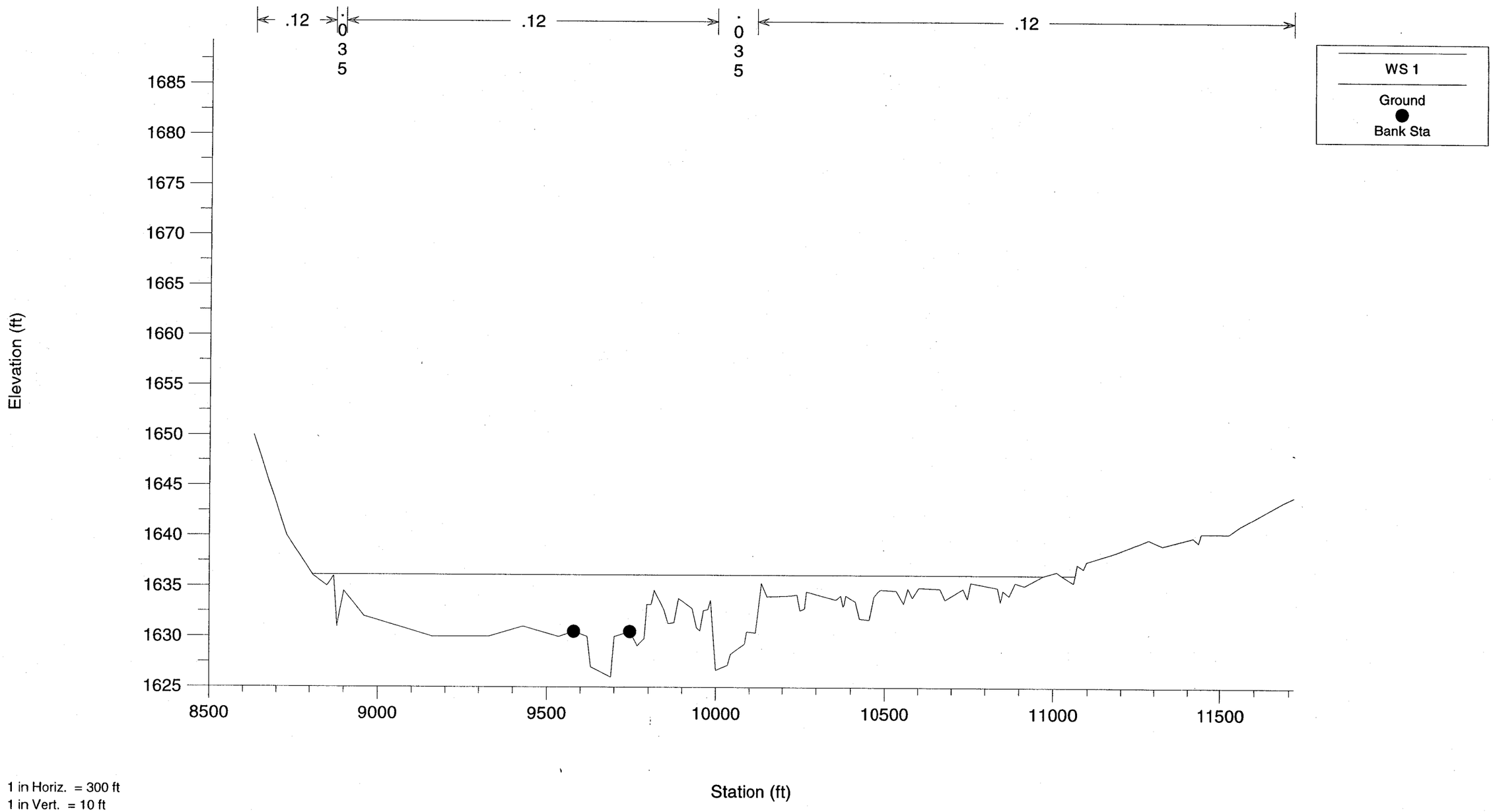


V. Reach 1 - Looking Downstream at Right Over Bank

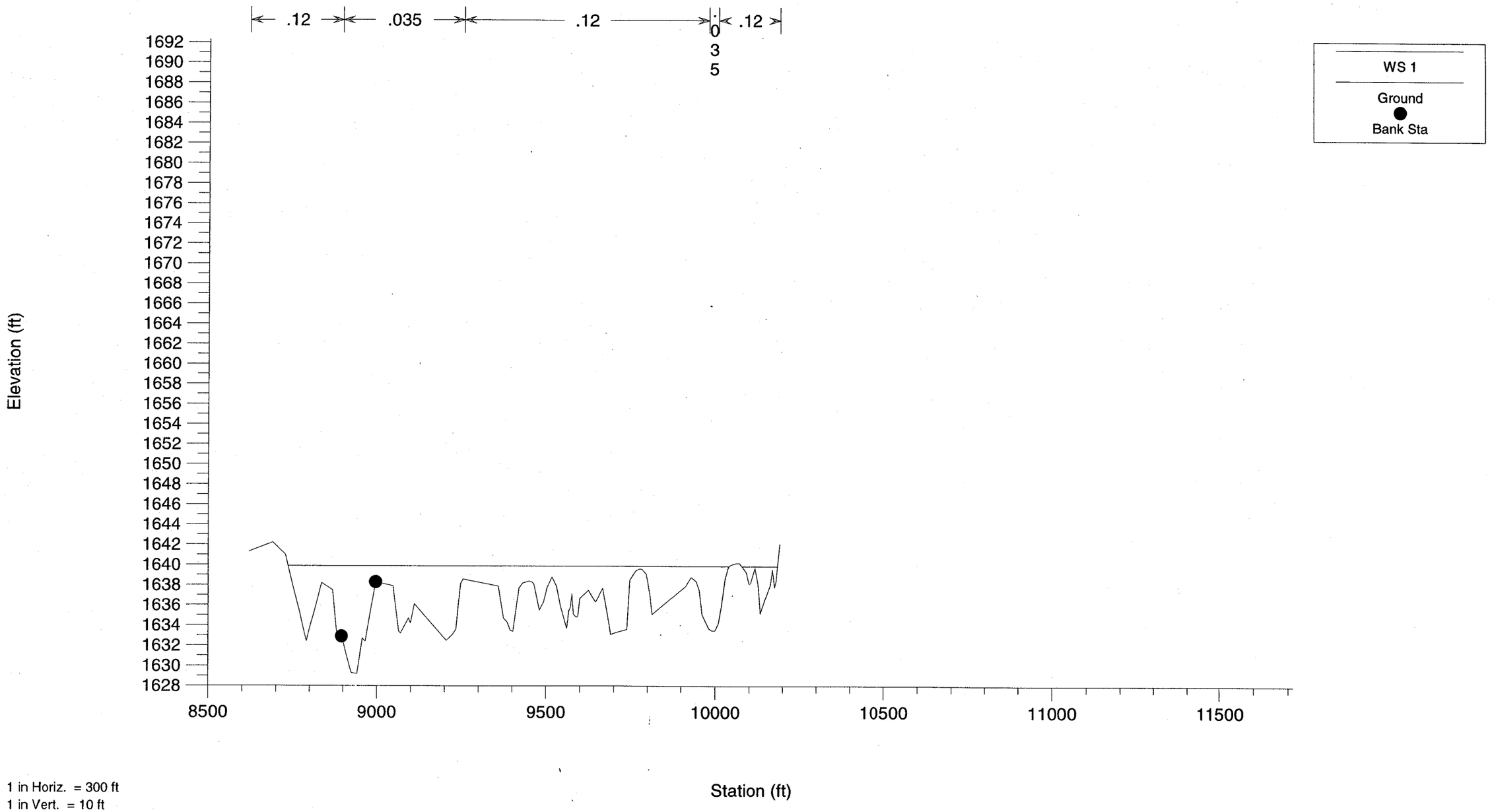
Cave Creek Wash South FIS 100-Year "n" Values
24.525 Cross Section A



Cave Creek Wash South FIS 100-Year "n" Values
24.646 Cross Section B

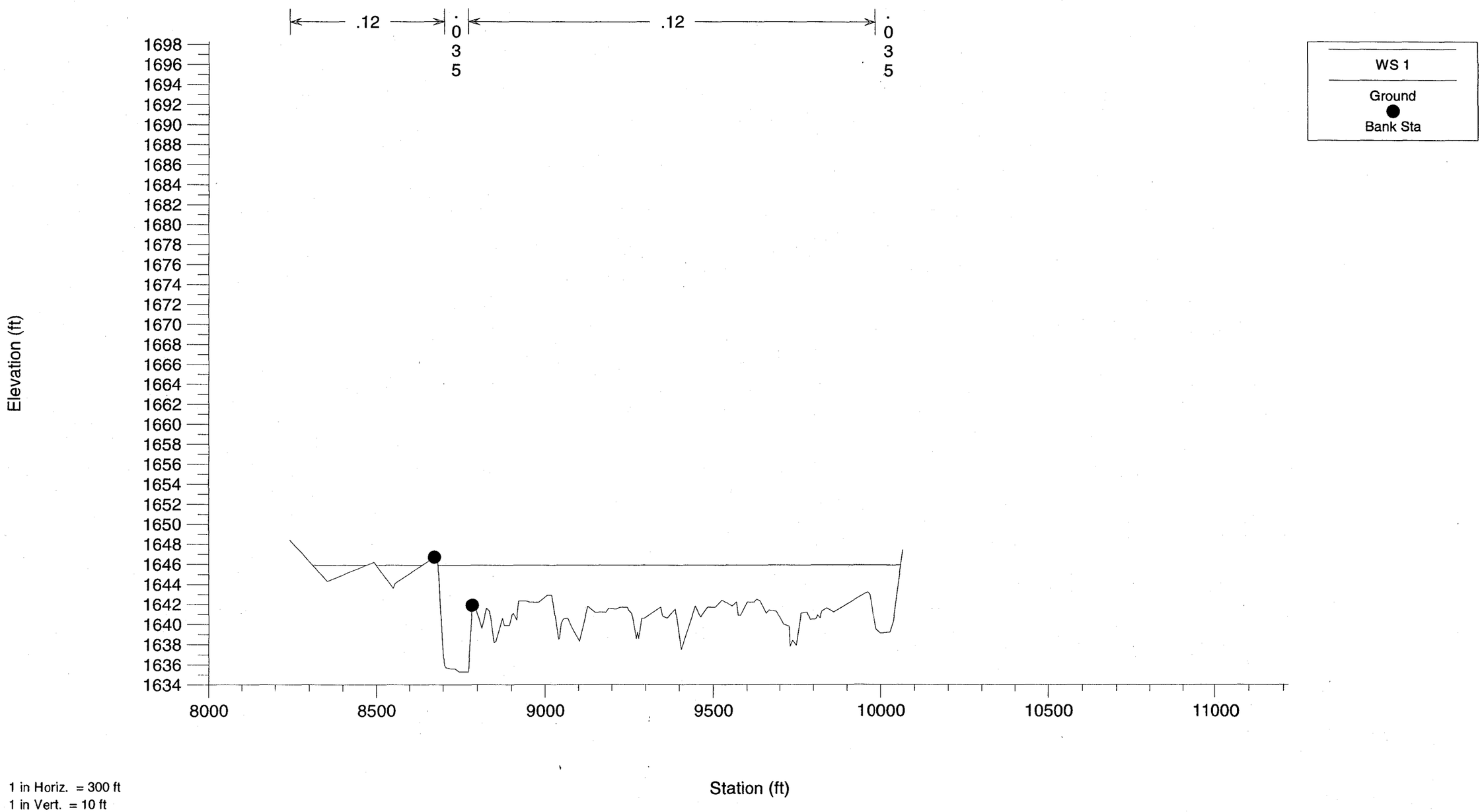


Cave Creek Wash South FIS 100-Year "n" Values
24.752 Cross Section C

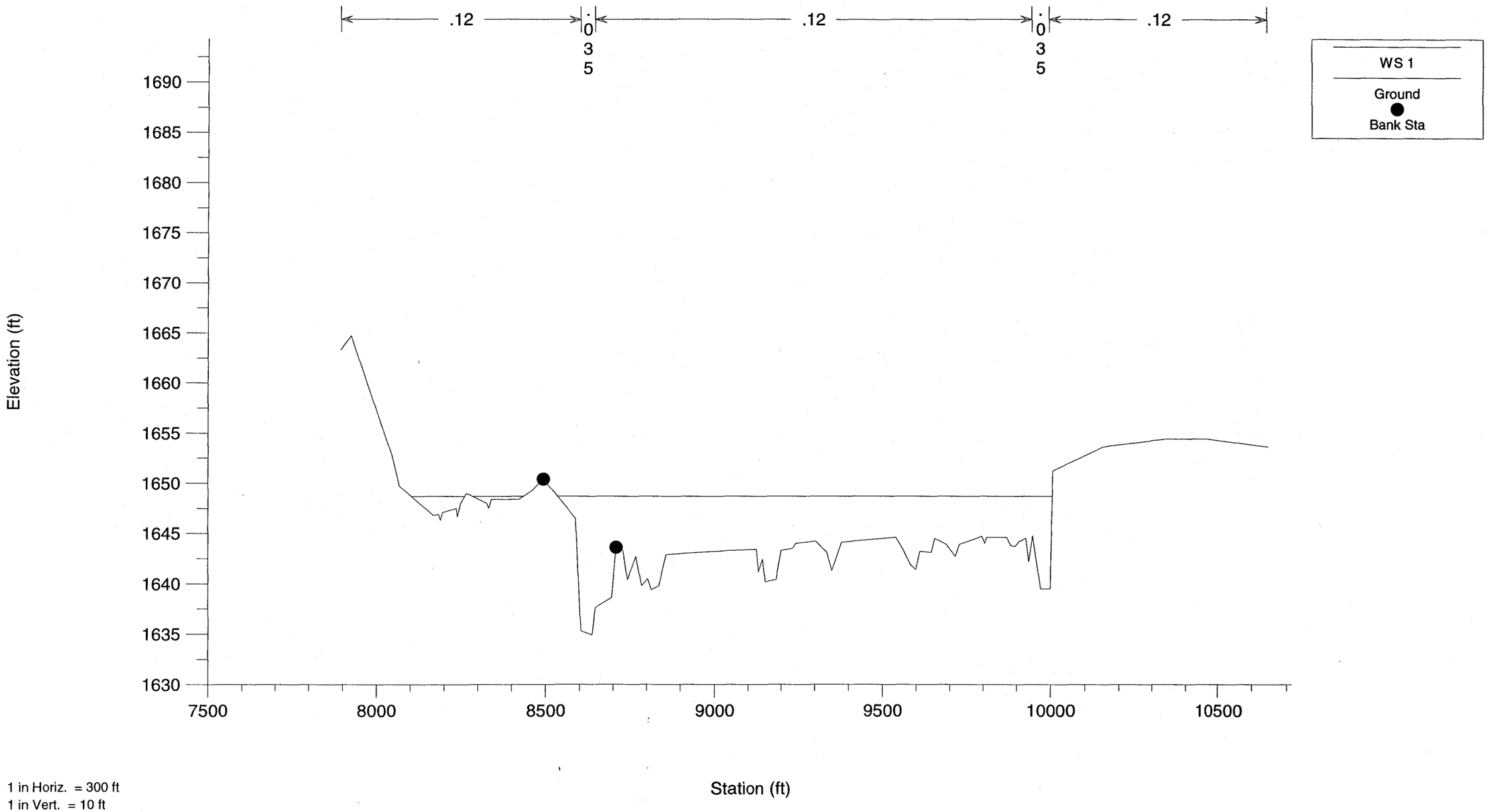


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

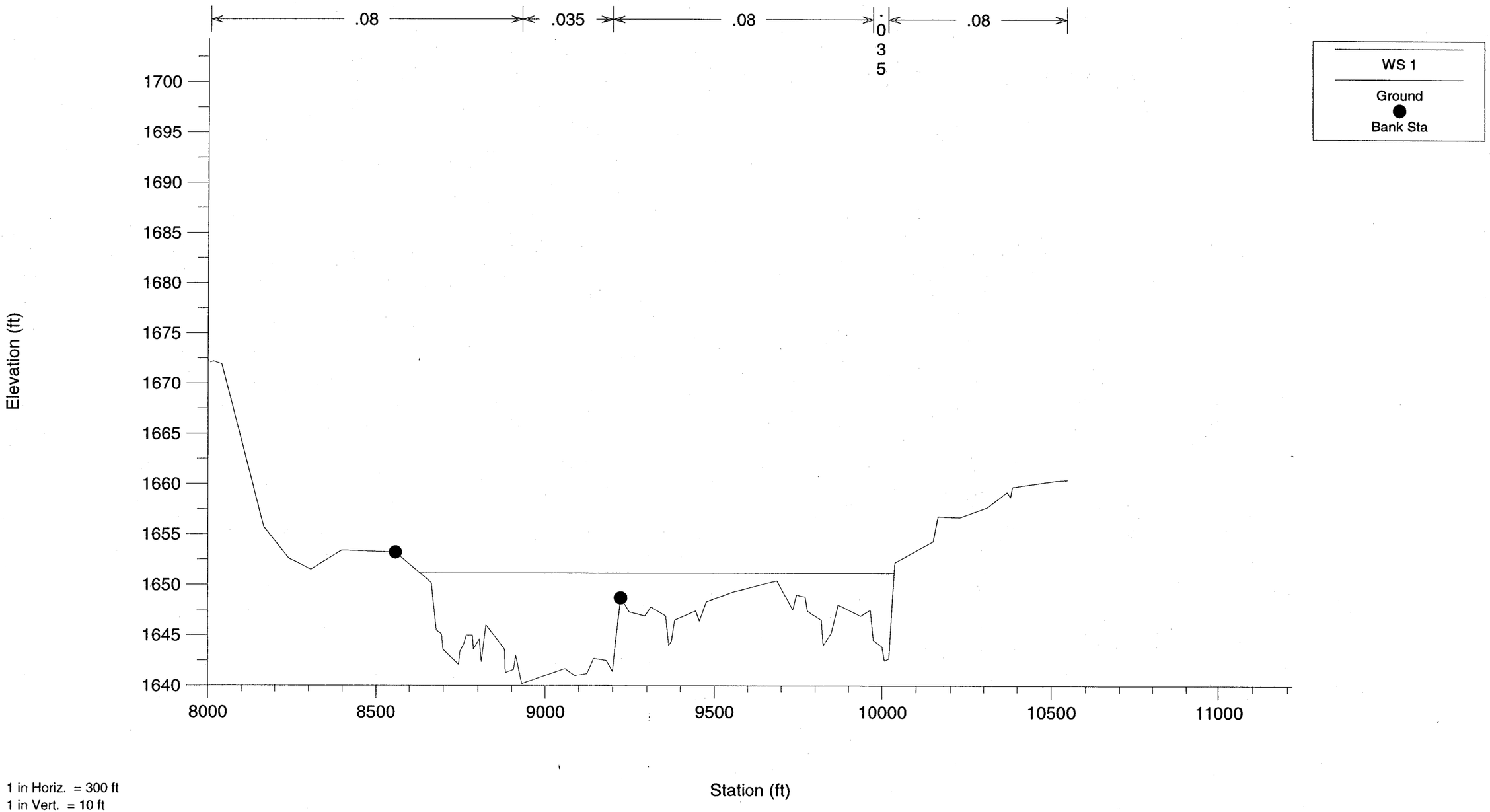
Cave Creek Wash South FIS 100-Year "n" Values
24.845 Cross Section D



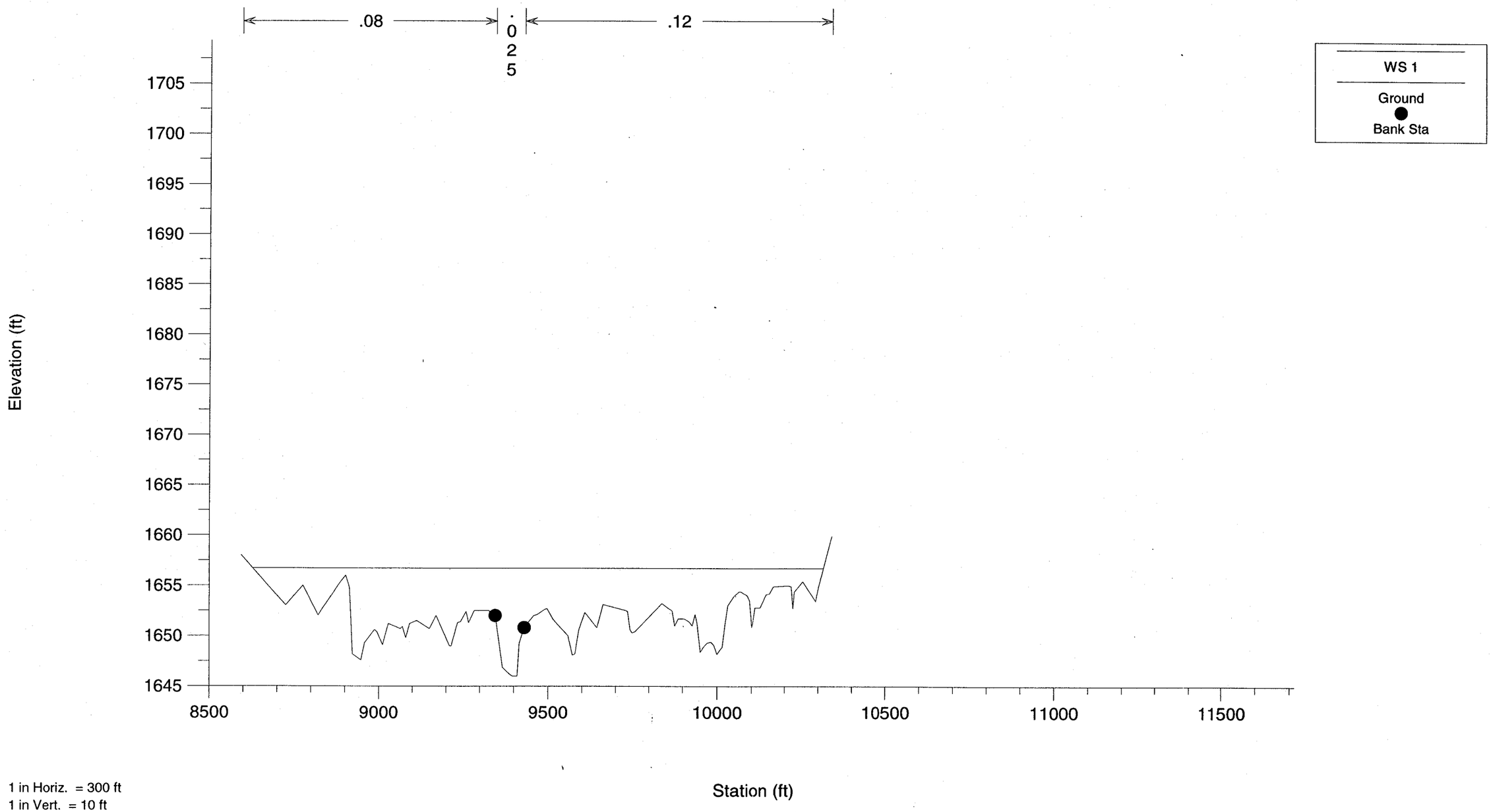
Cave Creek Wash South FIS 100-Year "n" Values
24.919 Cross Section E



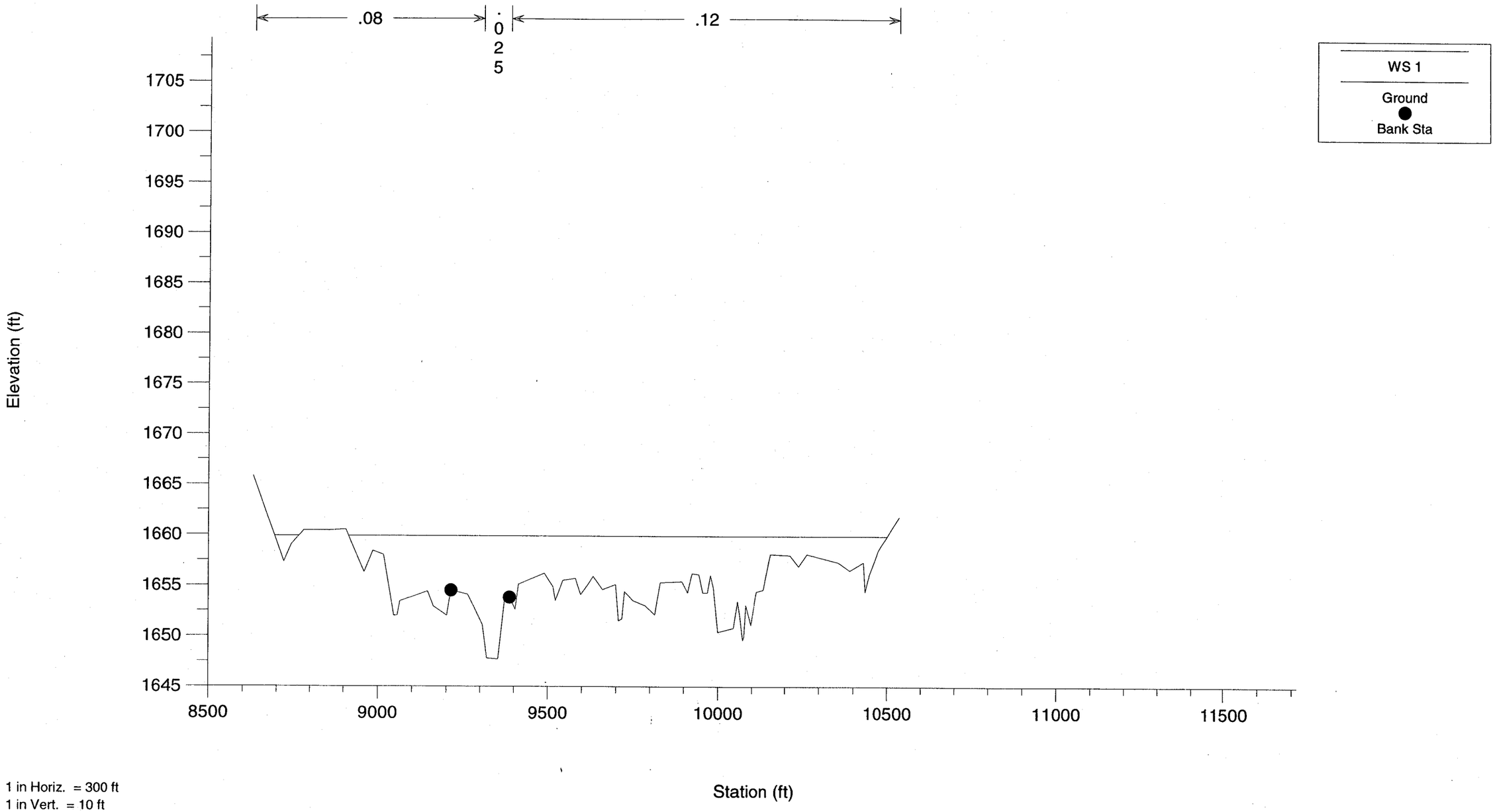
Cave Creek Wash South FIS 100-Year "n" Values
25.010 Cross Section F



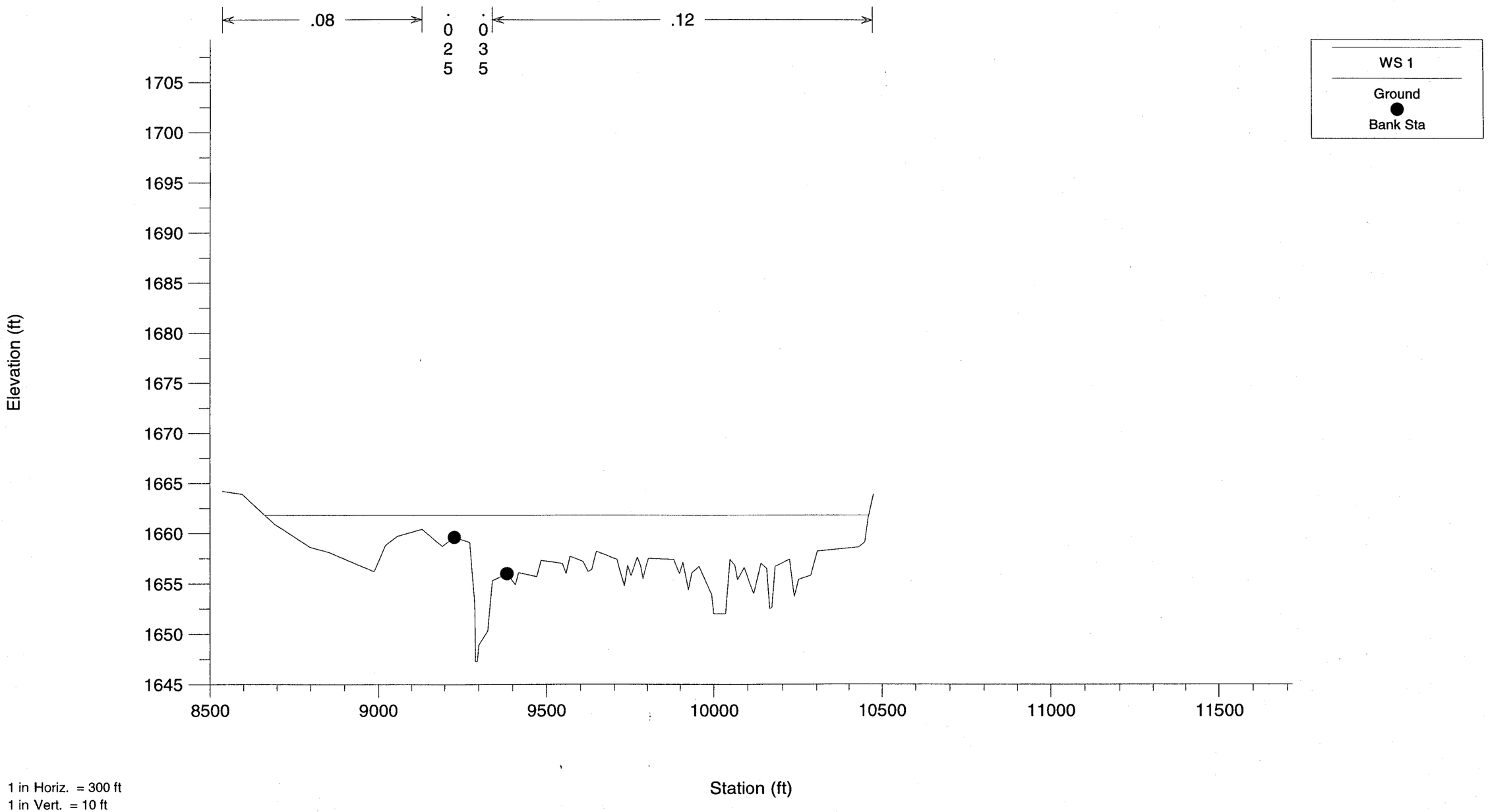
Cave Creek Wash South FIS 100-Year "n" Values
25.099 Cross Section G



