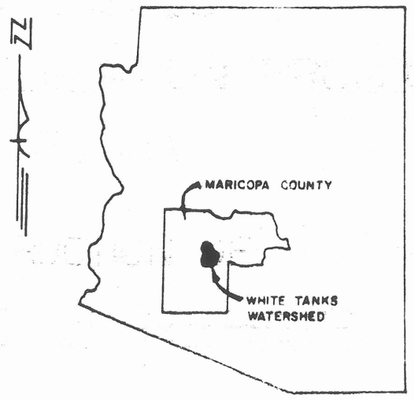
AS-BUILT

WHITE TANKS NO. 3 & NO. 4 REPAIR

WHITE TANKS W.P.P.

OFFICE USE ONLY
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSTRUCTION AND OPERATIONS DIVISION
DRAWER # 1

A470 947

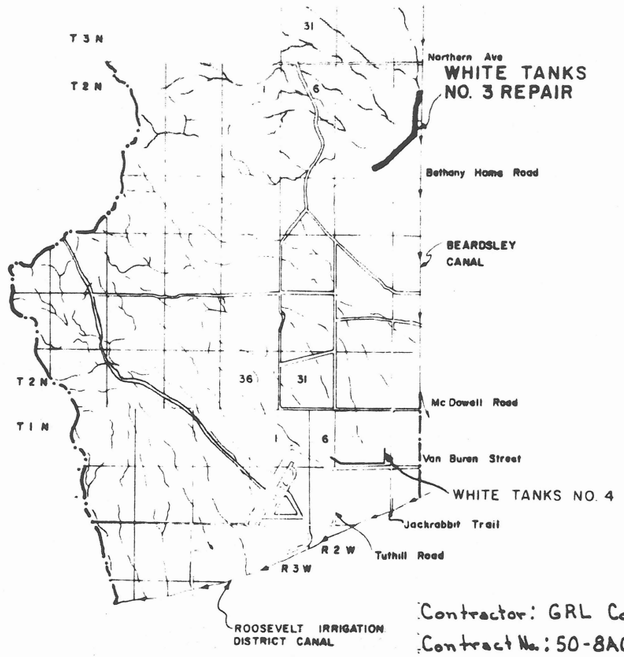



# WHITE TANKS WATERSHED
# PROTECTION AND FLOOD PREVENTION PROJECT
## MARICOPA COUNTY, ARIZONA

AS BUILT

## PLANS FOR THE CONSTRUCTION OF
# WHITE TANKS NO. 3 REPAIR

PREPARED FOR THE FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
BY
SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE




LOCATION MAP

1 0 2
Scale in miles

### GENERAL NOTES

1. Elevations are in feet above mean sea level U.S.G.S. datum.
2. ~~All stationing refers to centerline of construction and is the measured horizontal distance.~~ see notes on stationing p. 5/5
3. All bearings are referenced to True North.

### INDEX OF DRAWINGS

| DRWG. NO. | SHT. NO. | TITLE |
|---|---|---|
| 79021-AZ-Ph | 1. | INDEX OF DRAWINGS |
| | 2. | PLAN & PROFILE |
| | 3. | DETAILS OF DRAIN AND OUTLET |
| | 4. | DETAILS OF DRAIN AND OUTLETS |
| | 5. | AS-BUILT TOP OF DAM, TRENCH, MONUMENT INFORMATION |

Contractor: GRL Construction Company, Inc.
Contract No.: 50-8A02-1-00223, Sept. 16, 1981
Gov't. Representative: Mark H. Eddington
Chief Insp: Albert Rutledge
Completion Date: Aug. 9, 1982

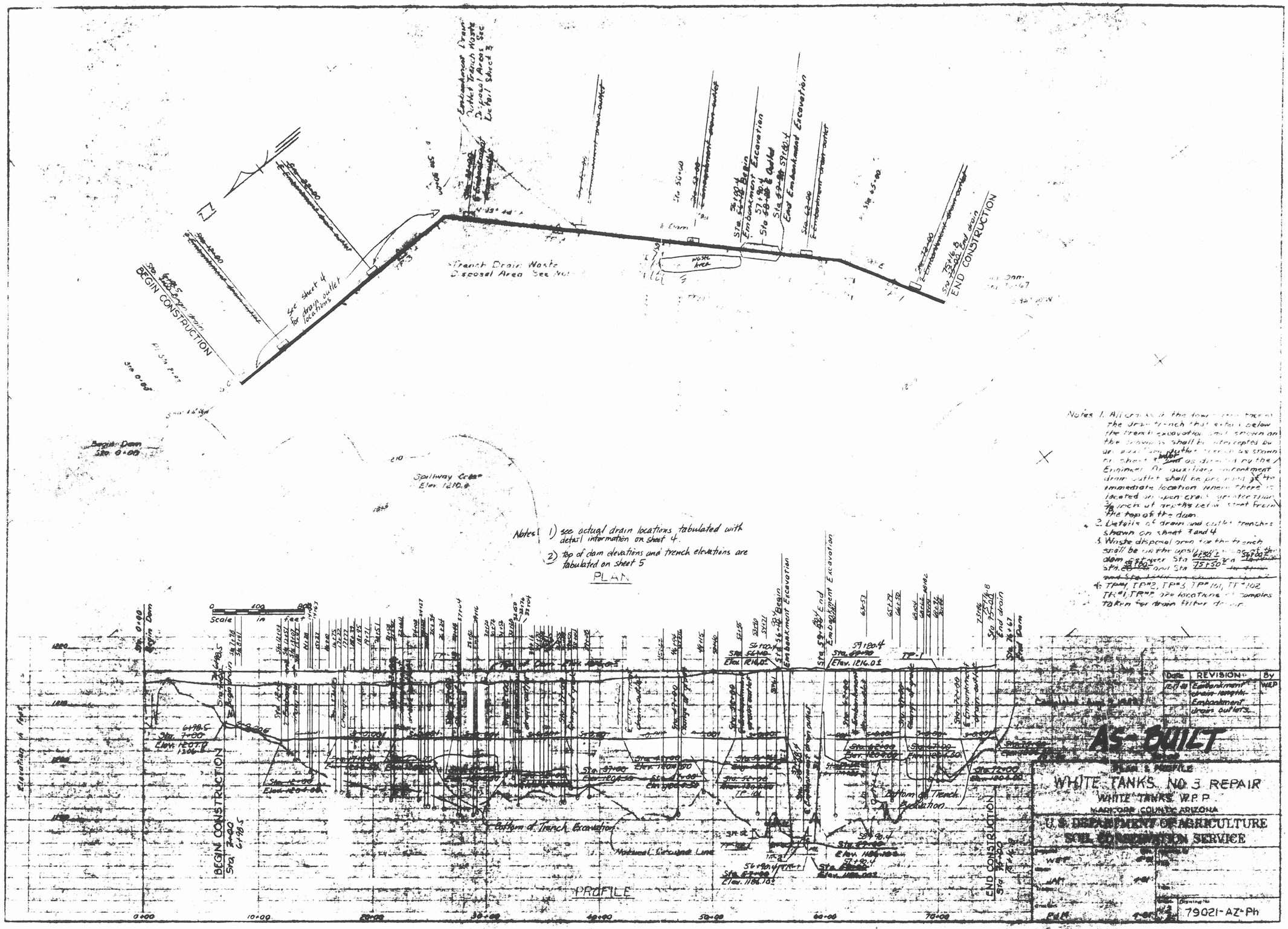
AS-BUILT

INDEX OF DRAWINGS
WHITE TANKS NO. 3 REPAIR
WHITE TANKS W.P.P.
MARICOPA COUNTY, ARIZONA

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

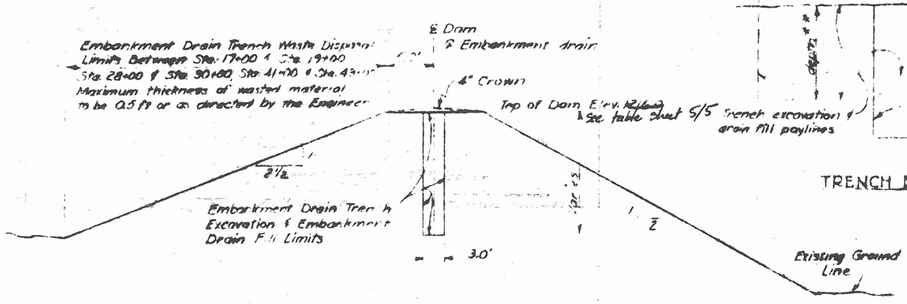
| | | Date | |
|---|---|---|---|
| Designed | WEP | 4-81 | Approved by [signature] |
| Drawn | JAM | 4-81 | Title State Conservation Engineer |
| Traced | | | Robert E. Nelson Acting |
| Checked | PJM, D.I., DEW | 4-81 | Title [illegible] |
| | | | Sheet No. 1 of 5 — Drawing No. 79021-AZ-Ph |

