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

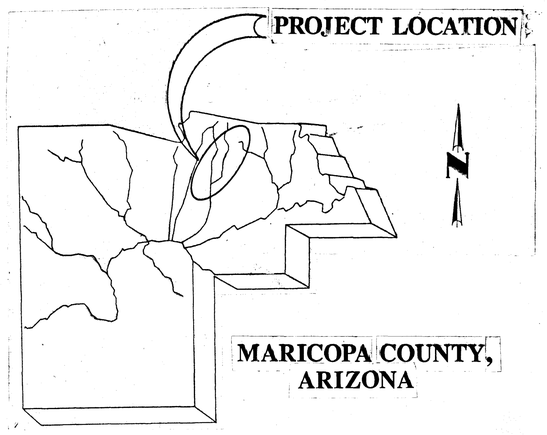
REVISION BY				
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

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

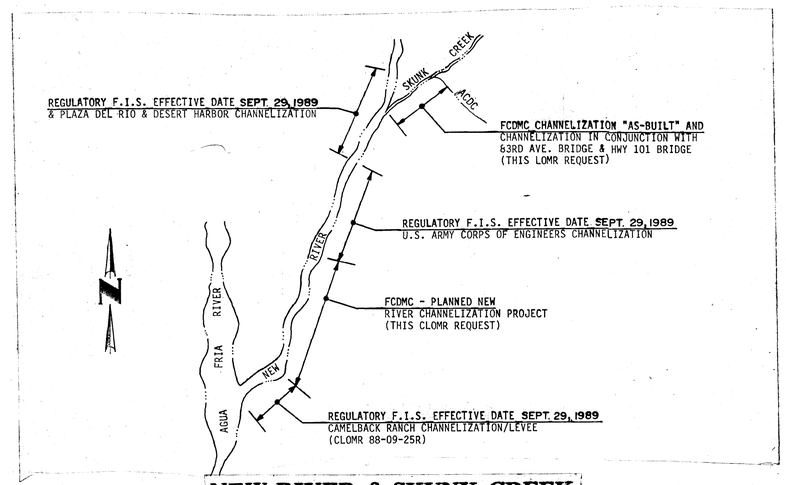
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER & SKUNK CREEK FLOODPLAIN DELINEATION MAPS

FCD NO. 89-30

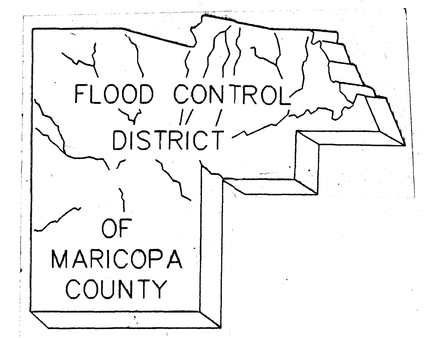


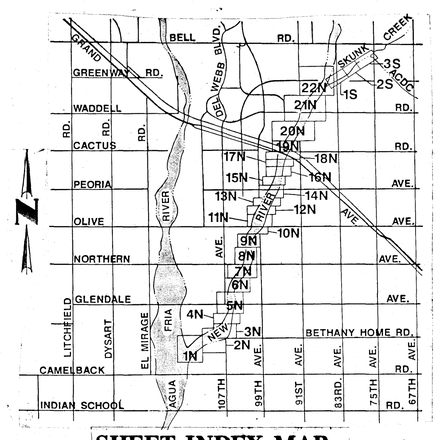
MARICOPA COUNTY, ARIZONA



NEW RIVER & SKUNK CREEK PROJECT KEY MAP

NTS





SHEET INDEX MAP

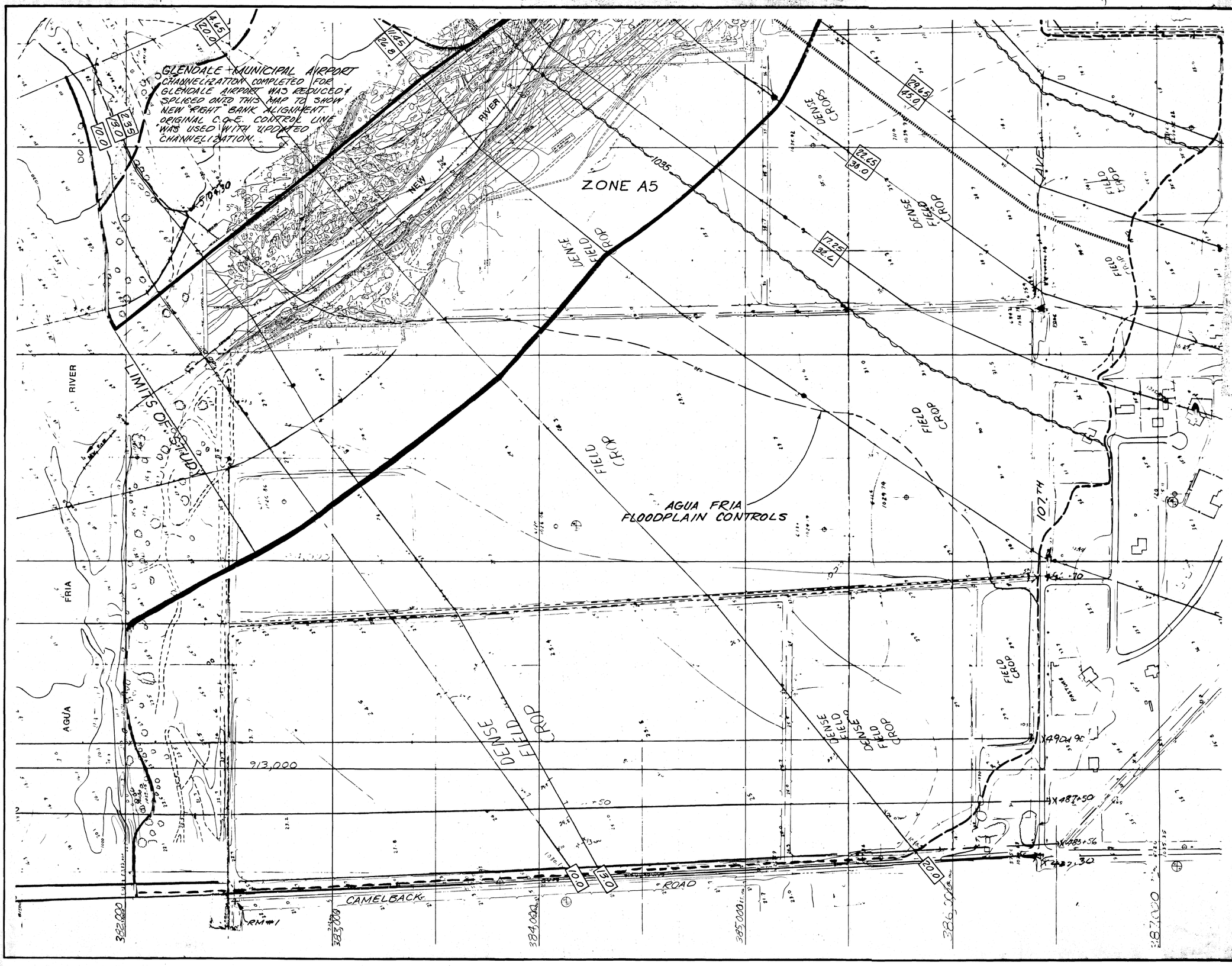
NTS

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY		
NEW RIVER & SKUNK CREEK FLOODPLAIN DELINEATION MAPS		
RECOMMENDED BY:		SHEET
APPROVED BY:	DATE:	
CHIEF ENGINEER & GENERAL MANAGER:		
DESIGNED / DATE	DRAWN / DATE	CHECKED / DATE
CVL	COE & VAN LOO CONSULTING ENGINEERS, INC.	

CENTRAL FILES
DRAWER # 307

NEW RIVER/SKUNK CREEK FDS
(100 YR.)
COE & VAN LOO ENG.
STUDY 1990 FCD 89-30

1090-04-01



CONTOUR INTERVAL 2 FEET

KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY:	AMCI
COMPILED BY:	AMCI
CONTROL BY:	USCE

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

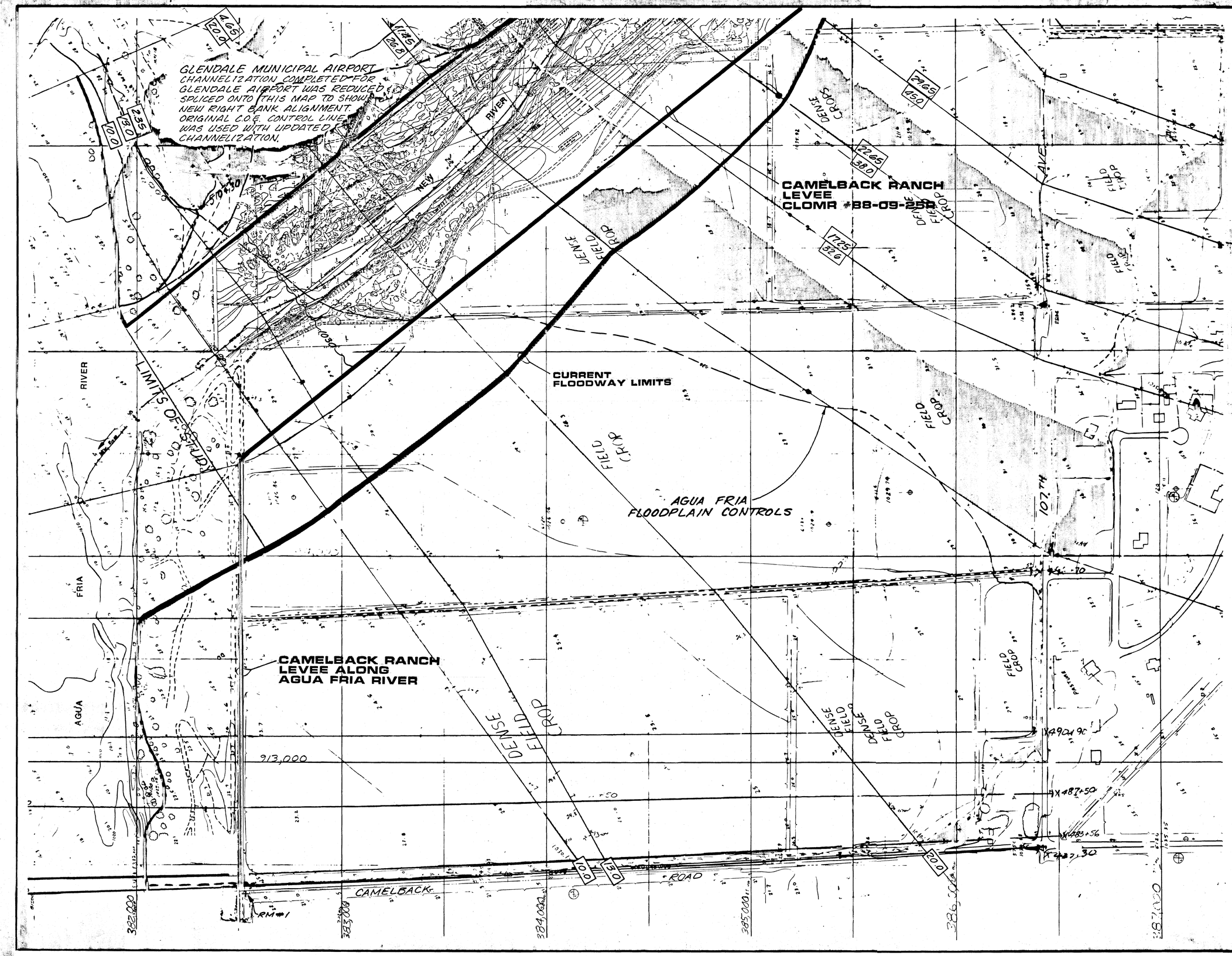
AGUA FRIA RIVER TO SKUNK CREEK

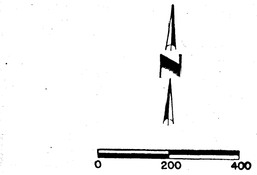
RECOMMENDED DATE:
APPROVED BY: DATE:
FLOODPLAIN ADMINISTRATOR

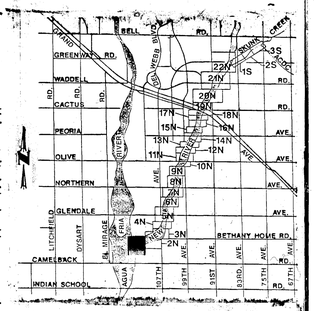
1N OF 22N

COE & VAN LOO PHOENIX ARIZONA
CONSULTING ENGINEERS INC.