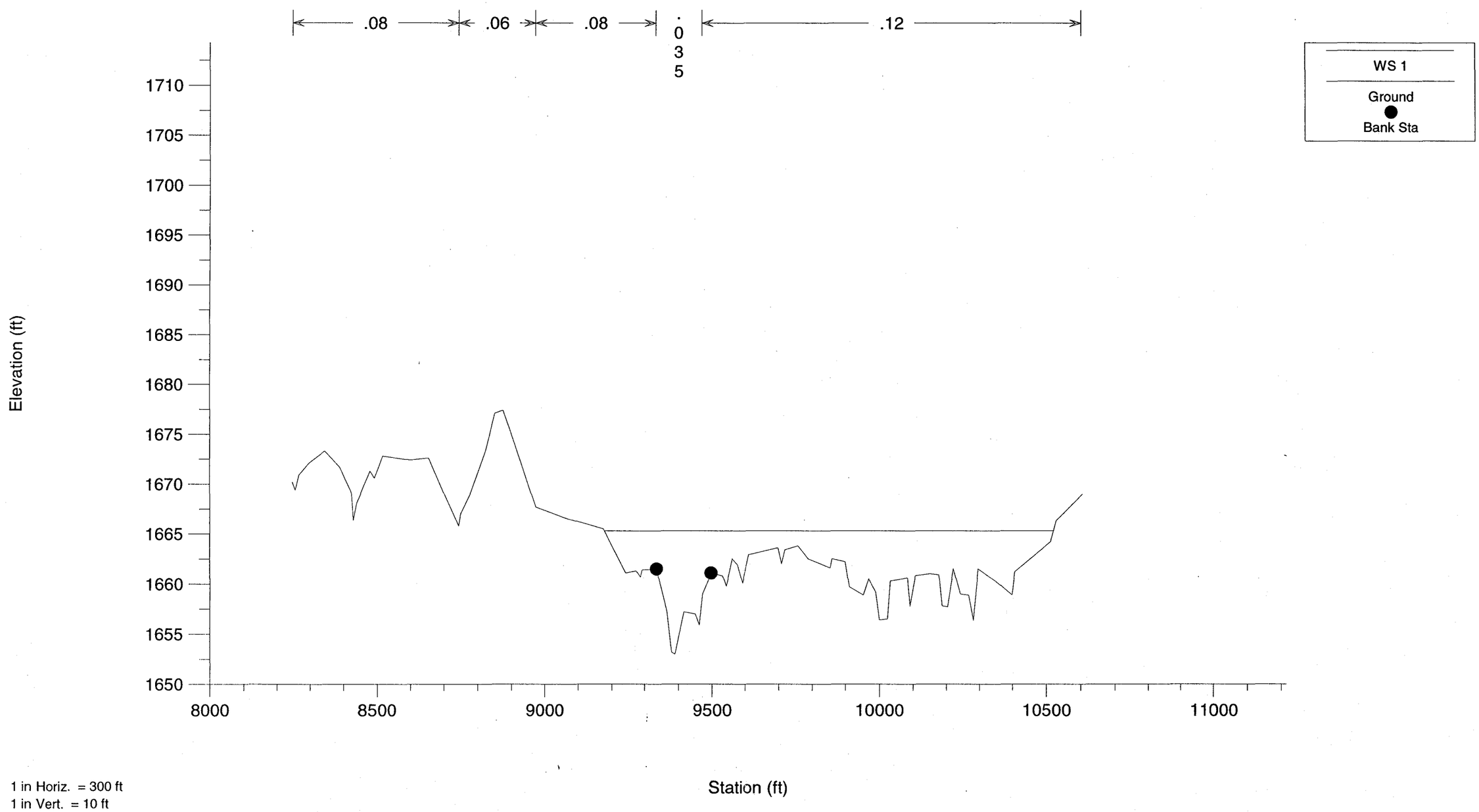
Cave Creek Wash South FIS 100-Year "n" Values
25.180 Cross Section H



Cave Creek Wash South FIS 100-Year "n" Values
25.233 Cross Section I

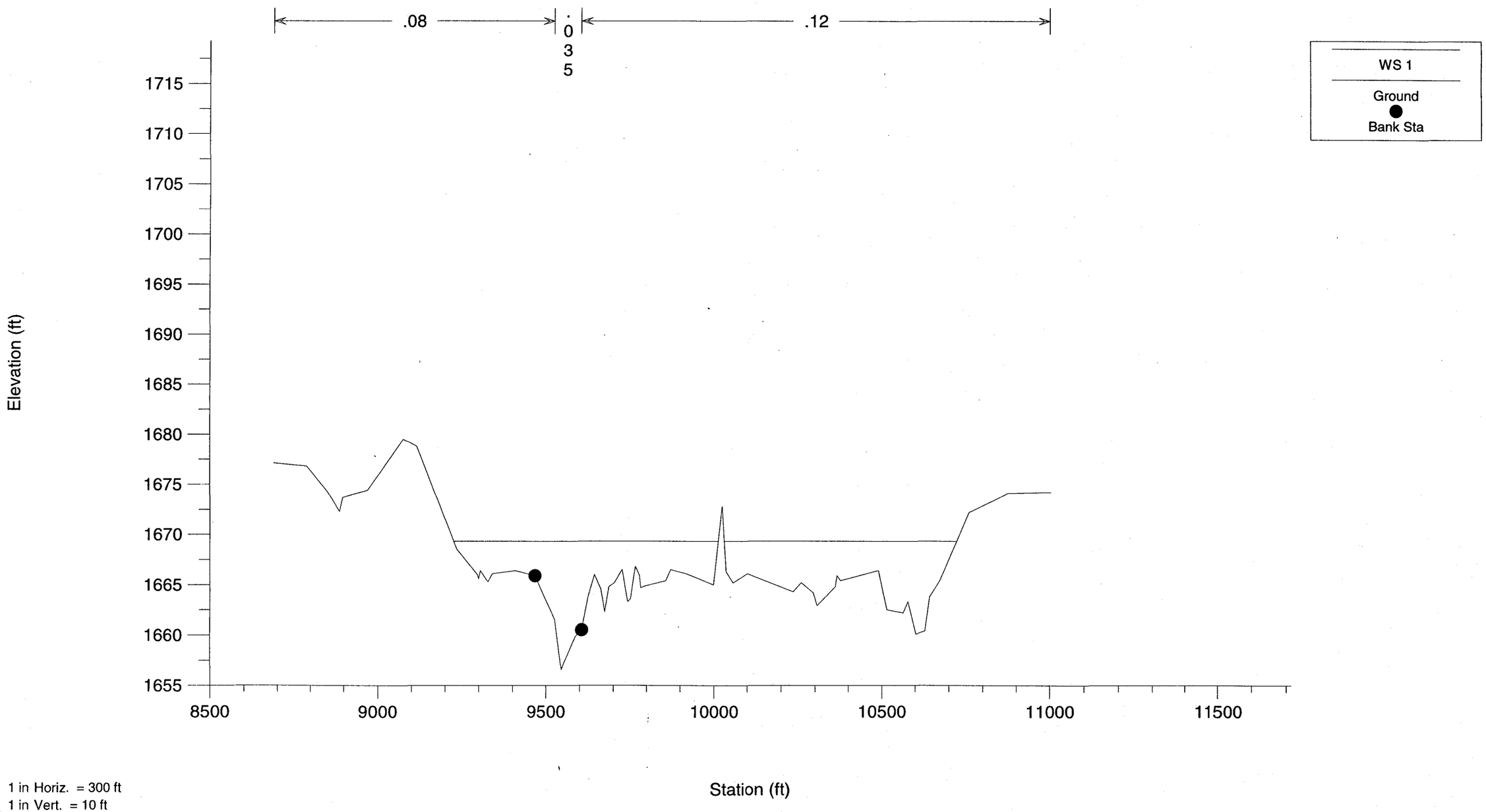


Cave Creek Wash South FIS 100-Year "n" Values
25.326 Cross Section J



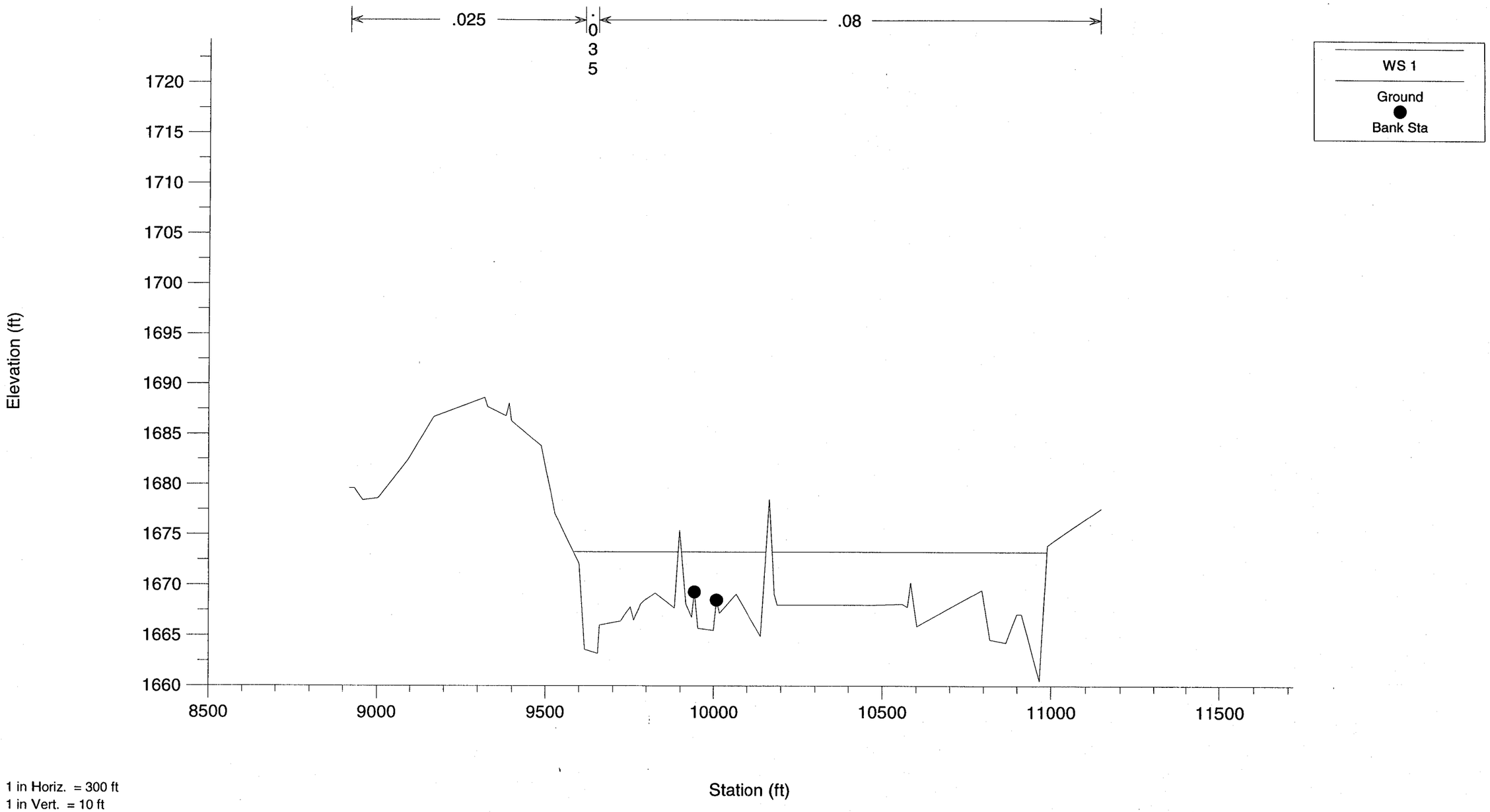
1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
25.388 Cross Section K

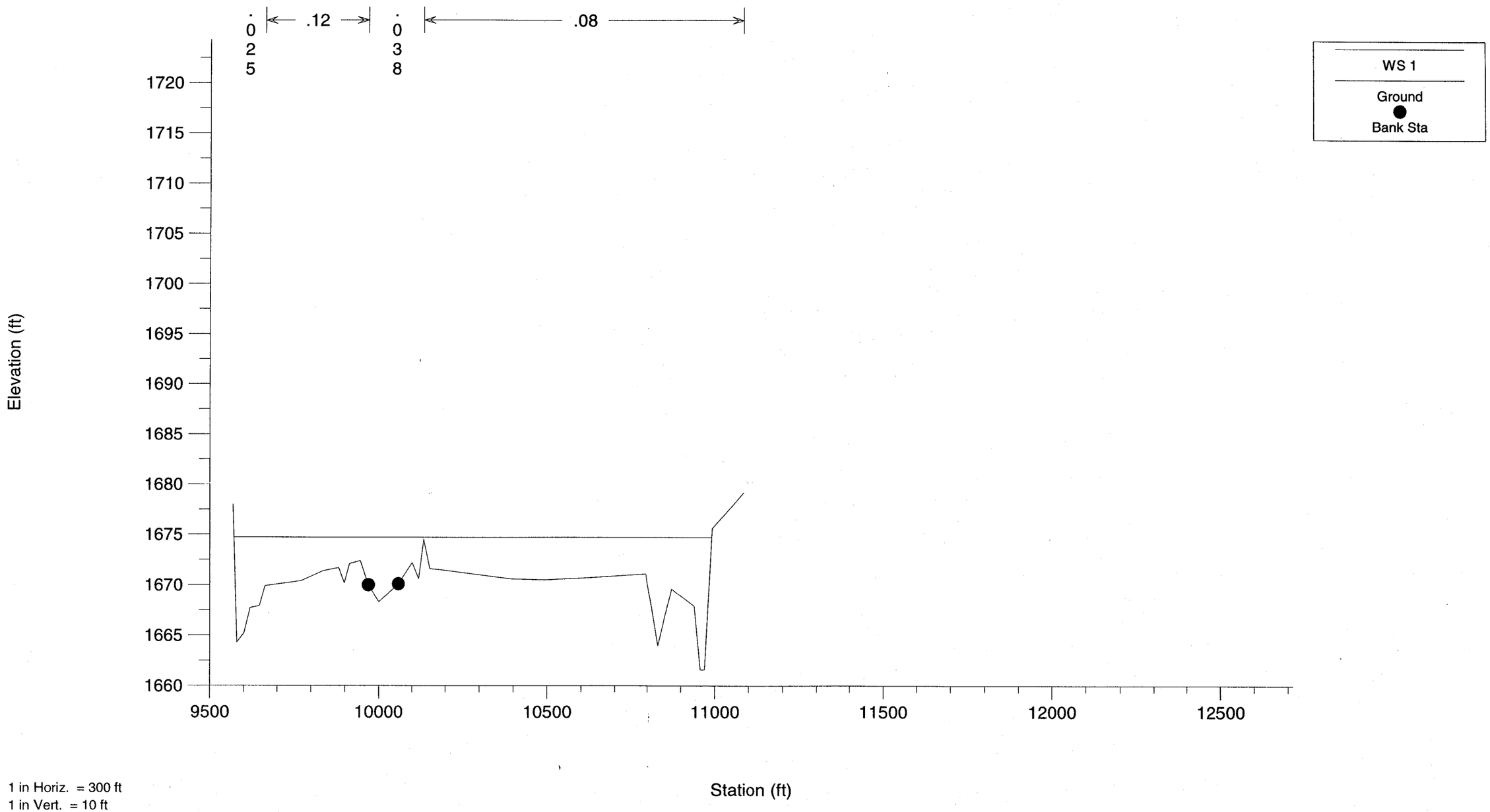


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

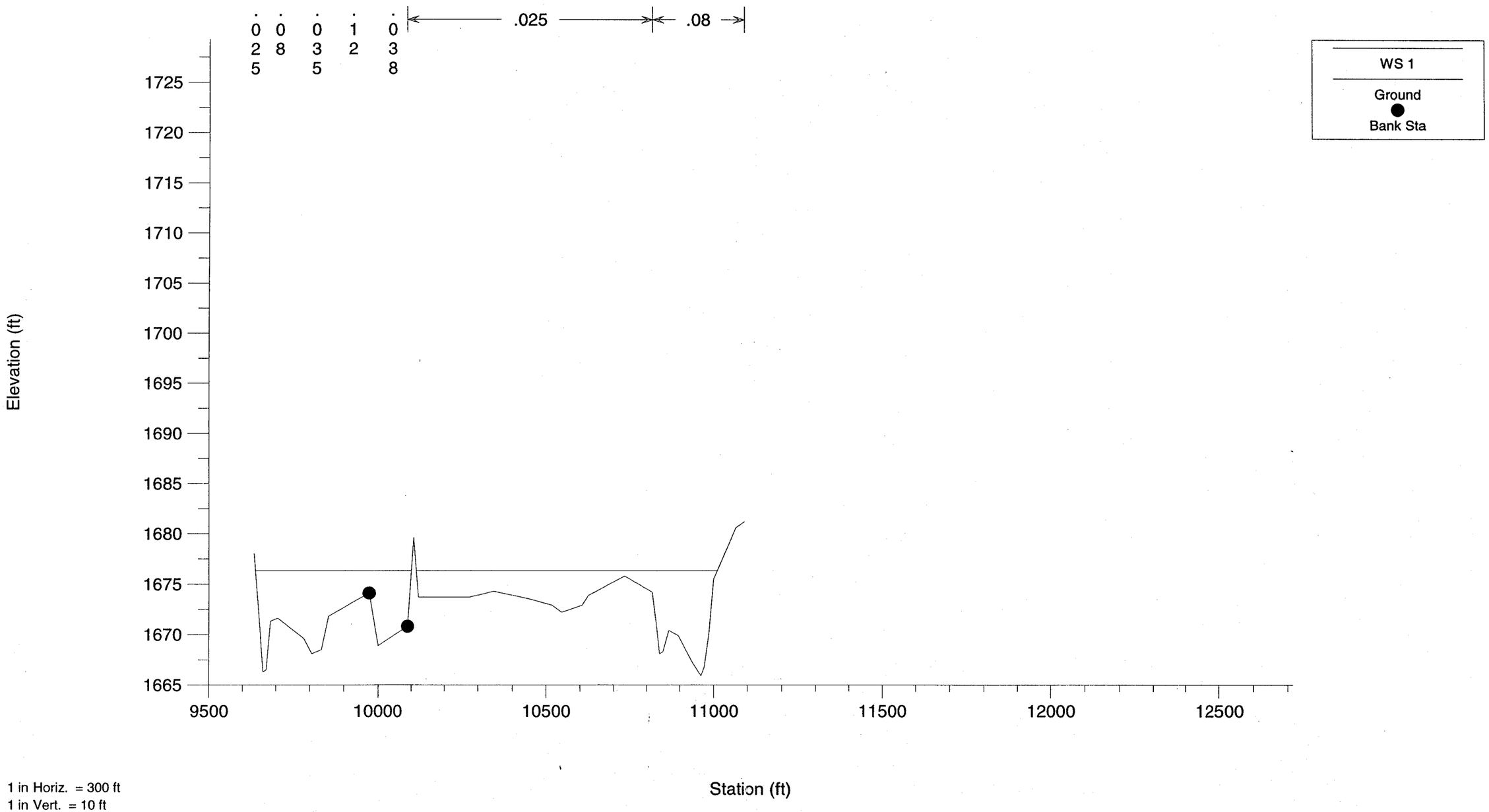
Cave Creek Wash South FIS 100-Year "n" Values
25.458 Cross Section L



Cave Creek Wash South FIS 100-Year "n" Values
25.519 Cross Section M

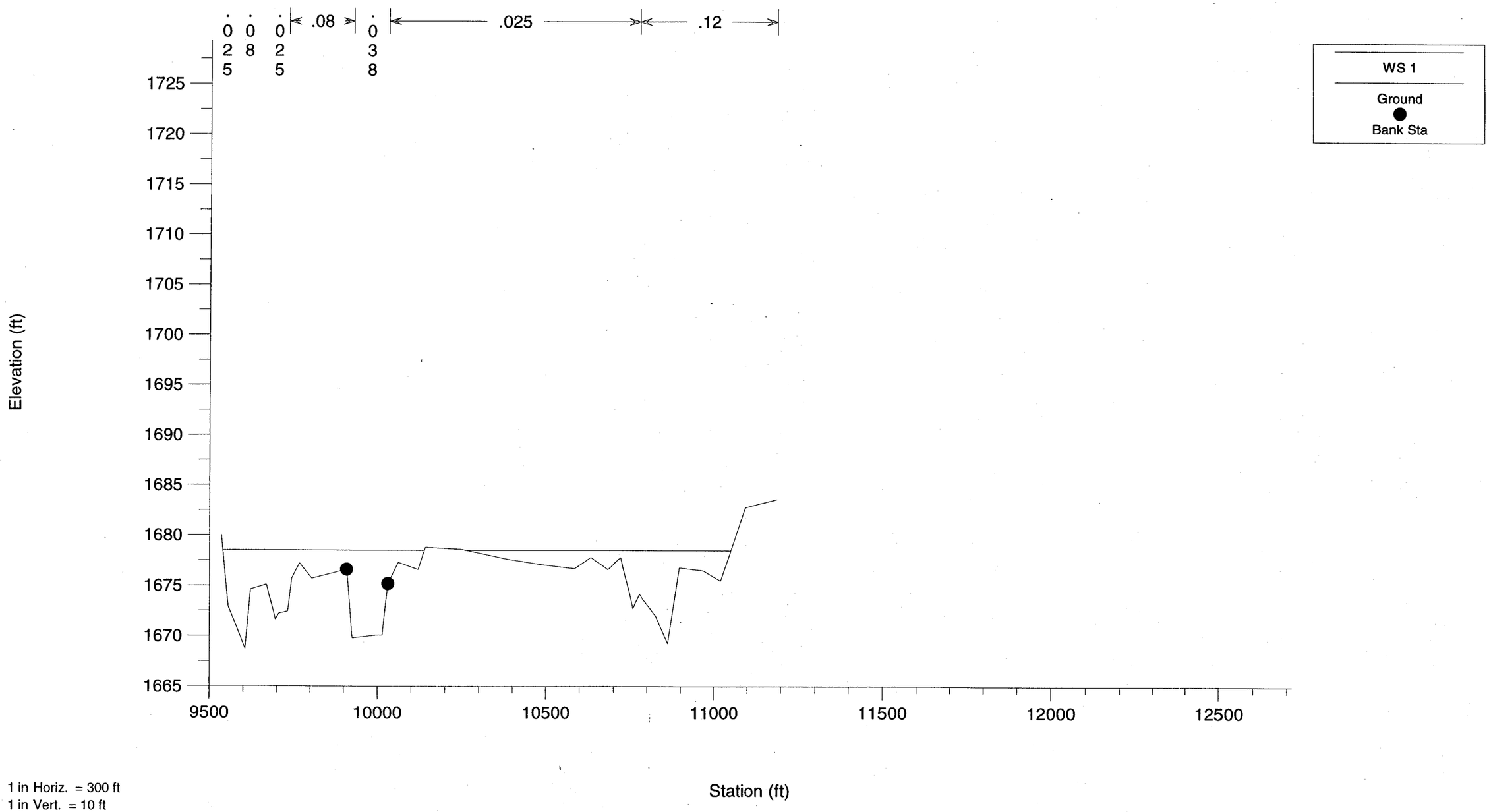


Cave Creek Wash South FIS 100-Year "n" Values
25.580 Cross Section N

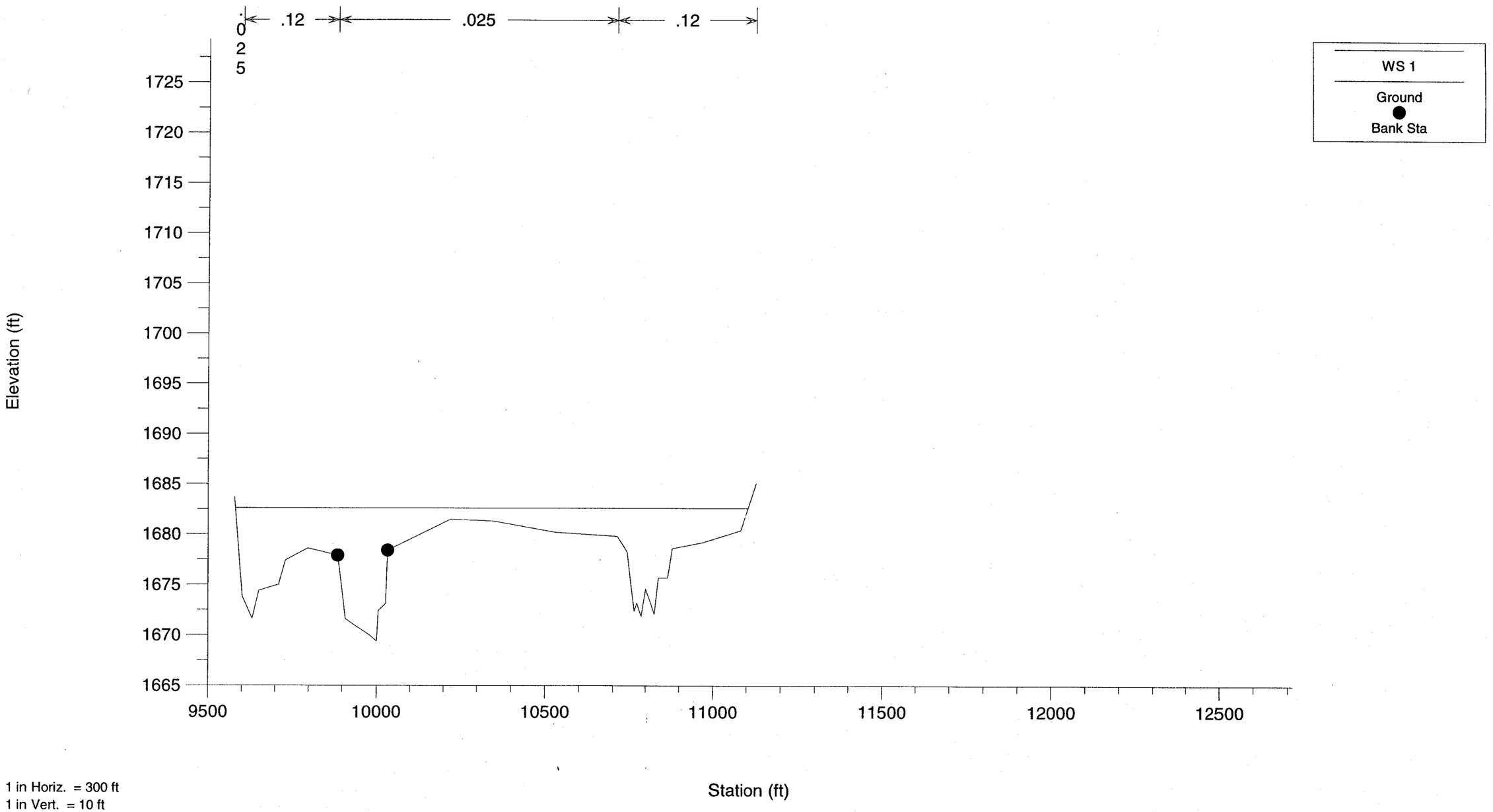


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

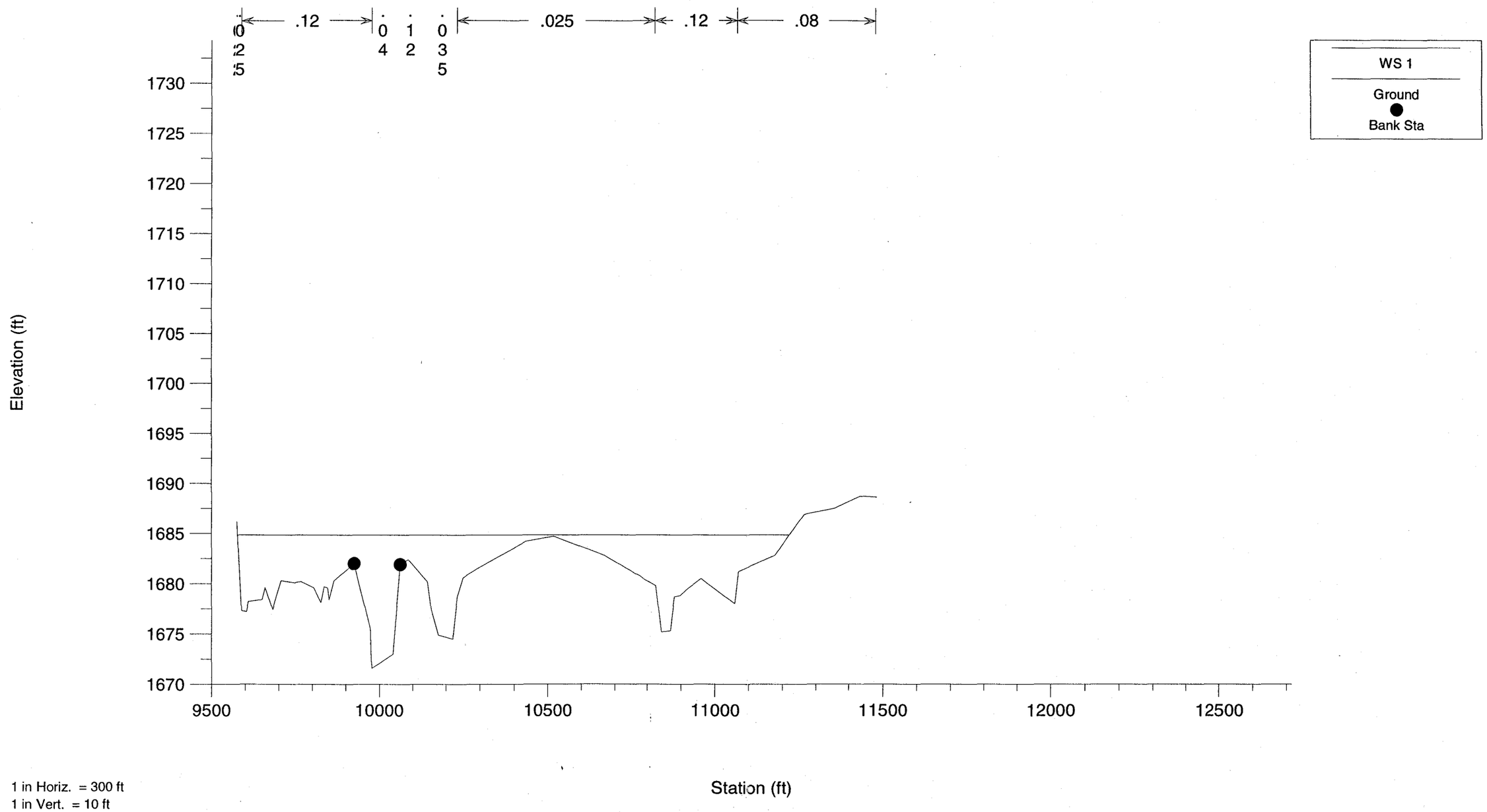
Cave Creek Wash South FIS 100-Year "n" Values
25.644 Cross Section O



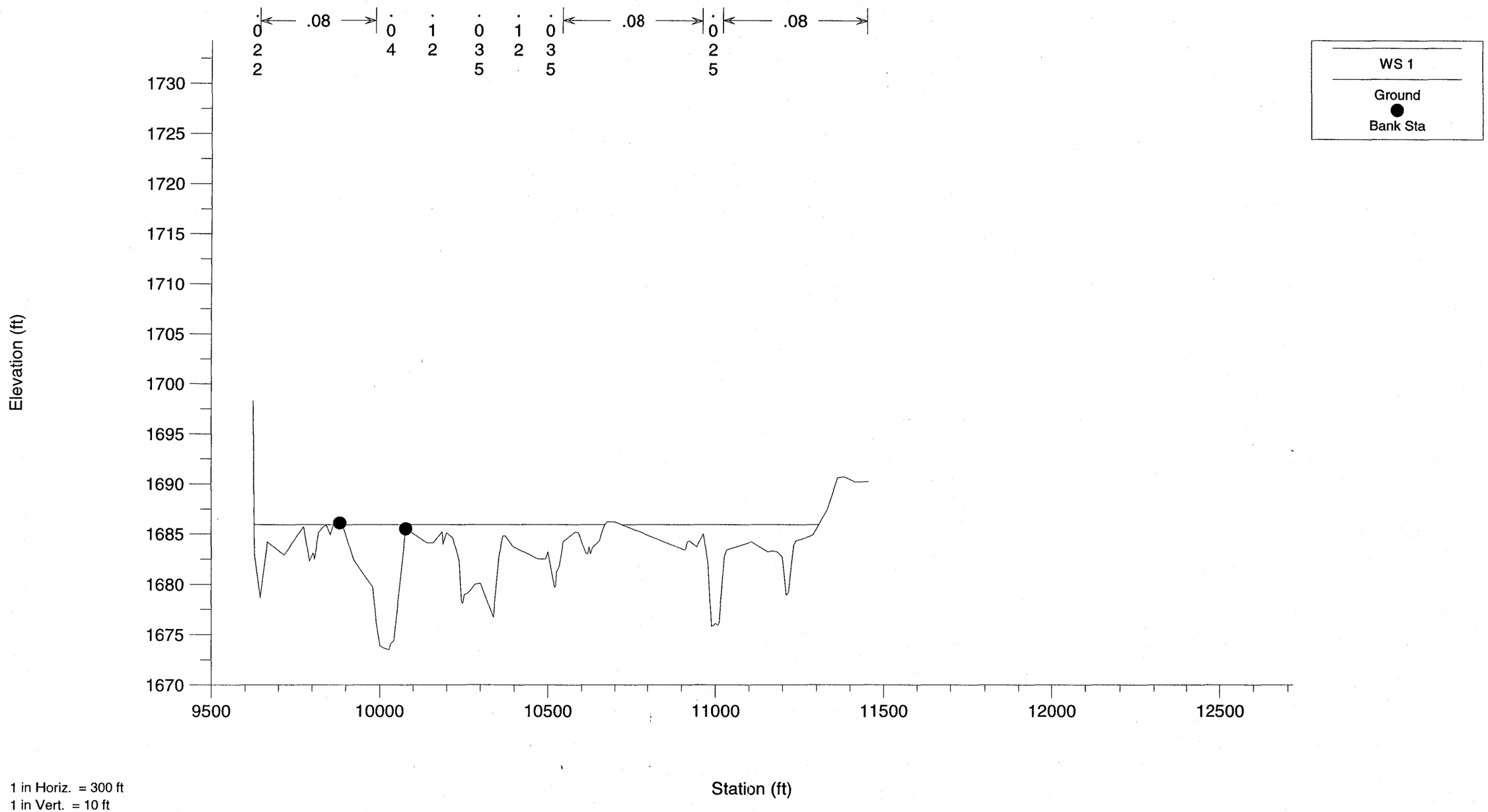
Cave Creek Wash South FIS 100-Year "n" Values
25.699 Cross Section P