AS BUILT



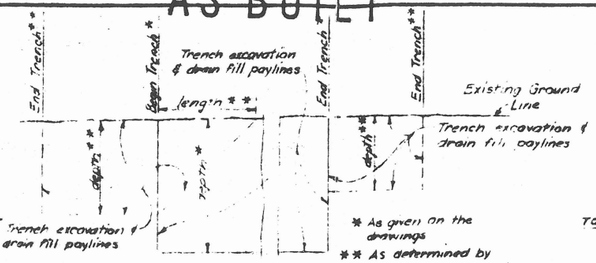
Embankment Drain Outlet Trench Waste Disposal Areas See Detail Sheet 3
Trench Drain Waste Disposal Area See Note
See sheet 4 for drain outlet locations
BEGIN CONSTRUCTION
END CONSTRUCTION
Begin Dam Sta. 0+00
Spillway Crest Elev. 1210.0
Notes 1) see actual drain locations tabulated with detail information on sheet 4.
2) top of dam elevations and trench elevations are tabulated on sheet 5
PLAN
Scale in feet
Elevation in feet
Bottom of Trench Excavation
Natural Ground Line
PROFILE
Notes 1. All cracks in the downstream face of the drain trench that extend below the trench excavation shall be intercepted by an auxiliary outlet trench as shown on sheet 3 and as directed by the Engineer. An auxiliary embankment drain outlet shall be provided at the immediate location where there is located an open crack greater than 3/8 inch at depths below 3 feet from the top of the dam.
2. Details of drain and outlet trenches shown on sheet 3 and 4
3. Waste disposal area for the trench shall be on the upstream slope of the dam between Sta 6+50± and Sta 75+50±
4. TP#1, TP#2, TP#3, TP#101, TP#102 TR#1, TR#2 are locations of samples taken for drain filter design.
REVISION
Embankment drain length
Embankment drain outlets
AS-BUILT
PLAN & PROFILE
WHITE TANKS NO. 3 REPAIR
WHITE TANKS W.P.P.
MARICOPA COUNTY, ARIZONA
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
79021-AZ-Ph

AS BUILT




TYPICAL CROSS SECTION EMBANKMENT DRAIN

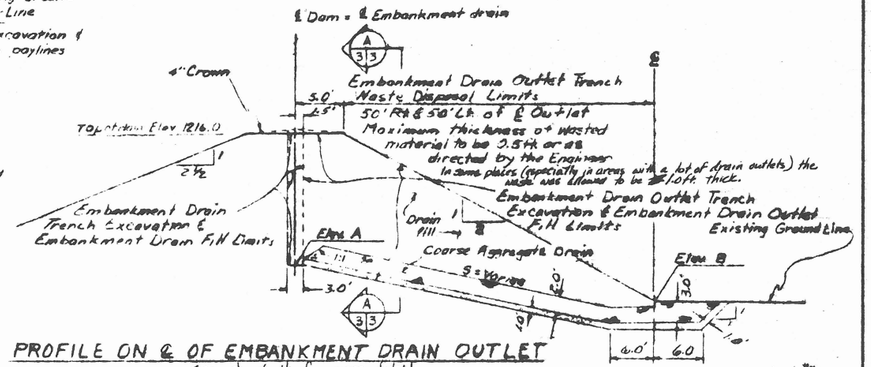
Embankment Drain Trench Waste Disposal Limits Between Sta. 17+00 & Sta. 19+00 Sta. 28+00 & Sta. 30+80, Sta. 41+00 & Sta. 43+... Maximum thickness of wasted material to be 0.5 ft or as directed by the Engineer




* As given on the drawings

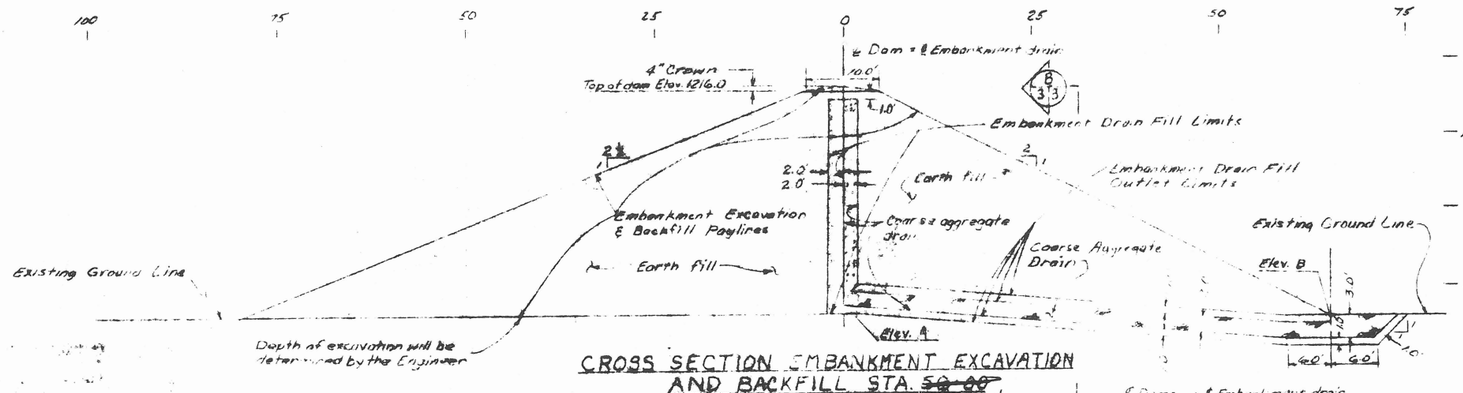
** As determined by cracks encountered

TRENCH EXCAVATION AND DRAIN FILL PAYLINES

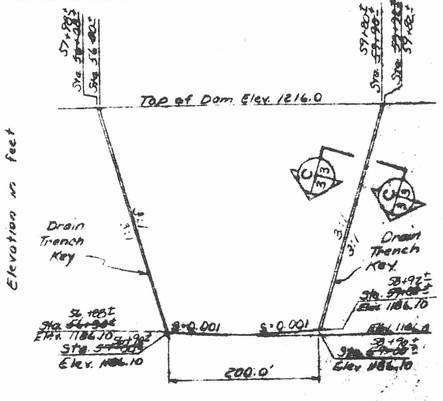



PROFILE ON ℄ OF EMBANKMENT DRAIN OUTLET

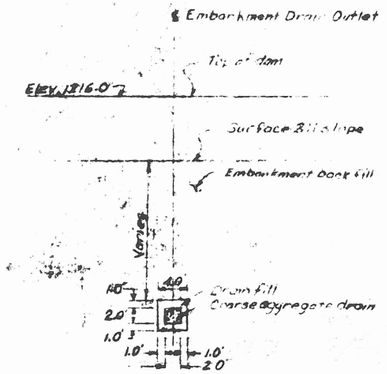
see sheet 4 for more detail




CROSS SECTION EMBANKMENT EXCAVATION AND BACKFILL STA. ~~50+00~~ 51+90.4

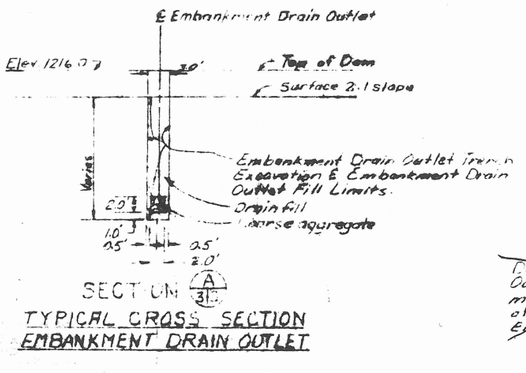



PROFILE ℄ EMBANKMENT EXCAVATION & FILTER STA 56+10± to STA 59+90 ±




CROSS SECTION STA. 58+00 EMBANKMENT DRAIN OUTLET

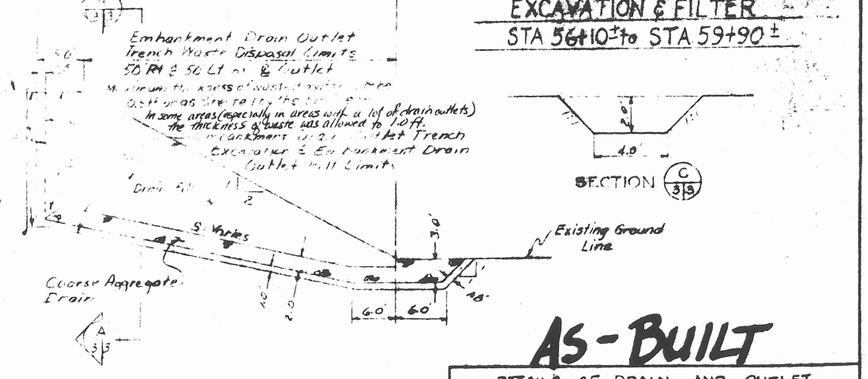
SECTION B 3 3




SECTION A 3 3

TYPICAL CROSS SECTION EMBANKMENT DRAIN OUTLET

Depth of Embankment Drain Outlet shall be extended a minimum of 5 ft below bottom of creek or as directed by the Engineer see sheet 4




SECTION C 3 3

~~SCHEDULE OF EMBANKMENT DRAIN OUTLETS~~

| Station | Elevation A | Elevation B |
|---|---|---|
| ~~18+00~~ | ~~1208.5±~~ | ~~1196.6±~~ |
| ~~29+00~~ | ~~1204.0±~~ | ~~1192.4±~~ |
| ~~42+00~~ | ~~1206.0±~~ | ~~1198.2±~~ |
| ~~59+00~~ | ~~1196.0±~~ | ~~1186.9±~~ |