C.V.L. JOB NO. 1090-04-01







KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY: AMCI	
COMPILED BY: AMCI	
CONTROL BY: USCE	

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

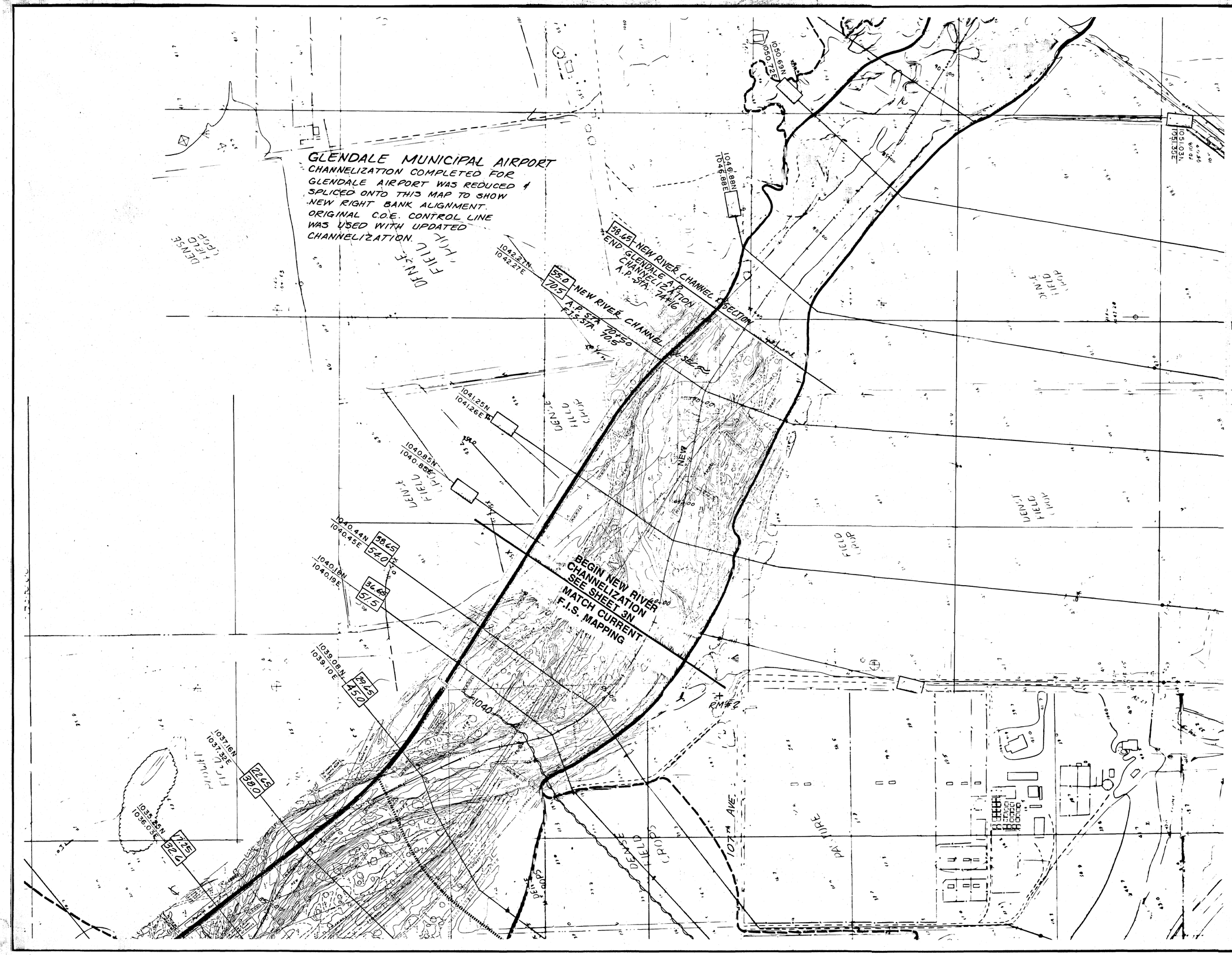
AGUA FRIA RIVER TO SKUNK CREEK

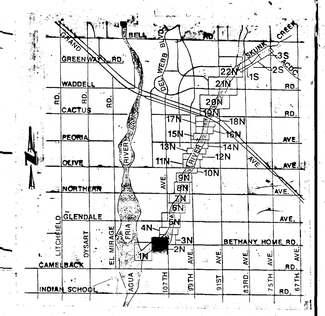
RECOMMENDED DATE:
APPROVED BY: DATE:
FLOODPLAIN ADMINISTRATOR

1N.1 OF 22N

COE & VAN LOO PHOENIX
CONSULTING ENGINEERS INC. ARIZONA

C.V.L. JOB NO. 1090-04-01





KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY:	AMCI.
COMPILED BY:	AMCI
CONTROL BY:	USCE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED DATE:

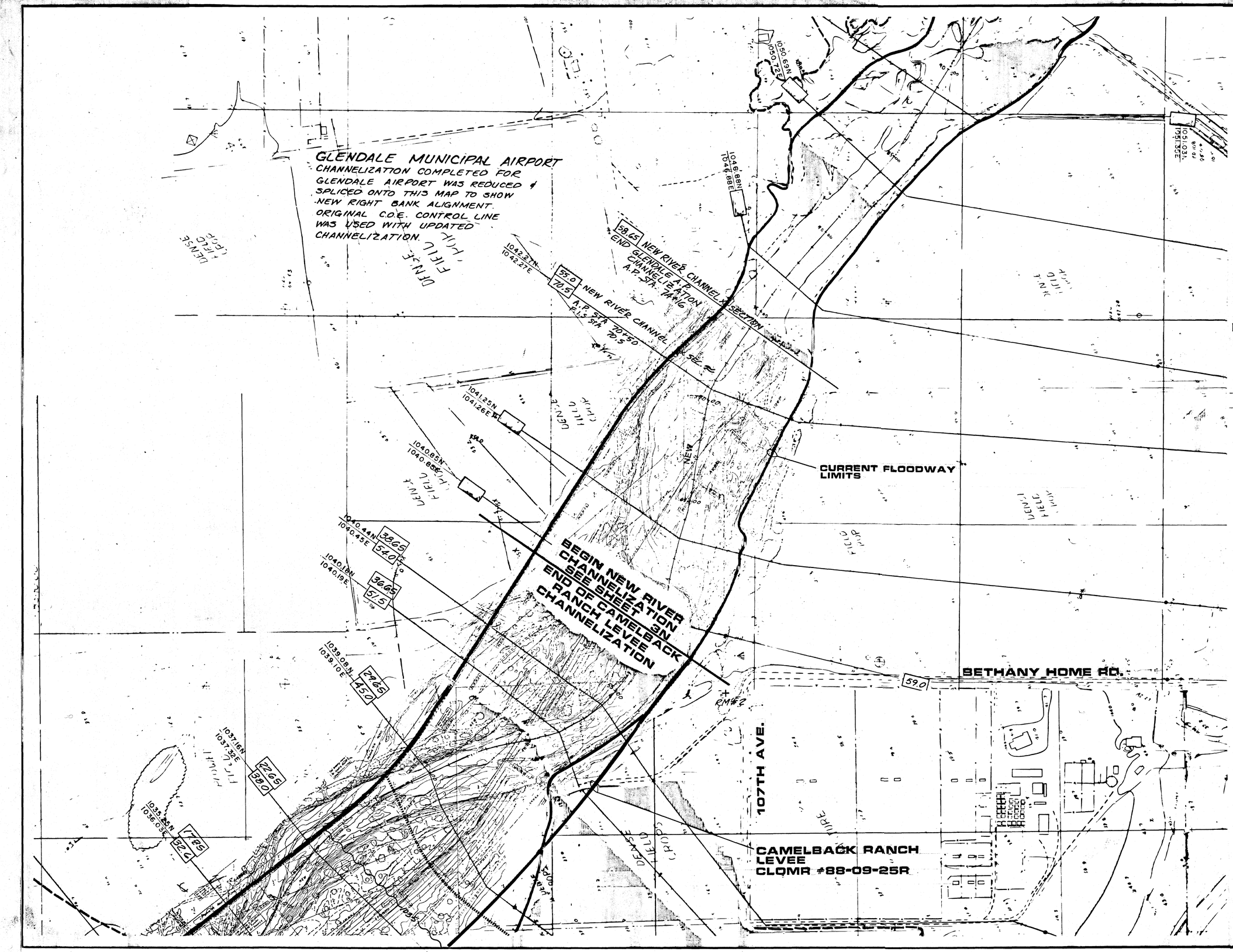
APPROVED BY: DATE:

FLOODPLAIN ADMINISTRATOR

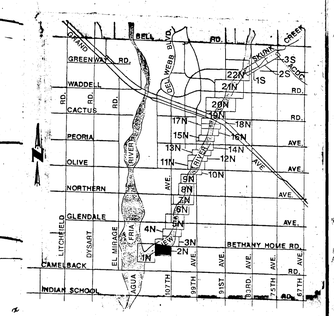
2N OF 22N

COE & VAN LOO PHOENIX
CONSULTING ENGINEERS INC. ARIZONA

C.V.L. JOB NO. 1090-04-01



0 200 400
CONTOUR INTERVAL 2 FEET



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY: AMCI	
COMPILED BY: AMCI	
CONTROL BY: USCE	

