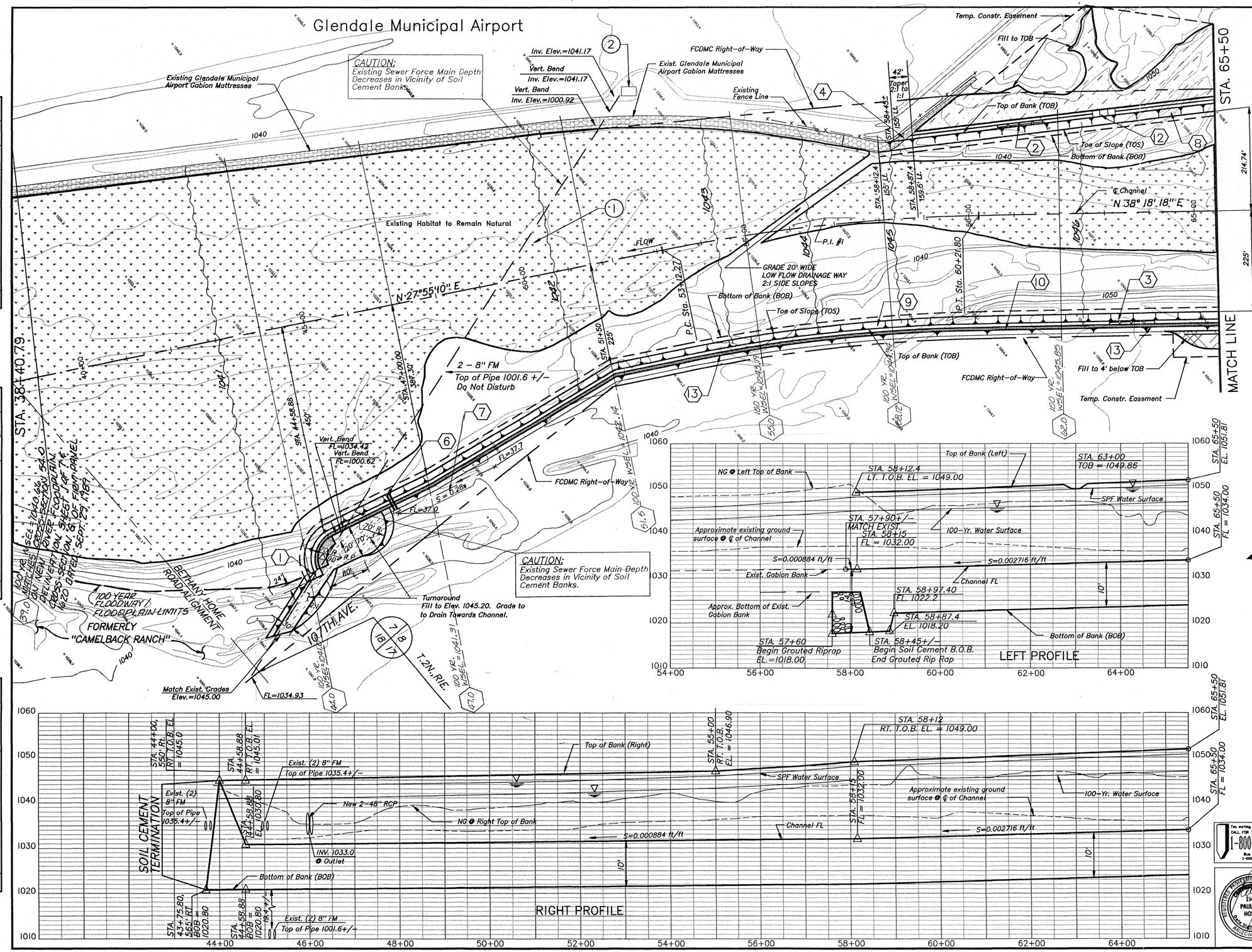


CONSTRUCTION NOTES

1. Construct Soil Cement Termination at 1:1 down to BOB. Use Caution in Vicinity of Sewer Forcemain
2. STA. 58+20 to STA. 65+50 (LT) Install 730 L.F. Safety Rail per detail, sheet 4.
3. STA. 44+00, 550'(RT.) to STA. 65+50 (RT) Install 2,199 L.F. Safety Rail, per detail sheet 4.
4. Grout Gabions and provide soil cement connection per detail sheet 9.
6. STA. 46+00 (RT) Install 32 L.F. 2 – 48" RCP with drop inlet hdwl. per Side Drainage inlet detail sheet 5. Drop inlet crest = 1037.0 Drop inlet inv = 1035.0 Outlet with flapgate per Flapgate Details, sheet 5. Outlet inv. = 1033.0
7. STA. 48+50 400' to STA. 46+15 465' (RT) Grade Side Drainage Collection Swale per detail sheet 8.
8. STA. 58+45 +/– to STA. 65+50 (LT) Place Soil Cement Banks (6,044 c.y.) per Typical Bank Section sheet 3.
9. STA. 44+60 RT to STA. 65+50 (RT) Place Soil Cement Banks (17,968 c.y.) per Typical Bank Section sheet 3.
10. STA. 44+00, 550' RT. to STA. 65+50 (RT) Place 7"x4" thick ABC Maintenance Road (1,915 s.y.) per Typical Bank Section, sheet 3.
12. Sta. 63+00 Lt. Construct overbank flow depression per detail sheet 2A.
13. STA. 54+00 (RT) STA. 64+00 (RT) Construct Animal Ramp Per Animal Ramp Detail, Sheet 2A.

EXISTING UTILITIES

1. 2 – 8" Sewer Forcemain
2. Sewage Lift Station

CAUTION: Existing Sewer Force Main Depth Decreases in Vicinity of Soil Cement Banks.

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

SEP 28 1992

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 42+75 TO STA. 65+50

BETHANY HOME ROAD TO OLIVE AVENUE

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT Blue Stake Center 1-800-782-5348

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 19690 PAUL W.R. NOSKIN Date Signed 9/27/91 ARIZONA, U.S.A.

RECOMMENDED BY:

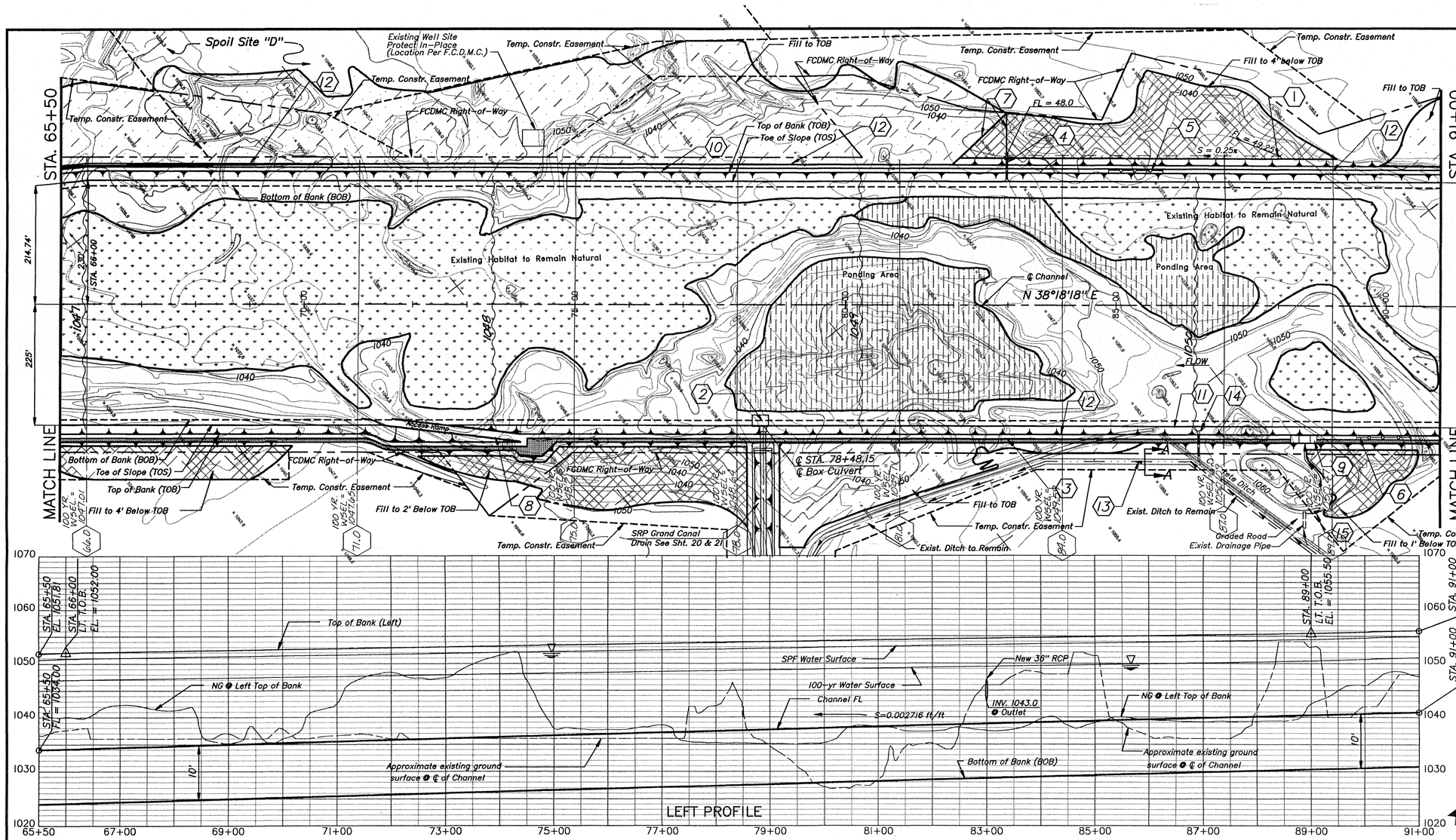
APPROVED BY: DATE:

CHIEF ENGINEER & GENERAL MANAGER:

SHEET ~~11 of 48~~

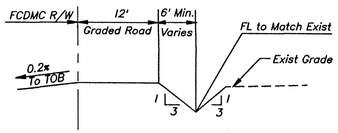
DESIGNED SW/PWRH	DRAWN JBR	CHECKED PWRH	CVL# 1090-06
DATE 12/91	DATE 12/91	DATE 1/92	

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.