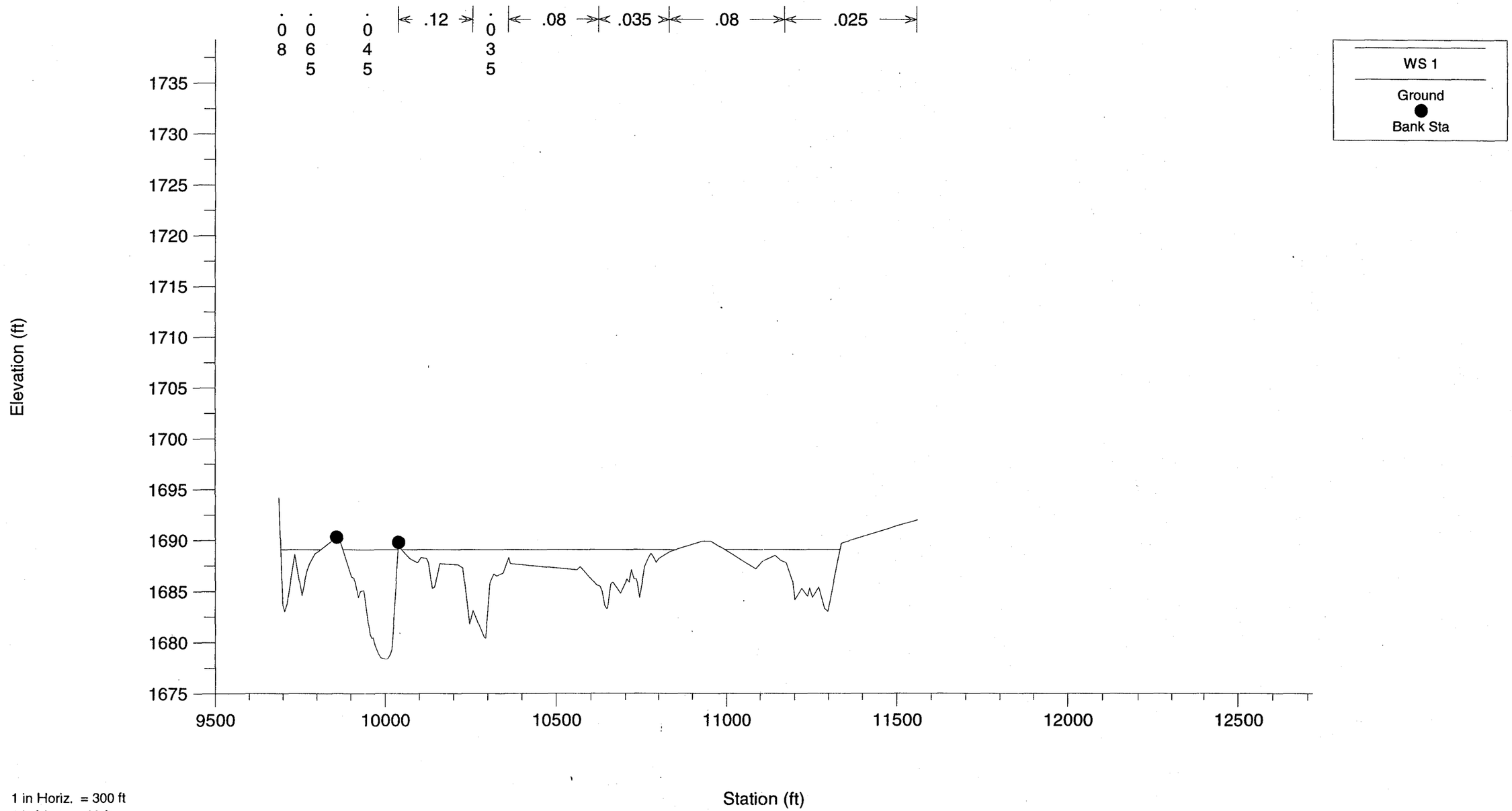
Cave Creek Wash South FIS 100-Year "n" Values
25.750 Cross Section Q



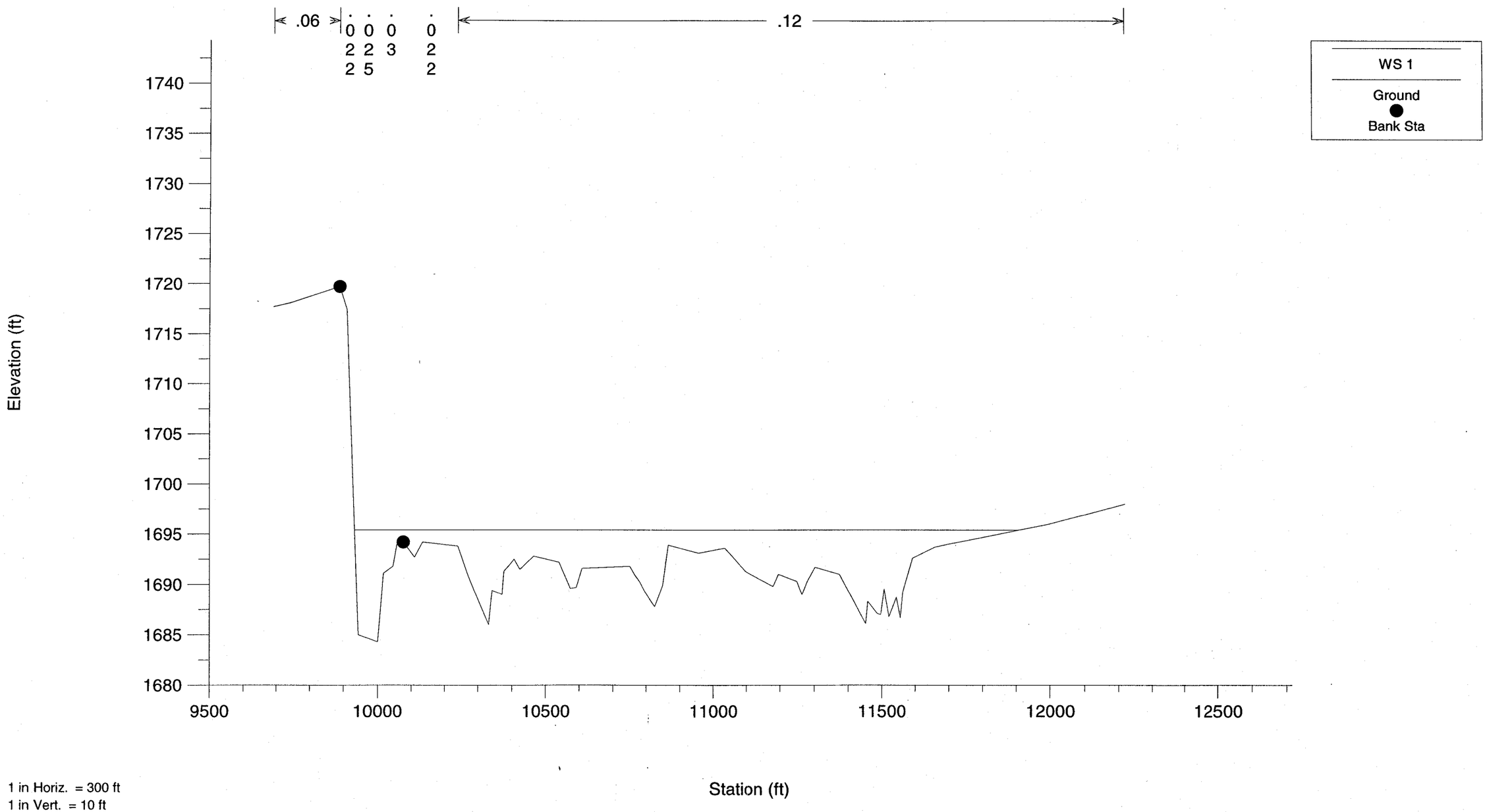
Cave Creek Wash South FIS 100-Year "n" Values
25.843 Cross Section R



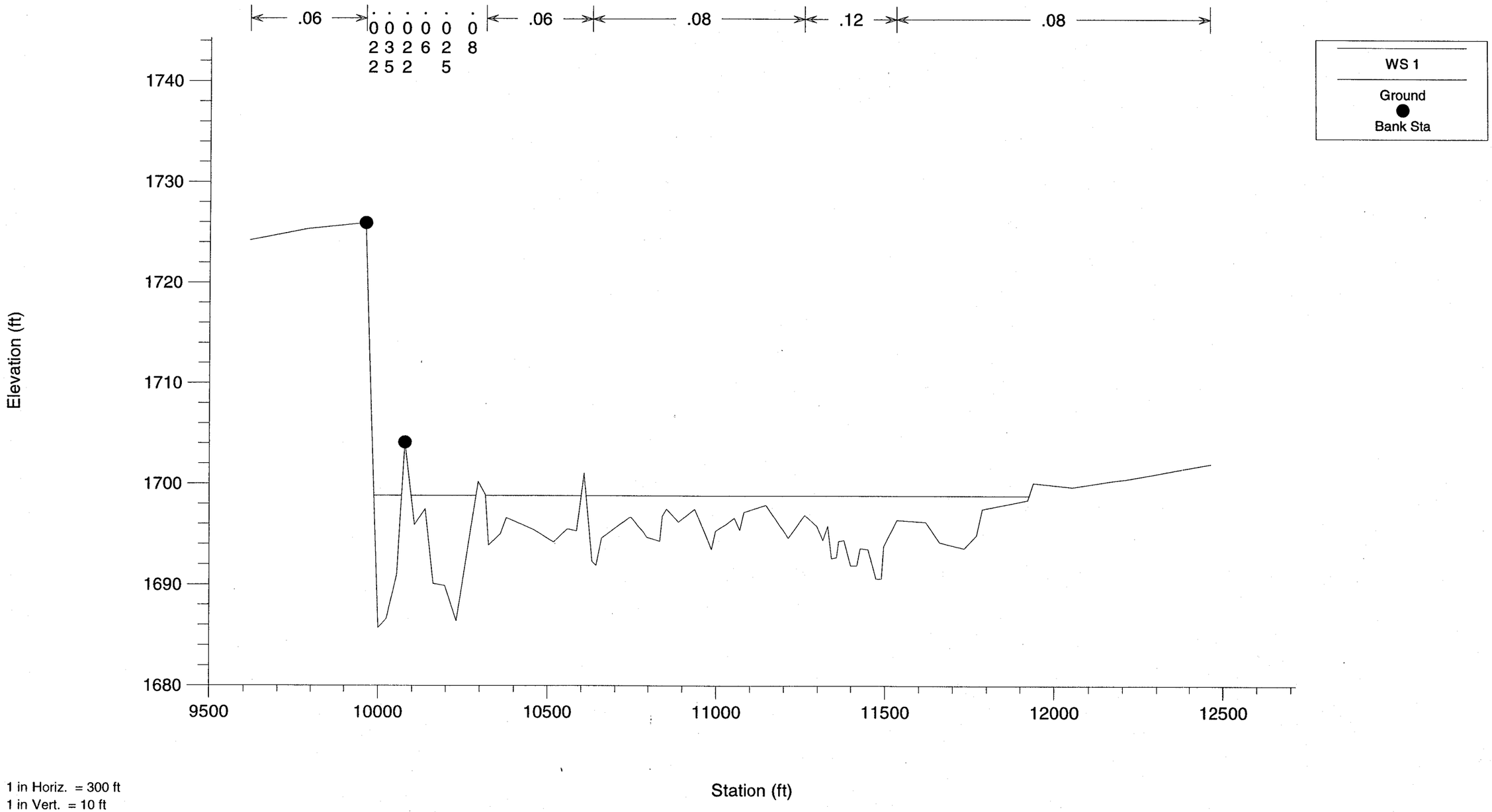
Cave Creek Wash South FIS 100-Year "n" Values
25.919 Cross Section S



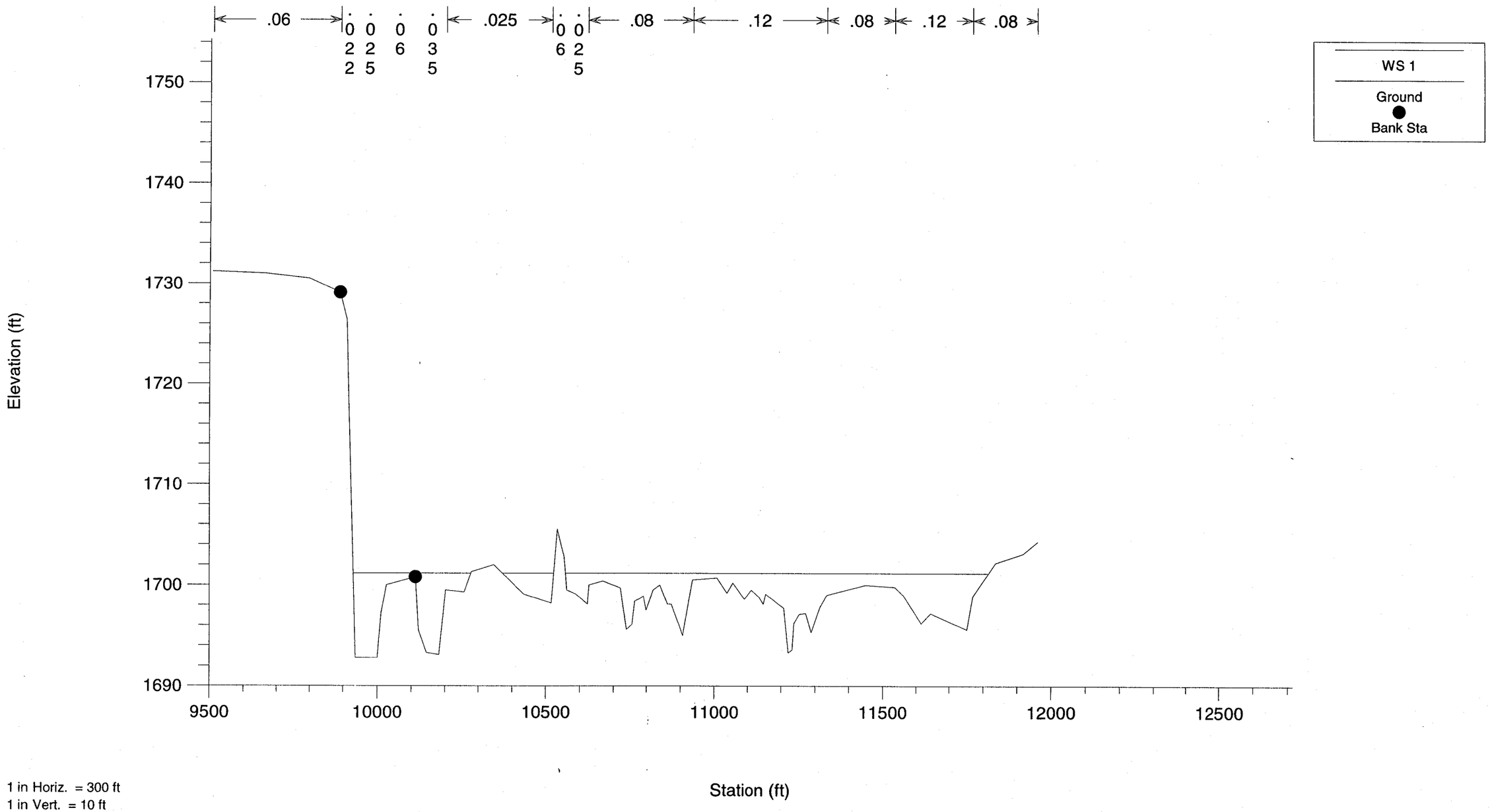
Cave Creek Wash South FIS 100-Year "n" Values
26.044 Cross Section T



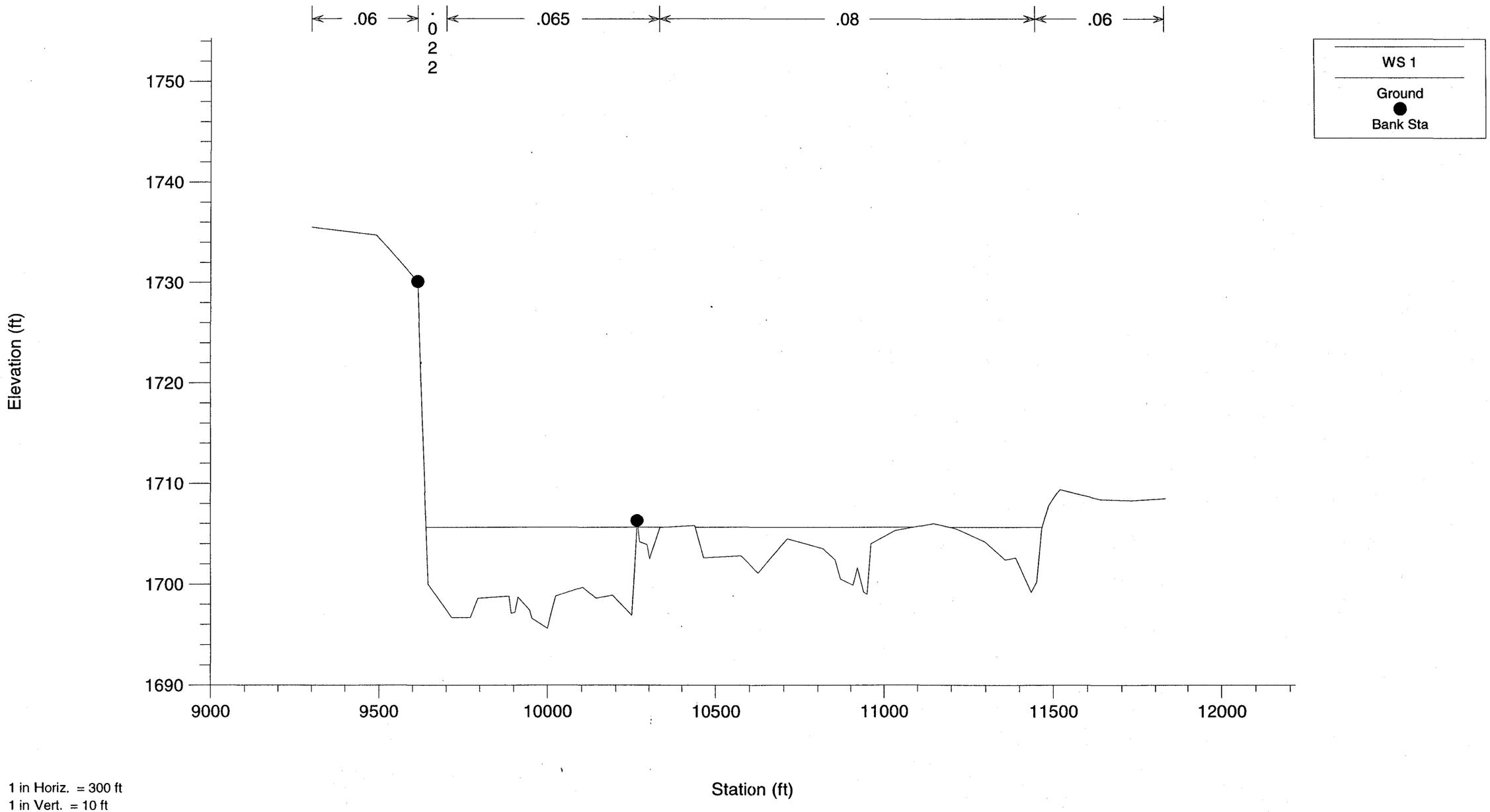
Cave Creek Wash South FIS 100-Year "n" Values
26.137 Cross Section U



Cave Creek Wash South FIS 100-Year "n" Values
26.239 Cross Section V

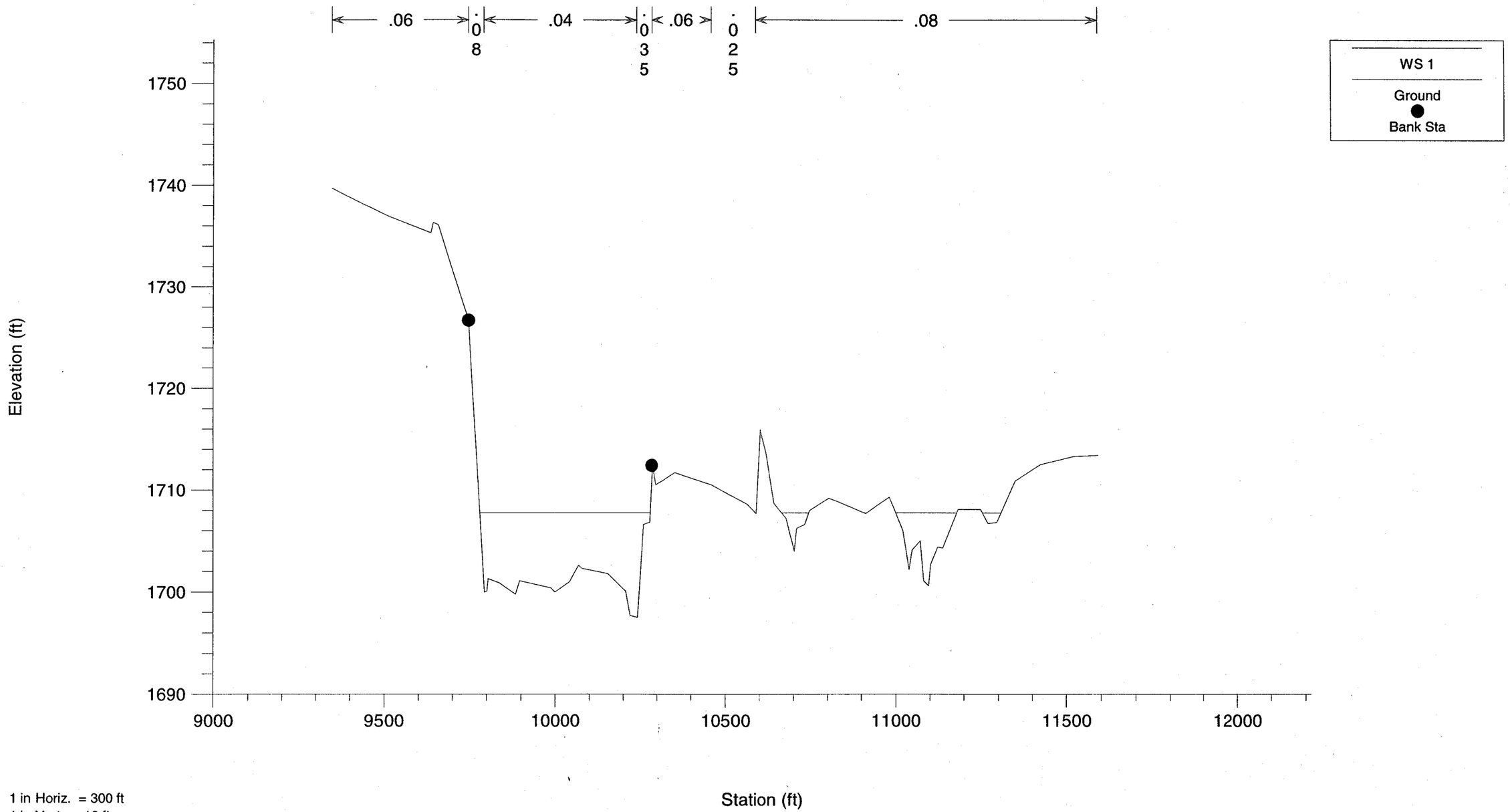


Cave Creek Wash South FIS 100-Year "n" Values
26.335 Cross Section W



1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
26.430 Cross Section X



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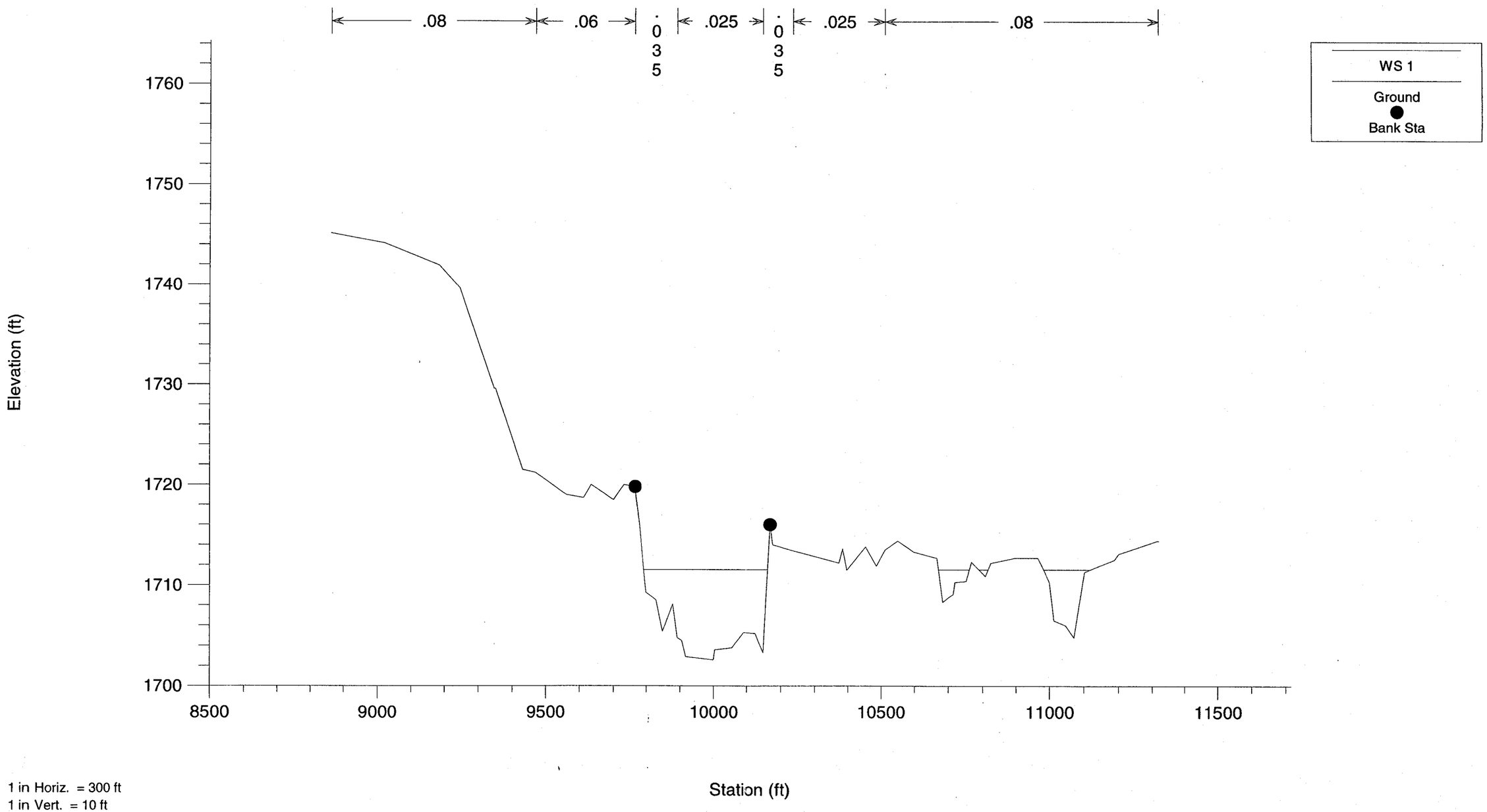
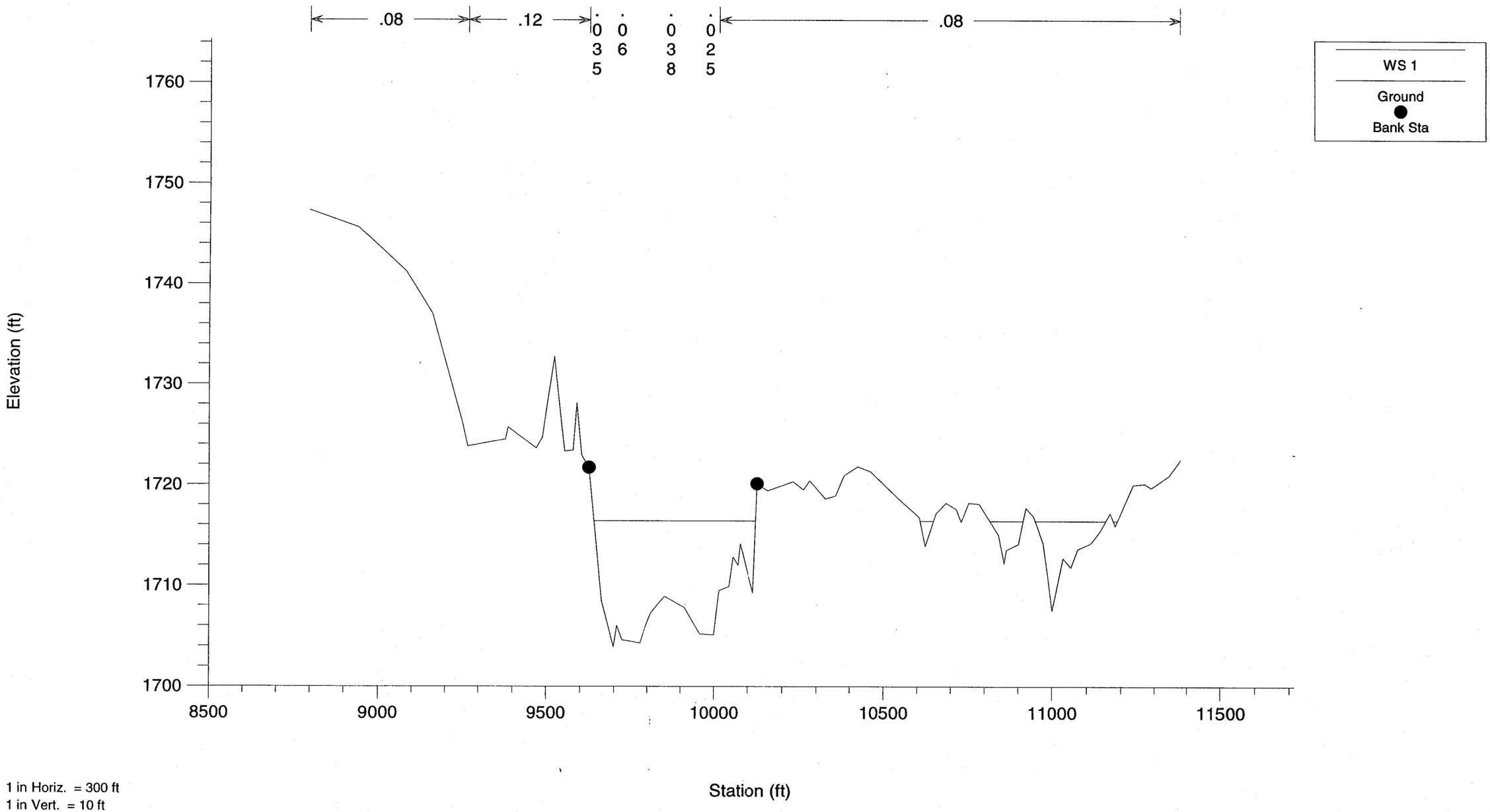
Cave Creek Wash South FIS 100-Year "n" Values
26.529 Cross Section Y