Note: Auxiliary Embankment Drain Outlet Elevations shall be determined by the Engineer

see sheet 4

~~REVISED~~ SCHEDULE OF EMBANKMENT DRAIN OUTLETS

| STATION | ELEVATION A | ELEVATION B |
|---|---|---|
| ~~12+00~~ | ~~1204.0±~~ | ~~1203.0±~~ |
| ~~28+00~~ | ~~1204.0±~~ | ~~1193.5±~~ |
| ~~32+00~~ | ~~1204.0±~~ | ~~1193.5±~~ |
| ~~42+00~~ | ~~1204.0±~~ | ~~1192.0±~~ |
| ~~52+00~~ | ~~1204.0±~~ | ~~1191.0±~~ |
| ~~62+00~~ | ~~1204.0±~~ | ~~1189.5±~~ |
| ~~72+00~~ | ~~1204.0±~~ | ~~1189.0±~~ |
| ~~58+00~~ | ~~1186.0±~~ | ~~1186.0±~~ |

PROFILE ℄ AUXILIARY OUTLET

Completed: Aug. 9, 1982

| REVISIONS | | |
|---|---|---|
| 12-18-81 | Revised Schedule of Embankment Drain Outlets. See attached list of outlet stations. | WEP |

AS-BUILT

DETAILS OF DRAIN AND OUTLET
WHITE TANKS NO. 3 REPAIR
WHITE TANKS W.P.P.
MARICOPA COUNTY, ARIZONA

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | | Date | Approved by: |
|---|---|---|---|
| Designed | MWP | 4-81 | |
| Drawn | JAM | 4-81 | Title |
| Traced | | | Title |
| Checked | RJW | 4-81 | Sheet No. 3 of 15 |

Drawing No. 79021-AZ-Ph

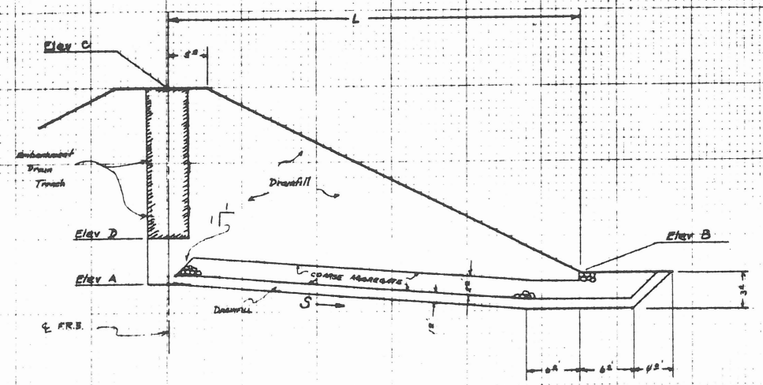
SCS-ENG-511C REV. 2-75

AS BUILT

| STA | ELEV A | ELEV B | ELEV C | ELEV D | L | S |
|---|---|---|---|---|---|---|
| 7+98 | 1204.5 | 1204.7 | 1213.4 | 1206.2 | 210 | 0.1767 |
| 8+41 | 1204.0 | 1204.3 | 1213.1 | 1205.8 | 218 | .1682 |
| 12+03 | 1203.5 | 1201.8 | 1213.8 | 1203.8 | 350 | .0873 |
| 12+51 | 1201.4 | 1201.4 | 1213.8 | 1203.8 | 345 | .1481 |
| 13+07 | 1200.5 | 1200.8 | 1213.7 | 1204.3 | 351.5 | .1321 |
| 13+47 | 1200.5 | 1200.6 | 1213.8 | 1204.2 | 354 | .1418 |
| 14+28 | 1201.0 | 1199.6 | 1213.7 | 1204.0 | 356 | .1797 |
| 14+43 | 1198.5 | 1198.8 | 1213.6 | 1204.0 | 354 | .1175 |
| 14+83 | 1197.5 | 1197.9 | 1213.6 | 1204.1 | 446 | .0988 |
| 15+27 | 1196.0 | 1196.3 | 1213.8 | 1204.4 | 446 | .0987 |
| 16+10 | 1203.2 | 1195.8 | 1215.7 | 1204.4 | 460 | .2961 |
| 16+75 | 1195.0 | 1196.2 | 1213.7 | 1204.2 | 465 | .0974 |
| 17+22 | 1195.0 | 1195.4 | 1213.7 | 1204.2 | 460 | .0935 |
| 17+77 | 1194.5 | 1195.0 | 1213.8 | 1204.2 | 495 | .0833 |
| 18+39 | 1202.8 | 1194.9 | 1213.8 | 1204.3 | 480 | .2938 |
| 18+95 | 1194.5 | 1194.9 | 1213.8 | 1204.1 | 490 | .0867 |
| 19+71 | 1201.3 | 1194.8 | 1213.8 | 1204.0 | 488 | .2593 |
| 20+51 | 1203.6 | 1194.3 | 1213.6 | 1204.0 | 490 | .3205 |
| 21+68 | 1193.7 | 1194.2 | 1213.8 | 1204.1 | 490 | .0843 |
| 21+92 | 1194.5 | 1194.8 | 1213.8 | 1204.0 | 490 | .0898 |
| 22+60 | 1194.5 | 1194.7 | 1213.8 | 1204.8 | 488 | .0927 |
| 24+03 | 1193.5 | 1193.6 | 1213.6 | 1204.3 | 485 | .0961 |
| 24+27 | 1198.2 | 1193.4 | 1213.7 | 1204.2 | 485 | .2.146 |
| 24+60 | 1192.5 | 1193.0 | 1213.7 | 1204.2 | 495 | .0833 |
| 24+81 | 1192.5 | 1192.9 | 1213.7 | 1204.2 | 495 | .0857 |
| 25+34 | 1192.0 | 1192.2 | 1214.2 | 1204.6 | 520 | .0854 |
| 26+24 | 1192.0 | 1192.1 | 1214.4 | 1205.2 | 525 | .0867 |
| 27+48 | 1191.0 | 1191.2 | 1214.0 | 1205.3 | 535 | .0826 |
| 27+64 | 1191.0 | 1191.5 | 1214.0 | 1205.2 | 535 | .0761 |
| 28+82 | 1191.0 | 1191.6 | 1213.9 | 1205.2 | 530 | .0747 |
| 29+16 | 1191.5 | 1191.8 | 1213.8 | 1205.3 | 530 | .0813 |
| 30+20 | 1192.5 | 1192.8 | 1213.6 | 1205.3 | 515 | .0841 |
| 30+72 | 1198.1 | 1193.7 | 1213.9 | 1205.1 | 520 | .1976 |
| 31+56 | 1196.2 | 1192.9 | 1214.2 | 1198.9 | 490 | .1759 |
| 32+28 | 1197.5 | 1192.5 | 1214.3 | 1198.5 | 520 | .2118 |
| 32+50 | 1196.0 | 1192.6 | 1214.3 | 1198.6 | 520 | .1741 |
| 32+76 | 1192.5 | 1192.8 | 1214.2 | 1198.5 | 515 | .0871 |
| 33+04 | 1196.0 | 1192.9 | 1214.2 | 1198.5 | 520 | .1671 |

| STA | ELEV A | ELEV B | ELEV C | ELEV D | L | S |
|---|---|---|---|---|---|---|
| 34+16 | 1196.5 | 1194.4 | 1214.2 | 1198.5 | 485 | 0.1958 |
| 34+70 | 1196.5 | 1194.6 | 1214.1 | 1198.5 | 485 | .1439 |
| 35+09 | 1195.6 | 1194.1 | 1214.1 | 1198.6 | 500 | .1294 |
| 35+51 | 1197.8 | 1193.7 | 1214.2 | 1198.8 | 510 | .1906 |
| 35+85 | 1196.0 | 1193.5 | 1214.3 | 1199.0 | 500 | .1829 |
| 36+55 | 1193.0 | 1193.5 | 1214.4 | 1199.0 | 512 | .0781 |
| 38+89 | 1193.0 | 1193.3 | 1214.4 | 1198.9 | 512 | .0831 |
| 37+50 | 1195.5 | 1193.8 | 1214.5 | 1195.6 | 505 | .1326 |
| 38+04 | 1194.0 | 1194.4 | 1214.4 | 1198.5 | 490 | .2857 |
| 39+08 | 1195.0 | 1195.6 | 1214.3 | 1196.1 | 470 | .0638 |
| 45+62 | 1195.6 | 1194.3 | 1215.1 | 1197.1 | 490 | .1277 |
| 46+94 | 1191.0 | 1191.4 | 1216.0 | 1200.2 | 530 | .0791 |
| 47+16 | 1199.0 | 1191.3 | 1215.0 | 1200.5 | 530 | .2571 |
| 49+15 | 1195.1 | 1195.6 | 1215.7 | 1200.5 | 515 | .0795 |
| 50+40 | 1193.0 | 1193.3 | 1215.6 | 1200.9 | 525 | .0822 |
| 52+55 | 1199.0 | 1193.2 | 1215.4 | 1199.3 | 535 | 0.2130 |
| 53+90 | 1194.2 | 1191.7 | 1216.0 | 1199.4 | 585 | .0729 |
| 54+71 | 1189.3 | 1189.8 | 1216.0 | 1199.7 | 580 | .0693 |
| 58+61 | 1190.1 | 1190.6 | 1216.6 | 1200.5 | 610 | .0654 |
| 60+82 | 1190.7 | 1191.2 | 1216.3 | 1199.9 | 605 | .0655 |
| 63+53 | 1192.4 | 1192.9 | 1214.2 | 1200.1 | 540 | .0746 |
| 65+79 | 1193.5 | 1194.0 | 1216.2 | 1200.7 | 685 | .0598 |
| 66+50 | 1190.5 | 1191.0 | 1216.4 | 1200.4 | 570 | .0701 |
| 68+04 | 1193.1 | 1193.6 | 1216.4 | 1196.9 | 540 | .0746 |
| 68+62 | 1195.3 | 1195.8 | 1216.5 | 1197.1 | 495 | .0826 |
| 68+82 | 1196.0 | 1196.4 | 1216.4 | 1196.9 | 490 | .0860 |
| 69+14 | 1196.4 | 1196.9 | 1216.4 | 1196.9 | 490 | .0836 |
| 69+92 | 1196.7 | 1197.1 | 1216.4 | 1196.7 | 460 | .0927 |
| 70+44 | 1196.7 | 1197.2 | 1216.4 | 1196.8 | 465 | .0890 |
| 73+86 | 1203.7 | 1204.2 | 1216.6 | 1203.7 | 335 | .1335 |