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

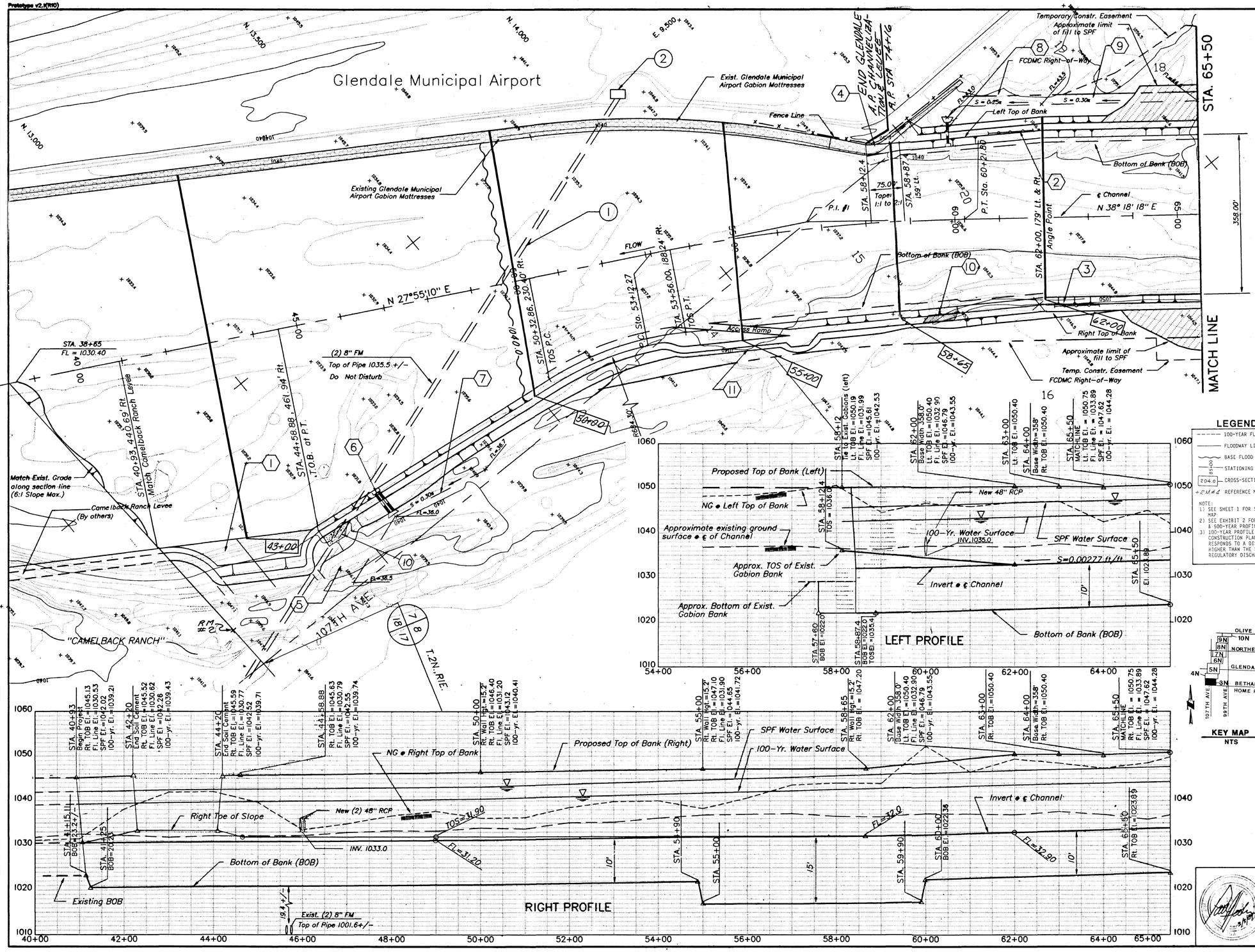
RECOMMENDED DATE:
APPROVED BY: DATE:
FLOODPLAIN ADMINISTRATOR

2N.1 OF 22N.

COE & VAN LOO CONSULTING ENGINEERS INC. PHOENIX ARIZONA

C.V.L. JOB NO. 1090-04-01

Prototype v2.K(RIO)



CONSTRUCTION NOTES

1. Construct channel turnout, soil cement apron, earthen levee for future Bethany Home Road ADOT Channel per details, sheet 20.
2. STA. 58+20 to STA. 65+50 (LT) Install 745 L.F. Safety Rail per detail, sheet 4.
3. STA. 44+60 to STA. 65+50 (RT) Install 2,095 L.F. Safety Rail, per detail sheet 4.
4. Grout Gabions and provide soil cement connection per detail sheet 9.
5. Grade Side Drainage Collection Swale per detail sheet 8.
6. STA. 46+00 (LT) Install 56 L.F. 2 – 48" RCP with drop inlet hdwl. per Side Drainage Inlet Detail. Sheet 5 Drop inlet crest = 1036.0 Drop inlet inv = 1035.0 Outlet with flapgate per Flapgate Details. Sheet 5 Outlet inv. = 1033.0
7. Grade Side Drainage Collection Swale per detail sheet 8.
8. STA. 60+00 (LT) Install 56 L.F. 48" RCP with drop inlet hdwl. per Side Drainage Inlet Detail. Sheet 5 Drop inlet crest = 1043.0 Drop inlet inv. = 1041.0 Outlet with flapgate per Flapgate Details. Sheet 5 Outlet inv. = 1035.0
9. Grade Side Drainage Collection Swale per detail sheet 8.
10. STA. 40+60 to STA. 65+50 (RT) Install 7' x 4" thick ABC Maintenance Road (1,780 S.Y.) per typical Bank Section. Sheet 3. Include Vehicle Turnaround, See Sheet 20
11. STA. 56+00 (RT) (STA. A) Construct Channel Access Ramp per Access Ramp Details, See Sheet 10

EXISTING UTILITIES

1. (2) 8" FM
2. Sewage Lift Station

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

CALL TWO WORKING DAYS BEFORE YOU DIG 263-1100 INSIDE MARICOPA COUNTY

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. 40+93 TO STA. 65+50

BETHANY HOME ROAD TO OLIVE AVENUE

RECOMMENDED BY:

APPROVED BY: DATE:

CHIEF ENGINEER & GENERAL MANAGER:

SHEET 3N OF 22N

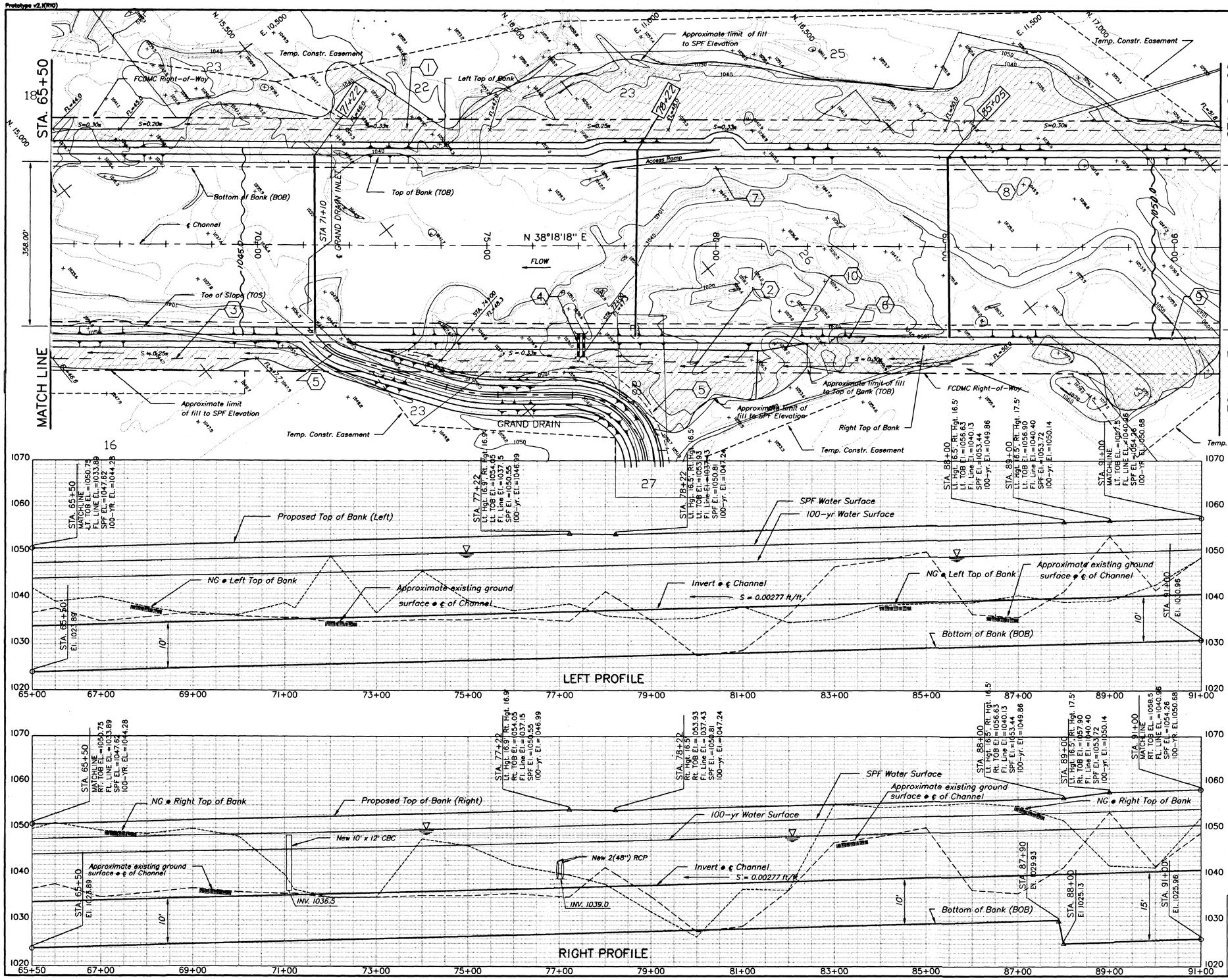
DESIGNED PH | DRAWN RT / BR | CHECKED AP | CVL # 1090-03-02

DATE 10/88 | DATE 1/89 | DATE 2/89

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.

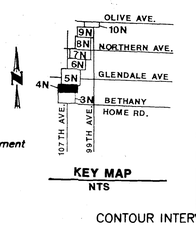
CVL JOB NO. 1090-04-01

Prototype v2.1(R10)



CONSTRUCTION NOTES

1. STA. 65+50 to 91+00 (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
2. STA. 74+00 to STA. 86+00 (RT)
   Grade Side Drainage Collection Swale per detail sheet 8.
3. STA. 65+50 to 70+00 (RT)
   Grade Side Drainage Collection Swale per detail sheet 8.
4. STA. 77+00 (RT)
   Install 48 L.F. 2 – 48" RCP with drop inlet hdwl. per side drainage inlet details Sheet 5.
   Drop inlet crest = 1047.3
   Drop inlet inv. = 1045.3
   Outlet with flapgate per Flapgate Detail Sheet 5.
   Outlet inv. = 1039.0
5. STA. 71+10 (RT)
   Construct Concrete Box Culvert and drainage channel per Grand Drain Outlet Details, sheet 21.
6. STA. 65+50 to 91+00 (RT)
   Install 7' x 4" thick ABC Maintenance Road (1,985 s.y.) per Typical Bank Section Sheet 3.
7. STA. 80+00 (LT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
8. STA. 65+50 to 91+00 (LT)
   Install 2,555 L.F. Safety Rail per Detail, sheet 4.
9. STA. 65+50 to 91+00 (RT)
   Install 2,550 L.F. Safety Rail per Detail, sheet 4.
10. STA. 81+00 to 82+00 (RT)
    Fill limits vary from Elevation SPF to TOB.



KEY MAP
NTS

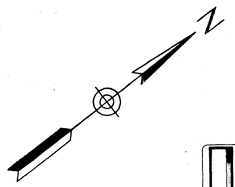
LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 STATIONING IN FEET
- 204.0 CROSS-SECTION NUMBER
- + R.M.# REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.



CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY

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. 65+50 to 91+00

BETHANY HOME ROAD TO OLIVE AVENUE

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

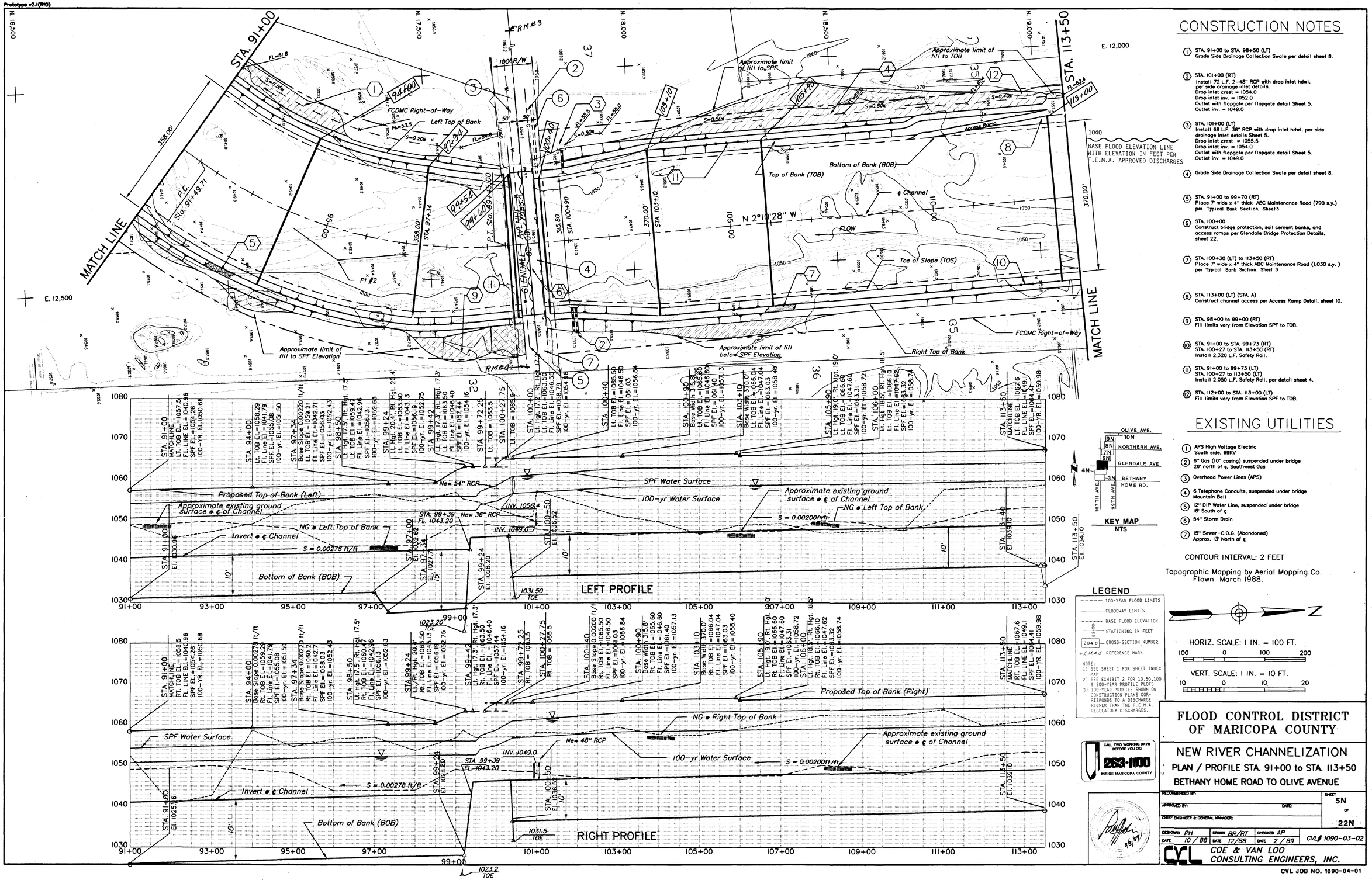
SHEET 4N OF 22N

DESIGNED PH	DRAWN BR/RT	CHECKED AP	CVL# 1090-03-02
DATE 10/88	DATE 12/88	DATE 2/89	

COE & VAN LOO CONSULTING ENGINEERS, INC.

CVL JOB NO. 1090-04-01

Prototype v2.1(RW)



CONSTRUCTION NOTES

1. STA. 91+00 to STA. 98+50 (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
2. STA. 101+00 (RT)
   Install 72 L.F. 2-48" RCP with drop inlet hdwl. per side drainage inlet details.
   Drop inlet crest = 1054.0
   Drop inlet inv. = 1052.0
   Outlet with flapgate per flapgate detail Sheet 5.
   Outlet inv. = 1049.0
3. STA. 101+00 (LT)
   Install 68 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. Grade Side Drainage Collection Swale per detail sheet 8.
5. STA. 91+00 to 99+70 (RT)
   Place 7' wide x 4" thick ABC Maintenance Road (790 s.y.) per Typical Bank Section, Sheet3
6. STA. 100+00
   Construct bridge protection, soil cement banks, and access ramps per Glendale Bridge Protection Details, sheet 22.
7. STA. 100+30 (LT) to 113+50 (RT)
   Place 7' wide x 4" thick ABC Maintenance Road (1,030 s.y.) per Typical Bank Section, Sheet 3
8. STA. 113+00 (LT) (STA. A)
   Construct channel access per Access Ramp Detail, sheet 10.
9. STA. 98+00 to 99+00 (RT)
   Fill limits vary from Elevation SPF to TOB.
10. STA. 91+00 to STA. 99+73 (RT)
    STA. 100+27 to STA. 113+50 (RT)
    Install 2,320 L.F. Safety Rail.
11. STA. 91+00 to 99+73 (LT)
    STA. 100+27 to 113+50 (LT)
    Install 2,050 L.F. Safety Rail, per detail sheet 4.
12. STA. 112+00 to STA. 113+00 (LT)
    Fill limits vary from Elevation SPF to TOB.

EXISTING UTILITIES

1. APS High Voltage Electric
   South side, 69KV
2. 6" Gas (10" casing) suspended under bridge 26' north of ℄, Southwest Gas
3. Overhead Power Lines (APS)
4. 6 Telephone Conduits, suspended under bridge Mountain Bell
5. 12" DIP Water Line, suspended under bridge 18' South of ℄
6. 54" Storm Drain
7. 15" Sewer-C.O.G. (Abandoned) Approx. 13' North of ℄

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- STATIONING IN FEET
- 204.0 CROSS-SECTION NUMBER
- REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

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

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY

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 5N OF 22N

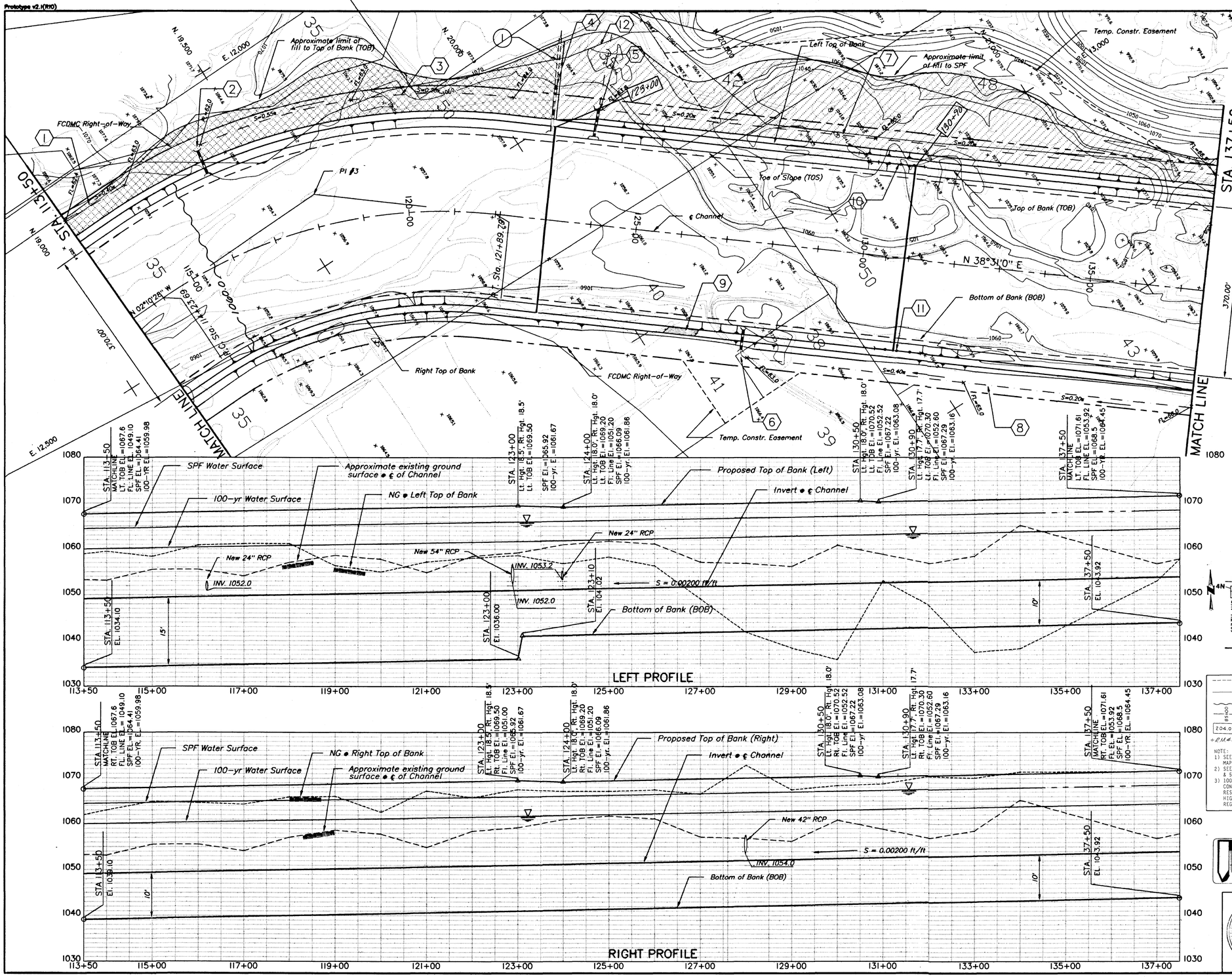
DESIGNED PH	DRAWN BR/RT	CHECKED AP
DATE 10/88	DATE 12/88	DATE 2/89

CVL# 1090-03-02

COE & VAN LOO CONSULTING ENGINEERS, INC.

CVL JOB NO. 1090-04-01

Prototype v2.1(R10)



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

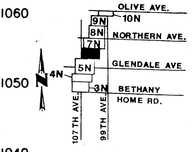
1. STA. 113+50 to 115+00 (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
2. STA. 116+20 (LT)
   Install 56 L.F. 24" RCP with drop inlet hdwl. per Side Drainage Inlet Details.
   Drop inlet crest = 1062.0
   Drop inlet inv. = 1061.0
   Outlet with flapgate per Flapgate Details.
   Outlet inv. = 1052.0
3. STA. 116+20 to 122+10 (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
4. STA. 122+90 (LT)
   Remove exist. hdwl. and trash rack and connect 100 L.F. 54" RCP to exist. 54" RCP, Outlet per Side Drainage Inlet details Sheet 5.
   Match exist. inv.
   Outlet inv. = 1052.0
5. STA. 124+00 (LT)
   Install 52 L.F. 24" RCP with drop inlet hdwl. per Side Drainage Inlet Details.
   Drop inlet crest = 1063.8
   Drop inlet inv. = 1062.2
   Outlet with flapgate per Flapgate Details.
   Outlet inv. = 1053.2
6. STA. 127+60 (RT)
   Install 48 L.F. 42" RCP with drop inlet hdwl. per Side Drainage Inlet Details.
   Drop inlet crest = 1063.0
   Drop inlet inv. = 1061.0
   Outlet with flapgate per Flapgate Details.
   Outlet inv. = 1054.0
7. STA. 122+97 to 137+50 (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
8. STA. 127+80 to 137+50 (RT)
   Grade Side Drainage Collection Swale per detail sheet 8.
9. 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.
10. STA. 113+50 to STA. 137+50 (LT)
    Install 2,515 L.F. Safety Rail, per detail sheet 4.
11. STA. 113+50 to STA. 137+50 (RT)
    Install 2,260 L.F. Safety Rail, per detail sheet 4.
12. STA. 123+00 to STA. 124+00 (LT)
    Fill limits vary from Elevation TOB to SPF.