CONSTRUCTION NOTES

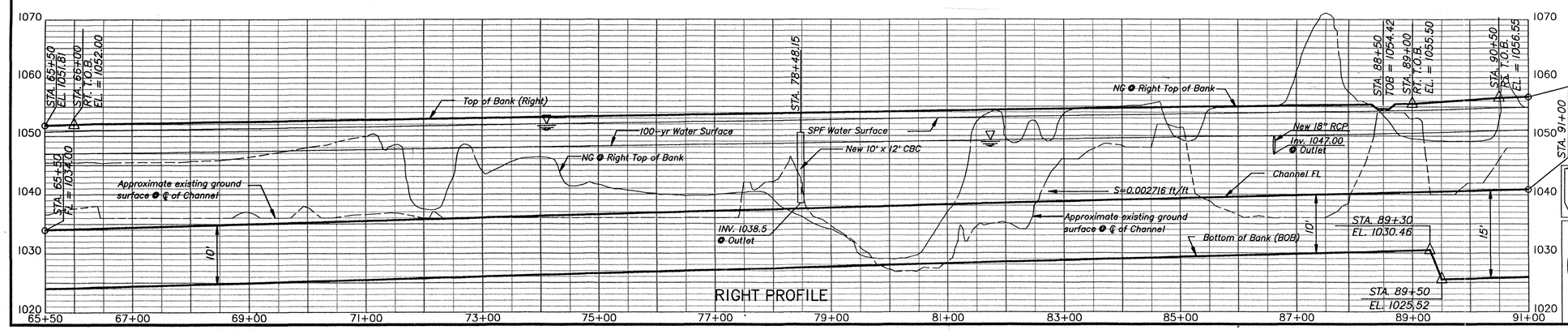
1. STA. 83+00 280'(LT) to STA. 88+00 280' (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
2. STA. 78+48.15 (RT)
   Construct Concrete Box Culvert and drainage channel per Grand Drain Outlet Details, sheet 20 & 21.
3. STA. 65+50 to 91+00 (RT)
   Place 7"x4" thick ABC Maintenance Road (2,105 s.y.) per Typical Bank Section Sheet 3.
4. STA. 83+00 (LT)
   Install 32 L.F. 36" RCP with drop inlet hdwl. per side drainage inlet details Sheet 5.
   Drop inlet crest = 1048.0
   Drop inlet inv. = 1046.0
   Outlet with Flapgate Per Flapgate Detail, Sheet 5.
   Outlet Inv. = 1043.0
5. STA. 65+50 to 91+00 (LT)
   Install 2,550 L.F. Safety Rail per Detail, sheet 4.
6. STA. 65+50 to 91+00 (RT)
   Install 2,550 L.F. Safety Rail per Detail, sheet 4.
7. STA. 82+00 to 83+00(LT)
   Fill limits vary from Elevation TOB to 4' below TOB.
8. STA. 74+00 (RT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
9. STA. 88+50 (RT)
   Construct Overbank Flow Depression per Detail sheet 2A.
10. STA. 65+50 (LT) to STA. 91+00 (LT)
    Place Soil Cement Banks (21,290 c.y.)
    Per Typical Bank Section sheet 3.
11. STA. 65+50 (RT) to STA. 91+00 (RT)
    Place Soil Cement Banks (21,384 c.y.)
    Per Typical Bank Section sheet 3.
12. STA. 69+00 (LT)
    STA. 79+00 (LT)
    STA. 84+00 (RT)
    STA. 89+00 (LT)
    Construct Animal Ramp Per Animal Ramp Details, sheet 2A.
13. STA. 83+50 (RT) to Sta. 86+50 (RT)
    Grade Ditch Per Section A–A, this sheet.
    Match Exist. Fl, Grade to Drain.
14. STA. 86+62 (RT)
    Install 64 L.F. 18" R.C.P.
    Inlet Inv. = Match Exist. Conc. Ditch & Inv.
    Outlet Inv.=1047.00 Remove & Dispose of excess Conc. Ditch Hand form mortar around pipe inlet.
15. Grade Swale to drain from exist. Tailwater Ditch at T.C.E. to Sta. 88+50 Overbank Flow Depression.



SECTION A–A
NTS

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.



FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

SEP 28 1992

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT! Blue Stake Center 1-800-782-5348

REGISTERED PROFESSIONAL ENGINEER (CIVIL) PAUL W. HOSKIN No. 17108 Date Signed 3/7/92 ARIZONA, U.S.A.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 65+50 to 91+00

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:

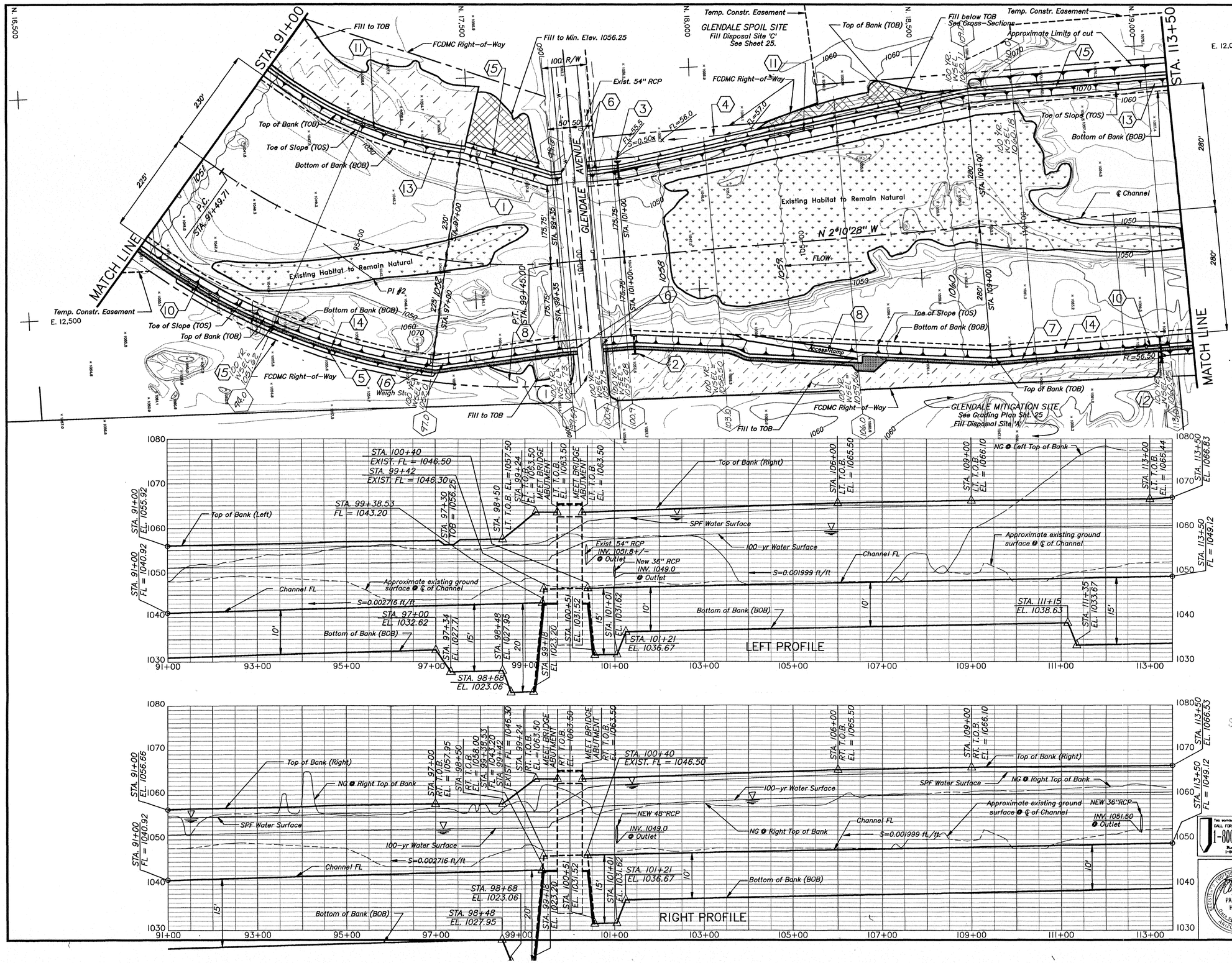
APPROVED BY: DATE:

CHIEF ENGINEER & GENERAL MANAGER:

SHEET 12 OF 48

DESIGNED SWV/PWRH	DRAWN JBR	CHECKED PWRH	CVL# 1090-06
DATE 12/91	DATE 12/91	DATE 3/92	

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.