Cave Creek Wash South FIS 100-Year "n" Values
26.623 Cross Section Z



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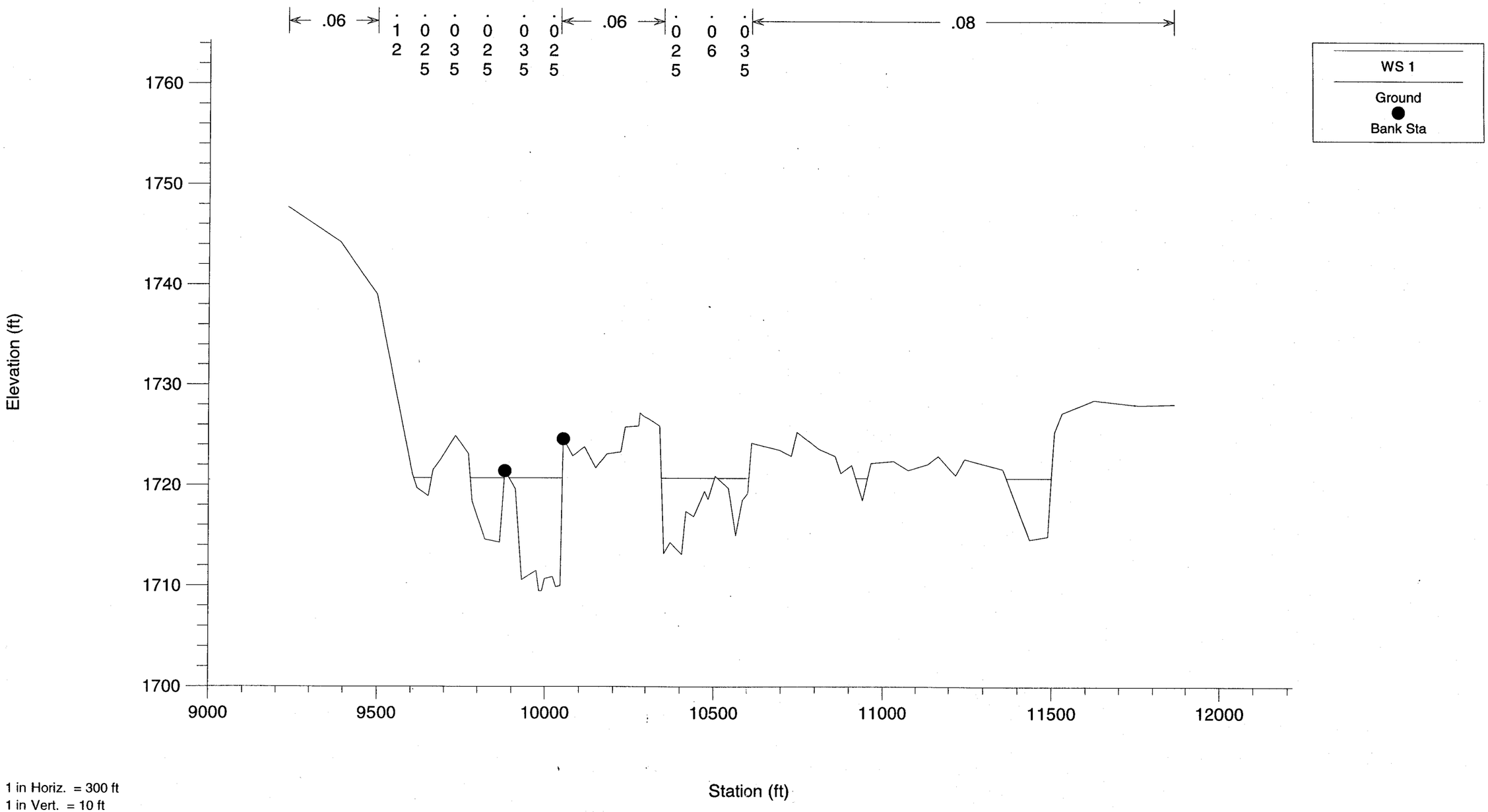
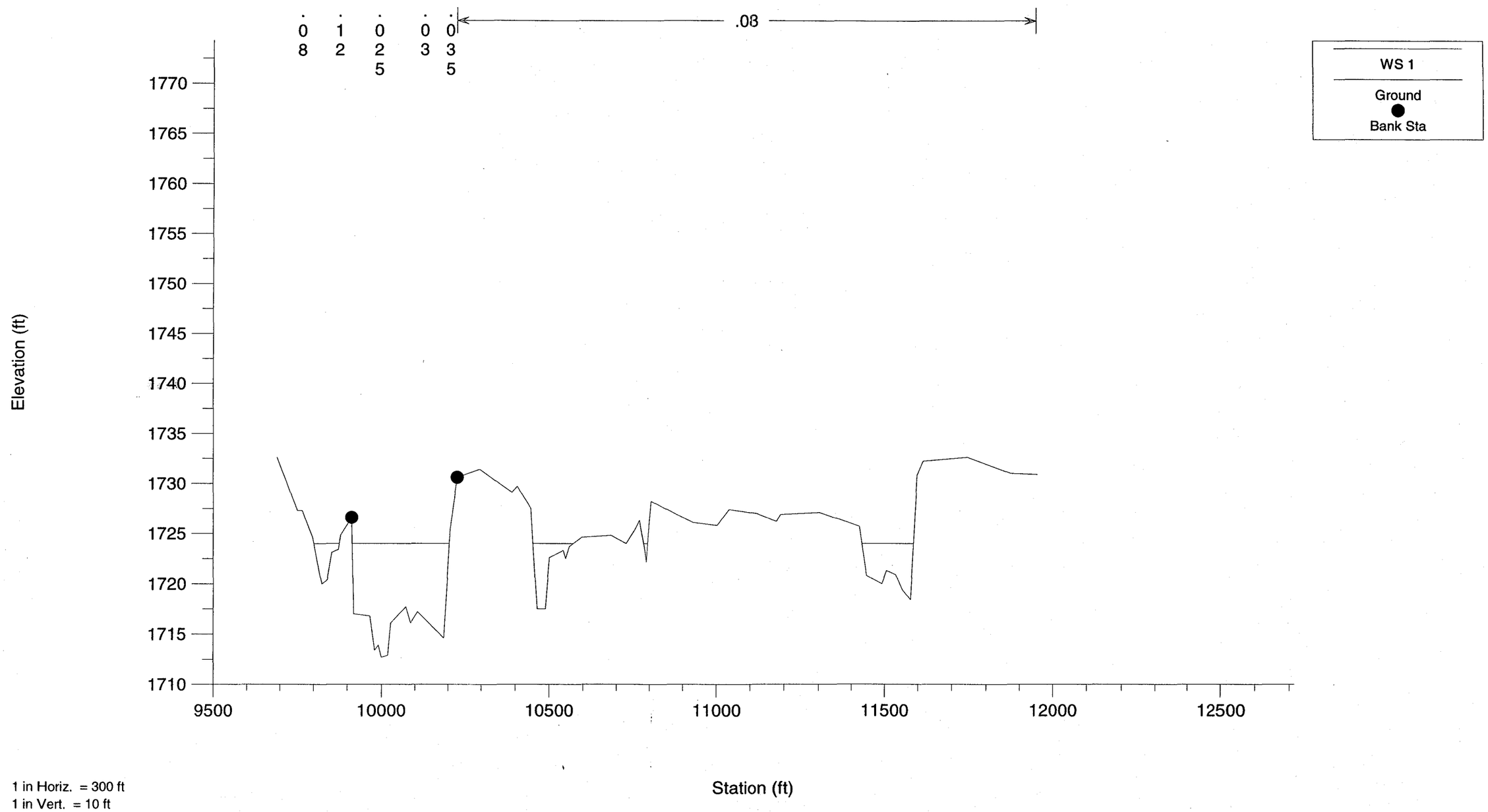
Cave Creek Wash South FIS 100-Year "n" Values
26.695 Cross Section AA



Cave Creek Wash South FIS 100-Year "n" Values
26.775 Cross Section AB



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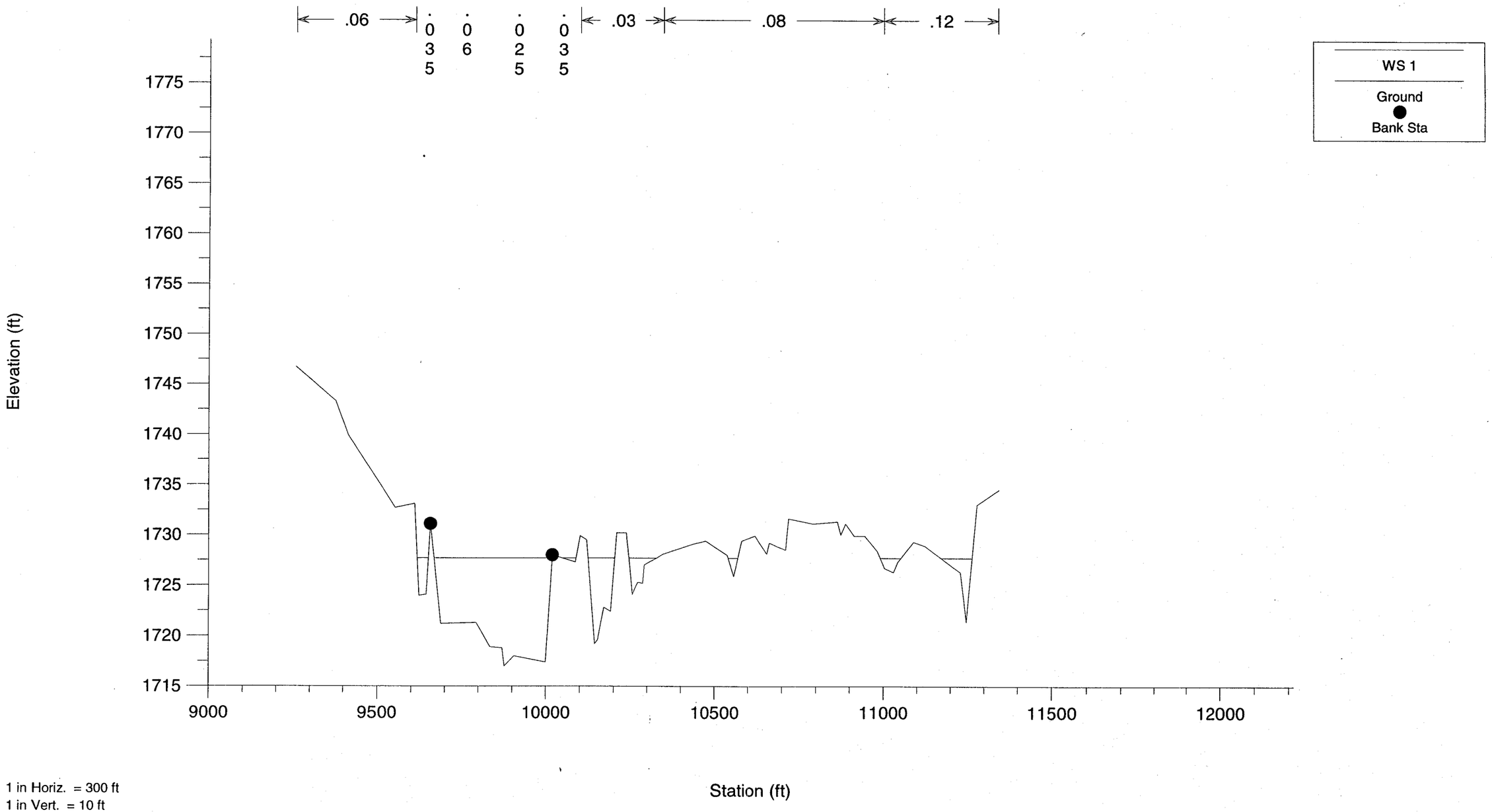
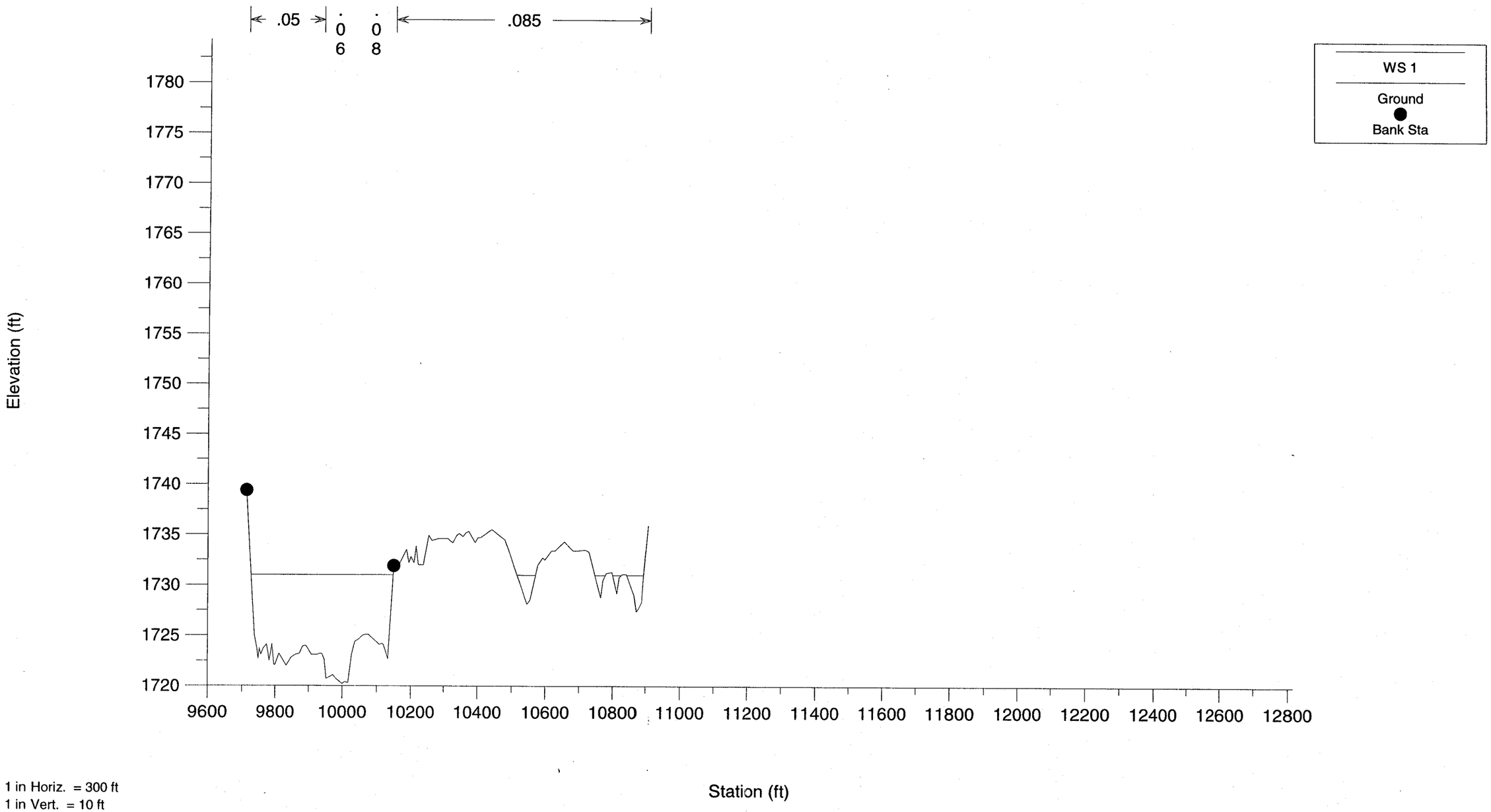
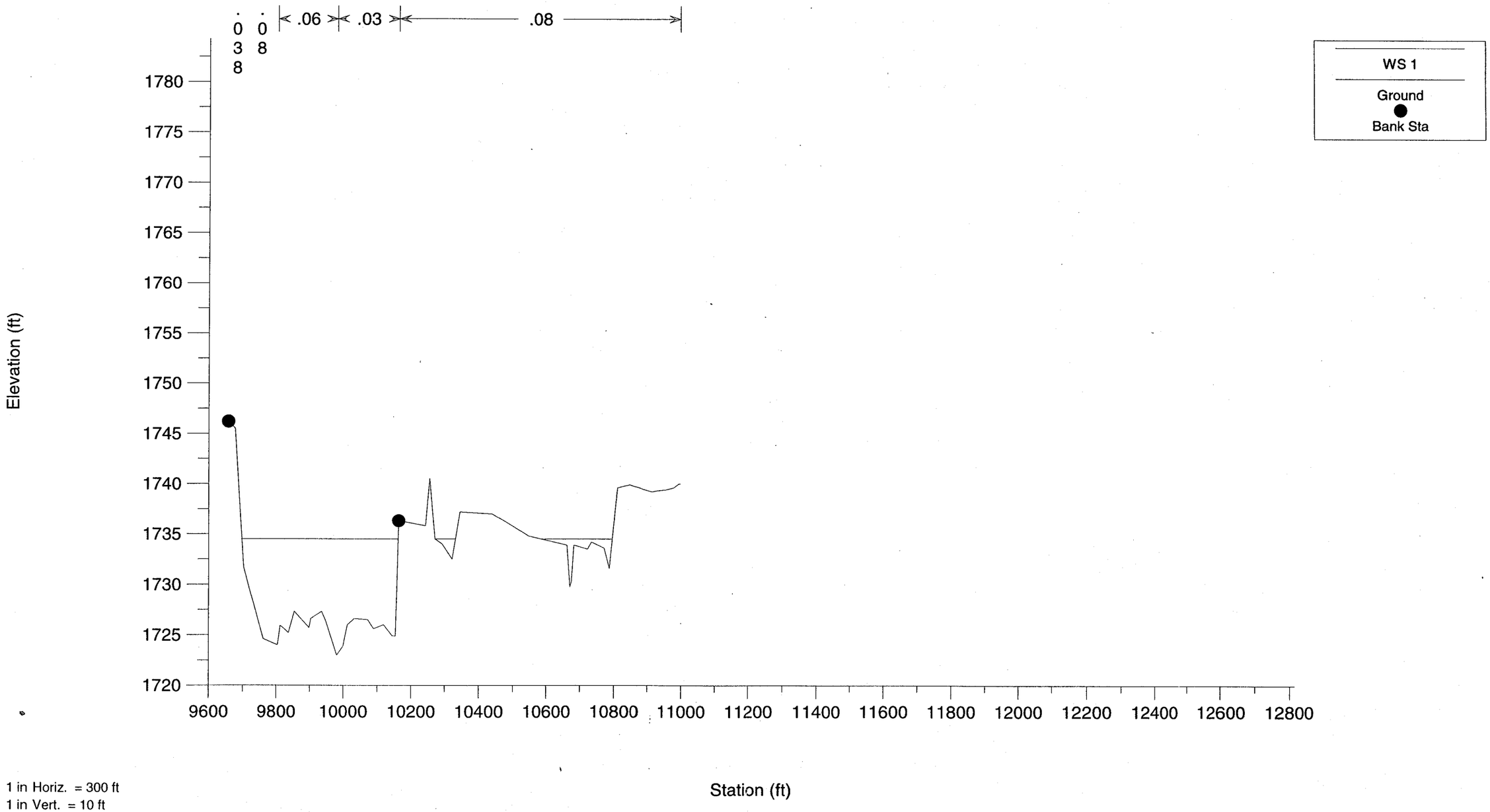
Cave Creek Wash South FIS 100-Year "n" Values
26.845 Cross Section AC



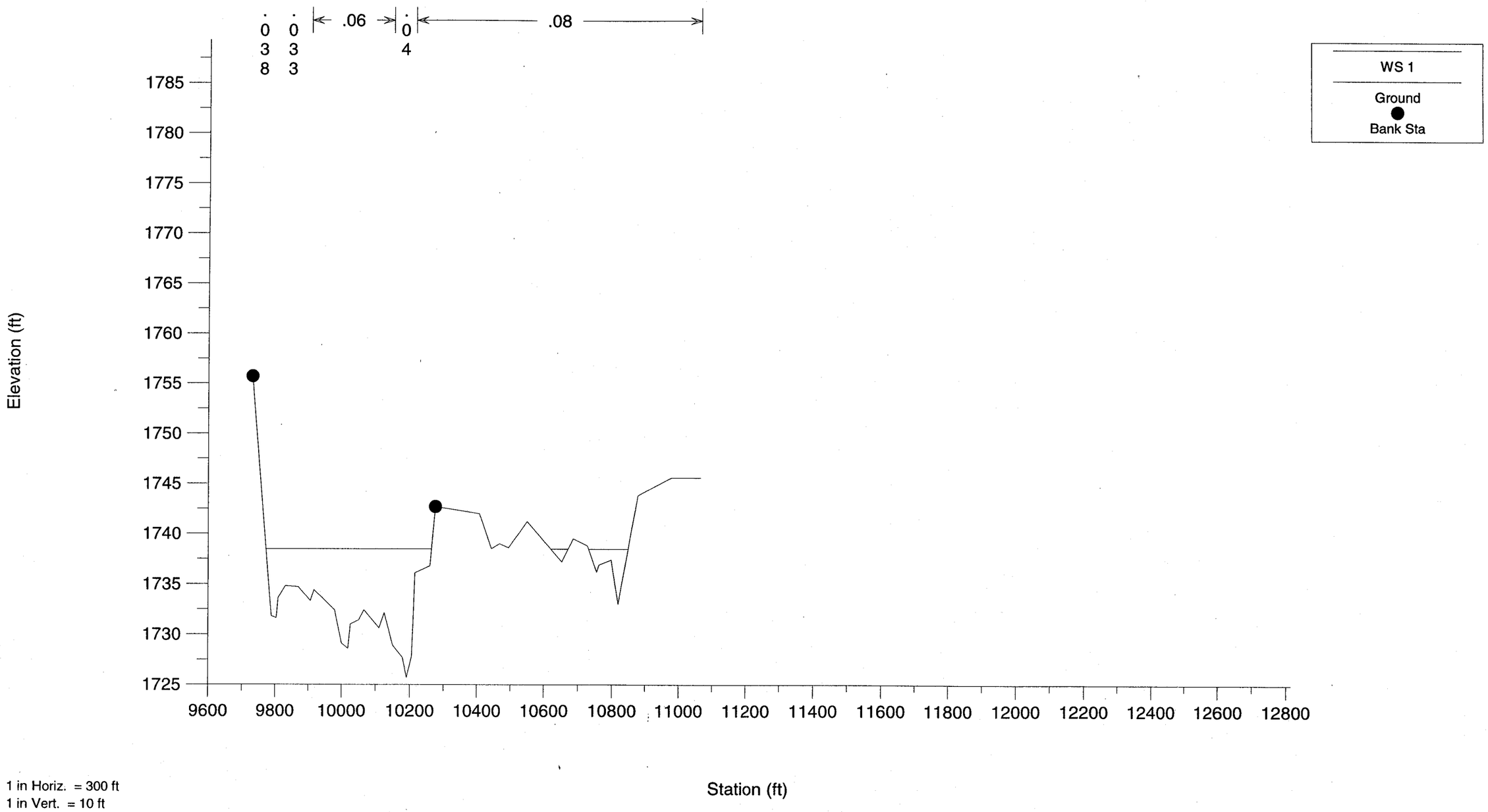
Cave Creek Wash South FIS 100-Year "n" Values
26.921 Cross Section AD



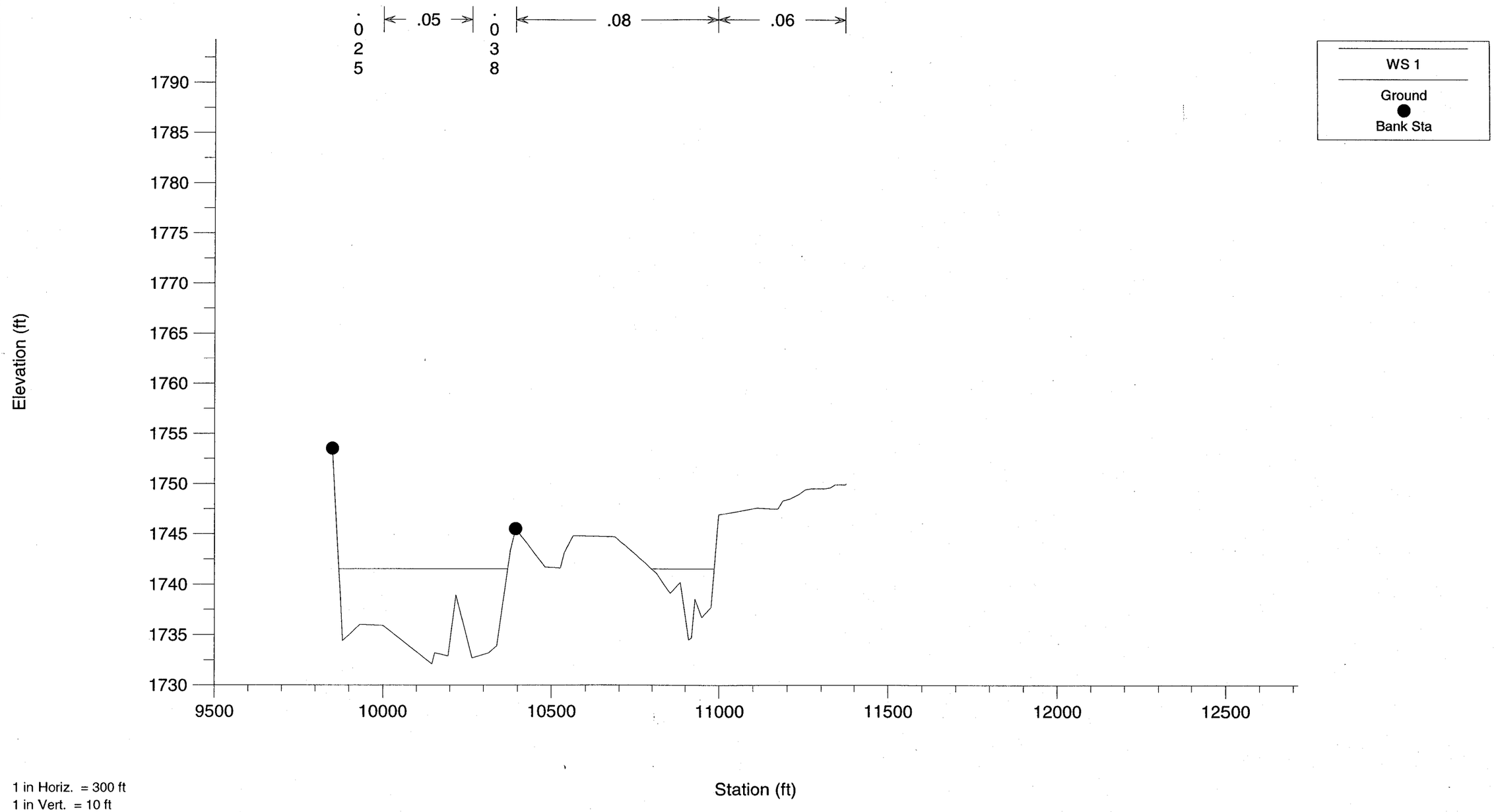
Cave Creek Wash South FIS 100-Year "n" Values
27.008 Cross Section AE