EXISTING UTLITIES

1. 54" RCP Storm Drain

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.



KEY MAP
NTS

N

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 STATIONING IN FEET
- 204.0 CROSS-SECTION NUMBER
- +BM#4 REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

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

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

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY

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:

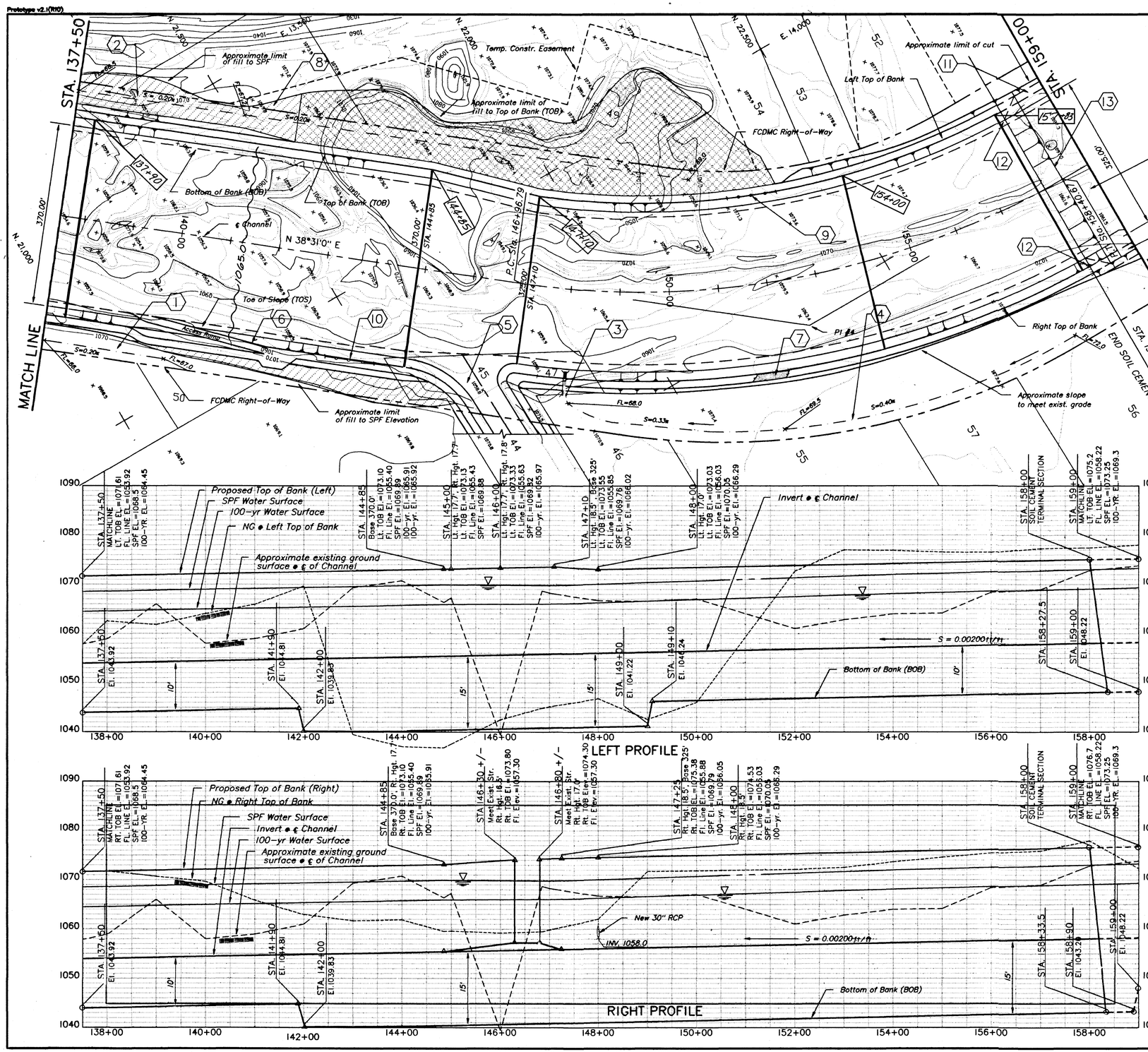
SHEET 6N OF 22N

DESIGNED PH	DRAWN BR/RCT	CHECKED AP	CVL# 1090-03-02
DATE 10/88	DATE 1/89	DATE 2/89	

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.

CVL JOB NO. 1090-04-01

Prototype v2.1(R10)

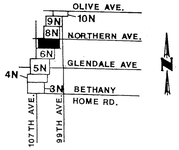


CONSTRUCTION NOTES

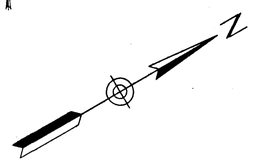
1. STA. 140+00 to 137+50 (RT)
   Grade Side Drainage Collection Swale per detail sheet 8.
2. STA. 137+50 to 141+00 (LT)
   Grade Side Drainage Collection Swale per detail sheet 8.
3. STA. 148+00 (RT)
   Install 52 L.F. 30" RCP with drop inlet hdwl. per side drainage inlet details Sheet 5.
   Drop inlet crest = 1068.0
   Drop inlet inv. = 1066.5
   Outlet with flapgate per flapgate details Sheet 5.
   Outlet inv. = 1058.0
4. STA. 148+00 to 157+30 (RT)
   Grade Side Drainage Collection Swale per detail sheet 8.
5. STA. 144+65 (RT)
   Construct ADOT Channel Outlet per Northern Avenue ADOT Channel Detail, sheet 23.
6. STA. 142+00 to (RT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
7. STA. 137+50 to 145+90 (RT)
   STA. 147+45 to 159+00 (RT)
   Place 7" x 4" thick ABC Maintenance Road (1,495 s.y.) per Typical Bank Section Sheet 3.
8. STA. 141+00 to 142+00 (LT)
   Fill limits vary from Elevation SPF to TOB.
9. STA. 137+50 to STA. 158+00 (LT)
   Install 1,925 L.F. Safety Rail, per detail sheet 4.
10. STA. 137+50 to STA. 145+90 (RT)
    STA. 147+45 to STA. 158+00 (RT)
    Install 1,920 L.F. Safety Rail, per detail sheet 4.
11. STA. 158+00 to 161+10
    Soil Cement, Bank, Channel Excavation and Northern Avenue Bridge Construction to be phased. See Special Provisions.
12. STA. 158+00 (TOB)
    Soil Cement Terminal Section at Top of Bank, transition down at 1:1 to Bottom of Bank.
13. Grade from Design Channel FL at 4:1 up to meet exist.
14. STA. 158+00 to 161+00
    Northern Ave. to remain in service until bridge construction commences. Soil Cement Bank, Channel Excavation and Northern Ave. Bridge Construction to be phased. See Special Provisions.

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co.
Flown March 1988.



KEY MAP
NTS



LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- STATIONING IN FEET (85+00)
- 204.0 CROSS-SECTION NUMBER
- REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

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

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

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY

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

SHEET 7N OF 22N

DESIGNED PH	DRAWN BR/RCT	CHECKED AP	
DATE 10/88	DATE 1/89	DATE 2/89	CVL# 1090-03-02

CVL COE & VAN LOO CONSULTING ENGINEERS, INC.

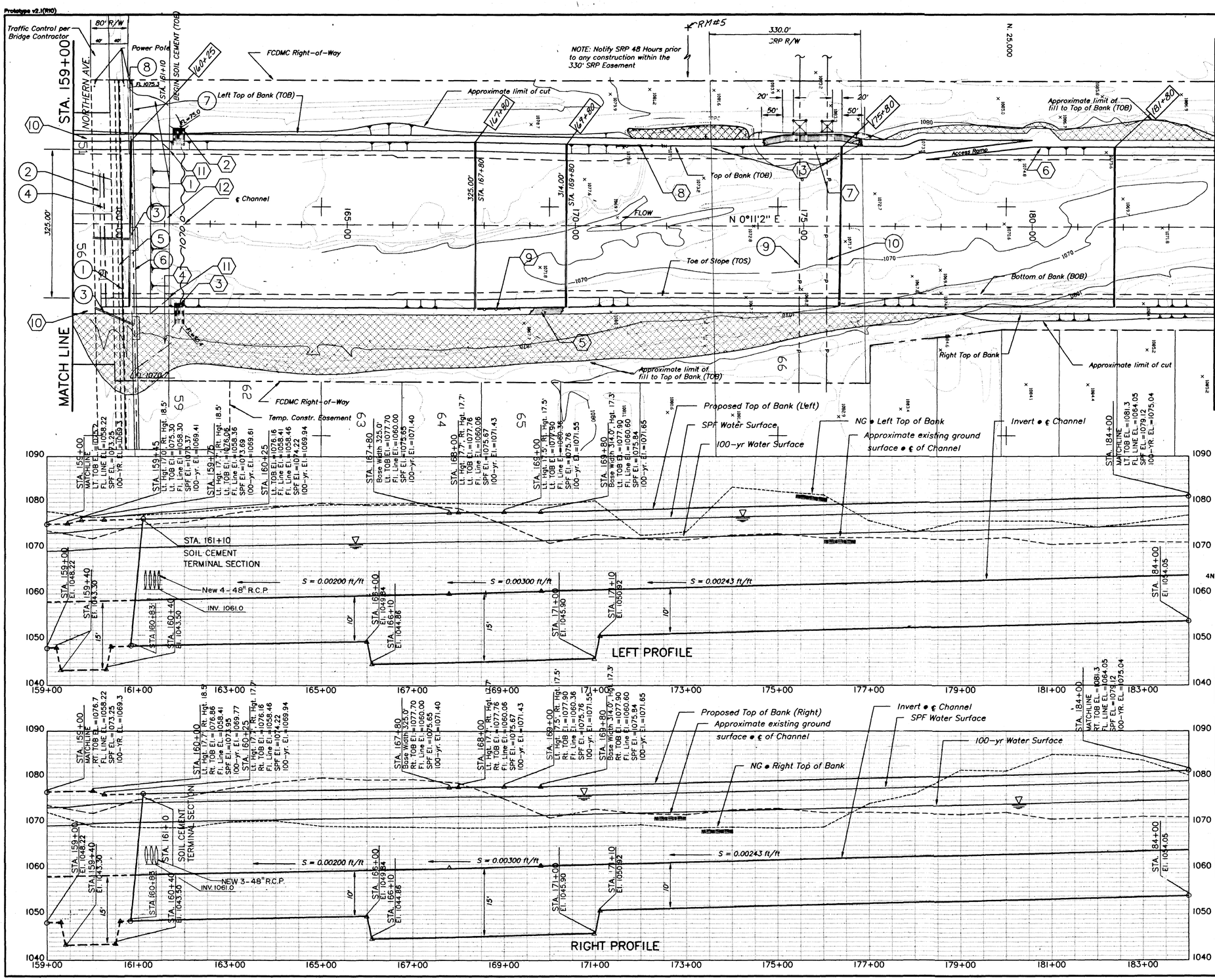
CVL JOB NO. 1090-04-01

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

Prototype v2.1(R10)