CONSTRUCTION NOTES

1. STA. 97+30 (LT.).
   Construct overbank flow depression per detail sheet 2A.
2. STA. 101+00 (RT)
   Install 38 L.F. 48" RCP with drop inlet hdwl. per side drainage inlet details, Sheet 5.
   Drop inlet crest = 1053.50
   Drop inlet inv. = 1051.00
   Outlet with flapgate per flapgate detail Sheet 5.
   Outlet inv. = 1049.0
3. STA. 101+00 (LT)
   Install 36 L.F. 36" RCP with drop inlet hdwl. per side drainage inlet details Sheet 5.
   Drop inlet crest = 1055.5
   Drop inlet inv. = 1054.0
   Outlet with flapgate per flapgate detail Sheet 5.
   Outlet inv. = 1049.0
4. STA. 101+00 230' to STA. 104+15 265' (LT.).
   Grade Side Drainage Collection Swale per detail sheet 8.
5. STA. 91+00 to 99+70 (RT)
   Place 7' x 4" thick ABC Maintenance Road (810 s.y.) per Typical Bank Section sheet 3.
6. STA. 100+00
   Construct, soil cement banks, per Glendale Bridge Tie-in Details sheet 22.
7. STA. 100+30 (RT) to 113+50 (RT)
   Place 7' wide 4" thick ABC Maintenance Road (1,165 s.y.) per Typical Bank Section sheet 3.
8. STA. 106+00 (RT) (STA. A)
   Construct channel access per Access Ramp Detail, sheet 10.
10. STA. 91+00 to STA. 99+73 (RT)
    STA. 100+27 to STA. 113+50 (RT)
    Install 2,360 L.F. Safety Rail, per detail sheet 4.
11. STA. 91+00 to 99+73 (LT)
    STA. 100+27 to 113+50 (LT)
    Install 2,035 L.F. Safety Rail, per detail sheet 4.
12. Sta. 112+80 (RT)
    Install 42 L.F. 36" R.C.P. with Drop Inlet Headwall Per Side Drainage Inlet Details, Sheet 5.
    Drop Inlet Crest = 1056.50
    Drop inlet inv. = 1054.50
    Outlet with Flapgate , per flapgate detail Sheet 5.
    Outlet Inv. = 1051.50
13. STA. 91+00 to South Bridge Abutment (LT.).
    North Bridge Abutment to STA. 113+50 (LT.).
    Place Soil Cement Banks (17,853 C.Y.) per typical bank section, sheet 3.
14. STA. 91+00 to South Bridge Abutment (RT.)
    North Bridge Abutment to STA. 113+50 (RT.).
    Place Soil Cement Banks(19,235 C.Y.) per typical bank section, sheet 3.
15. STA. 94+00 (RT)
    STA. 97+50 (LT)
    STA. 111+00 (LT)
    Construct Animal Ramp Per Animal Ramp Detail, Sheet 2A.
16. Remove Exist. Weigh Station and all Concrete Structures.

EXISTING UTILITIES

1. See Glendale Bridge Tie-in Details for Utilities, sheet 22.

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

SEP 28 1992

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT Box Stake Center 1-800-782-5348

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 91+00 to STA. 113+50

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:

APPROVED BY: DATE:

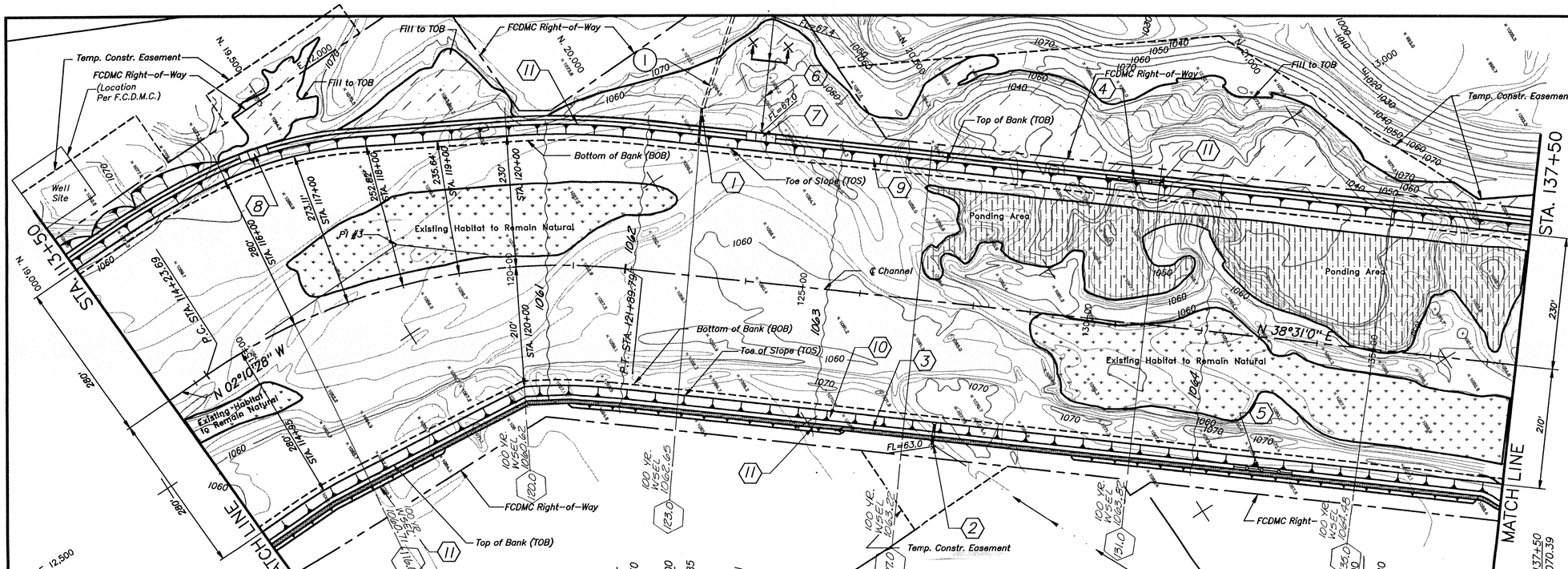
CHIEF ENGINEER & GENERAL MANAGER:

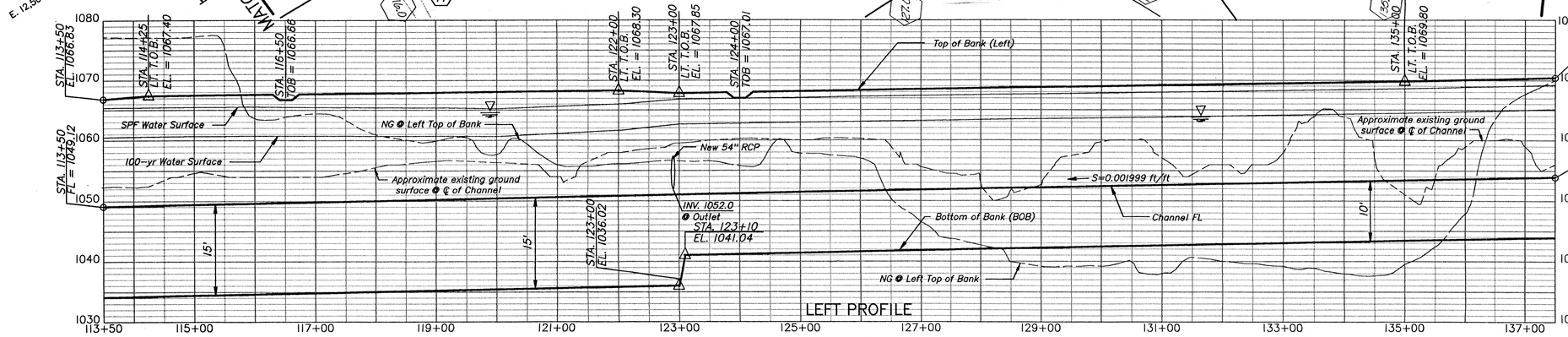
SHEET ~~13~~ OF ~~48~~

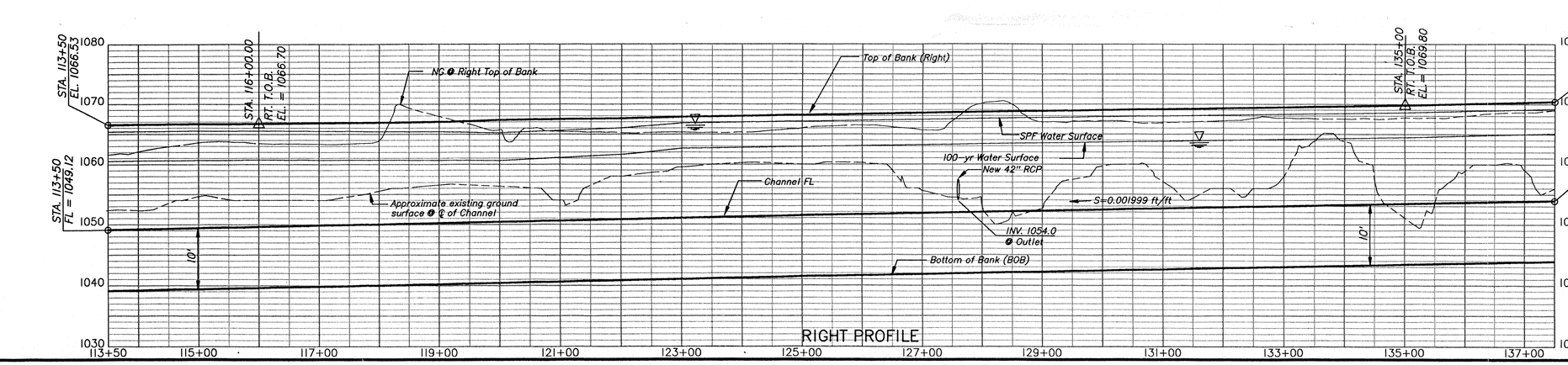
DESIGNED SWV/PWRH	DRAWN JEA	CHECKED PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 3/92	

COE & VAN LOO CONSULTING ENGINEERS, INC.