EMBANKMENT DRAIN OUTLETS FOR WHITE TANKS no. 3




TYPICAL DRAIN OUTLET

Completed: Aug. 9, 1982

AS-BUILT

DETAILS of DRAIN and OUTLETS
WHITE TANKS NO. 3 REPAIR
WHITE TANKS W.R.P.
MARICOPA COUNTY, ARIZONA

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | Date | Approved by |
|---|---|---|
| Designed | | Title |
| Drawn DC | 6/84 | Date |
| Traced | | Sheet No. 4 of 5 |
| Checked | | Drawing No. 79021-11E-Ph1 |

## As-Built Elevations at Top of Dam and Trench Bottom

White Tanks No. 3

| Assumed Station | Corrected Station (@ of Trench) | Top of Dam Elevation | Bottom of Trench Elevation | Assumed Station | Corrected Station (@ of Trench) | Top of Dam Elevation | Bottom of Trench Elevation |
|---|---|---|---|---|---|---|---|
| 0+00 | 0+00.0 | 1213.9 | — | 42+00 | 41+89.0 | 1214.9 | 1197.6 |
| 2+50 | 2+50.0 | 1214.6 | — | 44+50 | 44+39.0 | 1214.9 | 97.4 |
| 5+00 | 5+00.0 | 1213.8 | — | 47+00 | 46+89.0 | 1215.0 | 97.6 |
| 6+98.5 | 6+98.5 | Begin Trench | — | 48+50 | 48+39.0 | 1215.0 | 97.2 |
| 7+00 | 7+00.0 | — | 1200.8 | 49+00 | 48+89.0 | 1215.3 | 97.2 |
| 7+50 | 7+50.0 | 1213.6 | 96.8 | 49+50 | 49+39.0 | 1215.2 | 97.3 |
| 8+00 | 8+00.0 | — | 96.2 | 50+00 | 49+89.0 | 1215.1 | 97.0 |
| 8+50 | 8+50.0 | — | 95.2 | 50+50 | 50+39.0 | 1215.1 | 97.4 |
| 9+00 | 9+00.0 | — | 95.1 | 51+00 | 50+89.0 | 1215.0 | 97.2 |
| 9+50 | 9+50.0 | — | 95.3 | 51+50 | 51+39.0 | 1215.0 | 1197.2 |
| 10+00 | 10+01.4 | 13.5 | 95.3 | Trench gets Shallower | | | |
| 10+50 | 10+51.4 | 13.7 | 94.9 | 47+00 | 46+89.0 | 15.0 | 1200.2 |
| 11+00 | 11+01.4 | 13.9 | 94.8 | 47+50 | 47+39.0 | 14.9 | 00.5 |
| 11+50 | 11+51.4 | 13.7 | 94.1 | 48+00 | 47+89.0 | 15.1 | 00.4 |
| 12+00 | 12+01.4 | 13.9 | 93.8 | 48+50 | 48+39.0 | 15.3 | 00.5 |
| 12+50 | 12+51.4 | 13.8 | 93.8 | 49+00 | 48+89.0 | 15.6 | 00.6 |
| 13+00 | 13+01.4 | 13.7 | 94.3 | 49+50 | 49+39.0 | 15.7 | 00.5 |
| 13+50 | 13+51.4 | 13.8 | 93.4 | 50+00 | 49+89.0 | 15.8 | 01.1 |
| 14+00 | 14+01.4 | 13.8 | 93.6 | 50+50 | 50+39.0 | 15.6 | 00.7 |
| 14+50 | 14+51.4 | 13.8 | 94.0 | 51+00 | 50+89.1 | 15.6 | 00.6 |
| 15+00 | 15+00.9 | 13.7 | 94.9 | 51+50 | 51+39.1 | 15.6 | 1200.7 |
| 15+50 | 15+50.9 | 13.9 | 94.9 | 52+00 | 51+89.1 | 15.4 | 1199.9 |
| 16+00 | 16+00.9 | 13.7 | 94.9 | 52+50 | 52+39.1 | 15.4 | 1199.3 |
| 16+50 | 16+50.9 | 13.6 | 94.2 | 53+00 | 52+89.1 | 15.7 | 99.5 |
| 17+00 | 17+00.9 | 13.8 | 94.3 | 53+50 | 53+39.1 | 15.7 | 99.5 |
| 17+50 | 17+50.9 | 13.7 | 94.1 | 54+00 | 53+89.1 | 16.0 | 99.6 |
| 18+00 | 18+00.9 | 13.9 | 94.3 | 54+50 | 54+39.1 | 16.0 | 99.4 |
| 18+50 | 18+50.9 | 13.8 | 94.3 | 55+00 | 54+89.4 | 16.0 | 99.8 |
| 19+00 | 19+00.9 | 13.9 | 94.1 | 55+50 | 55+39.4 | 15.6 | 1200.5 |
| 19+50 | 19+50.9 | 13.8 | 94.2 | 56+00 | 55+89.4 | 16.6 | 00.6 |
| 20+00 | 20+00.9 | 13.7 | 93.9 | 56+50 | 56+39.4 | 16.4 | 00.2 |
| 20+50 | 20+50.9 | 13.6 | 94.0 | 56+50 | 56+50.4 | — | 1200.9 |
| 21+00 | 21+00.9 | 13.6 | 94.1 | 56+85 | 56+73.4 | 16.7 | 1216.7 |
| 21+50 | 21+50.9 | 13.8 | 94.1 | — | End of Trench | | |
| | Trench Deepens | | | 57+00 | 56+89.4 | 16.2 | — |
| 21+50 | 21+50.9 | 13.8 | 91.1 | 57+85 | 57+89.4 | — | — |
| 22+00 | 22+00.9 | 13.8 | 91.0 | 58+00 | 57+89.4 | 16.3 | — |
| 22+50 | 22+50.9 | 13.8 | 90.8 | 58+50 | 58+39.4 | — | — |
| 23+00 | 23+00.9 | 13.7 | 91.3 | 59+00 | 58+89.4 | 16.4 | — |
| 23+50 | 23+50.9 | 13.6 | 91.2 | 59+50 | 59+39.4 | 16.1 | — |
| 24+00 | 24+00.9 | 13.6 | 90.5 | Begin Trench | | | |
| 24+50 | 24+50.9 | 13.7 | 90.2 | 59+76 | 59+63.4 | — | 1208.6 |
| 25+00 | 25+00.9 | 13.7 | 90.2 | 59+85 | 59+70.4 | — | 08.7 |
| 25+50 | 25+49.5 | 14.2 | 90.2 | 59+86 | 59+73.4 | — | 11.0 |
| 26+00 | 25+99.5 | 14.4 | 91.1 | 60+00 | 59+89.4 | 16.4 | 1200.5 |
| 26+50 | 26+49.5 | 14.4 | 91.3 | 60+50 | 60+39.4 | 16.5 | 1200.3 |
| 27+00 | 26+99.5 | 14.01 | 91.3 | 61+00 | 60+89.4 | 16.3 | 1199.9 |
| 27+50 | 27+49.5 | 14.0 | 91.3 | 61+50 | 61+39.4 | 16.3 | 1200.2 |
| 28+00 | 27+99.5 | 14.01 | 91.1 | 62+00 | 61+89.4 | 16.4 | 1200.2 |
| 28+50 | 28+49.5 | 14.0 | 91.2 | 62+50 | 62+39.4 | 16.2 | 1200.0 |
| 29+00 | 28+99.5 | 13.9 | 91.3 | 63+00 | 62+89.4 | 16.5 | 1199.8 |
| 29+50 | 29+49.5 | 14.0 | 91.3 | 63+50 | 63+39.4 | 16.2 | 1200.1 |
| 30+00 | 29+96.7 | 13.6 | 91.3 | 64+00 | 63+89.4 | 16.1 | 1200.2 |
| 30+50 | 30+46.7 | 13.7 | 91.3 | 64+50 | 64+39.4 | 16.1 | 00.4 |
| 31+00 | 30+96.9 | 14.1 | 1200.9 | 65+00 | 64+89.4 | 16.3 | 00.3 |
| | Trench Deepens | | | 65+50 | 65+39.4 | 16.1 | 00.5 |
| 31+00 | 30+96.9 | 14.1 | 1200.1 | 66+00 | 65+89.4 | 16.2 | 00.2 |
| 31+50 | 31+46.9 | 14.2 | 98.9 | 66+50 | 66+39.4 | 16.4 | 00.4 |
| 32+00 | 31+96.9 | 14.3 | — | 66+80 | 66+69.4 | 16.7 | 00.7 |
| 32+50 | 32+46.9 | 14.3 | 98.8 | 67+13 | 67+03.4 | — | 1200.9 |
| 33+00 | 32+96.9 | 14.2 | 98.5 | Trench Deepens | | | |
| 33+50 | 33+46.9 | 14.2 | 98.4 | 67+17 | 67+07.4 | + | 1197.7 |
| 34+00 | 33+96.9 | 14.2 | 98.3 | 68+50 | 68+39.4 | 16.5 | 97.2 |
| 34+50 | 34+46.9 | 14.1 | 98.5 | 69+00 | 68+89.4 | 16.4 | 96.9 |
| 35+00 | 34+96.9 | 14.1 | 98.4 | 69+50 | 69+39.4 | 16.5 | 97.1 |
| 35+50 | 35+46.9 | 14.2 | 98.2 | 70+00 | 69+89.4 | 16.4 | 96.9 |
| 36+00 | 35+99.9 | 14.3 | 99.0 | 70+50 | 70+39.4 | 16.4 | 96.9 |
| 36+50 | 36+49.9 | 14.4 | 99.2 | 71+00 | 70+89.5 | 16.4 | 96.7 |
| 37+00 | 36+99.9 | 14.4 | 1199.9 | 71+50 | 71+39.5 | 16.4 | 96.8 |
| | Trench Deepens | | | 71+80 | 71+69.5 | 16.4 | 96.6 |
| 37+00 | 36+99.9 | 14.4 | 1197.9 | 72+00 | 71+89.5 | 16.4 | 97.5 |
| 37+50 | 37+49.9 | 14.5 | 95.7 | 72+50 | 72+39.5 | 16.6 | 98.3 |
| 38+00 | 37+99.9 | 14.9 | 95.5 | 73+00 | 72+89.5 | 16.5 | 1200.1 |
| 38+50 | 38+49.9 | 14.3 | 95.6 | 73+50 | 73+39.5 | 16.5 | 01.3 |
| 39+00 | 38+98.4 | 14.5 | 96.1 | 73+80 | 73+69.5 | 16.6 | 03.1 |
| 39+50 | 39+48.4 | 14.5 | 96.2 | 74+00 | 73+89.5 | 16.7 | 02.7 |
| 40+00 | 39+97.2 | 14.5 | 96.3 | 74+50 | 74+39.5 | 16.8 | 02.2 |
| 40+50 | 40+47.0 | 14.8 | 96.5 | 75+00 | 74+89.5 | 16.7 | 06.1 |
| 41+00 | 40+97.0 | 14.8 | 96.5 | 75+26 | 75+15.5 | 16.8 | 10.0 |
| 41+50 | 41+47.0 | 14.8 | 97.0 | Top of Trench | | | |