CONSTRUCTION NOTES

1. STA. 161+30 (LT)
   Grade drainage channel per detail sheet 6.
2. STA. 161+30 (LT)
   Install 36 L.F. 4 – 48" RCP total length of pipe = 144 L.F. with drop inlet hdwl. per side drainage inlet details.
   Drop inlet crest = 1075.0
   Drop inlet inv. = 1074.0
   Outlet without flapgate per uncontrolled outlet detail.
   Outlet pipe inv. = 1061.0
3. STA. 161+30 (RT)
   Install 48 L.F. 3 – 48" RCP total length of pipe = 144 L.F. with drop inlet hdwl. per side drainage inlet details.
   Drop inlet crest = 1070.4
   Drop inlet inv. = 1069.0
   Outlet with (3) flapgates per flapgate details.
   Outlet pipe inv. = 1061.0
4. STA. 161+30 (RT)
   Grade drainage channel per detail sheet 6.
5. STA. 161+10 to 184+00 (RT)
   Place 7' x 4" thick ABC Maintenance Road (1,785 s.y.) per Section X – X: Typical Bank Section. Sheet 3
6. STA. 180+00 (LT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
7. STA. 174+00 to STA. 176+35 (LT)
   Construct earth ramp and bench. Refer to SRP & APS Utility and Access Road Detail, sheet 8.
8. STA. 161+10 to STA. 184+00 (LT)
   Install 2,290 L.F. Safety Rail, per detail sheet 4.
9. STA. 161+10 to STA. 184+00 (RT)
   Install 2,290 L.F. Safety Rail, per detail sheet 4.
10. STA. 158+00 to 161+10
    Northern Ave. to remain in service until bridge construction commences. Soil Cement Bank, Channel Excavation and Northern Bridge Construction to be phased. See Special Provisions.
11. STA. 161+10 (TOB)
    Soil Cement Terminal Section at Top of Bank, Transition down at 1:1 to Bottom of Bank.
12. Grade from Design Channel FL at 4:1 up to meet exist.
13. STA. 172+80 (LT); STA. 174+25 (LT); STA. 176+15 (LT)
    Construct non-contiguous Safety Rail Gaps (3) per detail sheet 4.

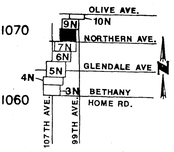
EXISTING UTILITIES

NOTE: All utilities within the Avenue Right-of-Way will be relocated by others.

1. Tele Cable, 20' N of ℄
2. 18" High Pressure Gas, Approx. 30' S o ℄ (El Paso Natural Gas)
3. 2 – 24" Storm Drains
4. 12" ACP Water, 20' S of ℄ (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. Overhead Power Lines – A.P.S.
8. 1 1/2" Abandoned Water, 40' N of ℄
9. SRP Transmission Lines (Overhead) – 230kv
10. APS Transmission Lines (Overhead) – 230kv

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 instructed 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 components of towers. Vehicular ingress and egress shall be maintained to the towers both during and after construction.



KEY MAP
NTS

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- STATIONING IN FEET
- 204.0 CROSS-SECTION NUMBER
- +R.M.#4 REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

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

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

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY

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 8N OF 22N

DESIGNED PH	DRAWN BR/RCT	CHECKED AP	
DATE 10/88	DATE 1/89	DATE 2/89	CVL# 1090-03-02

COE & VAN LOO CONSULTING ENGINEERS, INC.

CVL JOB NO. 1090-04-01

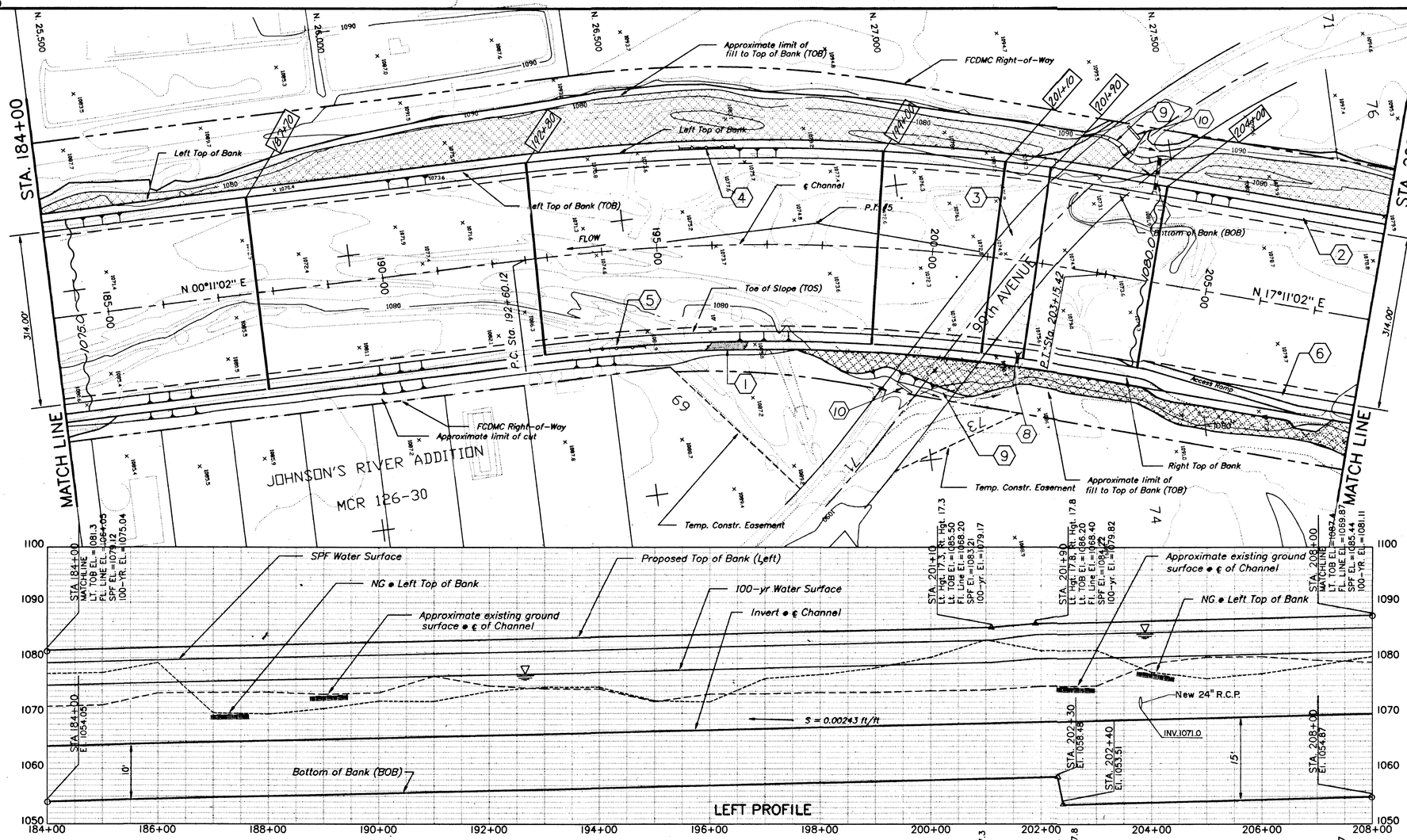
REVISION BY					
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE	

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

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

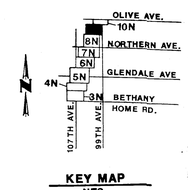
Prototype v2.K(R10)

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 (1,825 s.y.) per Typical Bank Section Sheet 3.
2. STA. 207+00 (LT)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
3. Remove and dispose of existing asphalt pavement within FCDMC ROW.
4. STA. 184+00 to STA. 208+00 (LT)
   Install 2,450 L.F. Safety Rail, per detail sheet 4.
5. STA. 184+00 to 208+00 (RT)
   Install 2,345 L.F. Safety Rail, per detail sheet 4.
6. STA. 207+00 (RT) (STA. A)
   Construct Channel Access Ramp per Access Ramp Details, sheet 10.
7. STA. 203+80 (LT)
   Install 60. L.F. 24" RCP, bell end inlet protruding from slope (no hdwl.).
   Inlet inv. = 1082.0
   Outlet without flapgate per Detail Sheet 5.
   Outlet inv. = 1071.0
8. STA. 201 + 80 (RT)
   Install 60 L.F. 36" RCP,
   Drop Inlet Crest = 1082.0
   Drop Inlet Inv. = 1080.0
   No Flapgate
   Outlet inv. = 1070.0
9. Slope down from Top of Bank (TOB). Elevation at 4:1 to meet exist grade. Swale to meet pipe inv.
10. Install Barricade (2 ea.) in Existing Asphalt Pavement. M.A.G.Std. Det. 130, Type 'B', Length = 27'



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- STATIONING IN FEET
- 204.0 CROSS-SECTION NUMBER
- +P.R.M.# REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

CONTOUR INTERVAL: 2 FEET

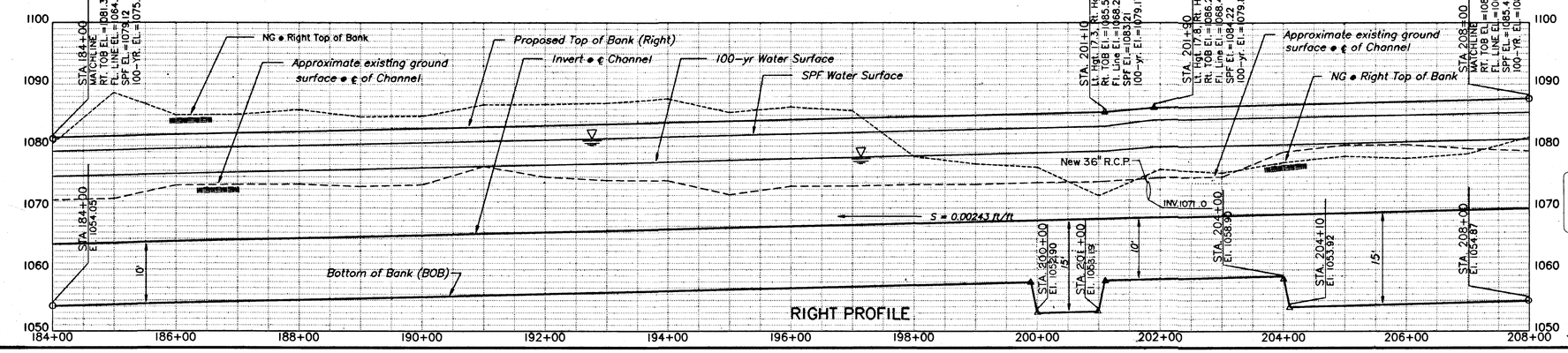
Topographic Mapping by Aerial Mapping Co. Flown March 1988.