SHEET 3 OF 9





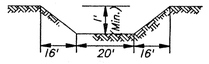


CONSTRUCTION NOTES

1. STA. 122+90 (LT)
   Remove exist. hdwl. and trash rack and connect 55 L.F. 54" RCP with pipe collar to exist. 54" RCP, Outlet per Side Drainage Inlet details Sheet 5.
   Match exist. inv.
   Outlet inv. = 1052.0
2. STA. 127+60 (RT)
   Install 32 L.F. 42" RCP with drop inlet hdwl. per Side Drainage Inlet Details sheet 5.
   Drop inlet crest = 1063.0
   Drop inlet inv. = 1061.0
   Outlet with flapgate per Flapgate Details, Sheet 5.
   Outlet inv. = 1054.0
3. STA. 113+50 to 137+50 (RT)
   Place 7" x 4" thick ABC Maintenance Road (1,755 s.y.) per Typical Bank Section Sheet 3.
4. STA. 113+50 to STA. 137+50 (LT)
   Install 2,612 L.F. Safety Rail, per detail sheet 4.
5. STA. 113+50 to STA. 137+50 (RT)
   Install 2,235 L.F. Safety Rail, per detail sheet 4.
6. STA. 124+00 265' (LT.) to 465' (LT.)
   Construct offside Collection Channel per section X-X, Sheet 14.
7. STA. 124+00 (LT.)
   Construct Bank depression per detail sheet 2A.
8. STA. 116+50 (LT.)
   Construct Bank depression per detail sheet 2A.
9. STA. 113+50 to STA. 137+50 (LT.).
   Place Soil Cement Banks (23,934 C.Y.) per typical bank section, sheet 3.
10. STA. 113+50 to STA. 137+50 (RT.).
    Place Soil Cement Banks(18,881 C.Y.) per typical bank section, sheet 3.
11. STA. 116+00 (RT)
    STA. 121+00 (LT)
    STA. 125+50 (RT)
    STA. 131+00 (LT)
    Construct Animal Ramp Per Animal Ramp Detail, Sheet 2A.

EXISTING UTLITIES

1. 54" RCP Storm Drain



SECTION X-X
NTS

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown June, 1991

STA. 113+50 to STA. 120+00±
Topographic Mapping by Aerial Mapping Co. Flown March, 1988.

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.
100 0 100 200

VERT. SCALE: 1 IN. = 10 FT.
10 0 10 20

SEP 28 1992

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT Blue Stake Center 1-800-782-5348

REGISTERED PROFESSIONAL ENGINEER (CIVIL) PAUL WR HOSKIN Date Signed 3/92 ARIZONA, U.S.A.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION
PLAN / PROFILE STA. 113+50 to STA. 137+50
BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:
APPROVED BY: DATE:
CHIEF ENGINEER & GENERAL MANAGER:

SHEET 14 of 48

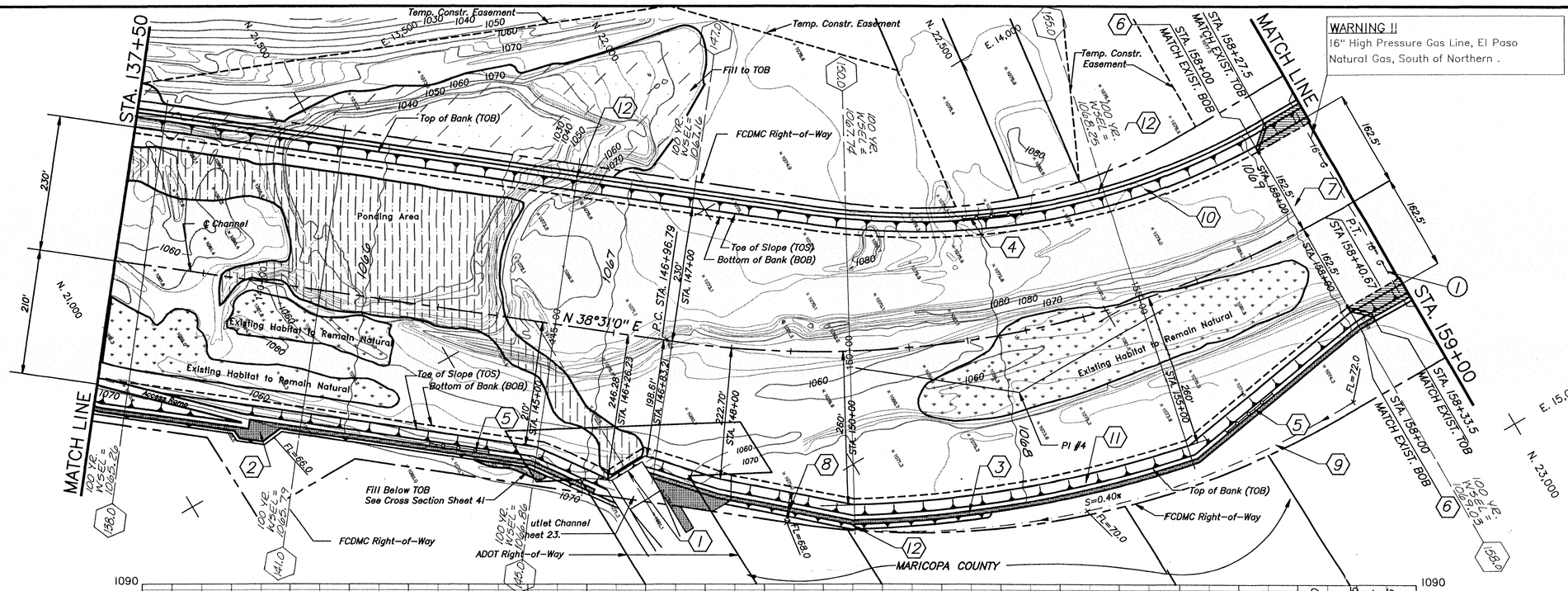
DESIGNED	DRAWN	CHECKED	
SWJ/PWRH	JEA	PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 3/92	

COE & VAN LOO CONSULTING ENGINEERS, INC.