Cave Creek Wash South FIS 100-Year "n" Values
27.106 Cross Section AF

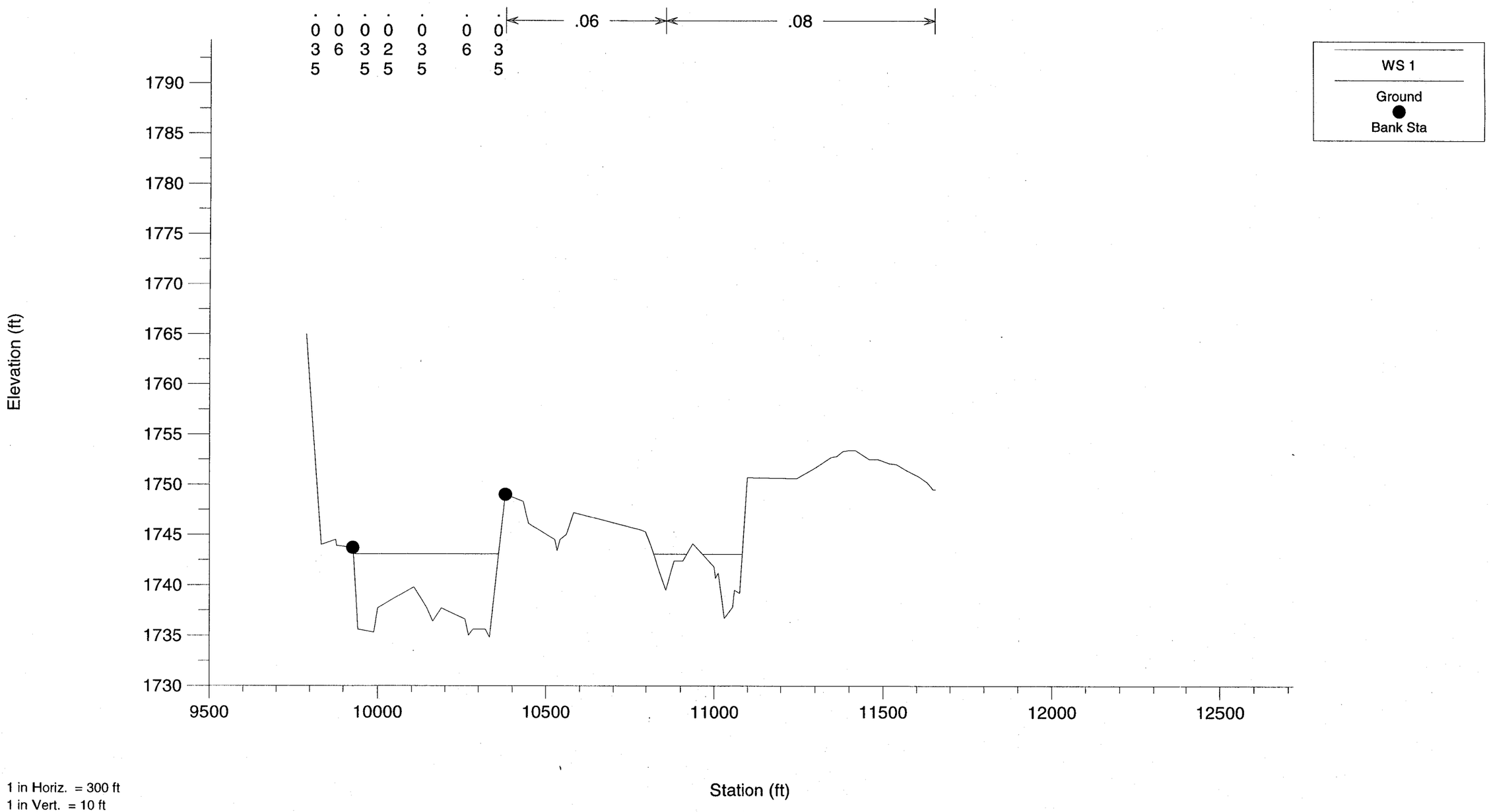


Cave Creek Wash South FIS 100-Year "n" Values
27.169 Cross Section AG

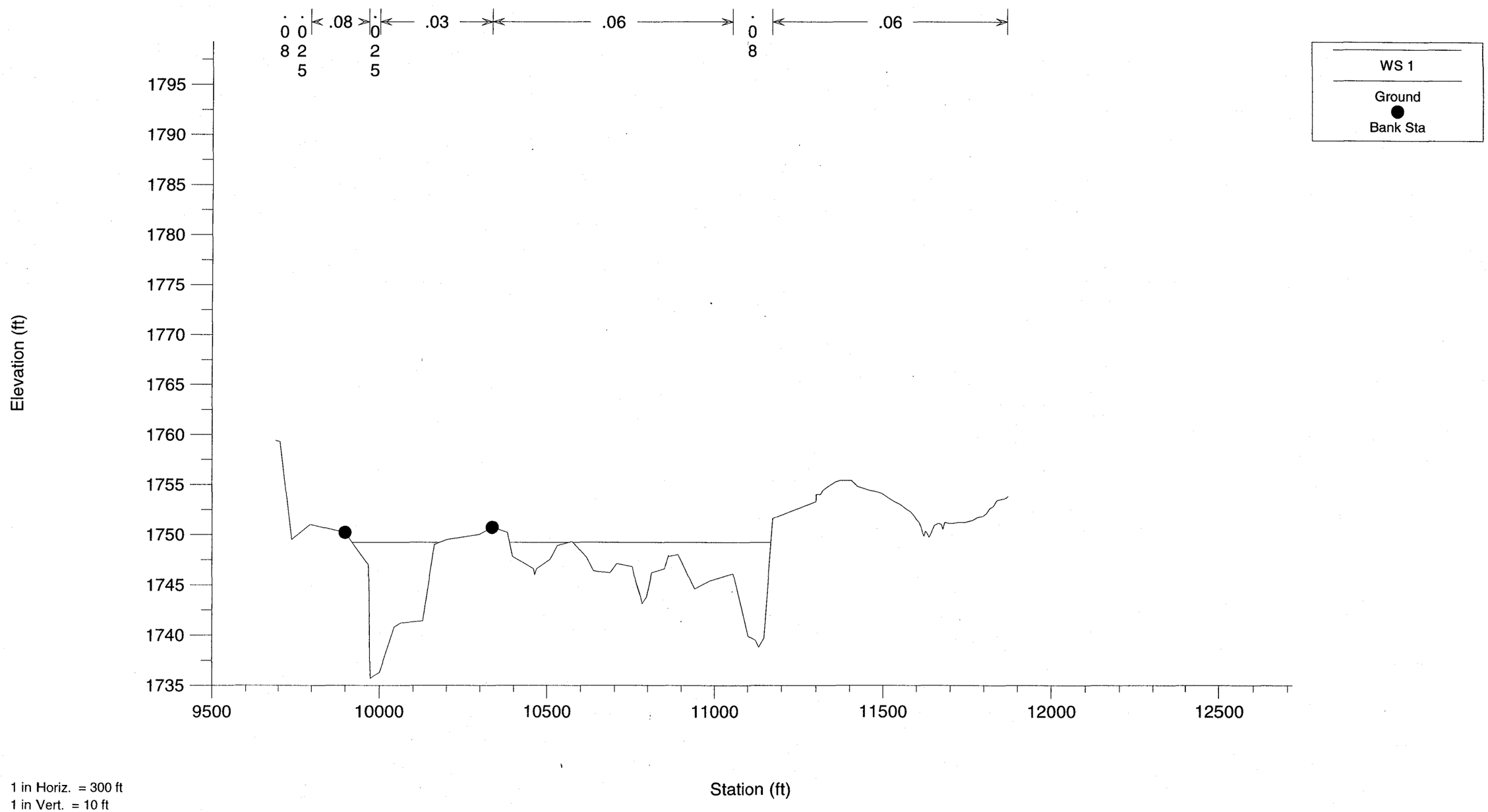


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

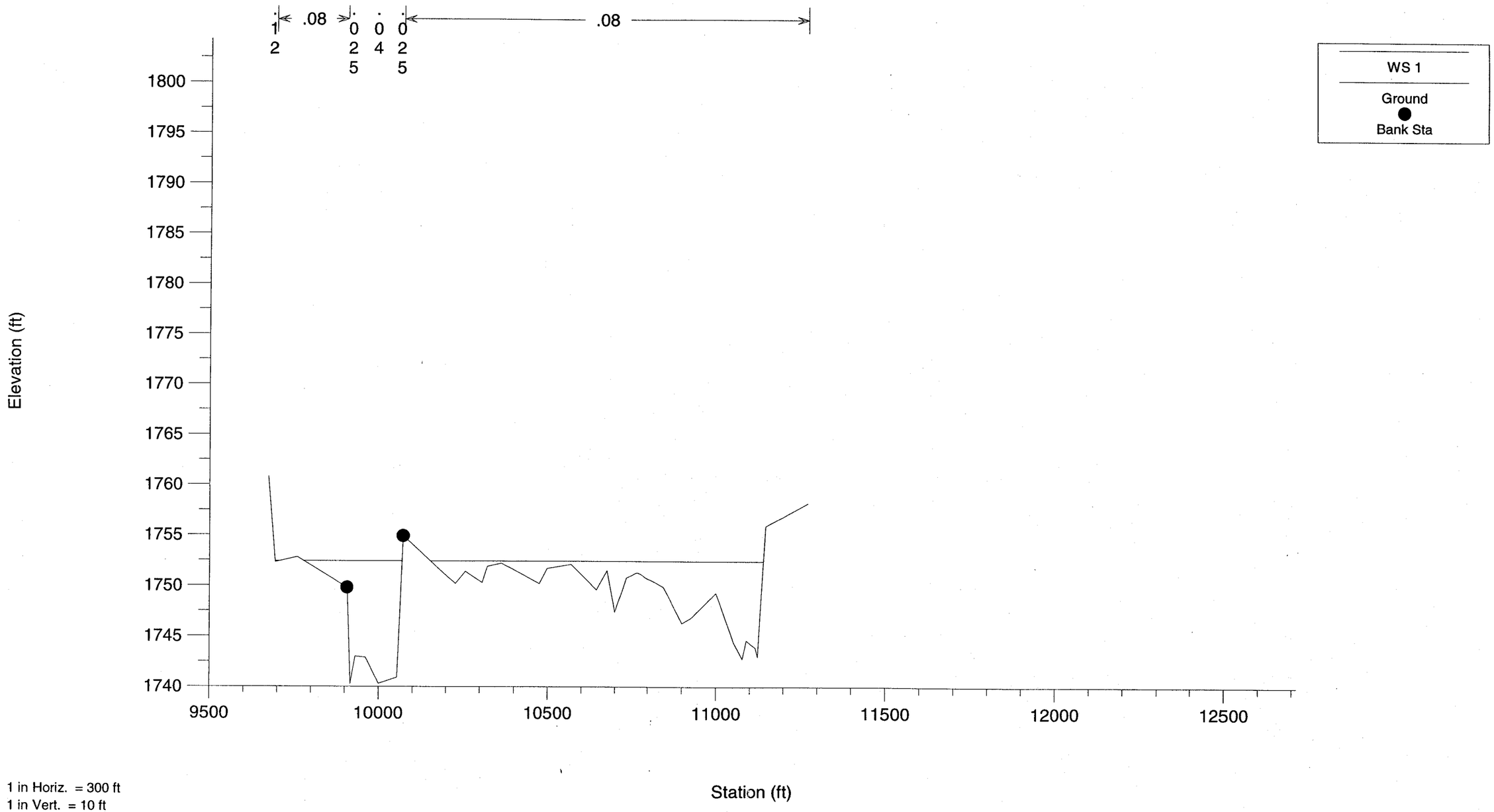
Cave Creek Wash South FIS 100-Year "n" Values
27.226 Cross Section AH



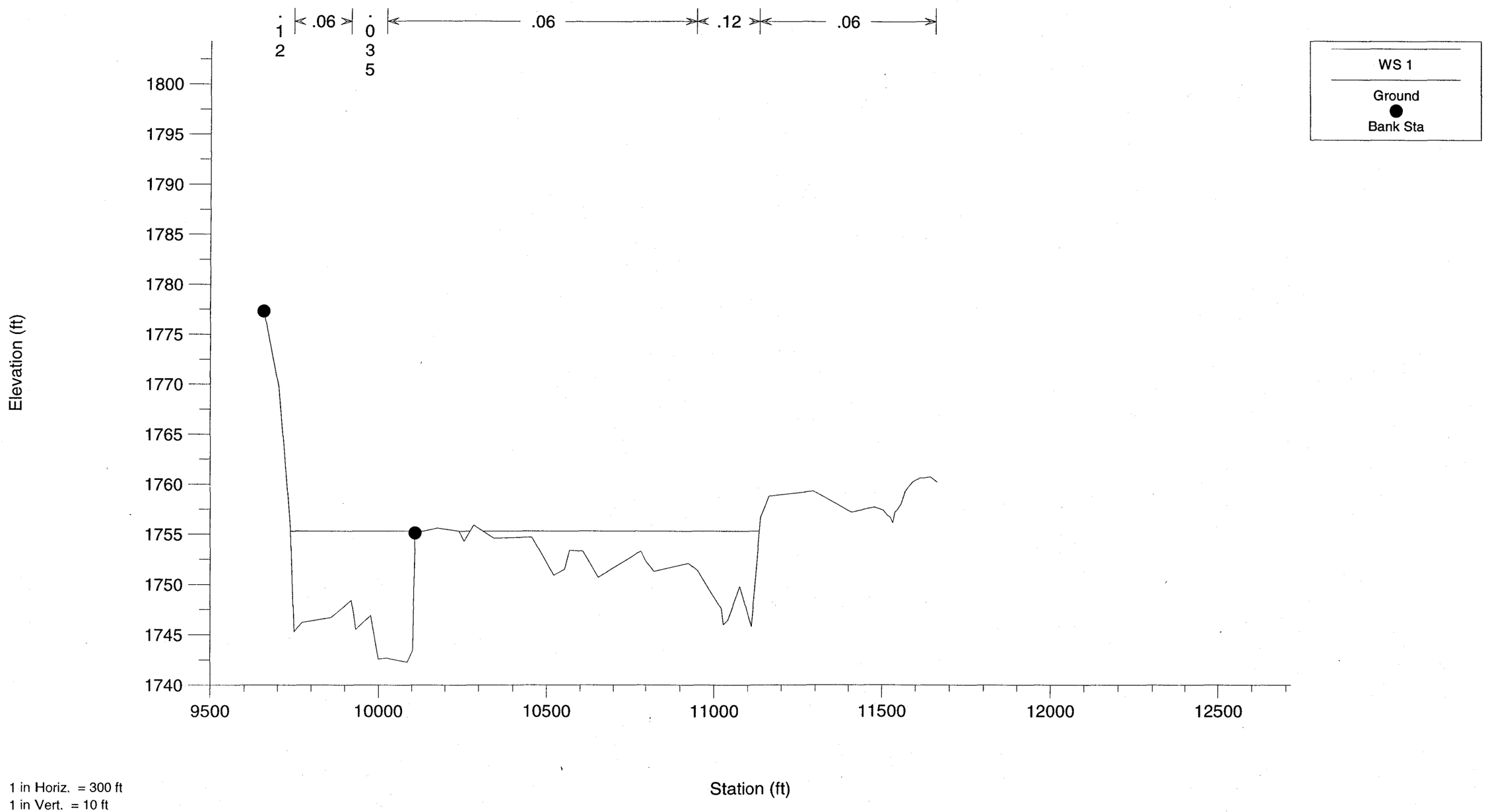
Cave Creek Wash South FIS 100-Year "n" Values
27.265 Cross Section AI



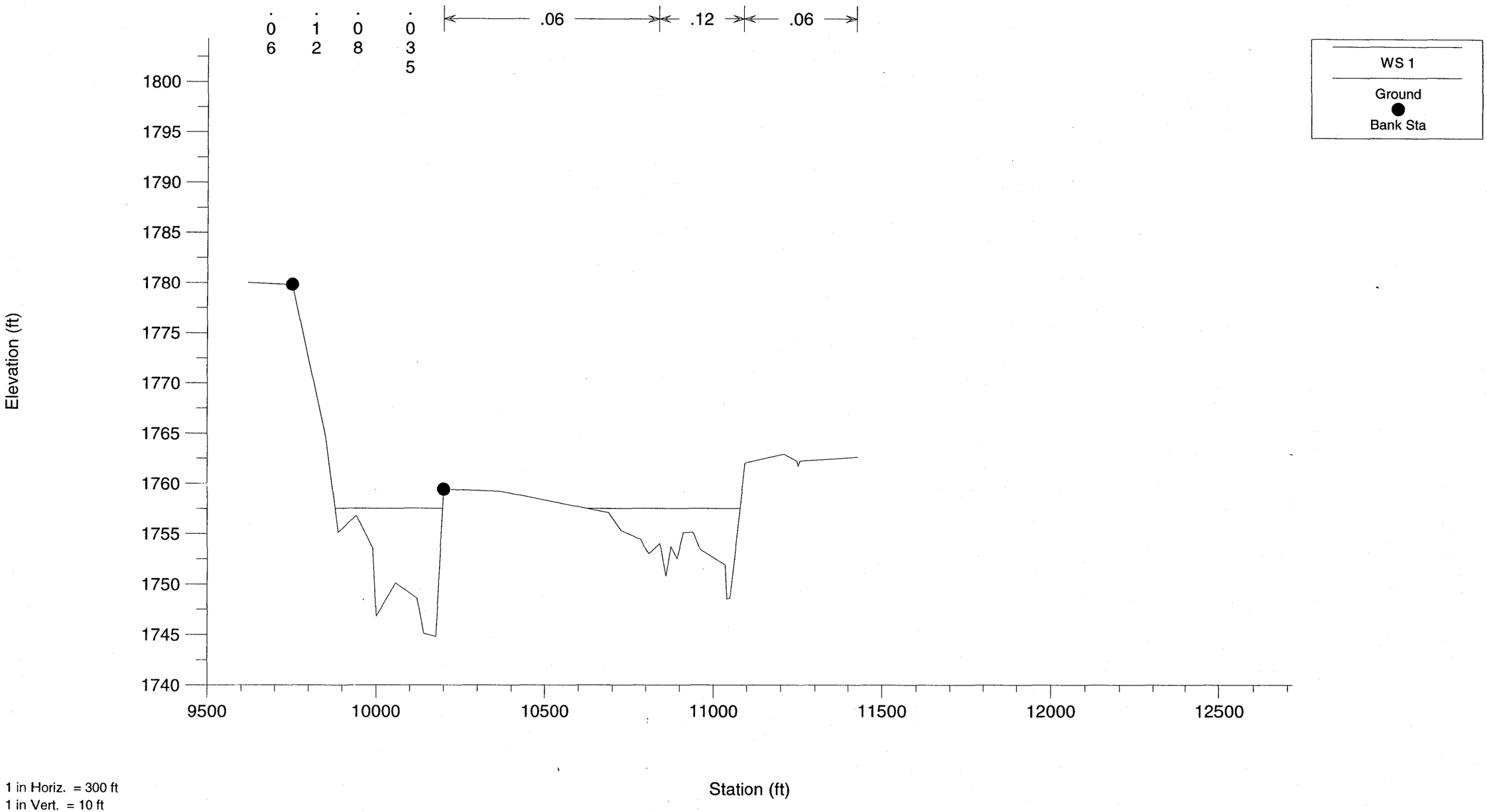
Cave Creek Wash South FIS 100-Year "n" Values
27.320 Cross Section AJ



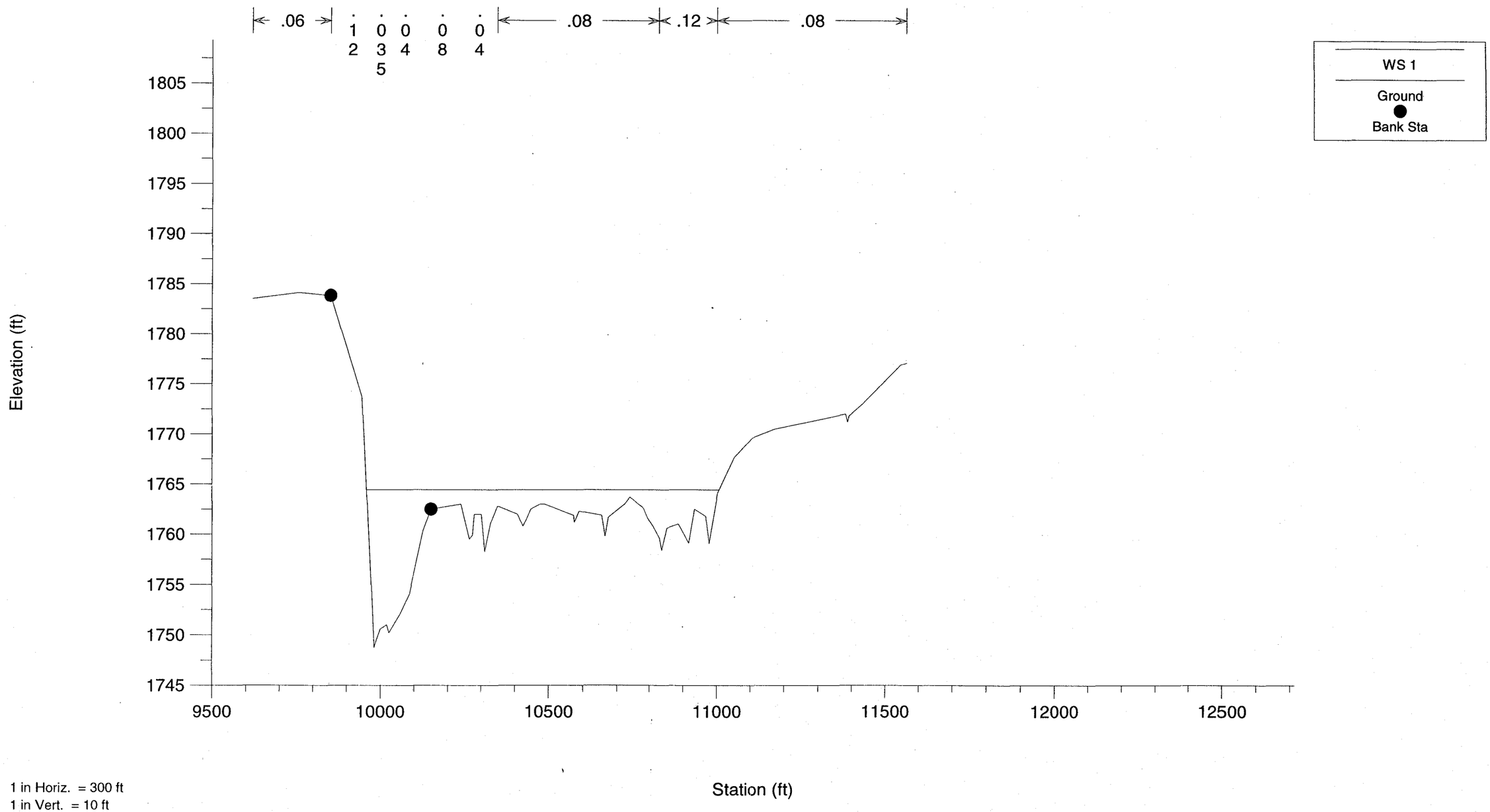
Cave Creek Wash South FIS 100-Year "n" Values
27.366 Cross Section AK



Cave Creek Wash South FIS 100-Year "n" Values
27.417 Cross Section AL



Cave Creek Wash South FIS 100-Year "n" Values
27.502 Cross Section AM



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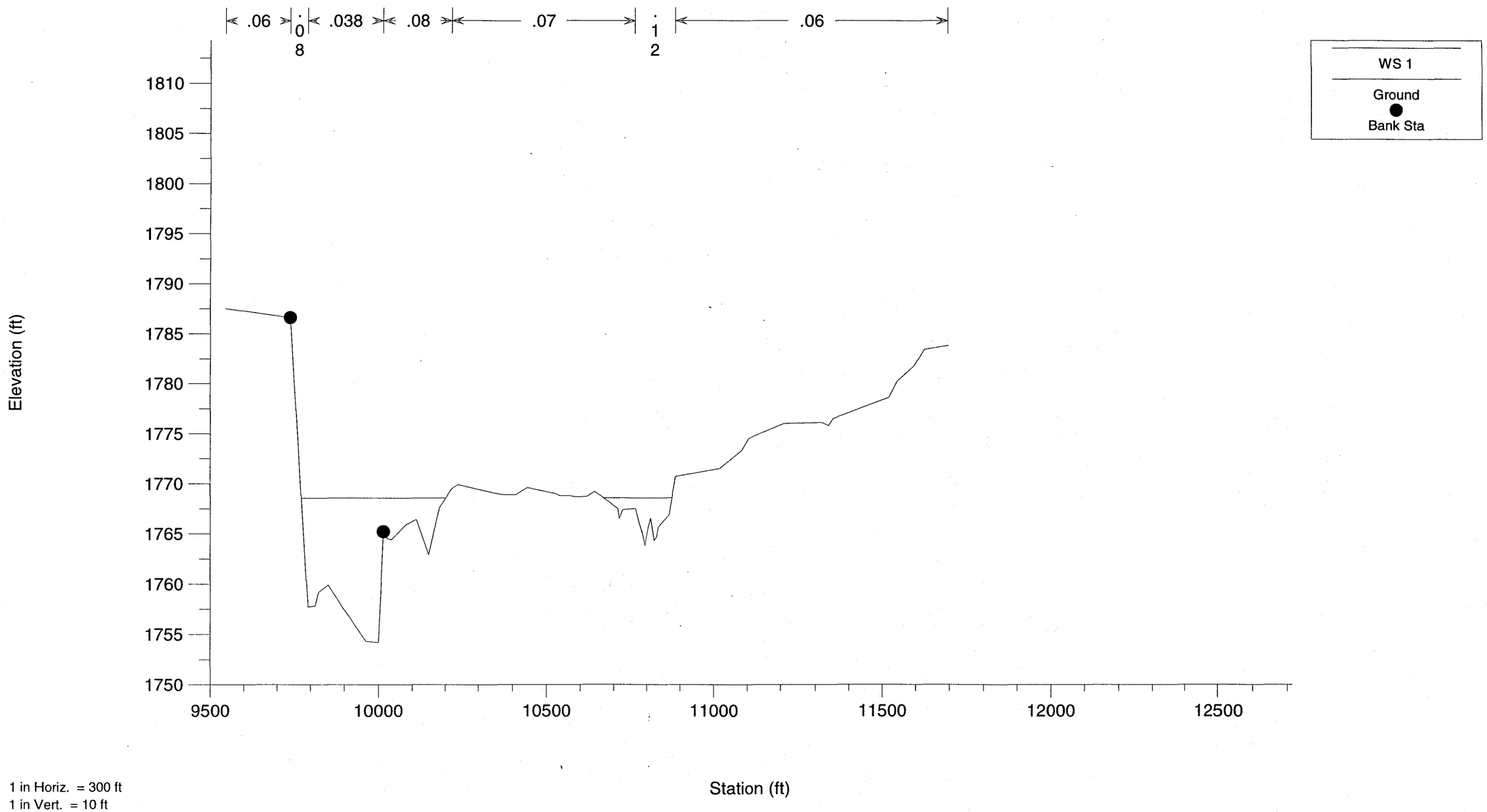
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
27.604 Cross Section AN



Cave Creek Wash South FIS 100-Year "n" Values
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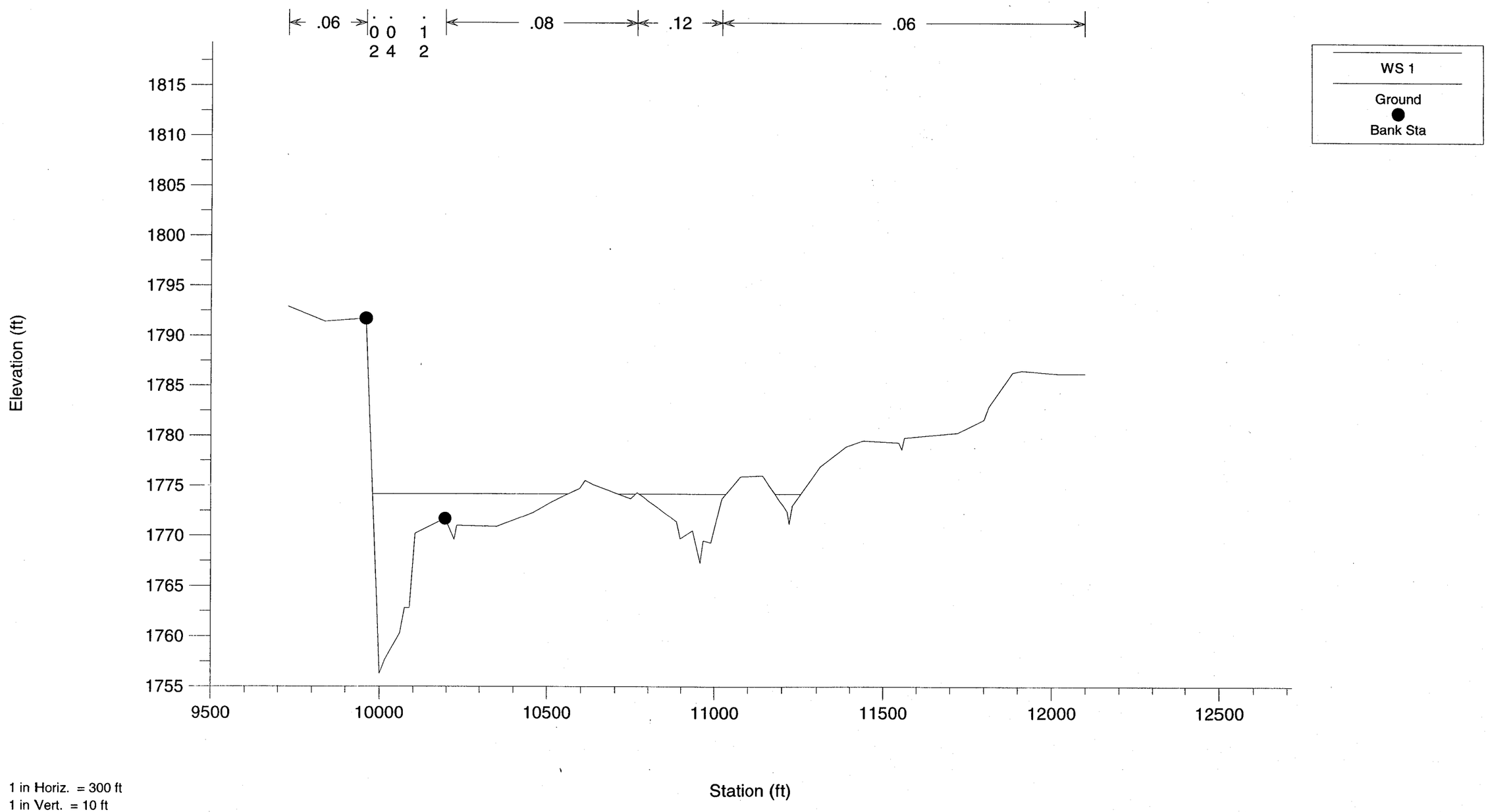
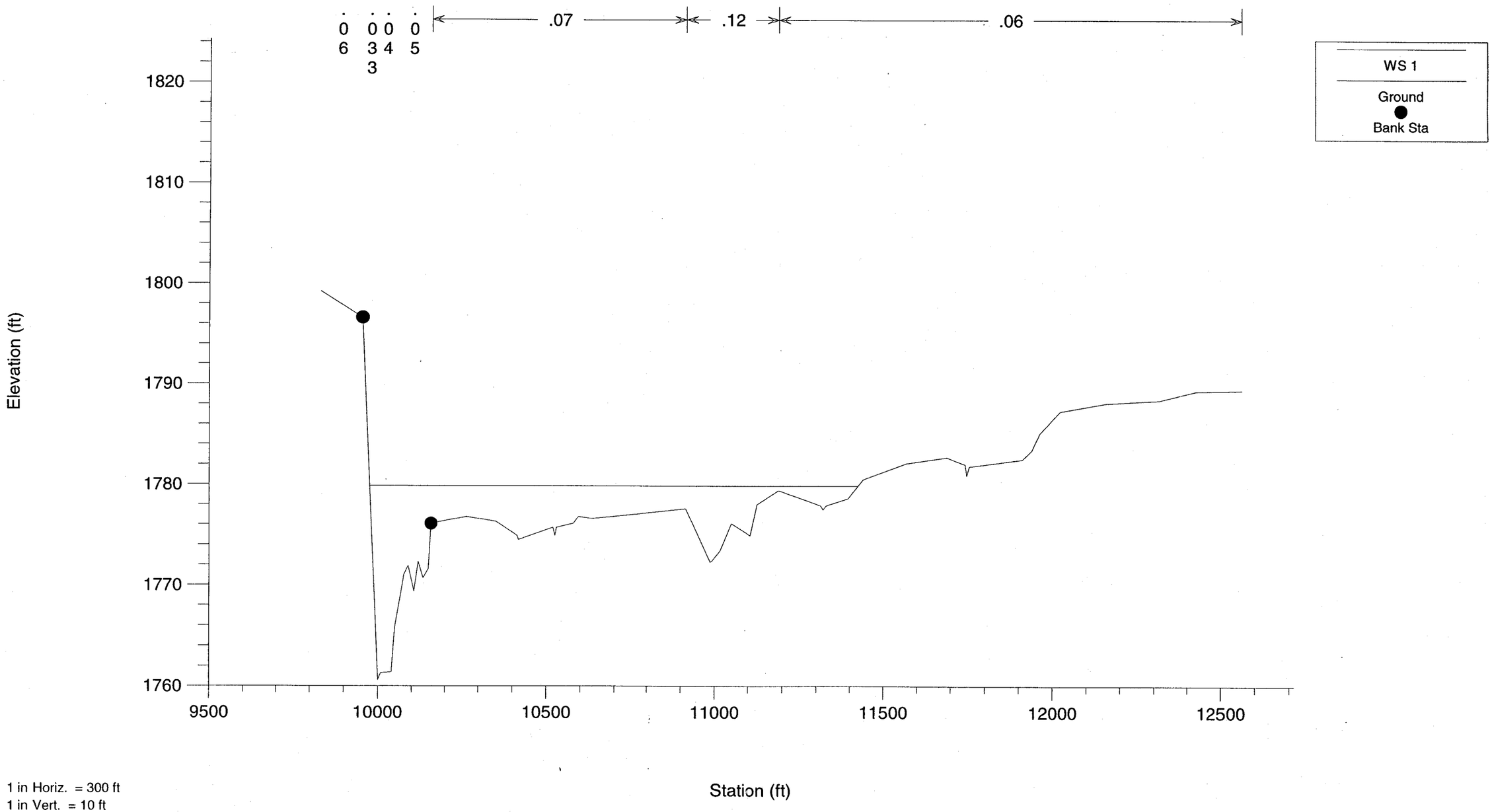
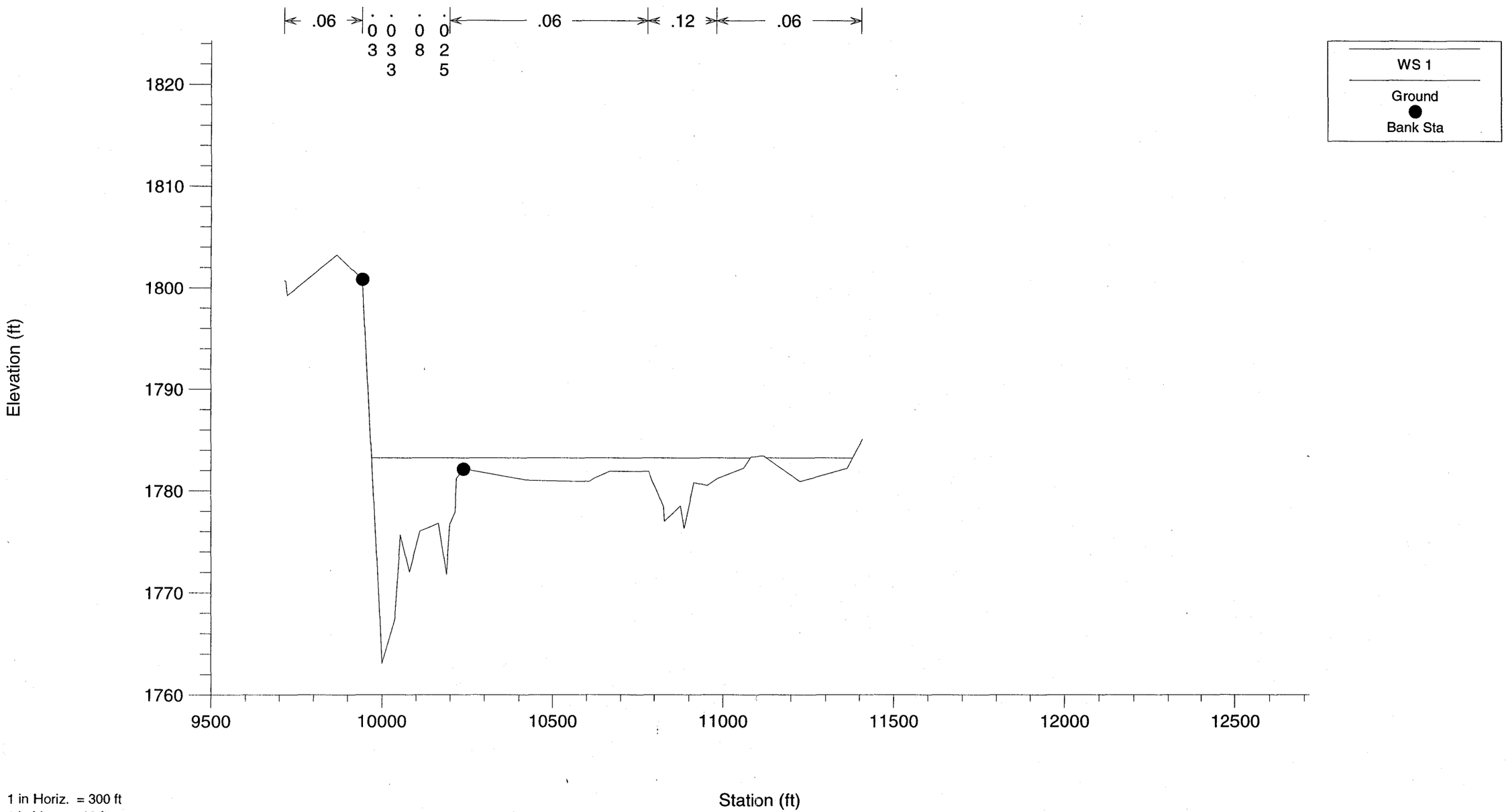