## Stations and Elevations of Monuments — W.T. No. 3

(Dams top in Concrete)

| Monument number | Assumed Station | Corrected Station | Elevation |
|---|---|---|---|
| | 0+00 | 0+00 | 1210.24 |
| 2 | 5+00 | 5+00 | 1208.96 |
| 3 | 10+00 | 10+01.4 | 1209.13 |
| 4 | 15+00 | 15+00.9 | 1197.98 |
| 5 | 20+00 | 20+00.9 | 1199.38 |
| 6 | 25+00 | 24+99.5 | 1192.69 |
| 7 | 30+00 | on curve | — |
| 8 | 35+00 | 34+99.4 | 1199.06 |
| 9 | 40+00 | 39+97.2 | 1200.13 |
| 10 | 45+00 | 44+87.0 | 1199.23 |
| 11 | 50+00 | 49+76.8 | 1198.58 |
| 12 | 55+00 | 54+96.9 | 1198.36 |
| 13 | 60+00 | destroyed | — |
| 14 | 65+00 | on curve | 1191.76 |
| 15 | 70+00 | 69+90.9 | 1192.89 |
| 16 | 75+00 | 74+91.8 | 1211.73 |

Benchmark: BM 1232. (J 265)
USGS Elevation = 1230.76
(2. USC&GS Bluff Cap Stamped J 265)
1948

Vertical Survey by: Monuments by
Charles F. Sing 9/25/81

White Tanks No. 3 and No. 4 Repair Notes

Assumed Stations:

"Monuments were placed 100' apart along the crest/toe of the dam. It was assumed during construction that these monument stations relative to the ℄ of the dam, were even 100's stations. Assumed stations for locators along the ℄ of the dam were determined as follows:

1) Right angles were turned from the top of the dam to the monuments to determine assumed monument stationing to the top of the dam.
2) The point established as step no. 1 was then used as the basis for stationing along the ℄ of the dam in the direction of increasing stationing to the next monument, not located on a curve.
3) At the next monument not on a curve, stationing carried from the previous monument was abandoned. Step no. (one) 1, was repeated using the new monument's assumed station as the basis for stationing.

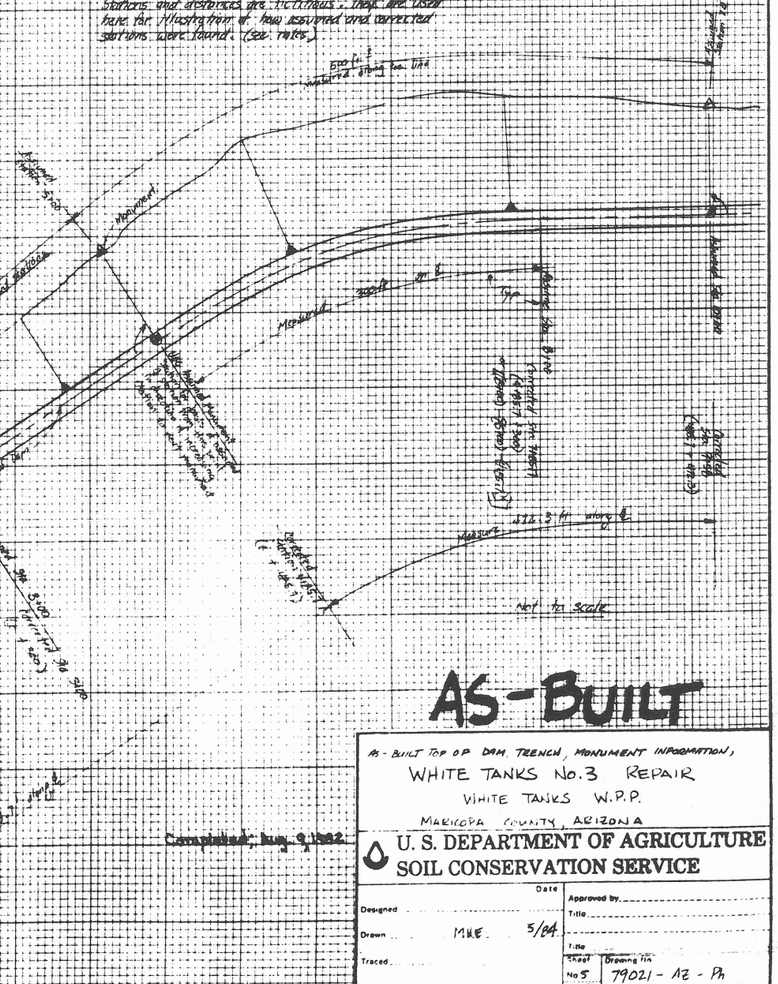
Corrected Stations:

Assumed stations were corrected as follows:

1) Assumed monument station of top by both structures was compared to the true monument station.
2) Right angles were turned from the top of the dam to the monuments to establish the corresponding ℄ of the monuments at the ℄ of the dam.
3) The distance between these points was measured along the ℄ of the dam and used for calculating the monuments corrected stations. Assumed monument ℄ to ℄ of monument above ℄ of dam equals 300.3 feet. Corrected station at the dam must be measured previously to the monument station. Example: Monument No. 11 = 49+76.8 + 300.3 = 49+76.8 + 3.003 = 49+76.8
4) The difference between the corrected and assumed stations of a given monument is used to correct stations based on the monuments assumed station. For the example below: Assumed Sta. 5100 corrected Sta. 5182.7 = 51.3'. To determine corrected station of assumed station 5100, subtract 51.3 = 5048.7

Assumed and Corrected Stations:

Stations and distances are fictitious. They are used here for illustration of how assumed and corrected stations were found. (See 79185)




# AS-BUILT

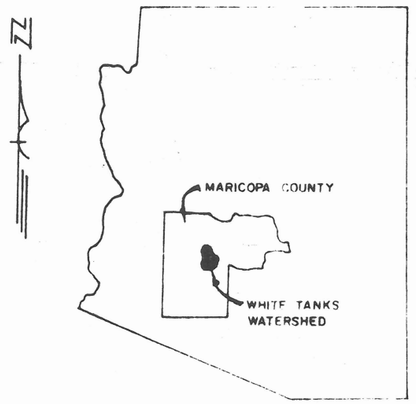
As-built top of dam, trench, monument information,
White Tanks No. 3 Repair
White Tanks W.P.P.
Maricopa County, Arizona

Completed: Aug. 9, 1982

U.S. Department of Agriculture
Soil Conservation Service

| | | | |
|---|---|---|---|
| Designed | | Date | Approved by |
| Drawn | MKE | 5/84 | Title |
| Traced | | | Title |
| Checked | | Sheet No. 5 of 5 | Drawing No. 79021-12-Ph |