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

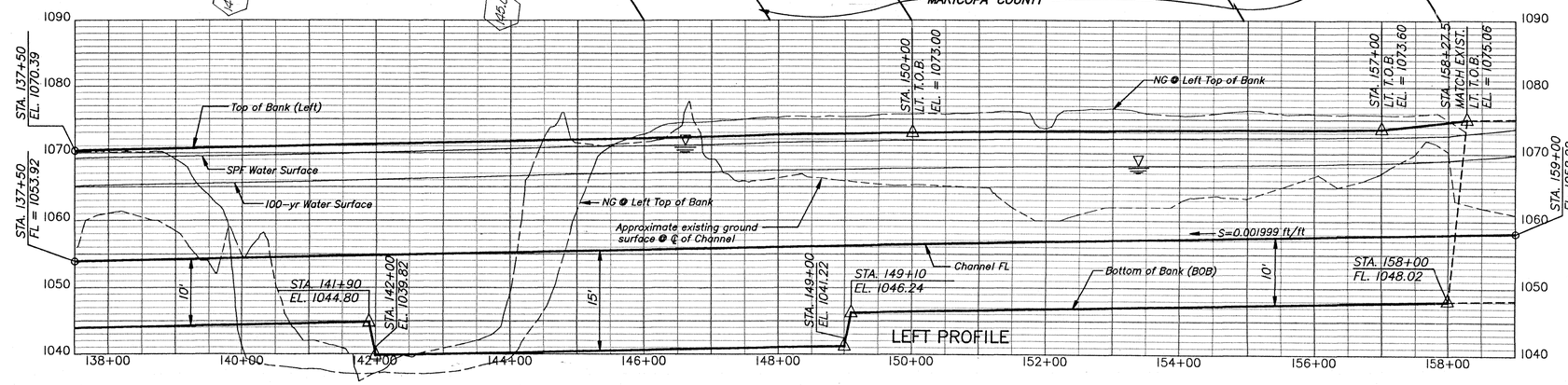


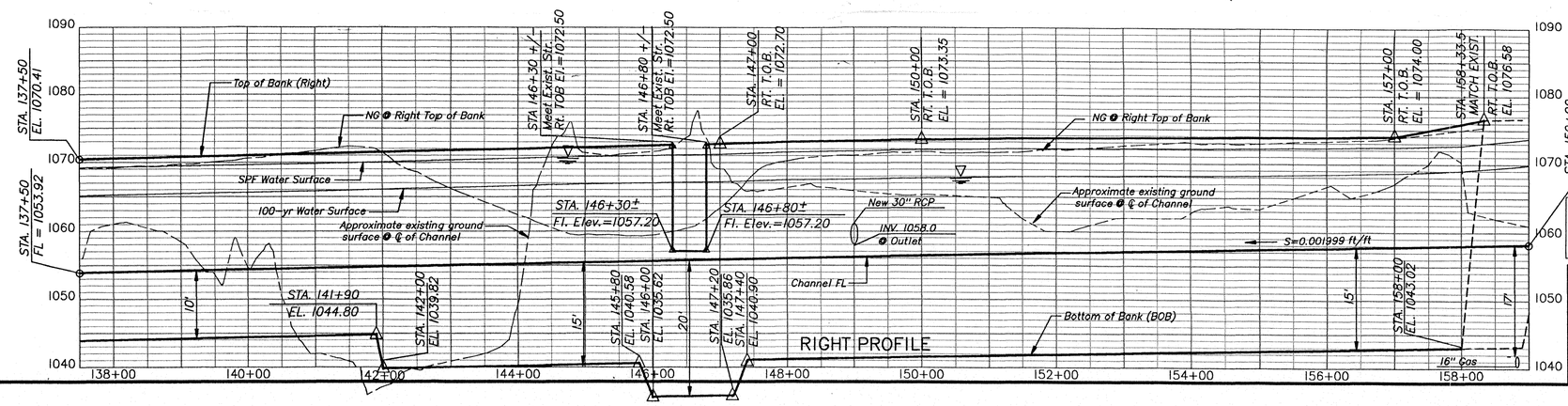
CONSTRUCTION NOTES

1. STA. 144+65 (RT)
   Construct ADOT Channel Outlet per Northern Avenue ADOT Channel Detail, sheet 23.
2. STA. 140+00 (RT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
3. STA. 137+50 to 146+20 (RT)
   STA. 147+55 to STA. 158+33.5 (RT)
   Place 7"x4" thick ABC Maintenance Road (1682 s.y.) per Typical Bank Section Sheet 3.
4. STA. 137+50 to STA. 159+00.00 (LT)
   Install 2015 L.F. Safety Rail, per detail sheet 4.
5. STA. 137+50 to STA. 145+90 (RT)
   STA. 147+88 to STA. 159+00.00 (RT)
   Install 2144 L.F. Safety Rail, per detail sheet 4.
6. STA. 158+00 to 161+10
   Soil Cement, Bank, Channel Excavation per Northern Avenue Bridge Construction Plans by BRW, Inc..
7. Grade out Channel invert between exist soil cement Banks.
8. STA. 149+00 (RT)
   Install 34 L.F. 30" RCP with drop inlet hdwl.
   Per Side Drainage Inlet Detail Sheet 5.
   Drop inlet crest = 1068.0
   Drop inlet inv. = 1066.5
   Outlet with flagate per flapgate details.
   Outlet inv. = 1058.0
9. STA. 149+00 290'(RT.) to STA. 157+40 295' (RT.)
   Grade side drainage Collection Swale per detail sheet 8.
   Per side drainage inlet detail sheet 5.
10. STA. 137+50 to STA. 158+27.5 (LT)
    Place Soil Cement Banks (20,593 c.y.)
    Per Typical Bank Section Sheet 3.
11. STA. 137+50 RT. to STA. 155+33.5 (RT)
    Place Soil Cement Banks (21,789 c.y.)
    Per Typical Bank Section Sheet 3.
12. STA. 145+00 (LT)
    STA. 150+00 (RT)
    STA. 155+00 (LT)
    Construct Animal Ramp Per Animal Ramp Detail, Sheet 2A.

EXISTING UTILITIES

1. 16" High Pressure Gas 100' S of Northern Ave. ℄ (El Paso Natural Gas)





CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown June 1991

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

SEP 28 1992

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT Blue Stake Center 1-800-782-5348

REGISTERED PROFESSIONAL ENGINEER (CIVIL) PAUL W. F. HOFKIN 19457 Date Signed 9/17/92 VIRGINIA, U.S.A.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

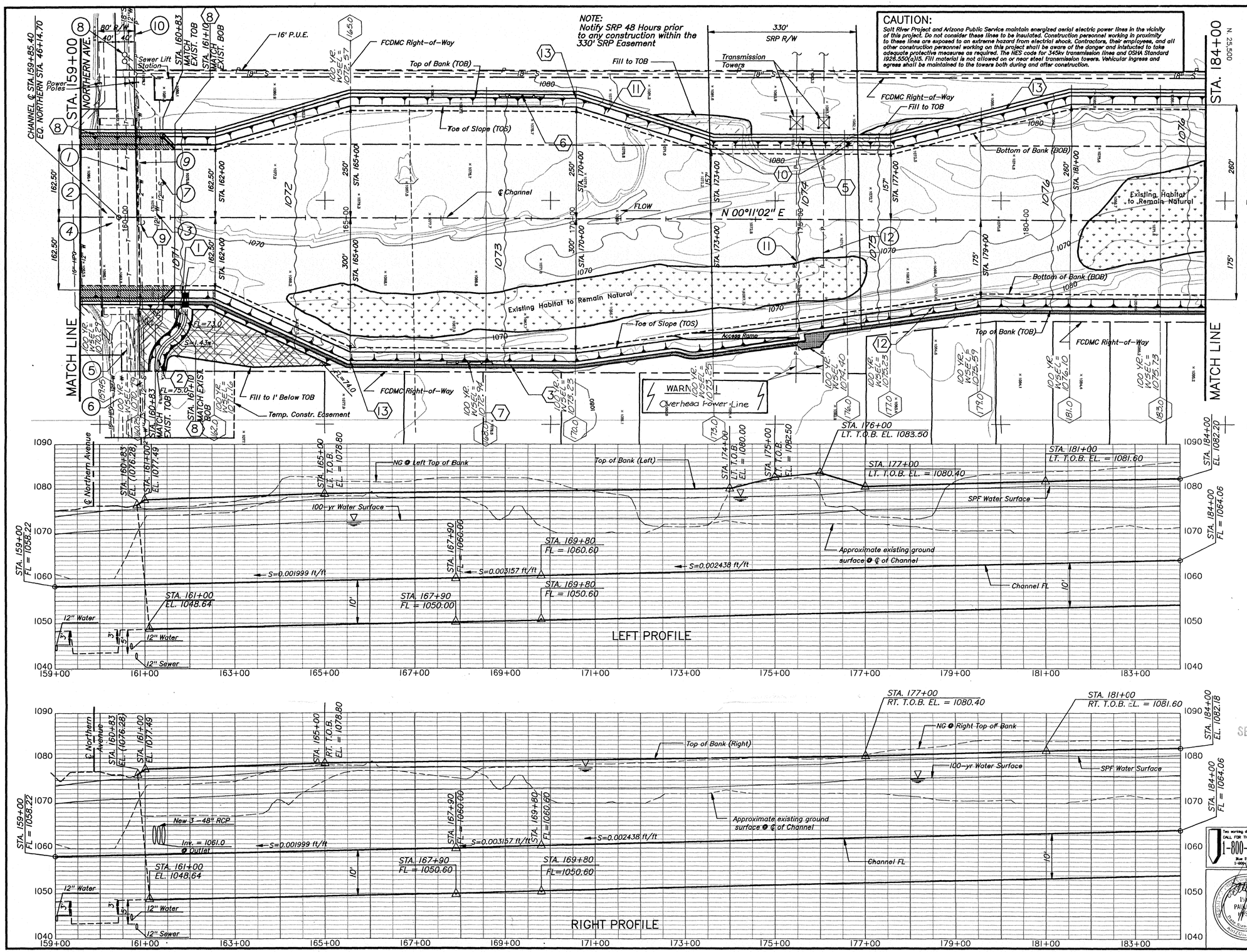
NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 137+50 to STA. 159+00

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:			SHEET 15 OF 48
APPROVED BY:		DATE:	
CHIEF ENGINEER & GENERAL MANAGER:			
DESIGNED SWV/PWRH	DRAWN JEA	CHECKED PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 3/92	

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.