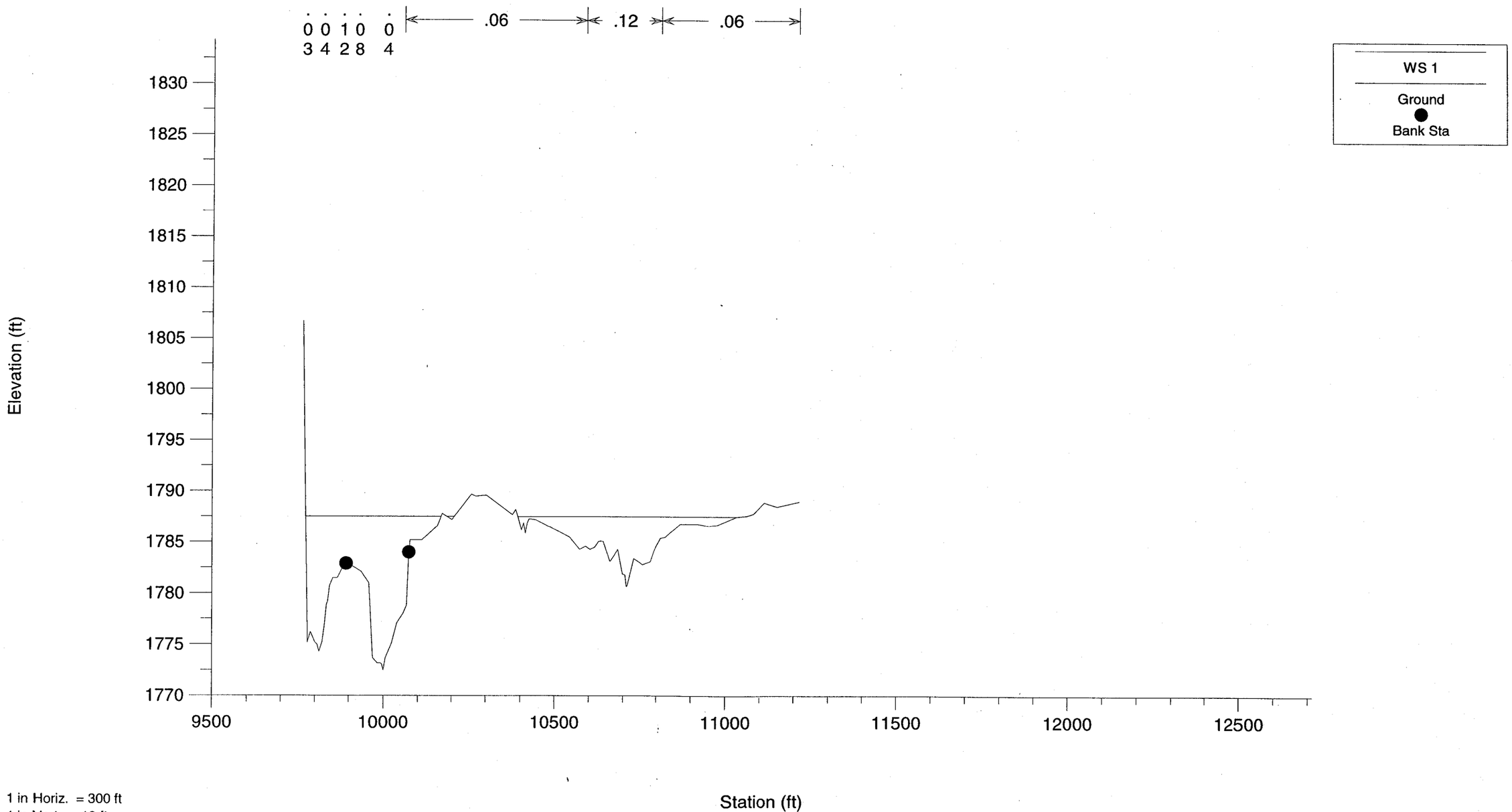
Cave Creek Wash South FIS 100-Year "n" Values
27.797 Cross Section AP



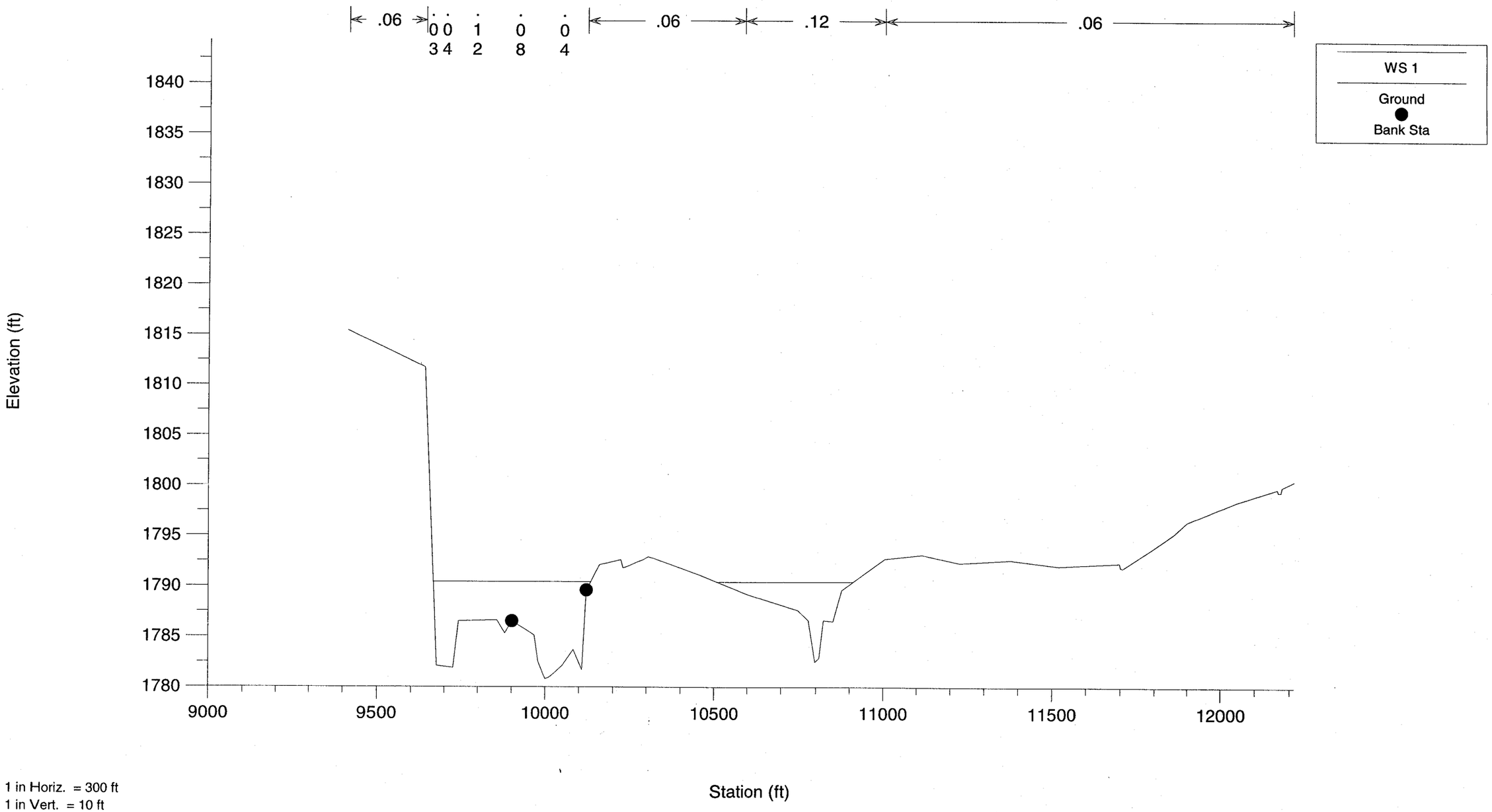
Cave Creek Wash South FIS 100-Year "n" Values
27.913 Cross Section AQ



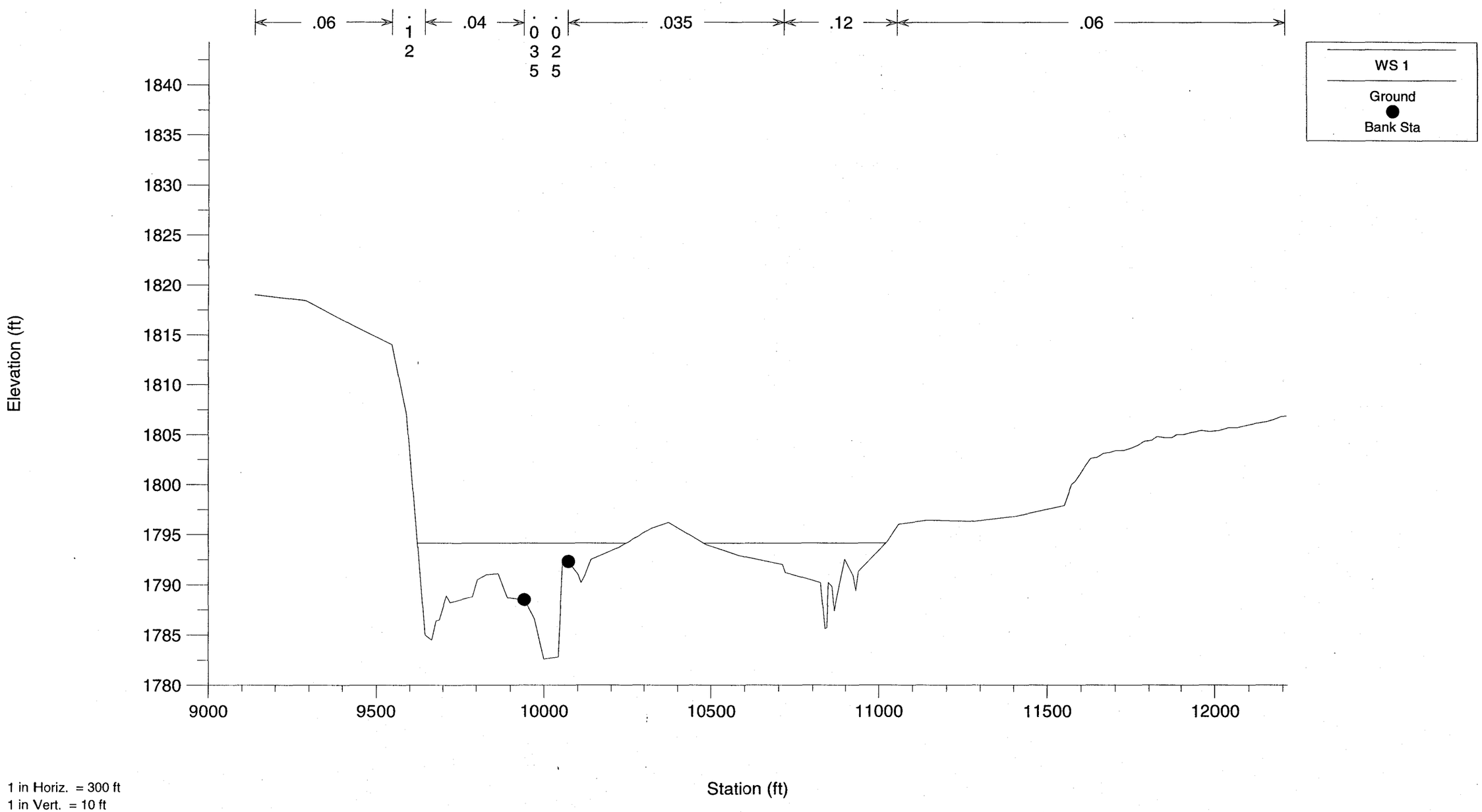
Cave Creek Wash South FIS 100-Year "n" Values
28.023 Cross Section AR



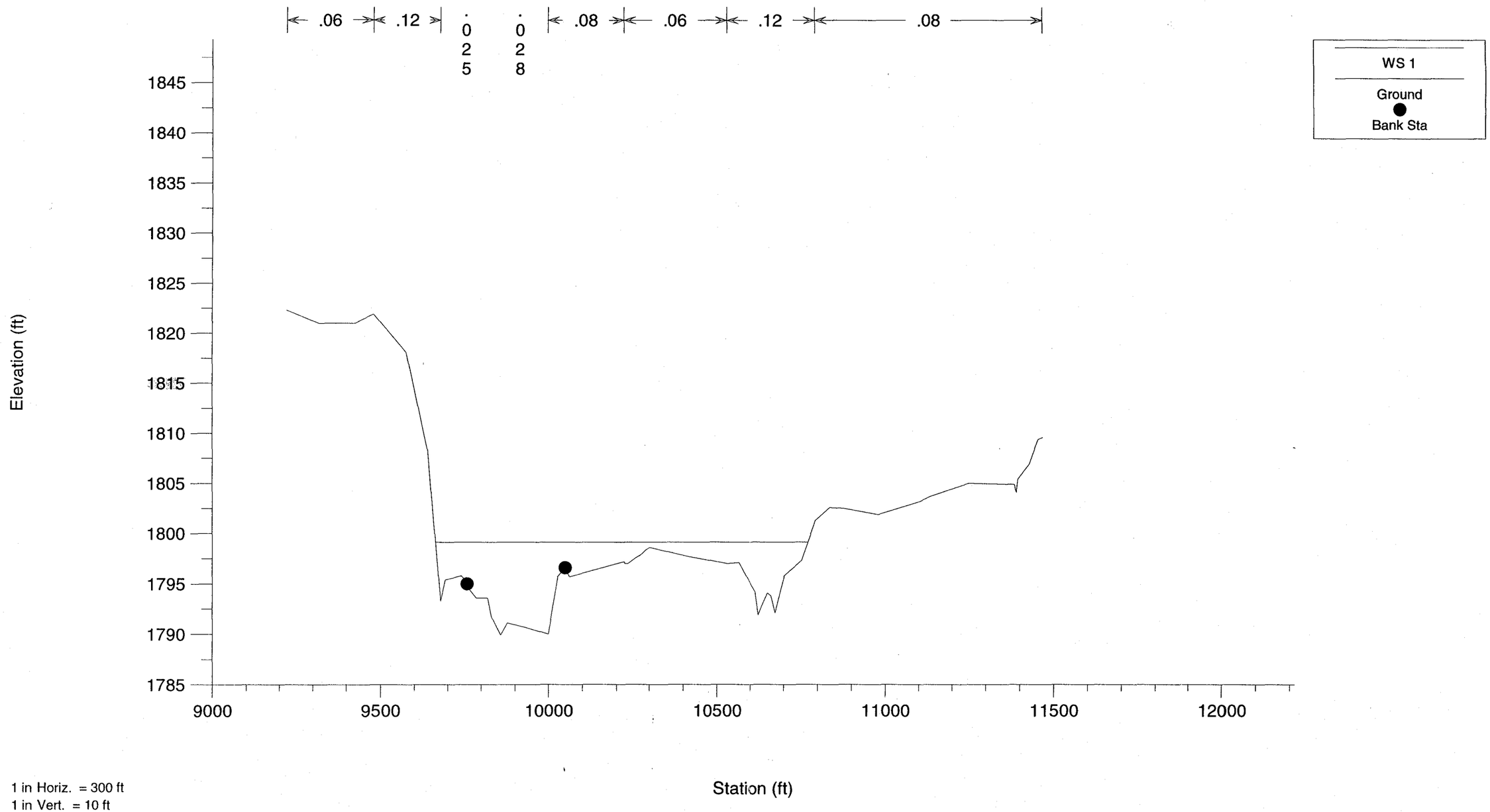
Cave Creek Wash South FIS 100-Year "n" Values
28.091 Cross Section AS



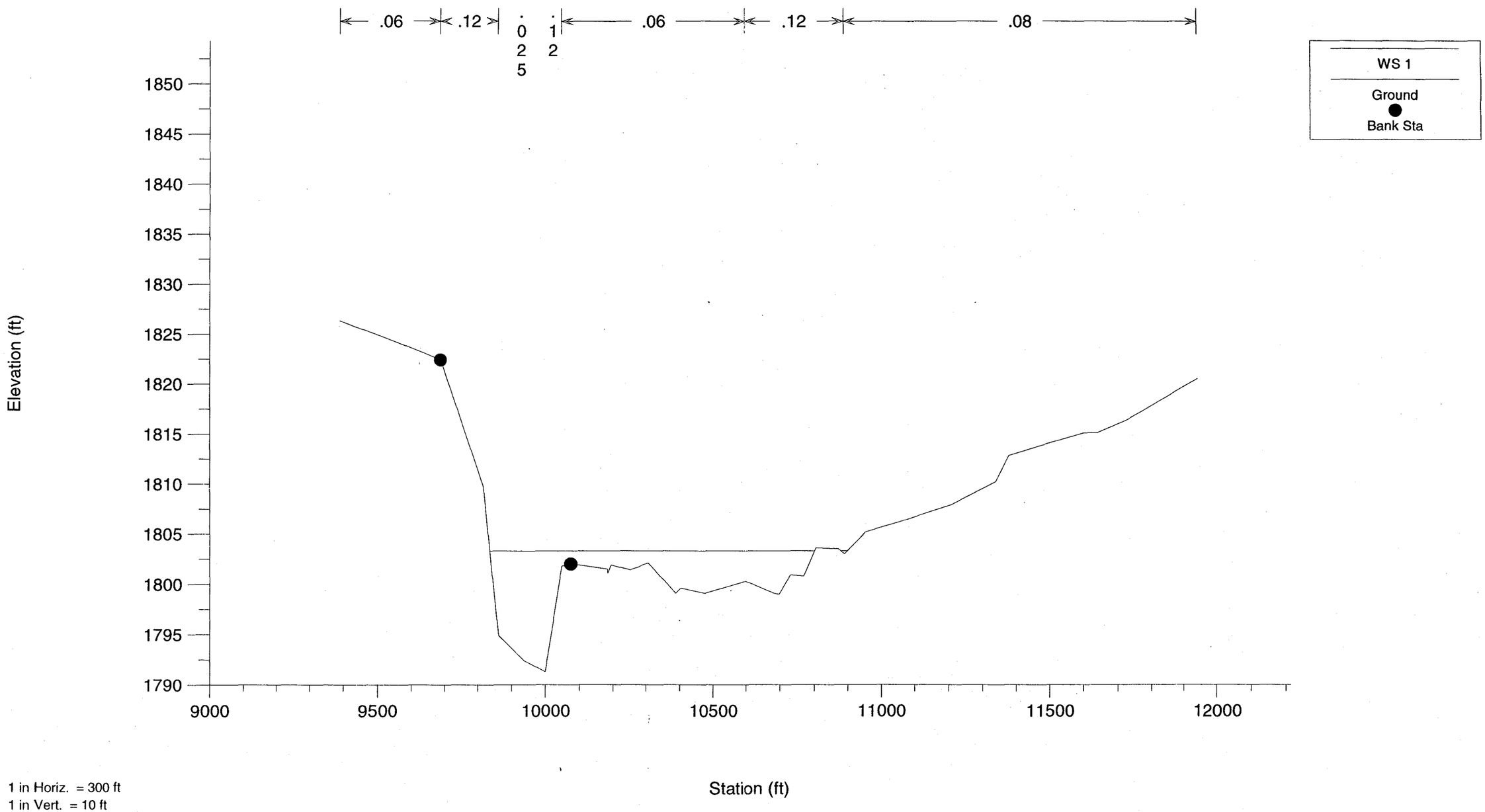
Cave Creek Wash South FIS 100-Year "n" Values
28.157 Cross Section AT



Cave Creek Wash South FIS 100-Year "n" Values
28.241 Cross Section AU

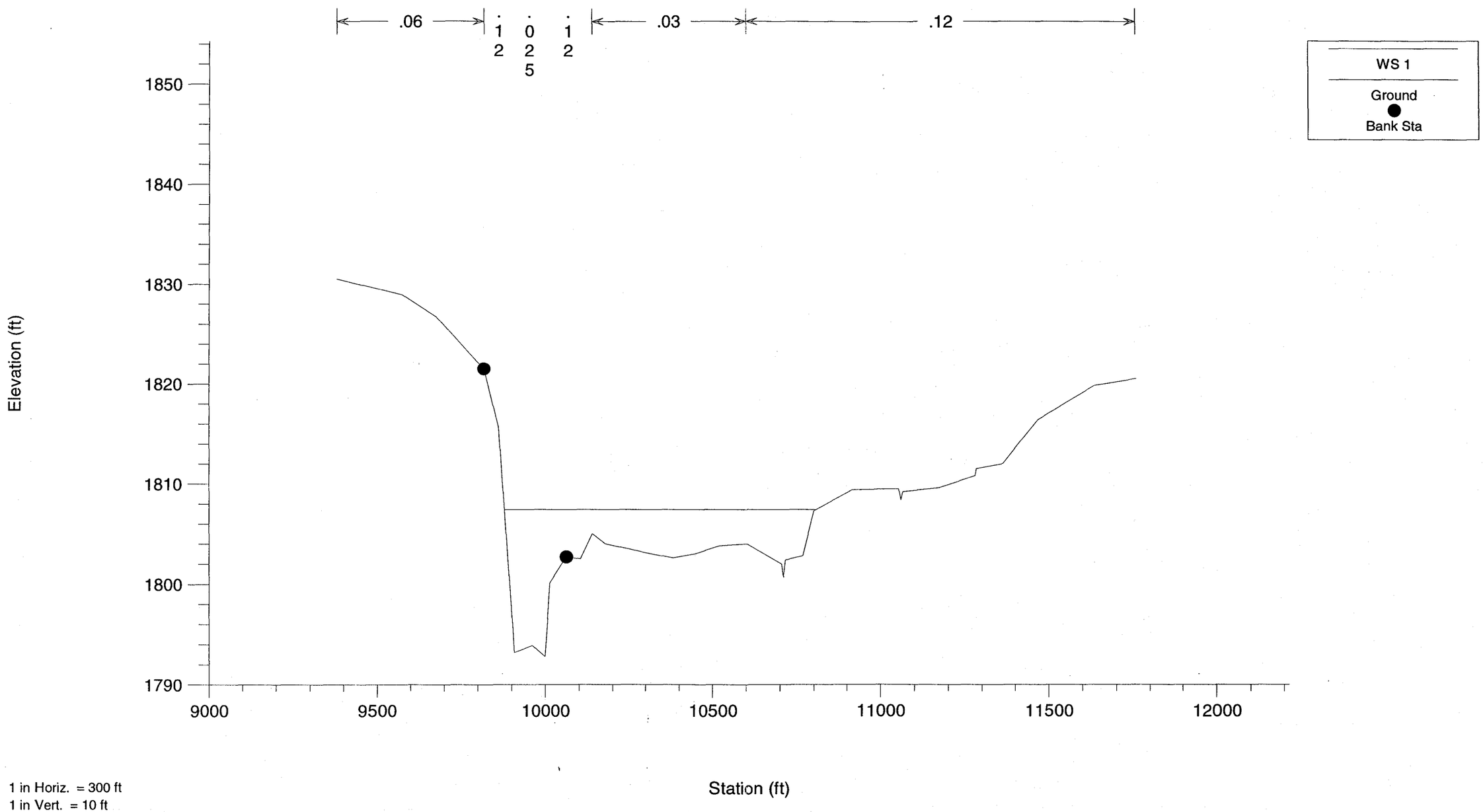


Cave Creek Wash South FIS 100-Year "n" Values
28.326 Cross Section AV

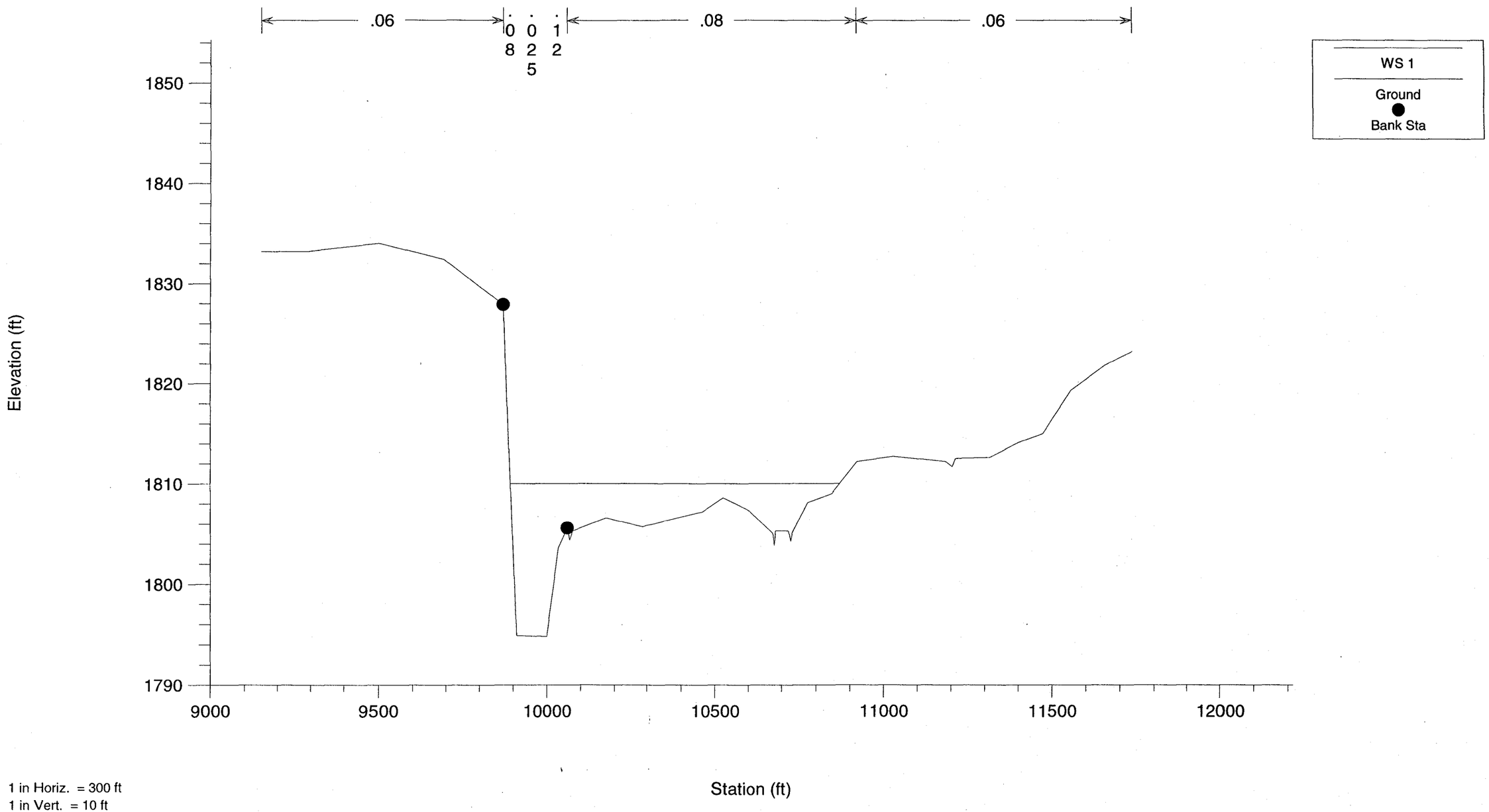


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
28.390 Cross Section AW

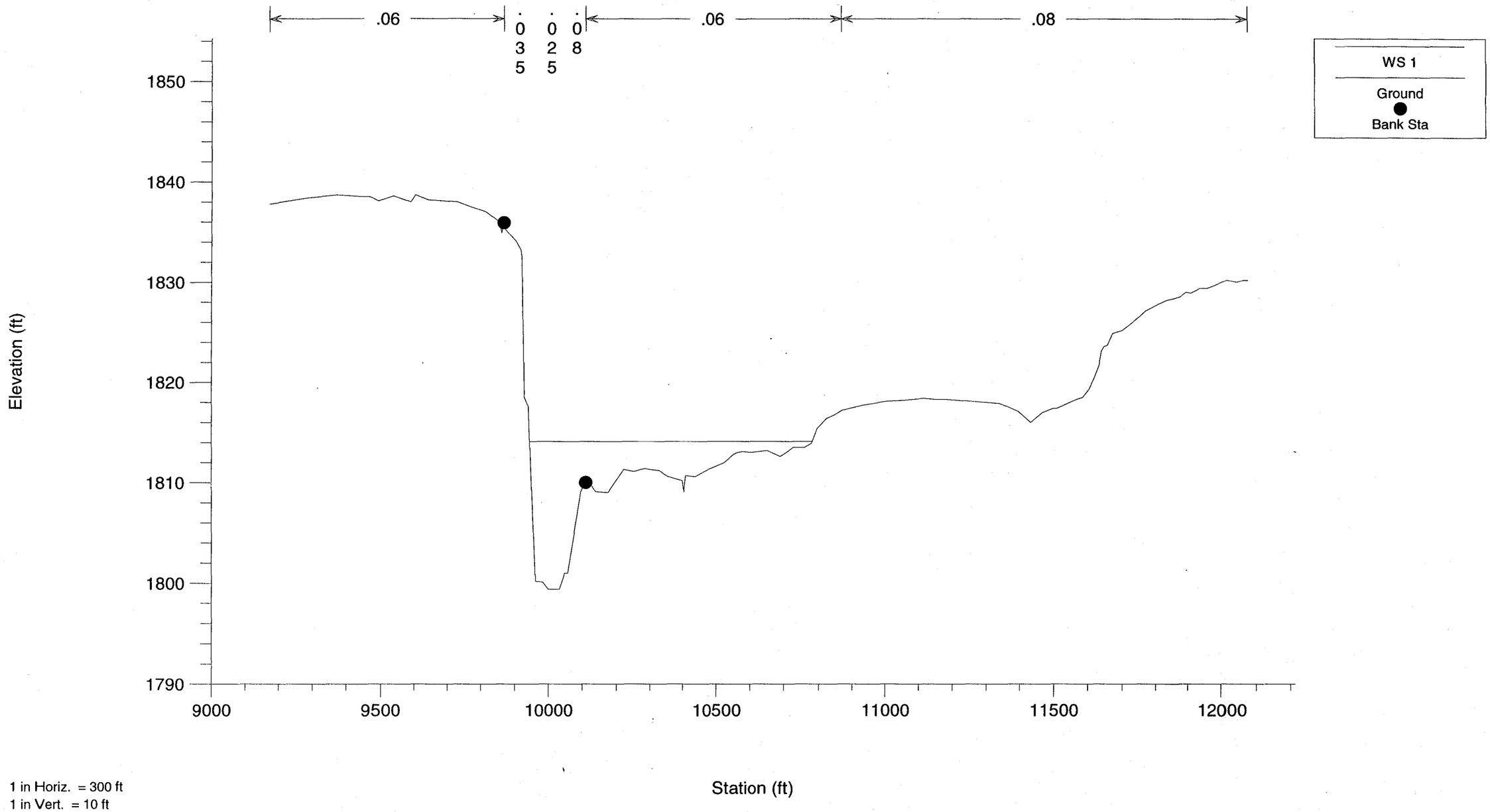


Cave Creek Wash South FIS 100-Year "n" Values
28.462 Cross Section AX



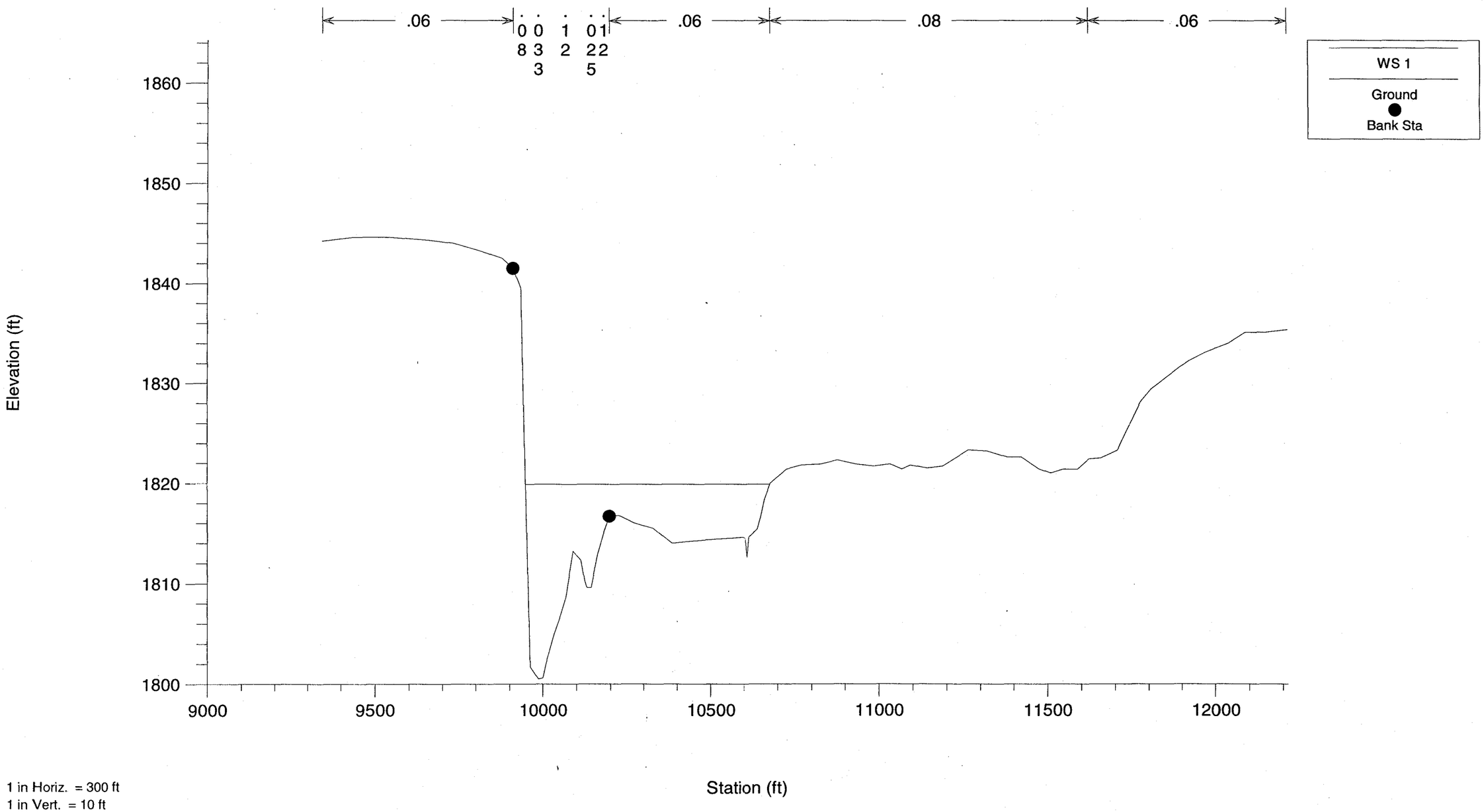
1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
28.555 Cross Section AY