SCS ENG 116 REV 8-79

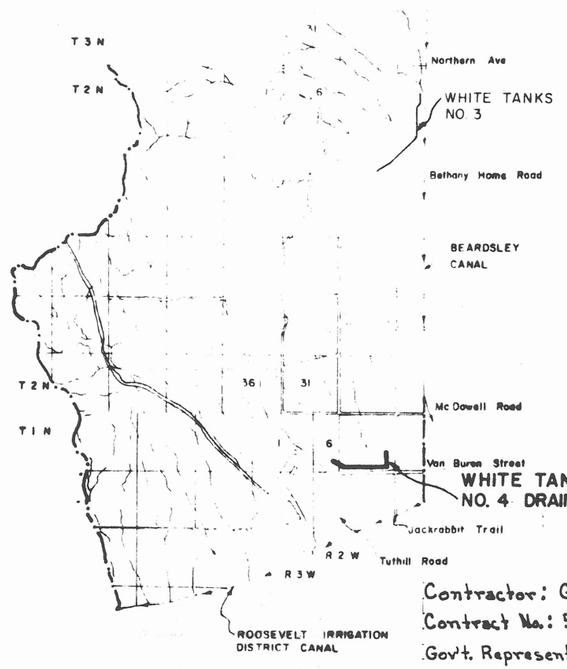



# WHITE TANKS WATERSHED
# PROTECTION AND FLOOD PREVENTION PROJECT
## MARICOPA COUNTY, ARIZONA

PLANS FOR THE CONSTRUCTION OF

# WHITE TANKS NO. 4 DRAIN

PREPARED FOR THE FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
BY
SOIL CONSERVATION SERVICE
U.S DEPARTMENT OF AGRICULTURE




LOCATION MAP

Scale 1 0 2 in miles

GENERAL NOTES

1. Elevations are in feet above mean sea level U.S.G.S. datum.
2. ~~All stationing refers to centerline of construction and is the measured horizontal distance~~ see notes on stationing in White Tanks No. 3 Repair As-Built plans 5/5
3. All bearings are referenced to True North.

INDEX OF DRAWINGS

| DRWG. NO. | SHT. NO. | TITLE |
|---|---|---|
| 79022-AZ-Ph | 1. | INDEX OF DRAWINGS |
| | 2. | PLAN & PROFILE OF NO. 4 DRAIN |
| | 3. | TYPICAL CROSS SECTIONS OF NO. 4 DRAIN |
| | 4. | DETAILS OF DRAIN AND OUTLETS |
| | 5. | AS-BUILT TOP OF DAM, TRENCH, MONUMENT INFORMATION |

Contractor: GRL Construction Company, Inc.
Contract No.: 50-8A02-1-00223, Sept. 16, 1981
Gov't. Representative: Mark H. Eddington
Chief Insp.: Albert Rutledge
Completion Date: Aug. 9, 1982

AS-BUILT

INDEX OF DRAWINGS
WHITE TANKS NO. 4 DRAIN
WHITE TANKS W.P.P.
MARICOPA COUNTY, ARIZONA

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | | | |
|---|---|---|---|
| Designed WEP | Date 4-81 | Approved | State Conservation Engineer |
| Drawn JAM | 4-81 | Title | Area Conservationist |
| Traced | | Sheet No. 1 of 5 | Drawing No. 79022-AZ-Ph |
| Checked PJM, LMS, DEW | 4-81 | | |

SCS-ENG-313C (REV. 6-75)

Embankment Drain Outlet Trench Waste Disposal Areas See detail sheet 3

Sta 20+00 6"ø Outlet

Sta 30+00 6"ø Outlet

Sta 40+00 6"ø Outlet

Sta 50+00 6"ø Outlet

Sta 58+68 6"ø Outlet

Sta 60+00 6"ø Outlet

TP #2

TP #1

Sta 11+50

Sta 16+50

Sta 10+03

Sta 0+00 Begin Dam

Spillway Crest Elev 1050.0

Drain Fill

Dam

Embankment Drain Trench Waste Disposal Area - See note 3

END CONSTRUCTION Sta 68+39 End Dam

BEGIN CONSTRUCTION Sta 0+85 Begin Drain

END CONSTRUCTION Sta 66+00 End Drain

PLAN

SCALE IN FEET 0 400 800

Drain Outlet Trenches

Top of Dam - Elev. 1056.0±

Approx Trench Excavation & Drain Fill Limits

Trench Excavation Limits

Natural Ground Line on ℄ of Embankment

PROFILE

Elevation in Feet

1050

1040

1030

0+00 10+00 20+00 30+00 40+00 50+00 60+00 70+00

Notes 1. All cracks in the downstream face of the embankment drain trench that extend below the trench excavation limit shown on the drawings, shall be intercepted by an auxiliary embankment drain outlet trench as shown on sheet 3 and as directed by the engineer. An auxiliary embankment drain outlet shall be provided at the immediate location where there is located an open crack greater than 3/8 inch at depths below 3 feet from the top of the dam.

2. Details of the embankment drain and embankment drain outlet trenches are shown on sheet 3.

3. Waste disposal area for the embankment drain trench shall be on the upstream slope of the dam between Sta 1+00 and Sta. 66+00 as shown on sheet 3.

4. TP #1 and TP #2 are locations of samples taken for drain filter design.

Completed Aug. 9, 1982

AS-BUILT

PLAN & PROFILE

WHITE TANKS NO. 4. DRAIN

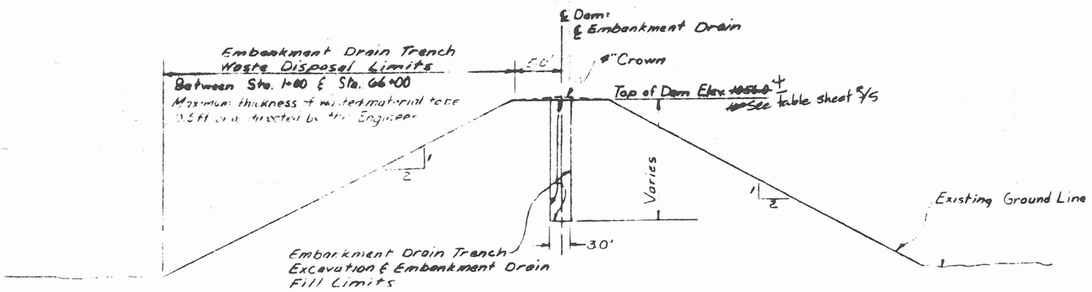
WHITE TANKS W.P.P

MARICOPA COUNTY, ARIZONA

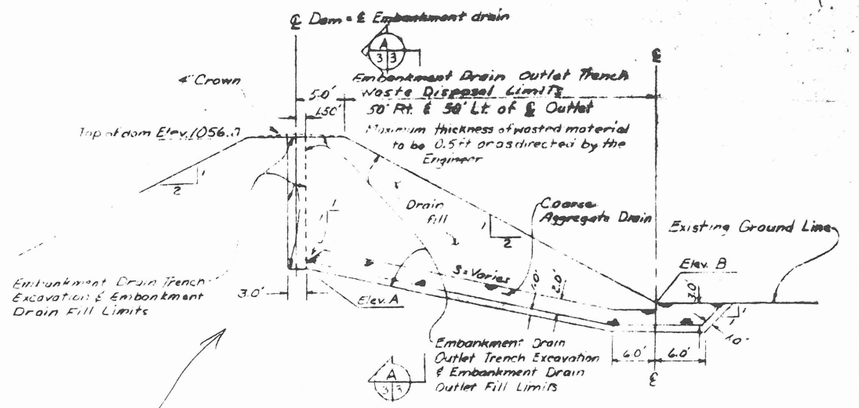
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | | | |
|---|---|---|---|
| Designed | WEP | Date 4-81 | Approved by |
| Drawn | WEP | 4-81 | Title |
| Traced | WEP | 4-81 | Title |
| Checked | RJH | 4-81 | Sheet No. 2 of 35 — Drawing No. 79022-AZ-Ph |

Form SCS-378 (November 1955)




TYPICAL CROSS SECTION
EMBANKMENT DRAIN




PROFILE ON ℄ OF EMBANKMENT
DRAIN OUTLET

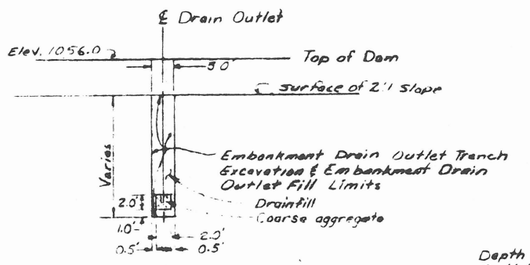
see sheet 4/5 for Detailed As Built information

see sheet 4/5 for As-Built outlets

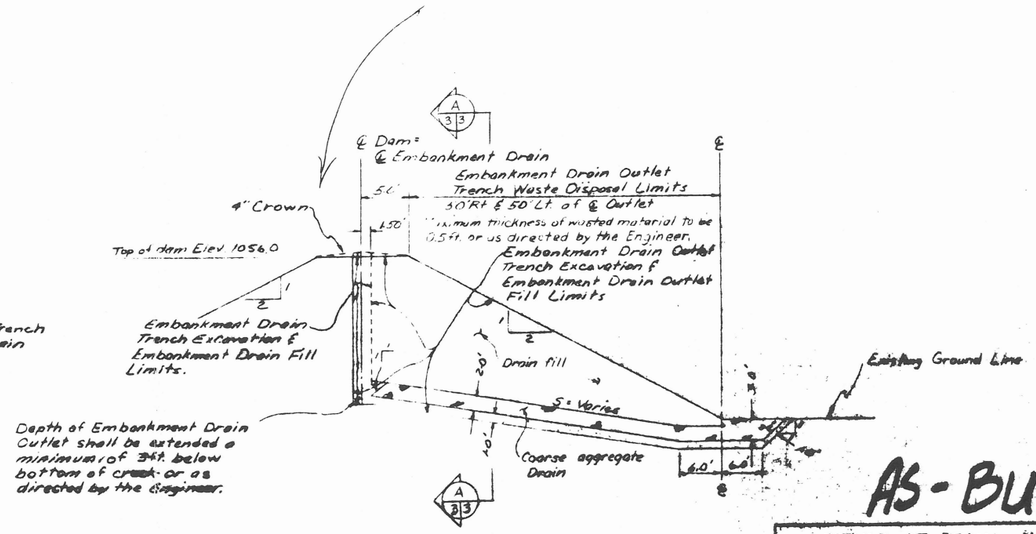
SCHEDULE OF EMBANKMENT DRAIN OUTLETS

| Station | Elevation A | Elevation B |
|---|---|---|
| 11+00 | 1043.5 ± | 1041.2 ± |
| 21+00 | 1043.5 ± | 1038.0 ± |
| 31+00 | 1043.5 ± | 1037.2 ± |
| 41+00 | 1043.5 ± | 1039.0 ± |
| 51+00 | 1043.5 ± | 1040.4 ± |
| 61+00 | 1046.8 ± | 1044.5 ± |

Note: Auxiliary Embankment Drain Outlet Elevations shall be as directed by the Engineer.