CONSTRUCTION NOTES

1. STA. 161+30 (RT)
   Install 34 L.F. 3 – 48" RCP total length of pipe = 102 L.F. with drop inlet hdwl. per Channel Outlet detail, sheet 6.
   Drop inlet crest = 1071.0
   Drop inlet inv. = 1069.0
   Outlet without flapgate per uncontrolled outlet detail
   Outlet pipe inv. = 1061.0
2. STA. 160+70 330'(RT.) to STA. 161+30 215' (RT.)
   Grade Collection Channel per detail sheet 6.
   Match Exist. Grades @ FCDMC R/W.
3. STA. 160+83 to 184+00 (RT)
   Place 7' x 4" thick ABC Maintenance Road (1,956 s.y.) per Typical Bank Section, sheet 3.
4. STA. 175+00 (LT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
5. Refer to SRP & APS Utility and Access Road Detail, sheet 8.
6. STA. 159+00 to STA. 159+45 (LT)
   STA. 160+24 to STA. 184+00 (LT)
   Install 2,459 L.F. Safety Rail, per detail sheet 4.
7. STA. 159+00 to STA. 159+45 (RT.)
   STA. 160+24 to STA. 184+00 (RT.)
   Install 2,464 L.F. Safety Rail, per detail sheet 4.
8. STA. 158+00 to 161+10
   Match Exist. Soil Cement Bank. Channel Excavation per Northern Avenue Bridge Construction plans by BRW, Inc..
9. Grade out channel invert between exist. Soil cement banks.
10. STA. 172+80; STA. 174+25; STA. 176+15 (LT. & RT.).
    Construct non-contiguous Safety Rail Gape (3) per detail sheet 8.
11. STA. 160+83 to STA. 184+00 (LT.).
    Place Soil Cement Banks (21,136 C.Y.) per typical bank section, sheet 3.
12. STA. 160+83 to STA. 184+00 (RT.).
    Place Soil Cement Banks(21,122 C.Y.) per typical bank section, sheet 3.
13. STA. 165+00 (RT)
    STA. 170+00 (LT)
    STA. 179+50 (LT)
    Construct Animal Ramp Per Animal Ramp Detail, Sheet 2A.

EXISTING UTILITIES

NOTES: All utilities within the Northern Avenue Right-of-Way have been, relocated by others.

1. Tele Cable, 20' N of ℄
2. 16" High Pressure Gas, 100' (S) of Northern ℄ (El Paso Natural Gas)
3. 12" Water 85'(N) of Northern ℄ (City Of Peoria).
4. 12" ACP Water, 85' (S) of Northern ℄ (City of Glendale)
5. 6" Water Main (Does not cross river) Stubbed, 12' N of ℄
6. 10" Sewer, C.O. Peoria, 45' N of ℄
7. 12" Sewer 95' (N) of Northern ℄ (City Of Peoria)
8. 60" I.D. Sewer Manhole & 18" P.V.C. 20' N of ℄ (City Of Peoria)
9. 2" Abandoned Water, 49' N of ℄
10. Overhead Power Lines – A.P.S.
11. SRP Transmission Lines (Overhead) – 230kv
12. APS Transmission Lines (Overhead) – 230kv

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

SEP 28 1992

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT Blue Stake Center 1-800/782-5348

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 159+00 to STA. 184+00

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:

APPROVED BY: DATE:

CHIEF ENGINEER & GENERAL MANAGER:

SHEET ~~16~~ of ~~18~~

DESIGNED	DRAWN	CHECKED	
SWV/PWRH	JEA	PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 3/92	

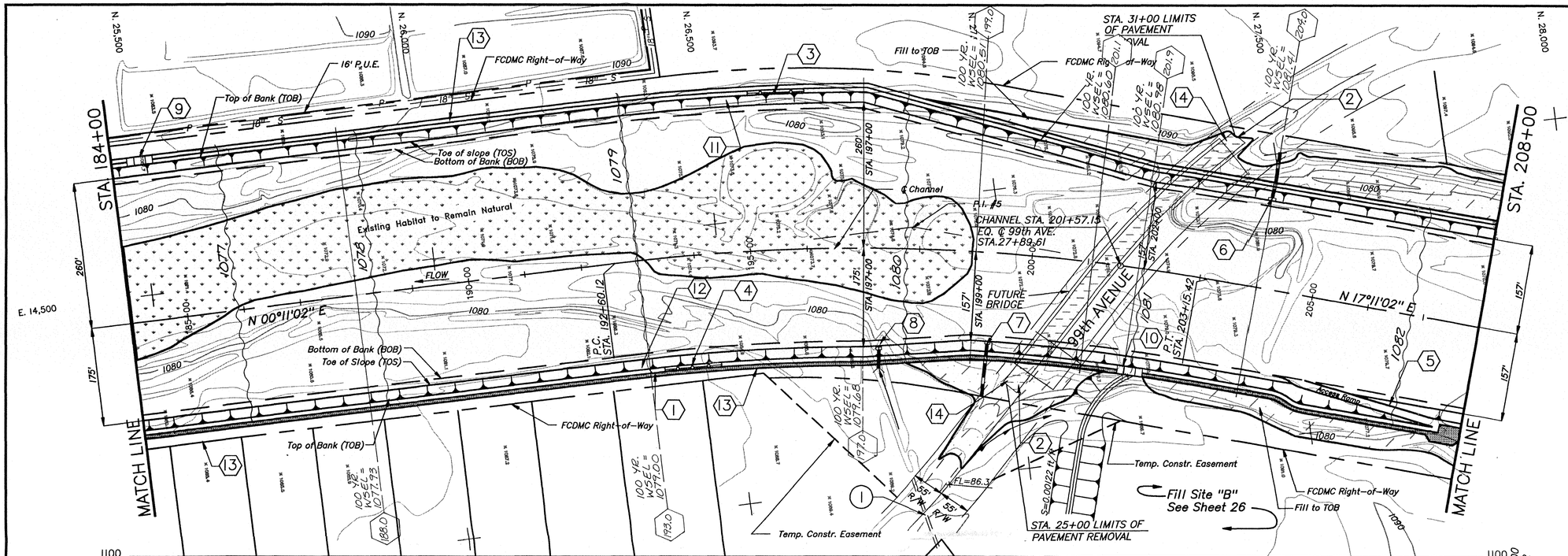
CVL COE & VAN LOO CONSULTING ENGINEERS, INC.

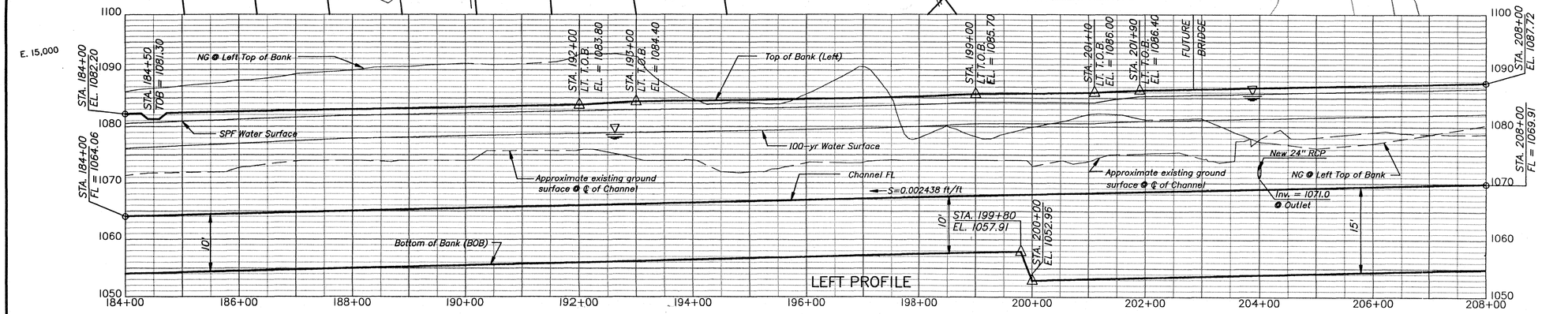
SHEET 6 OF 9

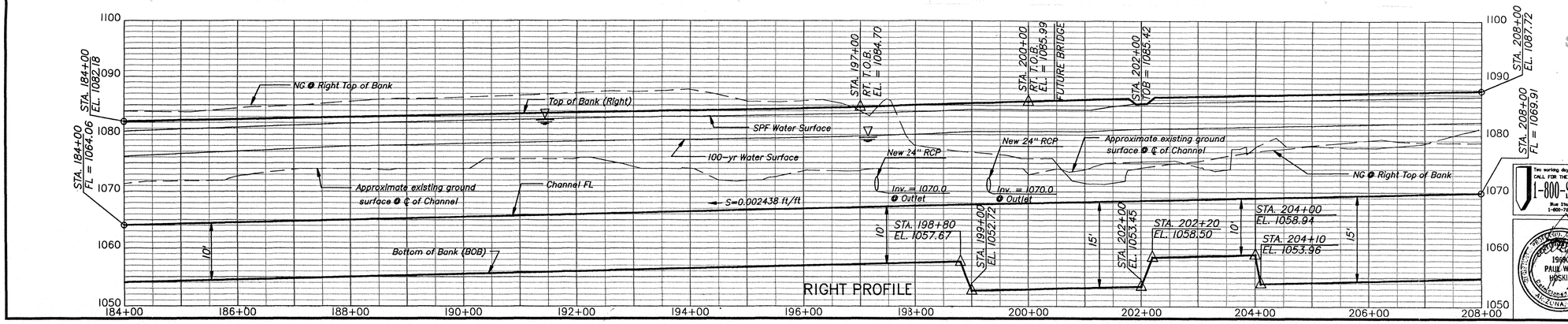
REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE