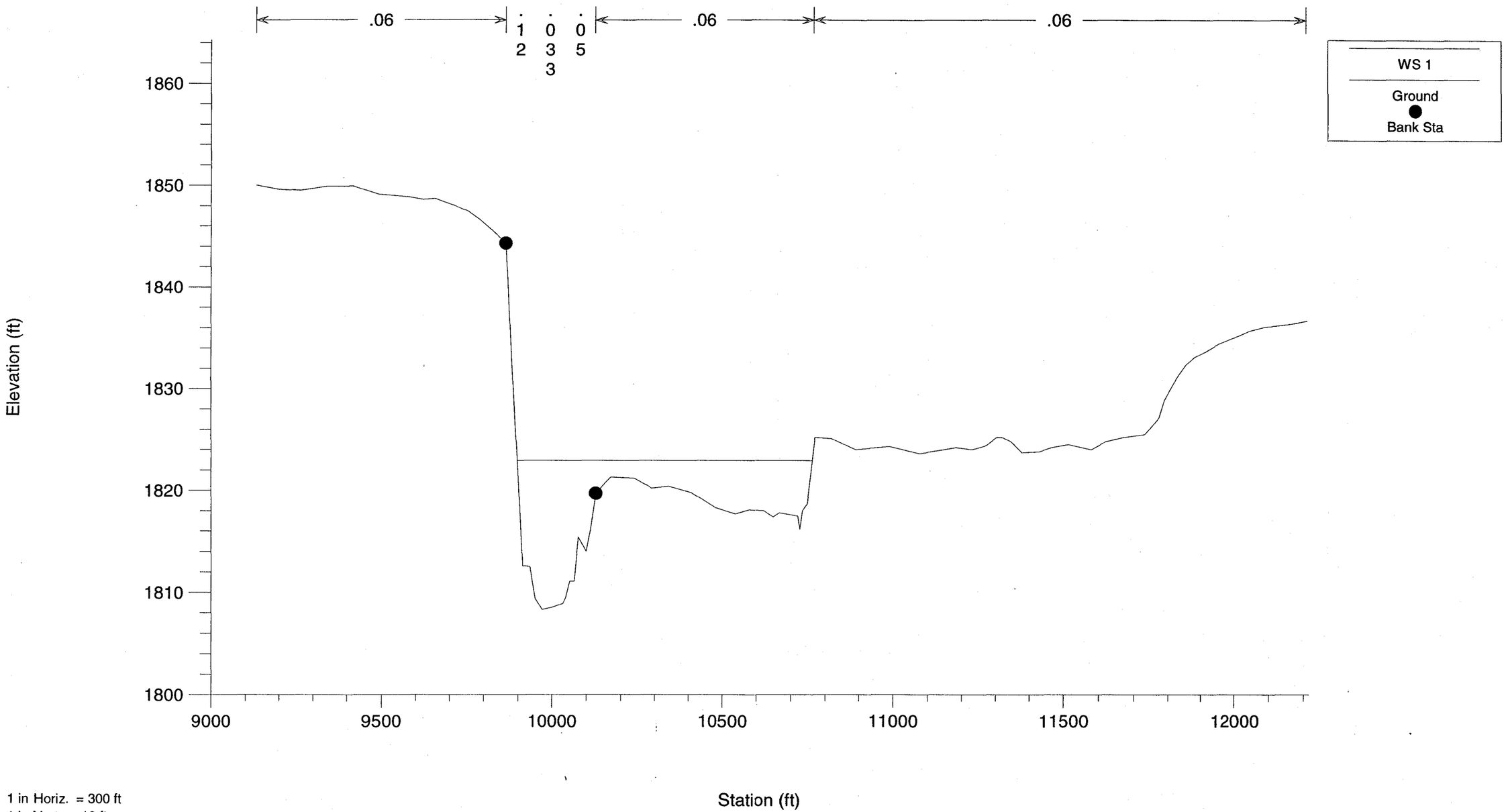


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
28.657 Cross Section AZ

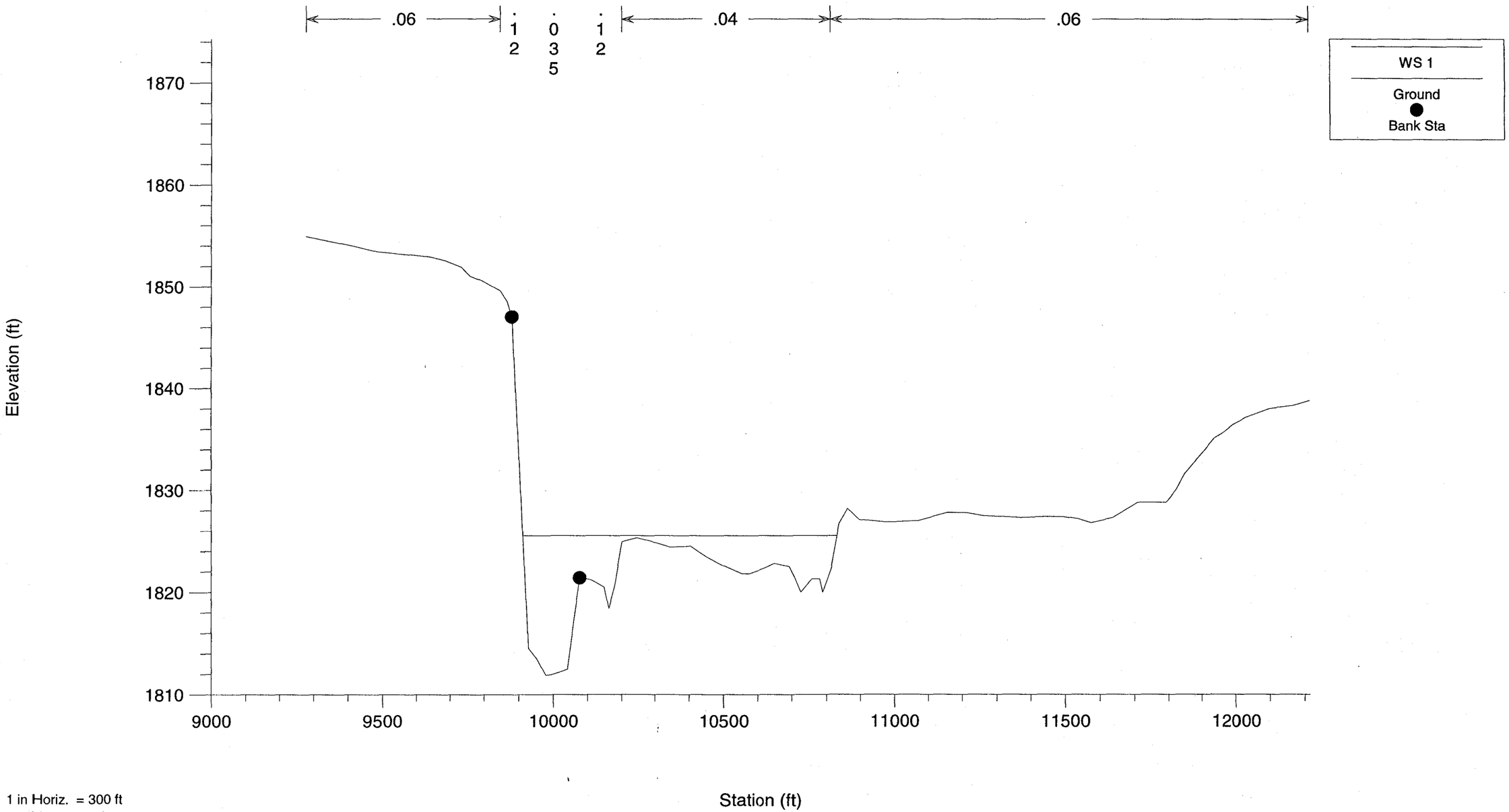


Cave Creek Wash South FIS 100-Year "n" Values
28.750 Cross Section BA

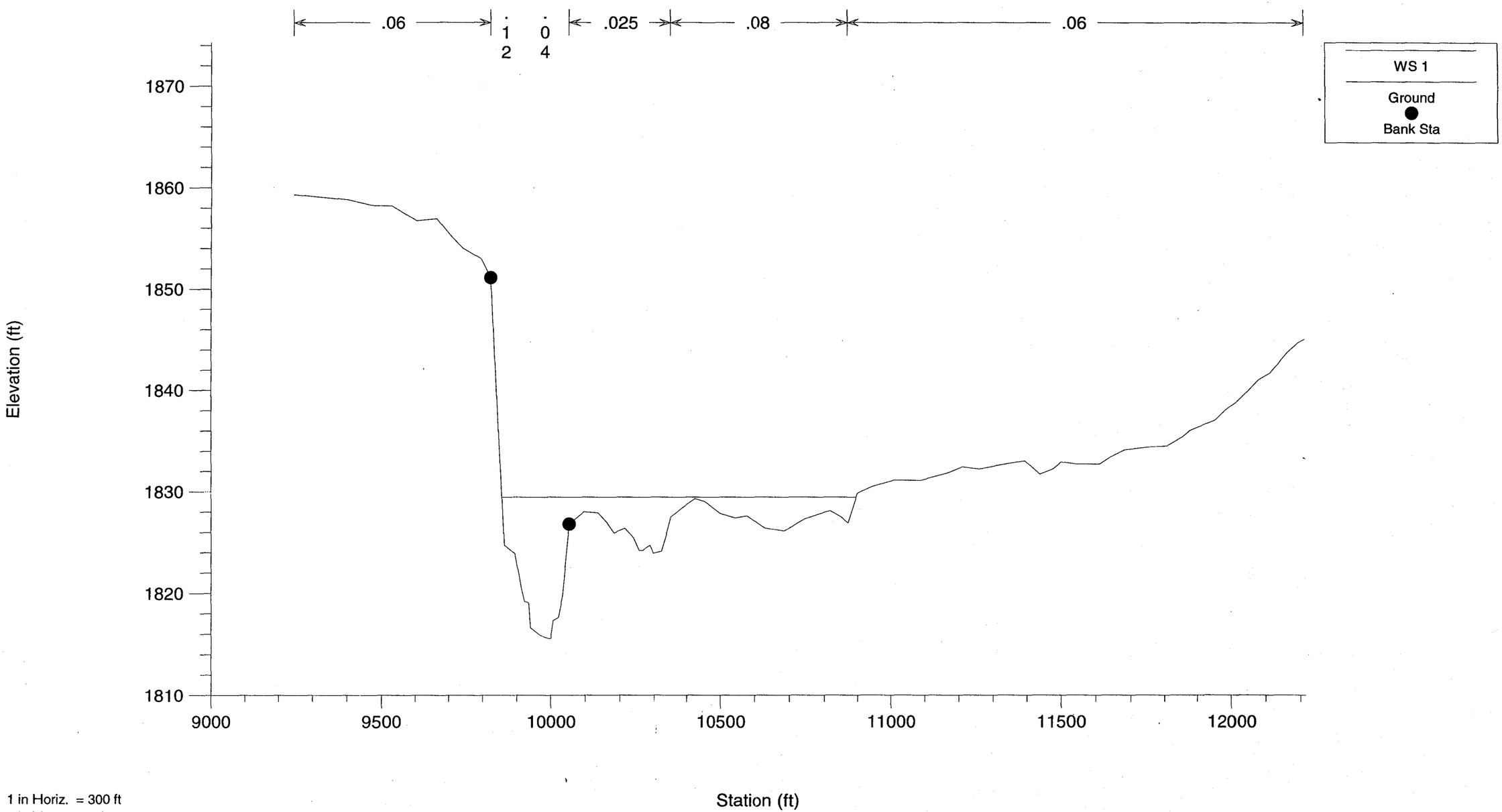


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
28.847 Cross Section BB

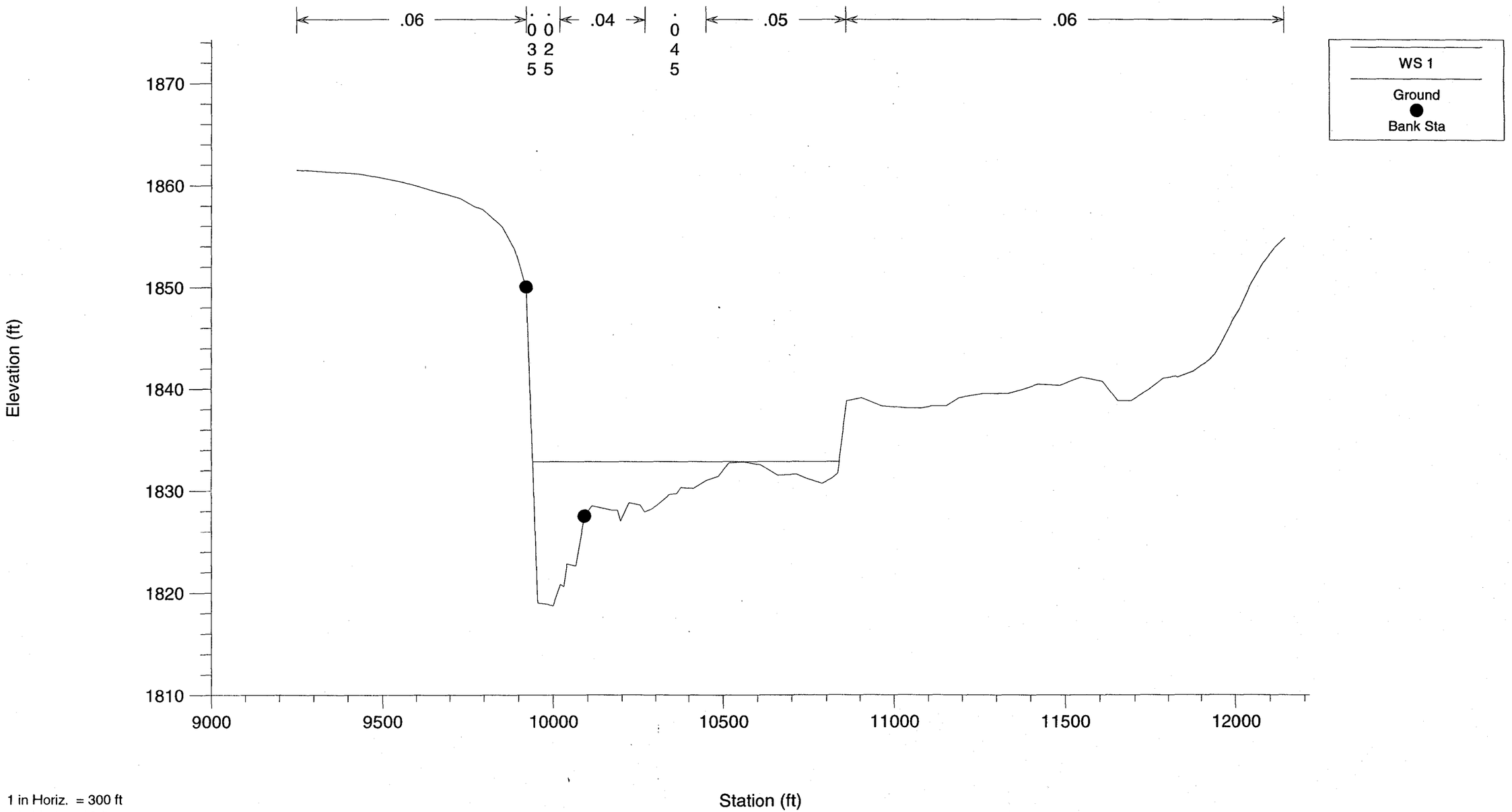


Cave Creek Wash South FIS 100-Year "n" Values
28.934 Cross Section BC



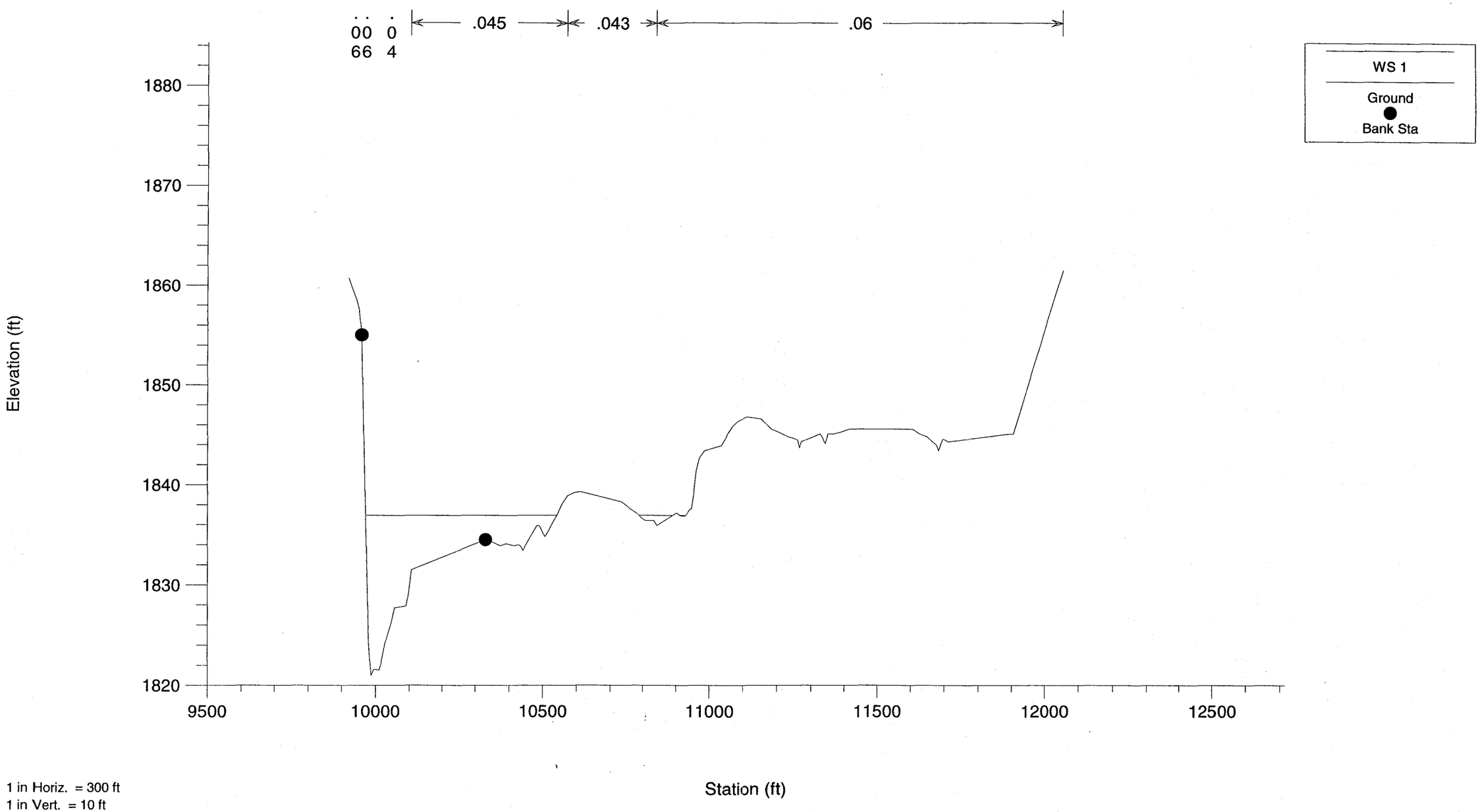
1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
29.012 Cross Section BD