SECTION A 3 3
TYPICAL CROSS SECTION
EMBANKMENT DRAIN OUTLET




PROFILE ON ℄ OF AUXILIARY
EMBANKMENT DRAIN OUTLET

(Not to scale)

Completed Aug. 9, 1982

AS-BUILT

DETAILS OF DRAIN AND OUTLET
WHITE TANKS NO. 4 DRAIN
WHITE TANKS W.P.P.
MARICOPA COUNTY, ARIZONA

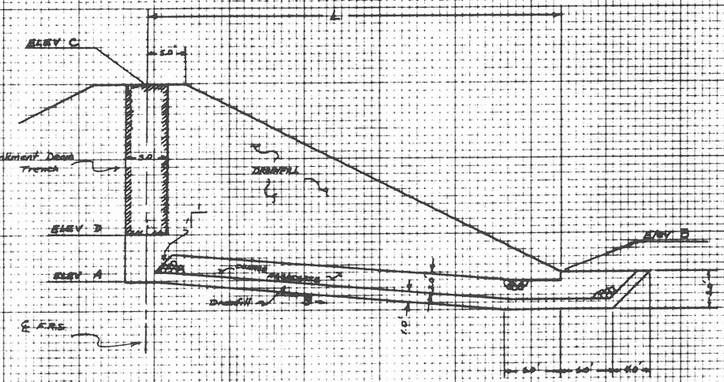
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | | | |
|---|---|---|---|
| Designed WEP | Date 6-81 | Approved by | |
| Drawn JAH | 6-81 | Title | |
| Traced | | Title | |
| Checked AUM | 6-81 | Sheet No. 3 of 26 | Drawing No. 79022-AZ-PA |

| STA | ELEV A | ELEV B | ELEV C | ELEV D | L | S |
|---|---|---|---|---|---|---|
| 4+02 | 1044.4 | [illegible] | 1055.3 | 1043.6 | 37.0 | 0.1277 |
| 6+14 | 42.8 | [illegible] | 55.8 | 43.3 | 33.5 | .1154 |
| 11+50 | 38.2 | [illegible] | 55.5 | 38.2 | 40.0 | .0640 |
| 16+50 | 37.0 | [illegible] | 55.5 | 37.1 | 43.0 | .0761 |
| 20+08 | 37.0 | [illegible] | 55.8 | 37.0 | 47.0 | .0835 |
| 20+86 | 36.9 | [illegible] | 55.6 | 37.5 | 45.0 | .0933 |
| 23+69 | 39.6 | [illegible] | 55.6 | 39.0 | 48.0 | .0791 |
| 24+67 | 38.1 | [illegible] | 55.6 | 35.2 | 46.5 | .0897 |
| 27+72 | 33.5 | 36.0 | 55.5 | 40.5 | 46.5 | .0897 |
| 28+71 | 1035.5 | 1036.0 | 1055.6 | 1044.5 | 46.5 | 0.0897 |
| 31+36 | 35.3 | 36.3 | 55.8 | 35.5 | 44.5 | .0811 |
| 33+13 | 37.0 | 38.1 | 55.8 | 36.7 | 44.0 | .0795 |
| 33+71 | 37.2 | 38.2 | 55.6 | 37.5 | 40.5 | .0909 |
| 34+92 | 37.2 | 38.7 | 56.7 | 37.2 | 43.0 | .0704 |
| 37+56 | 37.4 | 38.4 | 55.9 | 37.4 | 45.0 | .0800 |
| 38+06 | 37.4 | 38.4 | 55.7 | 37.5 | 45.0 | .0800 |
| 38+67 | 37.5 | 38.2 | 56.0 | 37.8 | 44.0 | .0904 |
| 39+31 | 37.5 | 38.2 | 56.0 | 38.1 | 44.0 | .0904 |
| 40+83 | 37.7 | 38.2 | 55.9 | 37.9 | 45.0 | .0933 |
| 42+69 | 1037.5 | 1038.8 | 1055.7 | 1037.5 | 44.0 | 0.0822 |
| 46+31 | 37.5 | 38.5 | 55.2 | 37.6 | 43.0 | .0845 |
| 47+69 | 37.5 | 38.9 | 55.4 | 37.5 | 42.0 | .0754 |
| 48+69 | 37.8 | 39.4 | 55.8 | 37.9 | 41.5 | .0706 |
| 49+57 | 38.0 | 39.5 | 55.7 | 38.2 | 42.5 | .0714 |
| 50+57 | 38.0 | 39.5 | 55.9 | 38.0 | 43.0 | .0704 |
| 51+20 | 37.6 | 39.9 | 56.1 | 37.6 | 41.0 | .0507 |
| 52+27 | 38.0 | 40.3 | 56.3 | 37.9 | 42.0 | .0493 |
| 54+40 | 39.7 | 40.7 | 56.4 | 39.4 | 39.0 | .0952 |
| 58+06 | 43.0 | 43.1 | 56.7 | 43.8 | 34.0 | .1472 |
| 58+71 | 1042.0 | 1042.5 | 1055.6 | 1043.7 | 34.0 | 0.1298 |
| 59+28 | 42.8 | 42.8 | 55.7 | 43.2 | 39.0 | .1175 |
| 60+57 | 42.5 | 43.0 | 55.6 | 43.5 | 32.0 | .1020 |
| 63+26 | 45.6 | 46.8 | 55.8 | 46.2 | 28.0 | .1463 |

EMBANKMENT DRAIN OUTLETS

WHITE TANKS NO. 4




TYPICAL DRAIN OUTLET

AS-BUILT

Completed Aug. 9, 1982

DETAILS OF DRAIN AND OUTLETS
WHITE TANKS NO. 4 REPAIR
WHITE TANKS W.R.R.
MARICOPA COUNTY, ARIZONA

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | Date | |
|---|---|---|
| Designed | | Approved by |
| Drawn DC | 5/84 | Title |
| Traced | | Title |
| Checked | | Sheet No. 4 of 5 — Drawing No. 79021-A2-Ph |