CONSTRUCTION NOTES

1. STA. 184+00 to 208+00 (RT) Place 7" x 4" thick ABC Maintenance Road (1,945 s.y.) per Typical Bank Section Sheet 3.
2. 99th AVE. STA. 25+00 to STA. 31+00 pavement (1,867 s.y.) Refer to Sheets SP1–SP8 For Pavement Removal outside the limits (Seperate Bid Item).
3. STA. 184+00 to STA. 208+00 (LT) Install 2,480 L.F. Safety Rail, per detail sheet 4.
4. STA. 184+00 to 208+00 (RT) Install 2,345 L.F. Safety Rail, per detail sheet 4.
5. STA. 207+50 (RT) (STA. A) Construct Channel Access Ramp per Access Ramp Details, sheet 10.
6. STA. 204+00 (LT.) Install 82 L.F. 24" RCP, plug inlet per M.A.G. detail 427 Inlet inv. = 1085.4 Outlet without flapgate per uncontrolled outlet per detail sheet 5. Outlet inv. = 1071.0
7. STA. 199+30 (RT) Install 90 L.F. 24" RCP, plug inlet per M.A.G. detail 427. Inlet inv. = 1080.0 Outlet without flapgate per uncontrolled outlet detail sheet 5 . Outlet inv. = 1070.0
8. STA. 197+30 (RT.). Install 32 L.F. 24" RCP with drop inlet hdwl. per side drainage inlet details sheet 5. Drop inlet creet =1081.50 Drop inlet inv. =1080.00 Outlet with Flapgate per Flapgate Details. Outlet inv. =1070.00
9. STA. 184+50 (LT.) Constuct overbank flow depression per detail sheet 2A.
10. STA. 202+00 (RT.). Constuct overbank flow depression per detail sheet 2A.
11. STA. 184+00 to STA. 208+00 (LT.). Place Soil Cement Banks (23,158 C.Y.) per typical bank section, sheet 3.
12. STA. 184+00 to STA. 208+00 (RT.). Place Soil Cement Banks(21,611 C.Y.) per typical bank section, sheet 3.
13. STA. 185+00 (RT) STA. 190+00 (LT) STA. 195+00 (RT) STA. 200+00 (LT) Construct Animal Ramp Per Animal Ramp Detail, Sheet 2A.
14. All fill within the 99th Avenue Right–Of–Way Limits To Be Placed as "Embankment Fill". See Sheets SP1–SP8.

EXISTING UTILITIES

1. 24" irrigation pipe

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

SEP 28 1992

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT! Blue Stake Center 1-800-782-5348

REGISTERED PROFESSIONAL ENGINEER 19990 PAUL W.R. HOSKIN Arizona U.S.A.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 184+00 to STA. 208+00

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:			SHEET
APPROVED BY:	DATE:		17 of 48
CHIEF ENGINEER & GENERAL MANAGER:			
DESIGNED SWV/PWRH	DRAWN JEA	CHECKED PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 3/92	

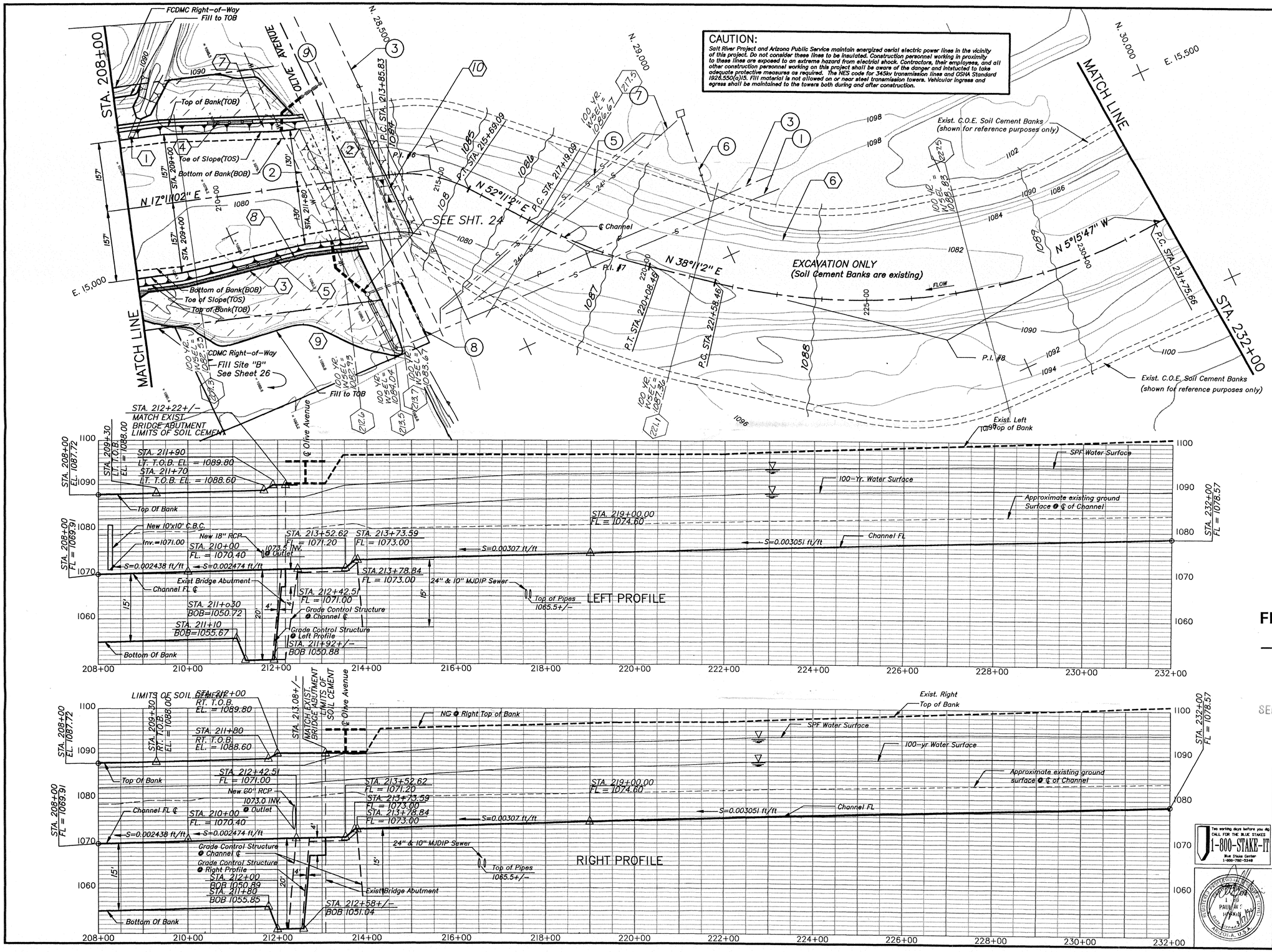
COE & VAN LOO CONSULTING ENGINEERS, INC.

SHEET 7 OF 9

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE



CAUTION:

Salt River Project and Arizona Public Service maintain energized aerial electric power lines in the vicinity of this project. Do not consider these lines to be insulated. Construction personnel working in proximity to these lines are exposed to an extreme hazard from electrical shock. Contractors, their employees, and all other construction personnel working on this project shall be aware of the danger and intstucted to take adequate protective measures as required. The NES code for 345kv transmission lines and OSHA Standard 1926.550(a)15. Fill material is not allowed on or near steel tranmission towers. Vehicular ingress and egress shall be maintained to the towers both during and after construction.

CONSTRUCTION NOTES

1. STA. 208+25 (LT)
   Construct Concrete Box Culvert w/ spillway per Sun City Channel Outlet Detail, sheet 9.
2. STA. 212+60
   Construct Bridge Protection, storm Drainage Utilities, Access Roads per Olive Avenue Bridge Protection Details, sheet 24.
3. STA. 208+00 to 213+18 (RT)
   Place 7'x4" thick ABC Maintenance Road (398.s.y.) per Typical Bank Section Sheet 3.
4. STA. 208+00 to STA. 212+25 (LT)
   Install 420 L.F. Safety Rail, per detail sheet 4.
5. STA. 208+00 to STA. 213+00 (RT)
   Install 510 L.F. Safety Rail, per detail sheet 4.
6. North of Olive Ave., Construction entails earthwork excavation only. Soil Cement Bank shown is existing.
7. STA. 208+00 to STA. 212+18 (LT)
   Place Soil Cement Banks (4347 c.y.) per Typical Bank Section Sheet 3.
8. STA. 208+00 to STA. 213+08 (RT)
   Place Soil Cement Banks (5050 c.y.) per Typical Bank Section Sheet 3.
9. Compaction on fill site "B" to be to 95% see sheet 43.
10. ℄ STA. 213+52±, 44.32'(RT.).
    Construct Low Flow Notch Per Detail, Sheet 24.