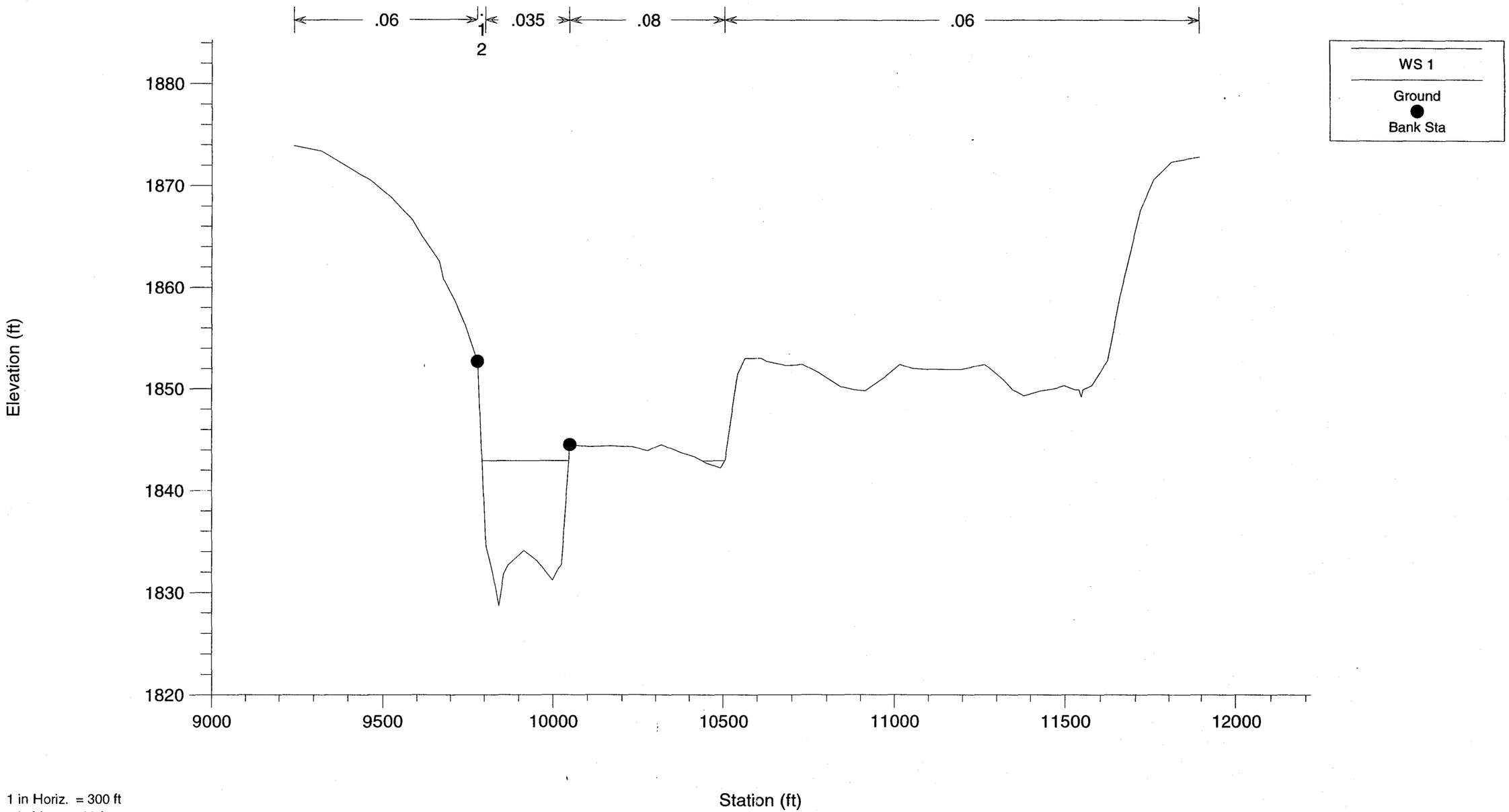


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
29.130 Cross Section BE

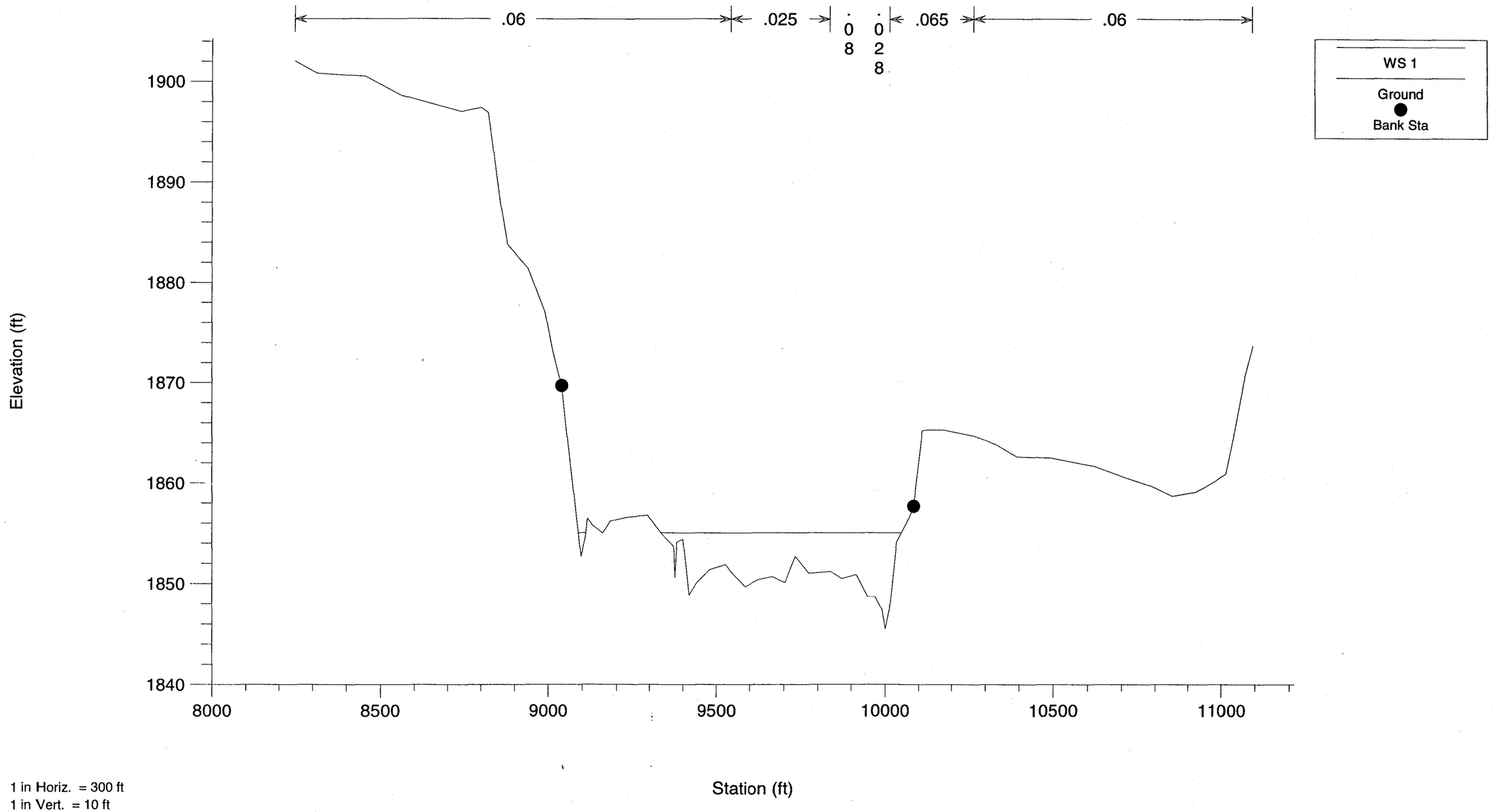


Cave Creek Wash South FIS 100-Year "n" Values
29.258 Cross Section BF

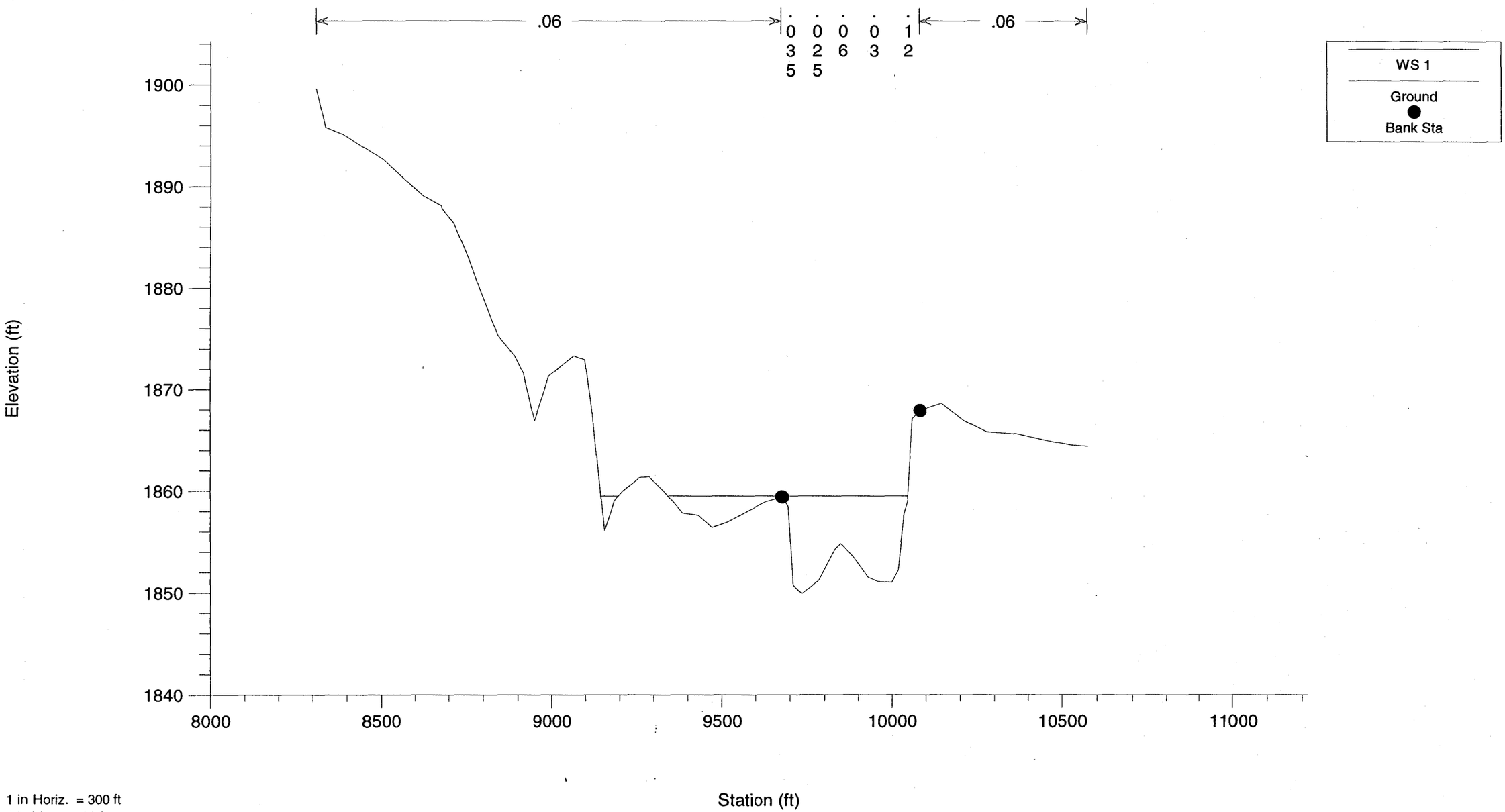


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
29.538 Cross Section BJ

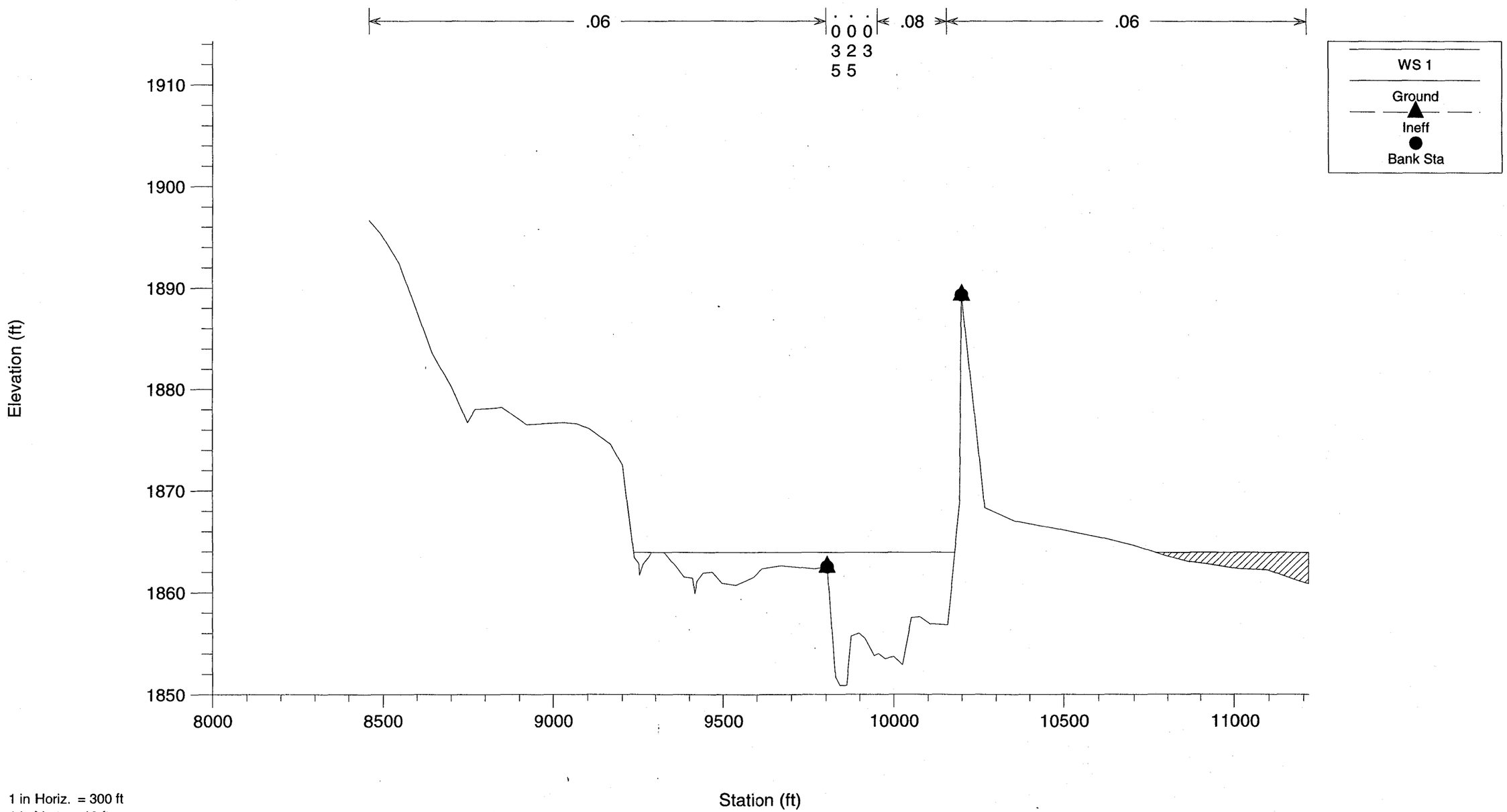


Cave Creek Wash South FIS 100-Year "n" Values
29.601 Cross Section BK



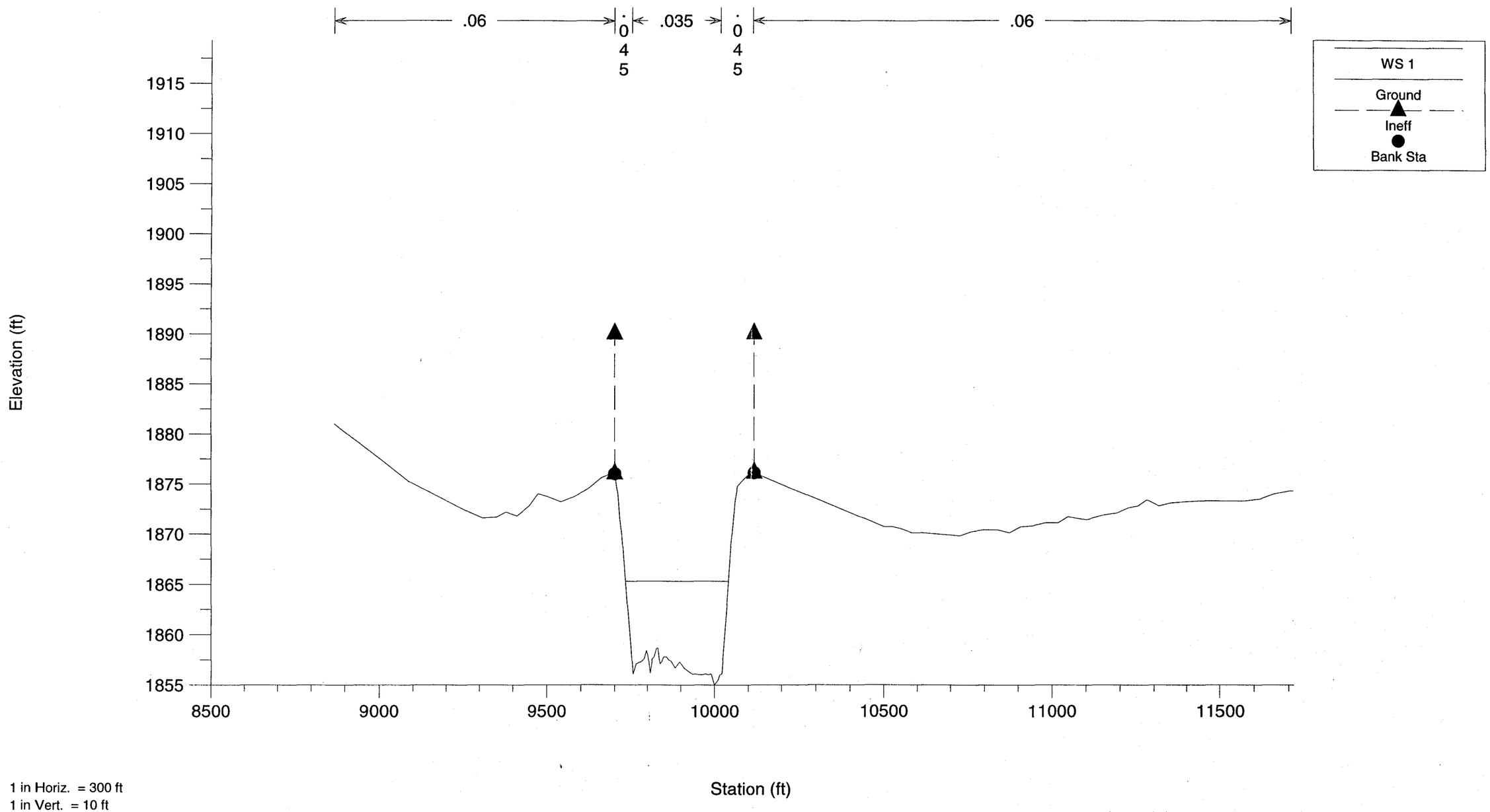
1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
29.663 Cross Section BL



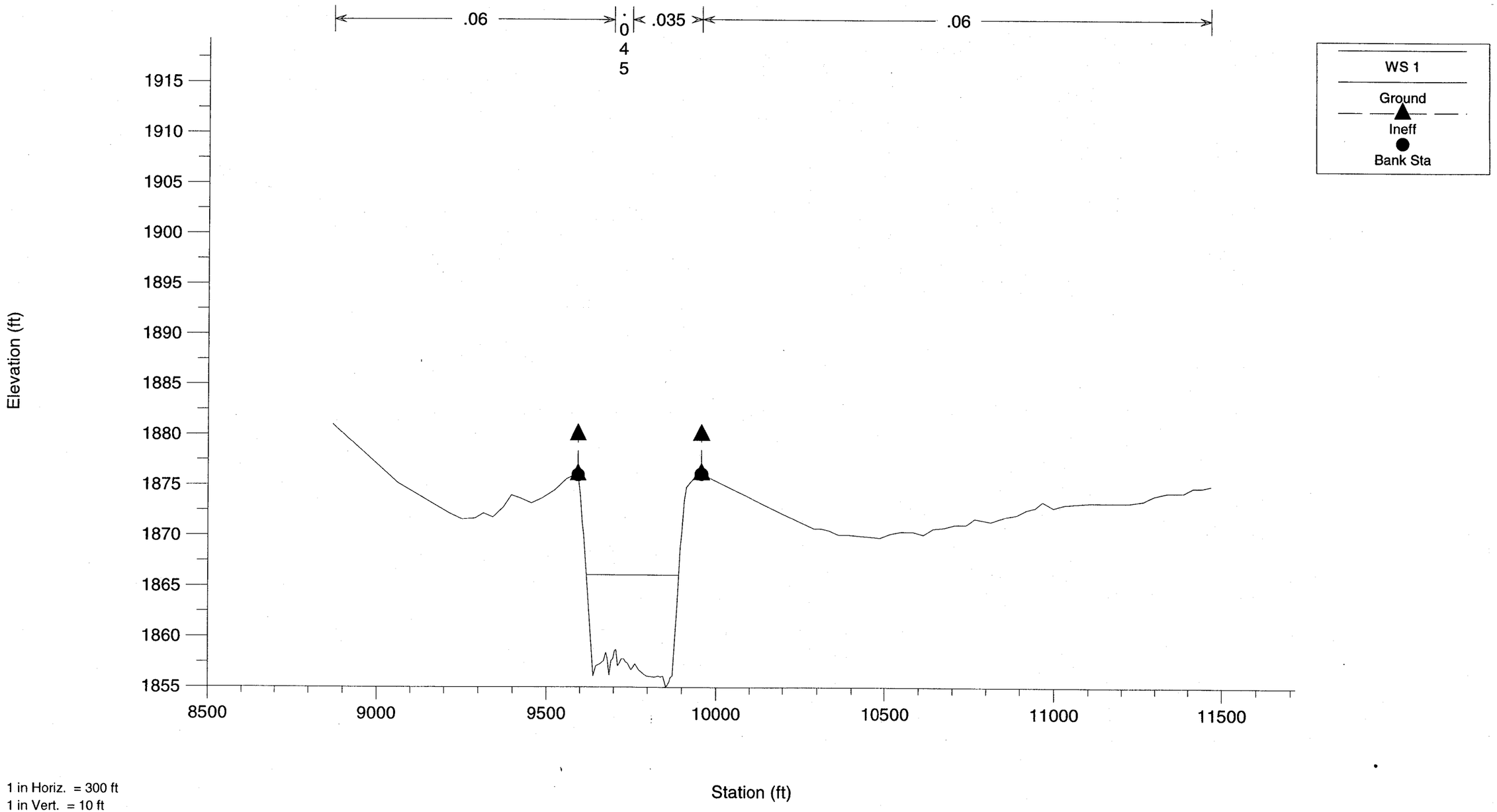
1 in Horiz. = 300 ft
1 in Vert. = 10 ft

Cave Creek Wash South FIS 100-Year "n" Values
29.710 Cross Section BM

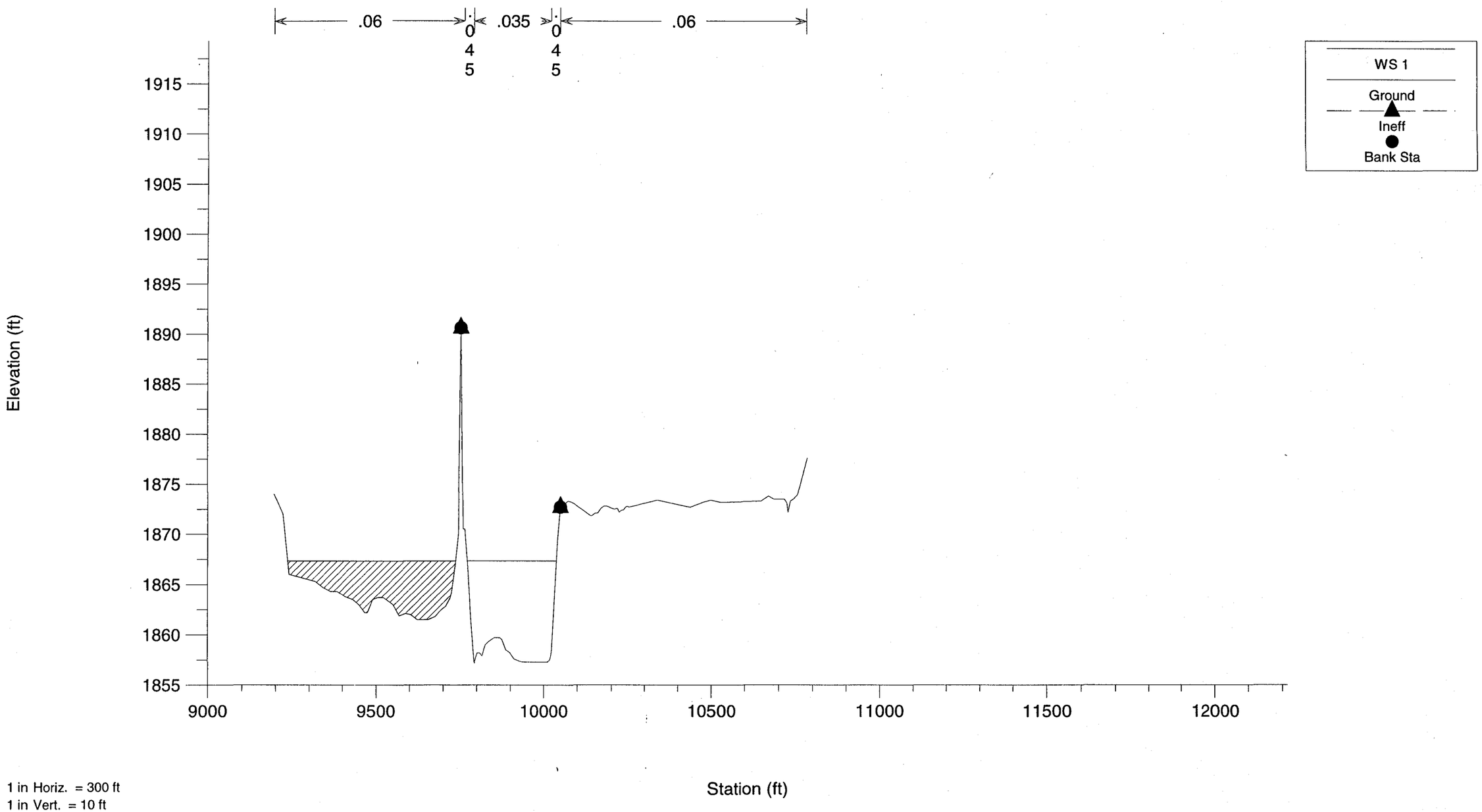


1 in Horiz. = 300 ft
1 in Vert. = 10 ft

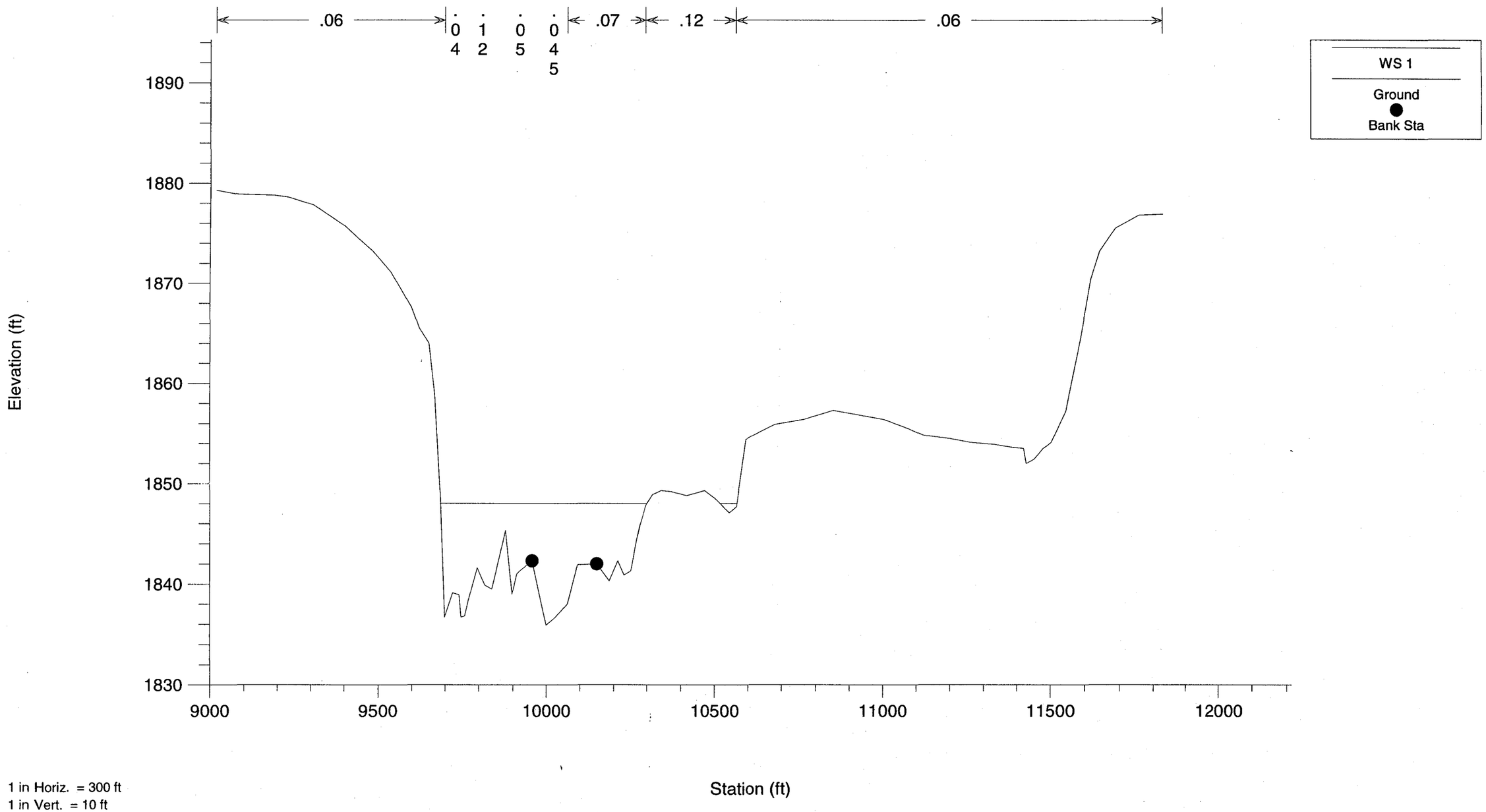
Cave Creek Wash South FIS 100-Year "n" Values
29.720 Cross Section BN



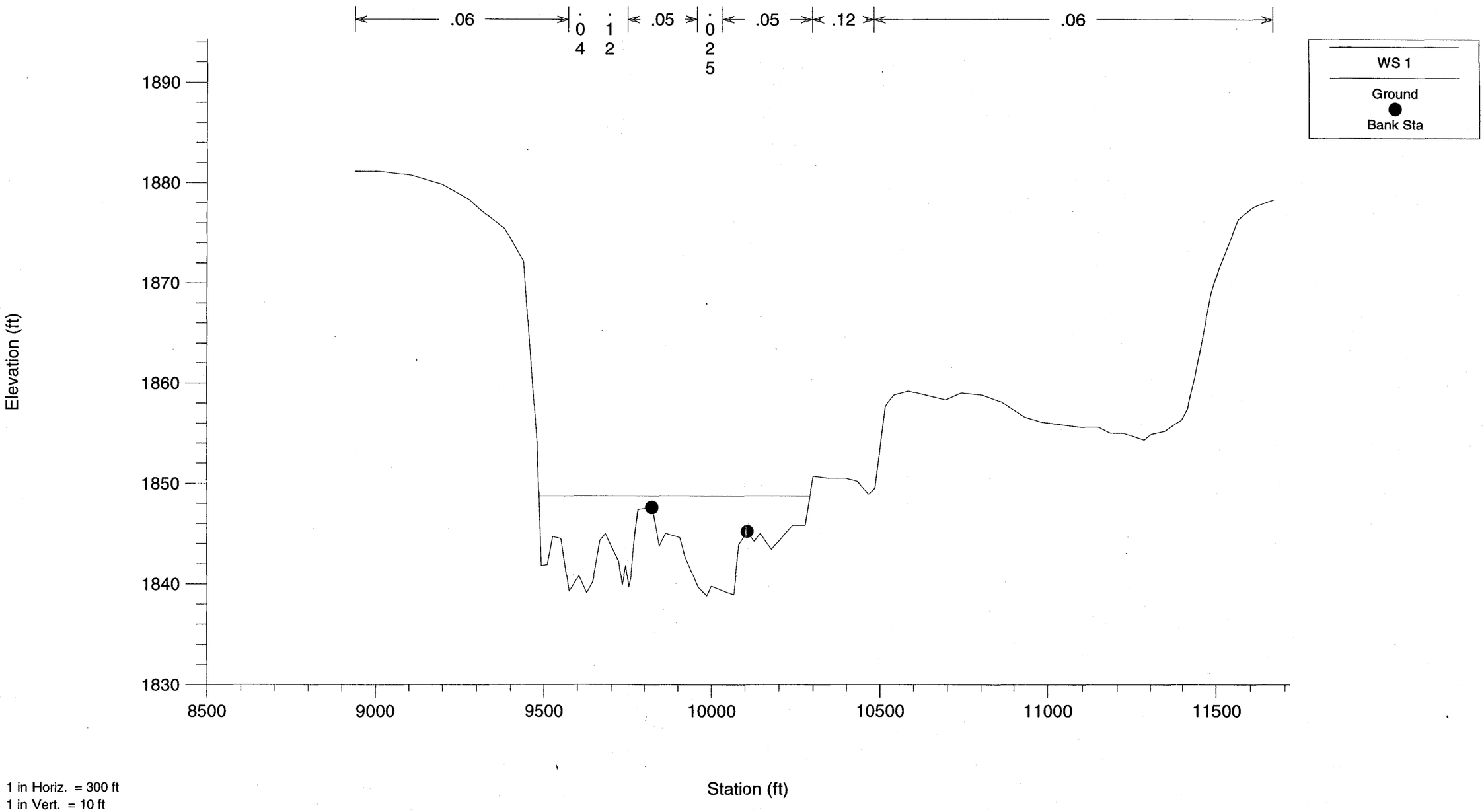
Cave Creek Wash South FIS 100-Year "n" Values
29.770 Cross Section BO



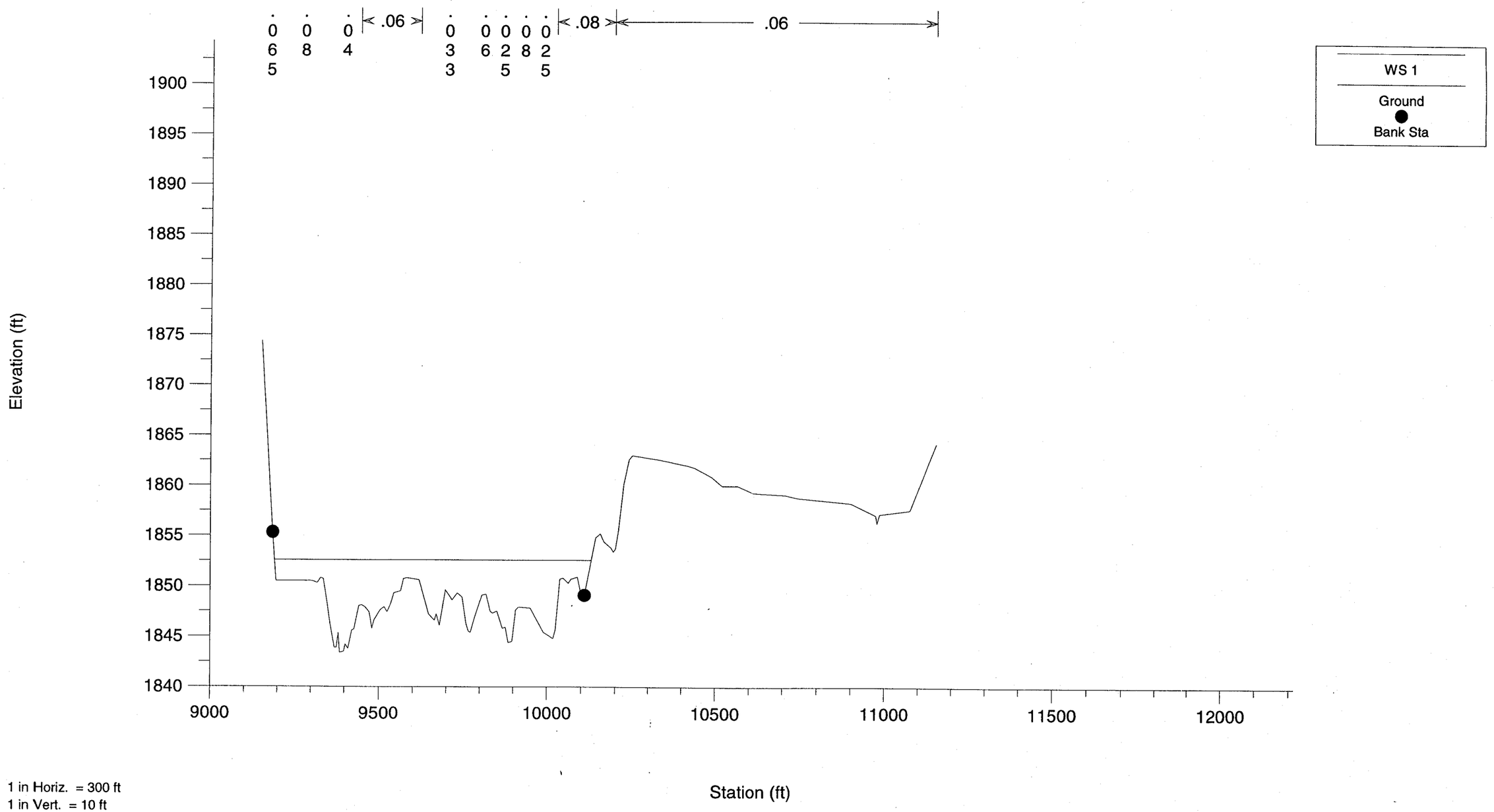
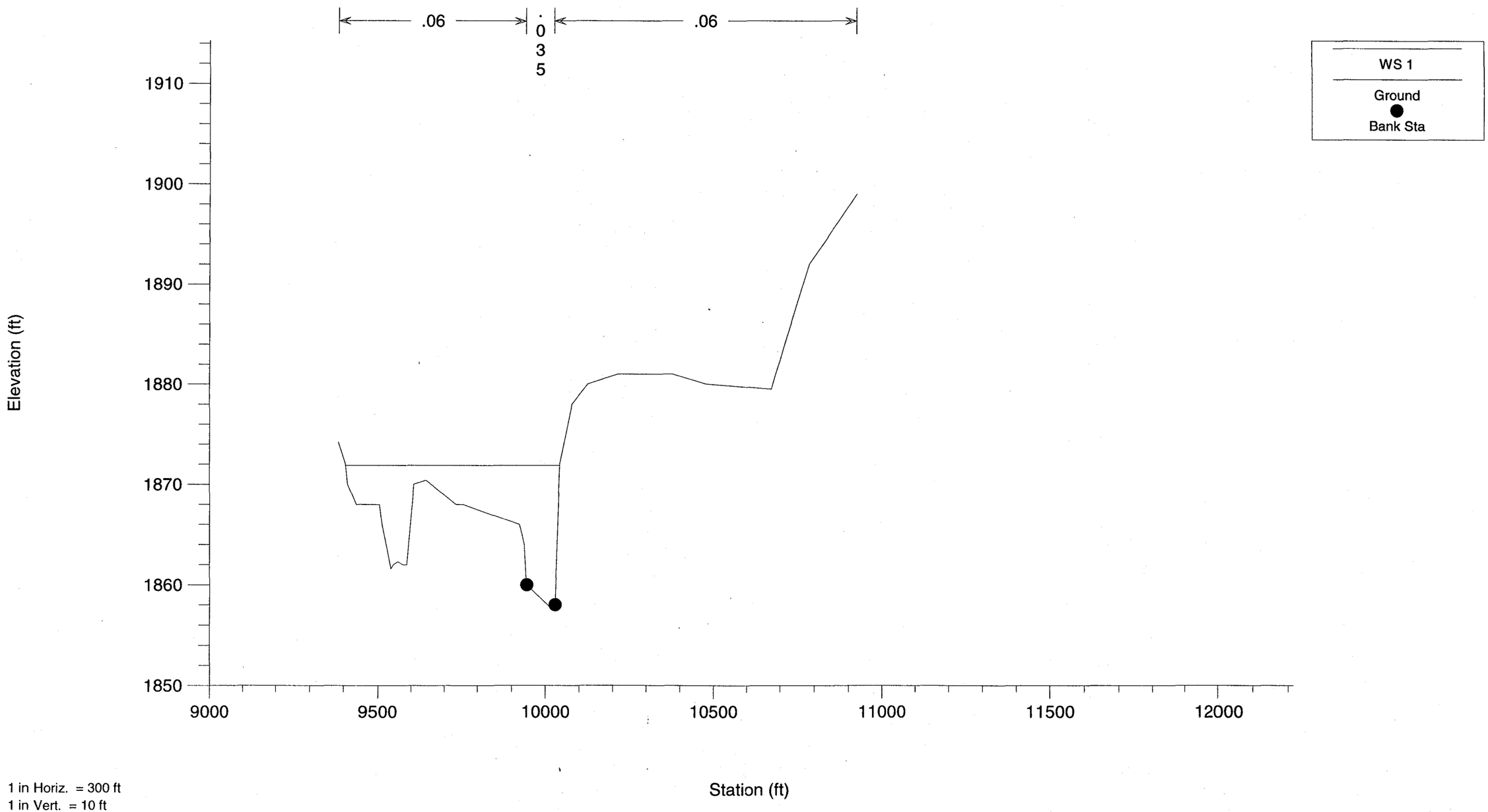
Cave Creek Wash South FIS 100-Year "n" Values
29.351 Cross Section BG



Cave Creek Wash South FIS 100-Year "n" Values
29.387 Cross Section BH



Cave Creek Wash South FIS 100-Year "n" Values
29.493 Cross Section BI



Cave Creek Wash South FIS 100-Year "n" Values
29.850 Cross Section BP