SCS-ENG-316 REV 8 75

## As-Built Elevations of Top of Dam and Trench Bottom

| Assumed Station | Corrected Station (Ed Trench) | Top of Dam Elevation | Bottom of Trench Elevation |
|---|---|---|---|
| 0+00 | 0+00 | 1094.43 | — |
| 0+85 | 0+85 | 9454 | Trench |
| 1+00 | 1+00 | 55.2 | 1094.28 |
| 1+50 | 1+50 | — | 38.11 |
| 2+00 | 2+00 | 55.4 | 38.18 |
| 2+50 | 2+50 | — | 38.19 |
| 3+00 | 3+00 | 55.4 | 38.18 |
| 3+50 | 3+50 | — | 38.16 |
| 4+00 | 4+00 | 55.3 | 38.16 |
| 4+50 | 4+50 | — | 38.18 |
| 5+00 | 5+00 | 55.5 | 38.16 |
| 5+50 | 5+50 | — | 38.19 |
| 6+00 | 6+00 | 55.6 | 38.19 |
| 6+50 | 6+50 | — | 38.17 |
| 7+00 | 7+00 | 55.4 | — |
| 7+47 | 7+47 | — | 38.19 |
| | Trench Deepens | | |
| 7+50 | 7+50 | — | 41.16 |
| 8+00 | 8+00 | 55.5 | 41.14 |
| 8+50 | 8+50 | — | 41.1 |
| 9+00 | 9+00 | 55.7 | 40.16 |
| 9+50 | 9+50 | — | 40.1 |
| 10+00 | 10+00 | 55.4 | 39.12 |
| 10+50 | 10+50 | — | 38.9 |
| 11+00 | 11+00 | 55.5 | 38.16 |
| 11+50 | 11+50 | — | 38.12 |
| 12+00 | 12+00 | 55.4 | 38.12 |
| 12+50 | 12+50 | — | 38.12 |
| 13+00 | 13+00 | 55.7 | 38.14 |
| 14+00 | 14+00 | 55.6 | 38.13 |
| 14+50 | 14+50 | — | 38.1 |
| 15+00 | 15+00 | 55.6 | 37.13 |
| 15+50 | 15+50 | 55.7 | 37.18 |
| 16+00 | 16+00 | 55.6 | 37.13 |
| 16+50 | 16+50 | 55.5 | 37.1 |
| 17+00 | 17+00 | 55.6 | 37.17 |
| 17+50 | 17+50 | 55.8 | 37.21 |
| | Trench Shallows | | |
| 18+00 | 18+00 | 56.0 | 43.19 |
| 18+50 | 18+50 | 55.9 | 43.17 |
| 19+00 | 19+00 | 55.8 | 43.14 |
| 19+50 | 19+50 | 55.6 | — |
| 20+00 | 20+07 | 55.5 | 43.7 |
| 20+50 | 20+19 | 55.8 | 43.6 |
| 21+00 | 21+02 | 55.8 | 43.21 |
| 21+50 | 21+19 | 55.9 | 43.7 |
| 21+95 | 21+64 | — | 43.21 |
| | Trench Deepens | | |
| 22+00 | 21+69 | 55.7 | 38.14 |
| 22+03 | 21+72 | — | 38.18 |
| 22+25 | 21+94 | — | 38.18 |
| 22+50 | 22+19 | 55.7 | 38.1 |
| 23+00 | 22+69 | 55.7 | 34.1 |
| 23+50 | 23+19 | 55.6 | 35.18 |
| 24+00 | 23+69 | 55.6 | 28.8 |
| 24+50 | 24+19 | 55.6 | 35.9 |
| 25+00 | 24+68.4 | 55.5 | 35.2 |
| 25+50 | 25+18.4 | 55.6 | 35.2 |
| 26+00 | 25+68.4 | 55.5 | 38.1 |
| 26+50 | 26+18.4 | 55.5 | 38.3 |
| 26+56 | 26+29.4 | — | 36.5 |
| 26+65 | 26+38.4 | — | 40.0 |
| 27+00 | 26+68.4 | — | 40.2 |
| 27+50 | 27+18.4 | 55.1 | 40.6 |
| 28+00 | 27+68.4 | 55.5 | 40.2 |
| 28+50 | 28+18.4 | 55.6 | 40.8 |
| 29+00 | 28+68.4 | 55.6 | 40.8 |
| 29+50 | 29+18.4 | 55.9 | 40.7 |
| 30+00 | 29+68.4 | — | 40.7 |
| | Trench Deepens | | |
| 29+72 | 29+58.4 | — | 38.18 |
| 30+00 | 29+70.5 | 55.6 | 38.19 |
| 30+50 | 30+20.5 | 55.6 | 38.19 |
| 31+00 | 30+70.5 | 55.6 | 28.15 |
| 31+50 | 31+20.5 | 55.6 | 36.5 |
| 32+00 | 31+70.5 | 55.6 | 36.0 |
| 32+50 | 32+20.5 | 55.7 | 36.5 |
| 33+04 | 32+78.5 | 55.6 | 36.7 |
| 33+50 | 33+26.5 | 55.6 | 37.8 |
| 34+00 | 33+76.5 | 55.6 | 37.8 |

| Assumed Station | Corrected Station (Ed Trench) | Top of Dam Elevation | Bottom of Trench Elevation |
|---|---|---|---|
| 34+50 | 34+26.5 | 1055.6 | 1039.6 |
| 35+00 | 34+69.5 | 55.6 | 37.2 |
| 35+50 | 35+19.5 | 55.6 | 37.6 |
| 36+00 | 35+69.5 | 56.0 | 37.8 |
| 36+50 | 36+19.5 | 55.9 | 37.81 |
| 36+75 | 36+44.5 | — | 38.0 |
| 37+00 | 36+69.5 | 55.7 | 37.5 |
| 37+50 | 37+19.5 | 55.5 | 37.5 |
| 37+50 | 37+19.5 | 56.0 | 38.1 |
| 38+00 | 37+69.5 | 56.1 | 38.0 |
| 38+50 | 38+19.5 | 55.7 | 37.9 |
| 39+00 | 38+69.5 | 55.7 | 37.8 |
| 39+50 | 39+19.5 | 56.0 | 38.1 |
| 40+00 | 39+69.5 | 56.1 | 37.9 |
| 40+50 | 40+19.5 | 55.7 | 37.6 |
| 41+00 | 40+69.5 | 55.6 | 37.9 |
| 41+50 | 41+19.5 | 55.7 | 37.6 |
| 42+00 | 41+69.5 | 55.7 | 37.5 |
| 42+50 | 42+19.5 | 55.7 | 37.6 |
| 43+00 | 42+69.5 | 55.7 | 37.5 |
| 43+50 | 43+19.5 | 55.1 | 37.7 |
| 44+00 | 43+69.5 | 55.6 | 38.0 |
| 44+50 | 44+19.5 | 55.4 | 38.0 |
| 45+00 | 44+69.5 | 55.5 | 38.2 |
| 45+50 | 45+19.5 | 55.4 | 38.4 |
| 46+00 | 45+69.5 | 55.4 | 38.0 |
| 46+50 | 46+19.5 | 55.2 | 37.6 |
| 47+00 | 46+69.5 | 55.2 | 38.0 |
| 47+50 | 47+19.5 | 55.4 | 38.4 |
| 47+60 | 47+29.5 | — | 37.4 |
| 48+00 | 47+69.5 | 55.4 | 37.6 |
| 48+50 | 48+19.5 | 55.5 | 37.7 |
| 49+00 | 48+69.5 | 55.6 | 37.9 |
| 49+50 | 49+19.5 | 55.6 | 38.1 |
| 50+00 | 49+69.5 | 55.7 | 38.2 |
| 50+50 | 50+19.5 | 55.7 | 38.2 |
| 51+00 | 50+69.5 | 55.7 | 37.9 |
| 51+50 | 51+19.5 | 56.1 | 37.6 |
| 52+00 | 51+69.5 | 56.3 | 38.4 |
| 52+50 | 52+19.5 | 56.4 | 37.7 |
| 53+00 | 52+69.5 | 56.4 | 38.4 |
| 53+50 | 53+19.5 | 56.4 | 38.0 |
| 54+00 | 53+69.5 | 56.3 | 37.0 |
| 54+50 | 54+19.5 | 56.4 | 38.4 |
| 55+00 | 54+69.5 | 56.4 | 38.7 |
| 55+50 | 55+19.5 | 56.45 | 38.3 |
| 56+00 | 55+69.5 | 56.4 | 38.1 |
| 56+50 | 56+19.5 | 56.4 | 38.16 |
| 57+00 | 56+69.5 | 56.1 | 38.6 |
| 57+50 | 57+19.5 | 56.1 | 38.16 |
| 58+00 | 57+69.5 | 56.2 | 41.7 |
| | Trench Shallows | | |
| 58+35 | 58+03.5 | — | 43.22 |
| 58+50 | 58+19.5 | 55.9 | 44.16 |
| 59+00 | 58+67.5 | — | 43.17 |
| 59+50 | 59+17.5 | 55.9 | 43.12 |
| 60+00 | 59+67.7 | 56.0 | 42.16 |
| 60+50 | 60+17.7 | 55.7 | 43.18 |
| 61+00 | 60+67.7 | 55.7 | 44.3 |
| 61+50 | 61+17.7 | 55.7 | 44.16 |
| 62+00 | 61+67.7 | 55.5 | 45.4 |
| 62+50 | 62+17.7 | 55.4 | 45.9 |
| 63+00 | 62+67.7 | 55.8 | 46.18 |
| 63+50 | 63+17.7 | 55.4 | 46.4 |
| 64+00 | 63+67.7 | 55.9 | 46.7 |
| 64+50 | 64+17.7 | 56.2 | 46.18 |
| 65+00 | 64+67.7 | — | 47.10 |
| | Bot. Trench | | |

## Stations and Elevations of Monuments with Corrected Stations

| Monument Number | Assumed Station | Corrected Station | Elevation |
|---|---|---|---|
| 18 | 1+00 | 1+00 | 1044.634 |
| 19 | 10+00 | 9+97.8 | 1041.989 |
| 20 | 15+00 | 14+97.8 | 1039.093 |
| Curve in dam - measured 44.20 from 20 to 21 | | | |
| 21 | 20+00 | 19+82.0 | 1036.498 |
| 22 | 25+00 | 24+66.2 | 1035.576 |
| 23 | 30+00 | 29+70.6 | 1036.1063 |
| 24 | 35+00 | 34+69.8 | 1038.623 |
| 25 | 40+00 | 39+69.2 | 1038.594 |
| 26 | 45+00 | 44+68.1 | 1038.628 |
| 27 | 50+00 | 49+68.7 | 1039.628 |
| 28 | 55+00 | 54+68.8 | 1040.1060 |
| 29 | 60+00 | 59+67.8 | 1043.1355 |
| 30 | 65+00 | 64+66.4 | 1047.1657 |

Benchmark: Cap #432 (CF-467)

USGS Elevation = 1130.465

Ref. USGS Brass Cap Stamped

F 1965

1994

Vertical Survey of Monuments by

Charles T. Eng 9/25/87

Note: For an explanation of Assumed and Corrected Stations, see White Tanks No. 3 and No. 4 Repair Notes on sheet 3/5 of White Tanks No. 3 Repair As Built Plans.

AS-BUILT

Resurveyed Aug. 9, 1988

AS-BUILT TOP OF DAM, TRENCH, MONUMENT INFORMATION

WHITE TANKS No. 4 REPAIR

WHITE TANKS W.P.P.

Maricopa County, Az.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | Date | | |
|---|---|---|---|
| Designed | | Approved by | |
| Drawn | TLNC 5/88 | Title | |
| Traced | | Title | |
| Checked | | Sheet No 5 of 5 | Drawing No. 79021-Az-Ph |

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