EXISTING UTILITIES

1. 14" ACP FM Sewer (abandoned in place)
2. 16" Water, 100' S. of ℄ (City of Peoria) to be relocated see sheet 24.
3. Overhead Power Lines
5. 10" and 24" MJDIP Sewer have been relocated.
6. Electric Line
7. 24" Dip Sewer (abandoned in place)
8. 54" RGRCP, proposed by MCHD
9. 18" RGRCP

CONTOUR INTERVAL: 2 FEET

North of Olive Avenue
Topographic Mapping by Kenney
Aerial Mapping, Inc.
Flown August, 1991

N

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.
100 0 100 200

SEP 28 1992

VERT. SCALE: 1 IN. = 10 FT.
10 0 10 20

Two working days before you dig CALL FOR THE BLUE STAKES
1-800-STAKE-IT
Blue Stake Center 1-602-782-5348

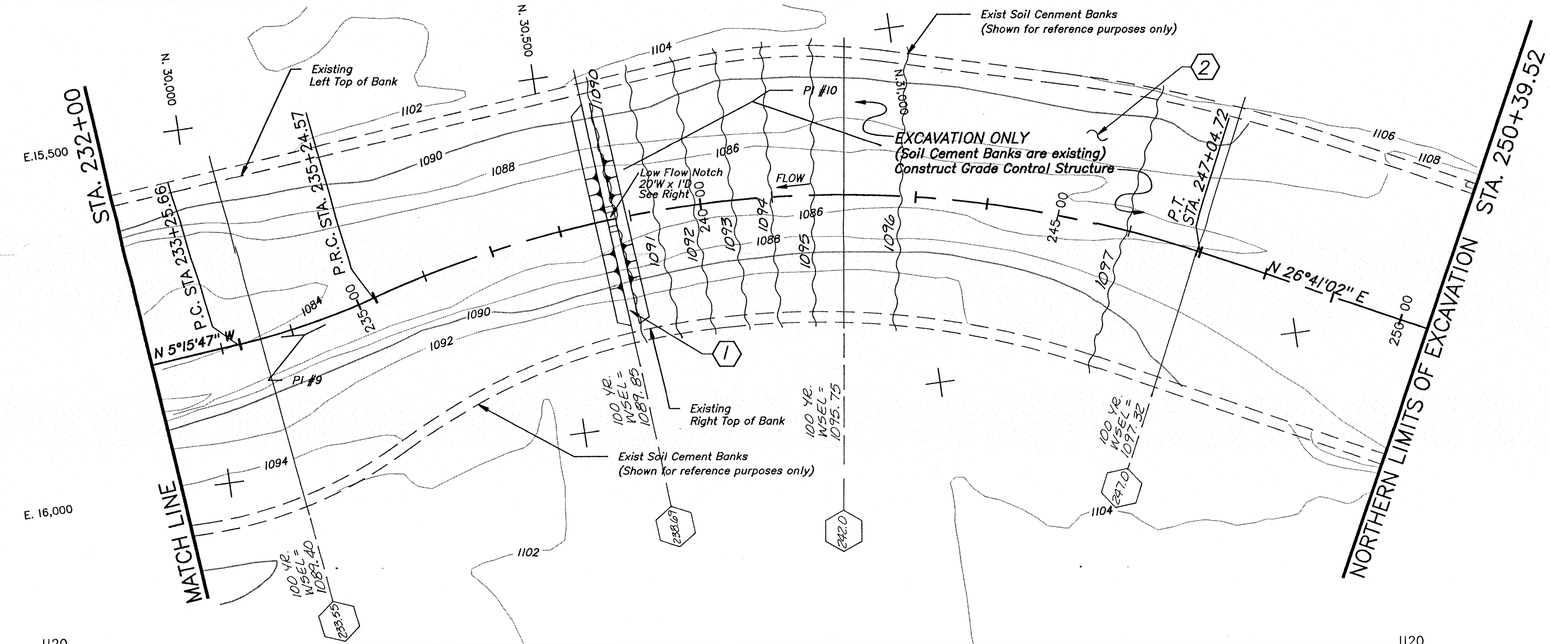
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
PAUL W. HOOKER
No. 13400
Date Signature Expires
ARIZONA, U.S.A.

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION
PLAN / PROFILE STA. 208+00 to STA. 232+00
BETHANY HOME ROAD TO OLIVE AVENUE

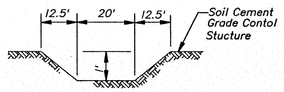
RECOMMENDED BY:			SHEET ~~18 of 48~~
APPROVED BY:	DATE:		
CHIEF ENGINEER & GENERAL MANAGER:			
DESIGNED SWV/PWRH	DRAWN JBR	CHECKED PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 3/92	

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.

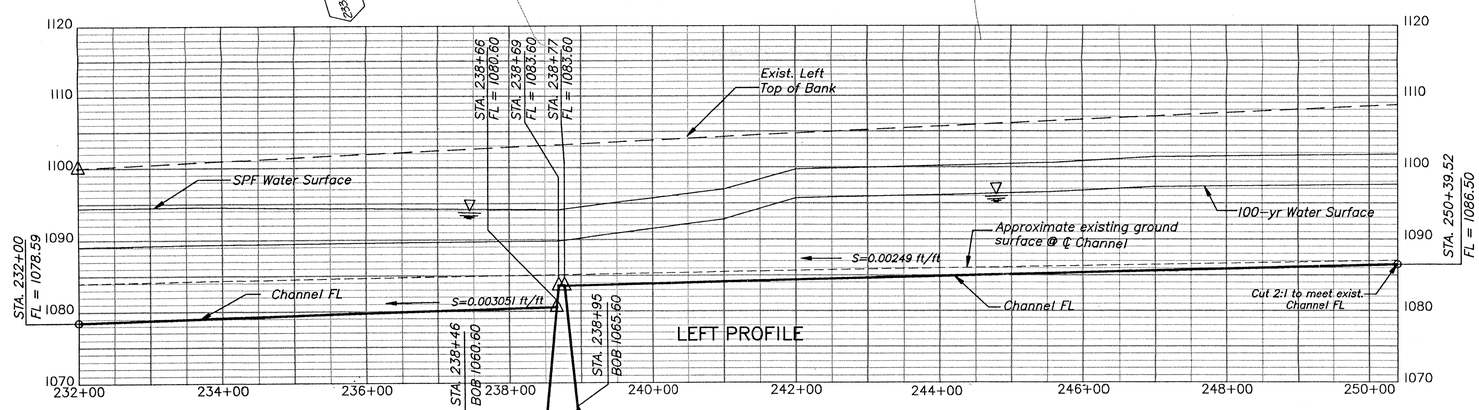


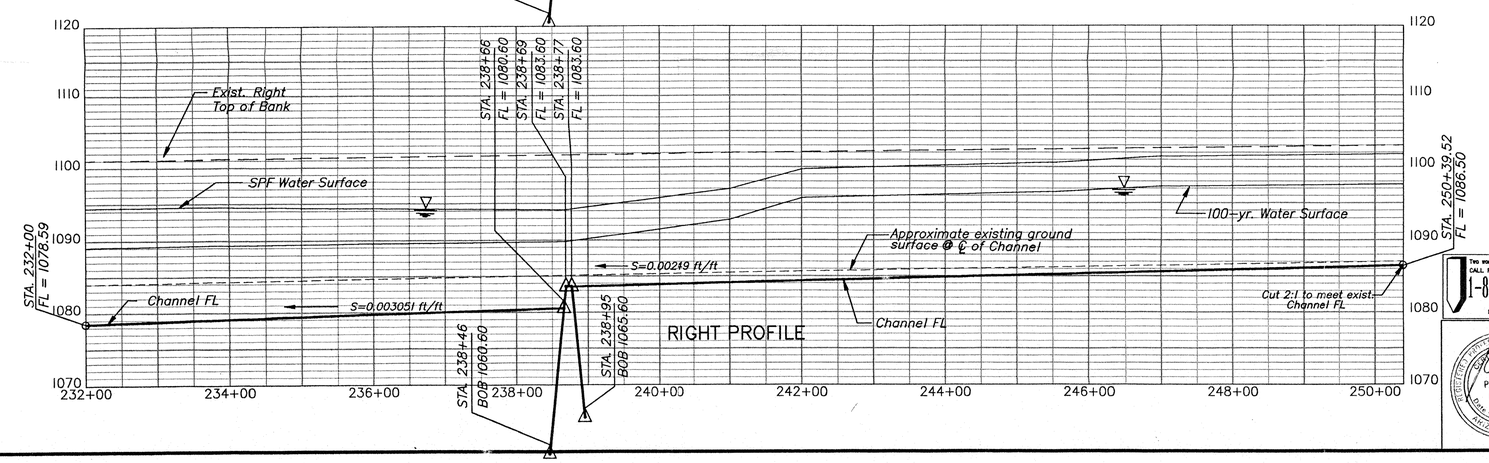
CONSTRUCTION NOTES

1. STA. 238+69
   Construct Grade Control Structure per detail, sheet 8.
2. North of Olive Ave., Construction entails earthwork excavation only. Soil Cement Banks are existing.



LOW FLOW NOTCH
NTS





CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Kenney Aerial Mapping, Inc. Flown August, 1991

FLOODPLAIN DELINEATION FOR C.L.O.M.R.

HORIZ. SCALE: 1 IN. = 100 FT.
100 0 100 200

SEP 28 1992

VERT. SCALE: 1 IN. = 10 FT.
10 0 10 20

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

Two working days before you dig CALL FOR THE BLUE STAKES 1-800-STAKE-IT
Blue Stake Center 1-800-782-5348

PAUL W. HOWARD
Date Signed 9/28/92
ARIZONA, U.S.A.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER CHANNELIZATION

PLAN / PROFILE STA. 232+00 to 250+39.52

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:
APPROVED BY: DATE:
CHIEF ENGINEER & GENERAL MANAGER:

SHEET 10 OF 48

DESIGNED SWV/PWRH	DRAWN JEA	CHECKED PWRH	CVL# 1090-06
DATE 1/92	DATE 1/92	DATE 1/92	

COE & VAN LOO CONSULTING ENGINEERS, INC.