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

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

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

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



CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY

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

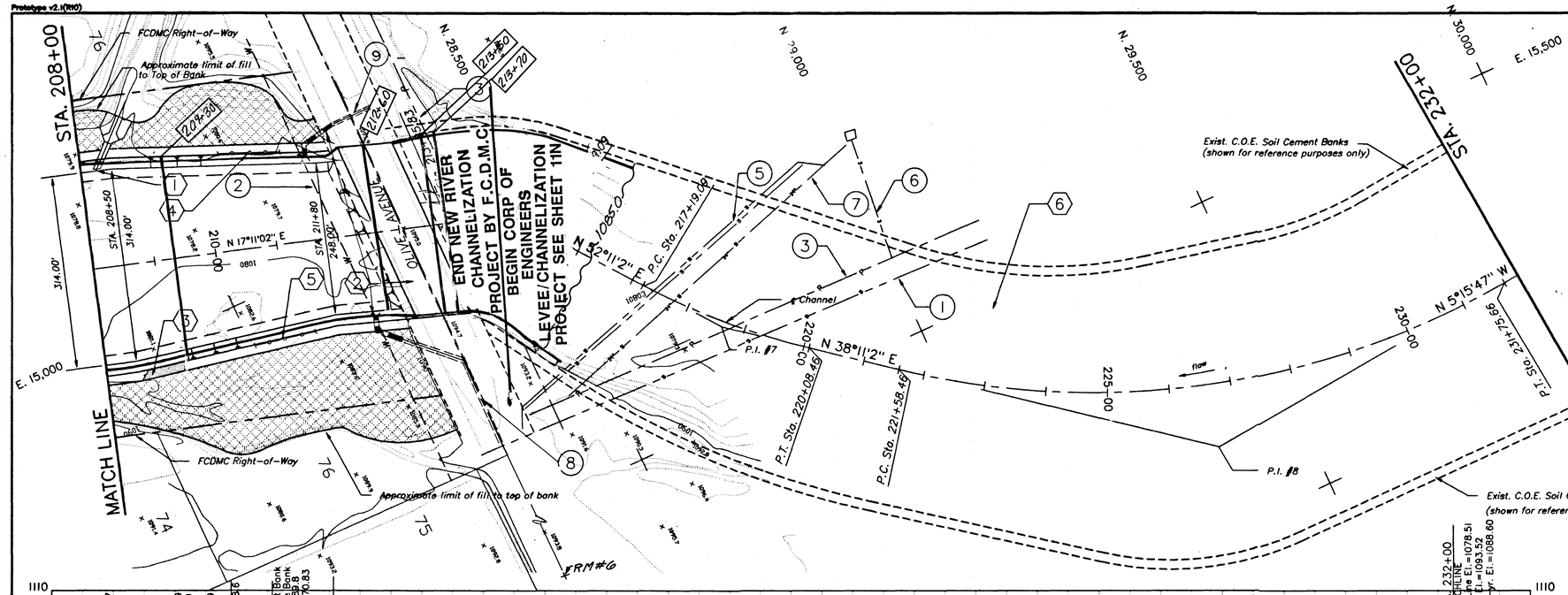
SHEET 9N OF 22N

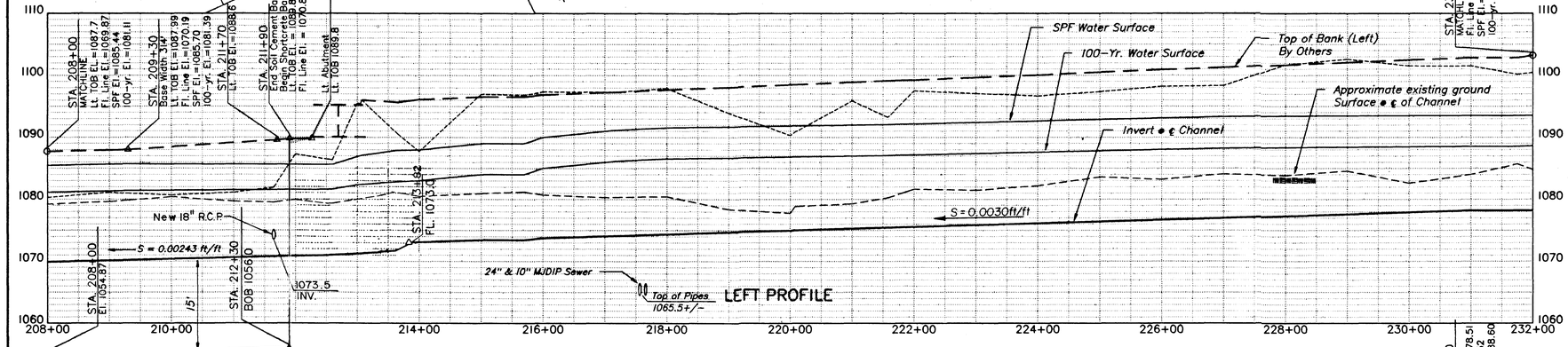
DESIGNED PWRH	DRAWN BR/RCT	CHECKED ACP	CVL# 1090-03-02
DATE 12/88	DATE 1/89	DATE 1/89	

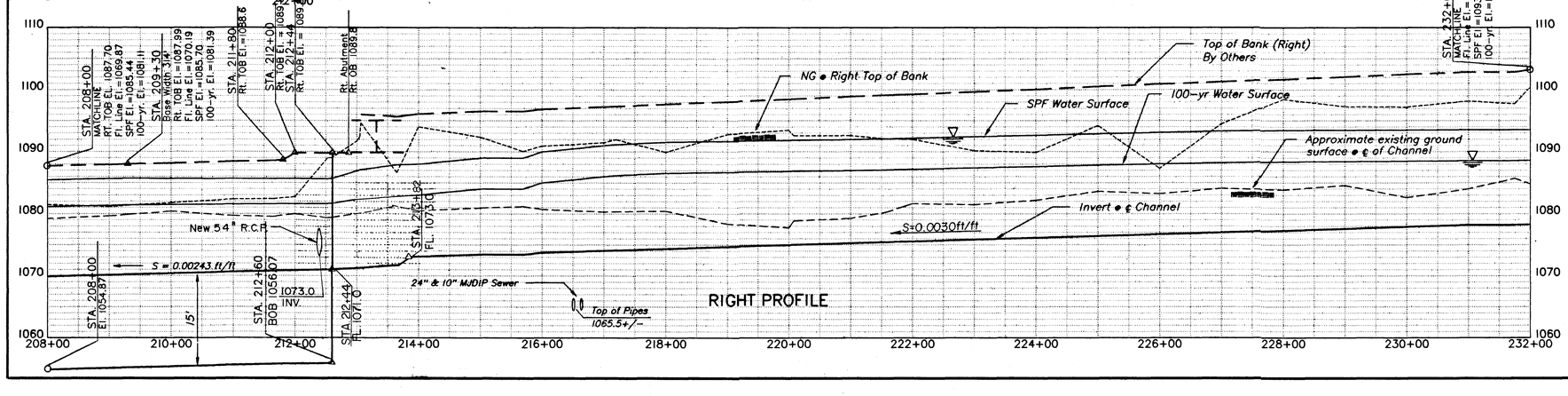
CVL COE & VAN LOO CONSULTING ENGINEERS, INC.

CVL JOB NO. 1090-04-01

Prototype v2.1(RIO)







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, Utilities, Access Roads per Olive Avenue Bridge Protection Details, sheet 24.
3. STA. 208+00 to 213+18 (RT) Place 7' x 4" thick A.B.C. Maintenance Road (405 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 and all other items not shown will be constructed by others.

EXISTING UTILITIES

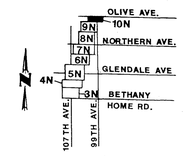
1. 14" ACP FM Sewer (To be abandoned by Others)
2. 16" Water, 100' S. of ℄ (City of Peoria)
3. Overhead Power Lines
5. 10" and 24" MJDIP Sewer, proposed by FCD
6. Electric Line
7. 24" Dip Sewer (To be removed by Others)
8. 54" RGRCP, proposed by MCHD
9. 18" R.G.R.C.P.

CAUTION:

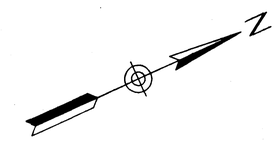
See Note Sheet 16 for Electric.

CONTOUR INTERVAL: 2 FEET

Topographic Mapping by Aerial Mapping Co. Flown March 1988.



KEY MAP
NTS



LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 185+00 STATIONING IN FEET
- 204.0 CROSS-SECTION NUMBER
- +RM#4 REFERENCE MARK

NOTE:
1) SEE SHEET 1 FOR SHEET INDEX MAP
2) SEE EXHIBIT 2 FOR 10,50,100 & 500-YEAR PROFILE PLOTS
3) 100-YEAR PROFILE SHOWN ON CONSTRUCTION PLANS CORRESPONDS TO A DISCHARGE HIGHER THAN THE F.E.M.A. REGULATORY DISCHARGES.

HORIZ. SCALE: 1 IN. = 100 FT.

100 0 100 200

VERT. SCALE: 1 IN. = 10 FT.

10 0 10 20

CALL TWO WORKING DAYS BEFORE YOU DIG 263-1100 INSIDE MARICOPA COUNTY

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: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER & GENERAL MANAGER:

SHEET 10N or 22N

DESIGNED PH	DRAWN BR/RCT	CHECKED AP	CVL# 1090-03-02
DATE 10/88	DATE 1/89	DATE 2/89	

3/3/89

COE & VAN LOO CONSULTING ENGINEERS, INC.

CVL JOB NO. 1090-04-01

REVISION BY

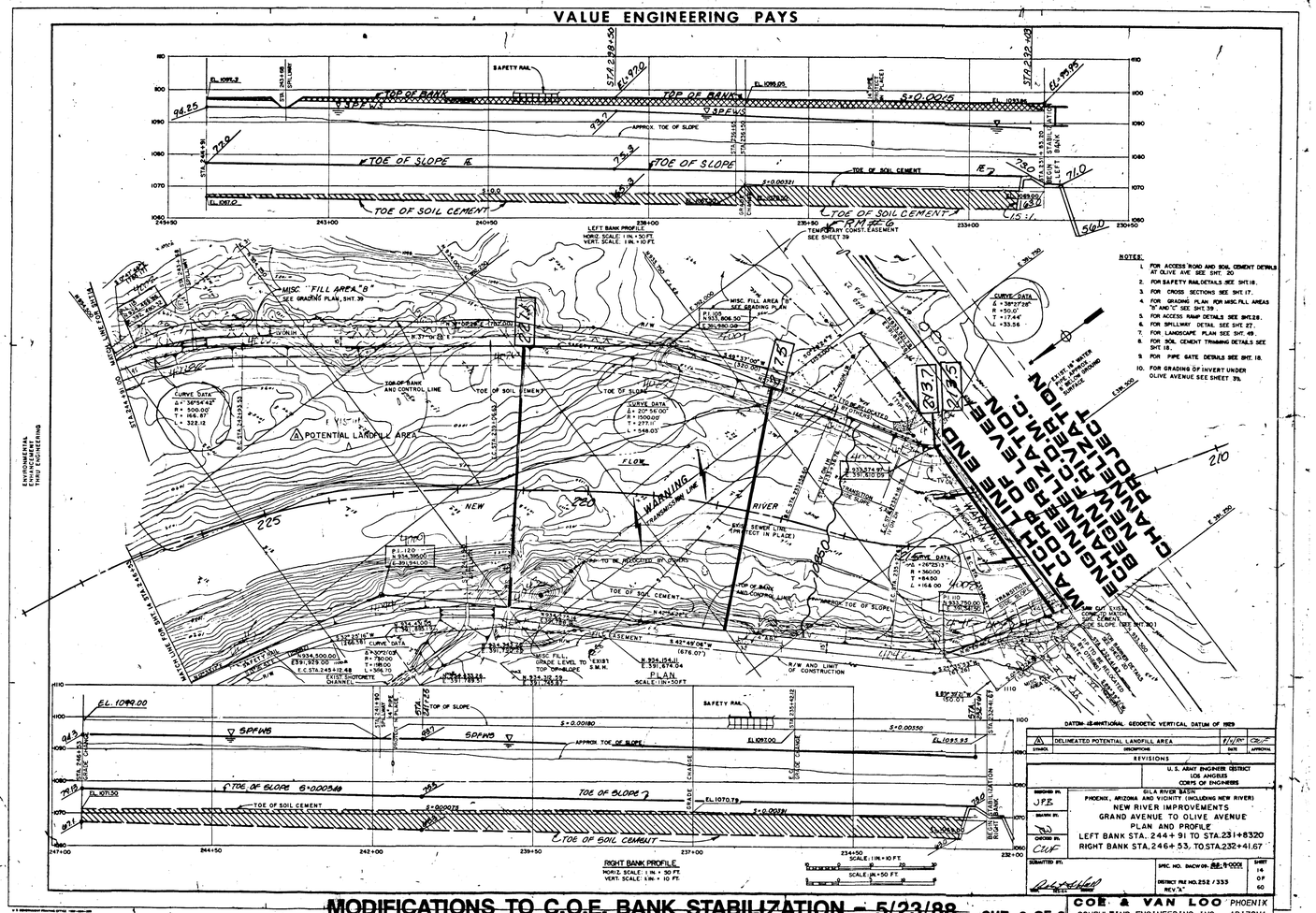
NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY

NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

REVISION BY

NO.	DESCRIPTION	REV. BY	CKD. BY	DATE

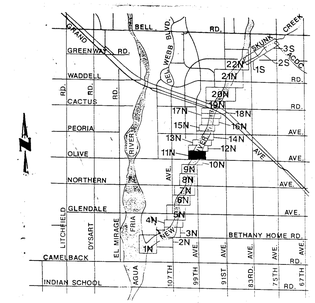


NOTES:

1. FOR ACCESS ROAD AND SOIL CEMENT DETAILS AT OLIVE AVE. SEE SHT. 20
2. FOR SAFETY RAIL DETAILS SEE SHT. 18.
3. FOR CROSS SECTIONS SEE SHT. 17.
4. FOR GRADING PLAN FOR MISC. FILL AREAS "B" AND "C" SEE SHT. 39.
5. FOR ACCESS RAMP DETAILS SEE SHT. 28.
6. FOR SPILLWAY DETAIL SEE SHT. 27.
7. FOR LANDSCAPE PLAN SEE SHT. 49.
8. FOR SOIL CEMENT TRIMMING DETAILS SEE SHT. 18.
9. FOR PIPE GATE DETAILS SEE SHT. 18.
10. FOR GRADING OF INVERT UNDER OLIVE AVENUE SEE SHEET 39.

MODIFICATIONS TO C.O.E. BANK STABILIZATION – 5/23/88

SHT. 3 OF 3



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 — STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 — CROSS-SECTION NUMBER
- RM#4 — REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

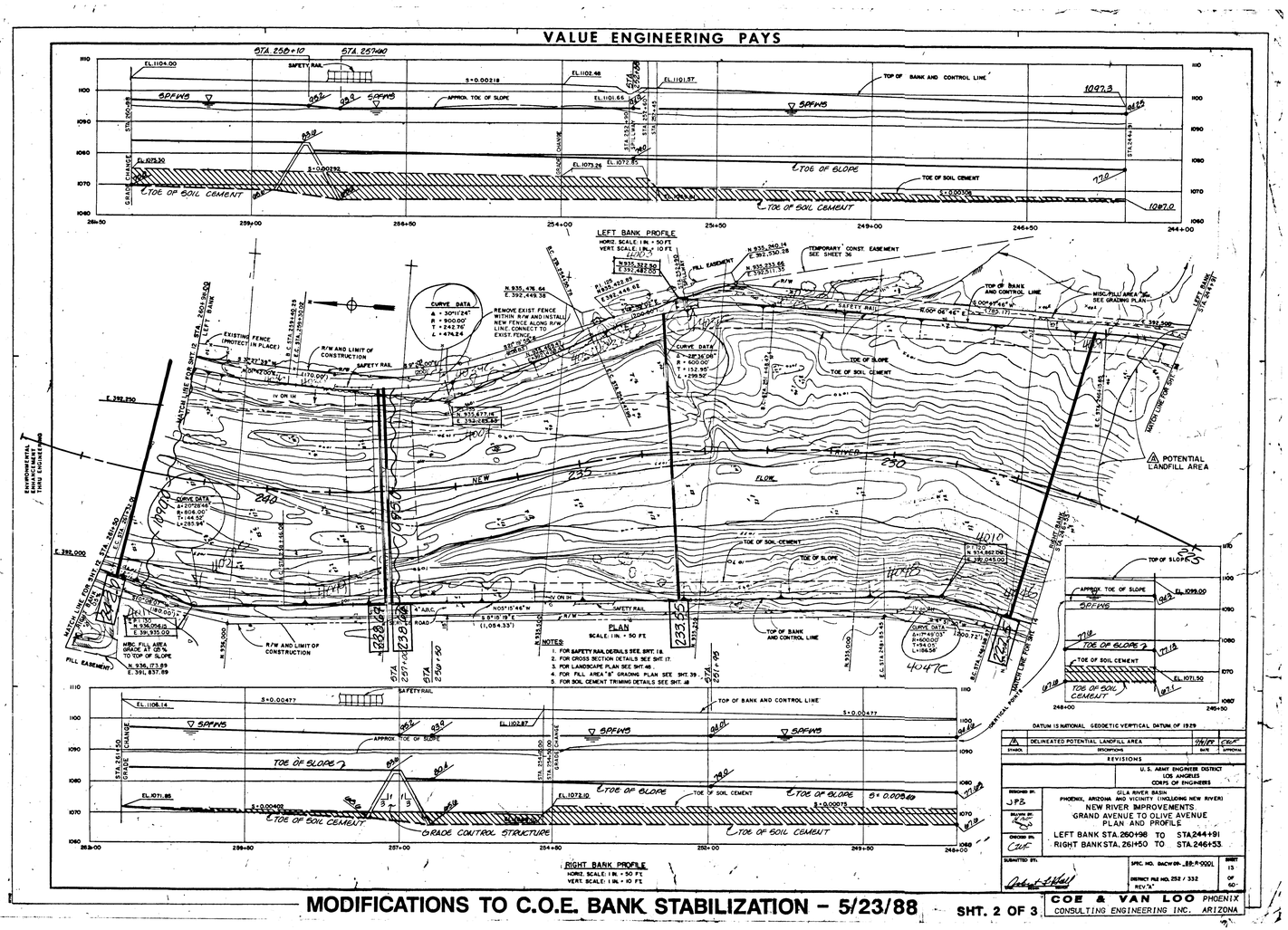
FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

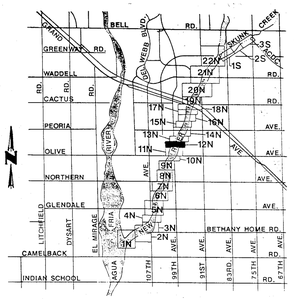
AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED BY:			SHEET 11N OF 22N
APPROVED BY:		DATE:	
CHIEF ENGINEER & GENERAL MANAGER:			
DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO. 1090-04-01
DATE 12/89	DATE 12/89	DATE 12/89	

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX
ARIZONA



MODIFICATIONS TO C.O.E. BANK STABILIZATION – 5/23/88 SHT. 2 OF 3



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 185+00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

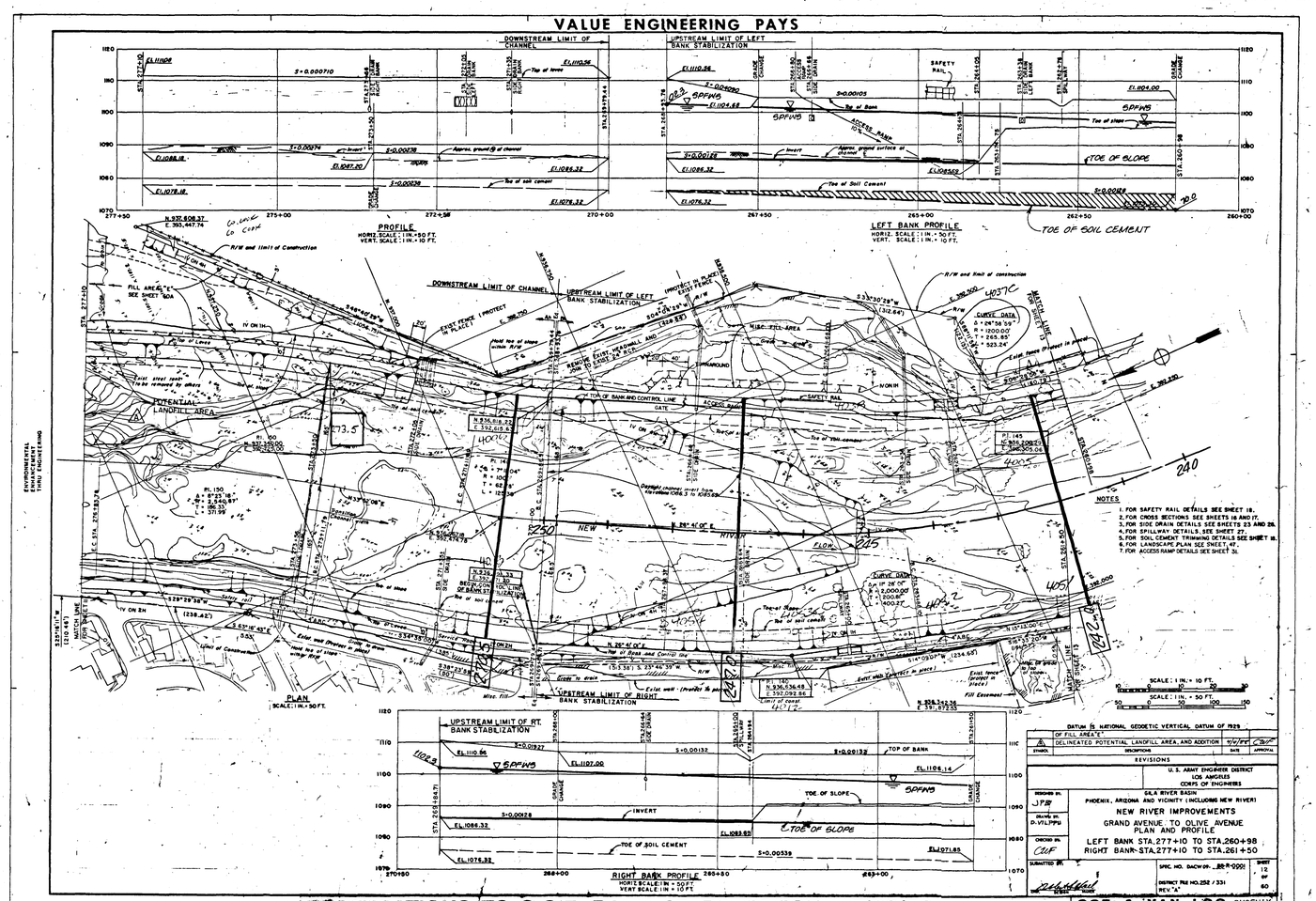
AGUA FRIA RIVER TO SKUNK CREEK

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

SHEET 12N OF 22N

DES. GKH	DR. CS/NW	GK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

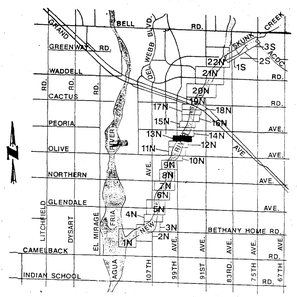
COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX
ARIZONA



MODIFICATIONS TO C.O.E. BANK STABILIZATION - 5/23/88

SHT. 1 OF 3

COE & VAN LOO CONSULTING ENGINEERING INC. PHOENIX ARIZONA



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED BY:

APPROVED BY: DATE:

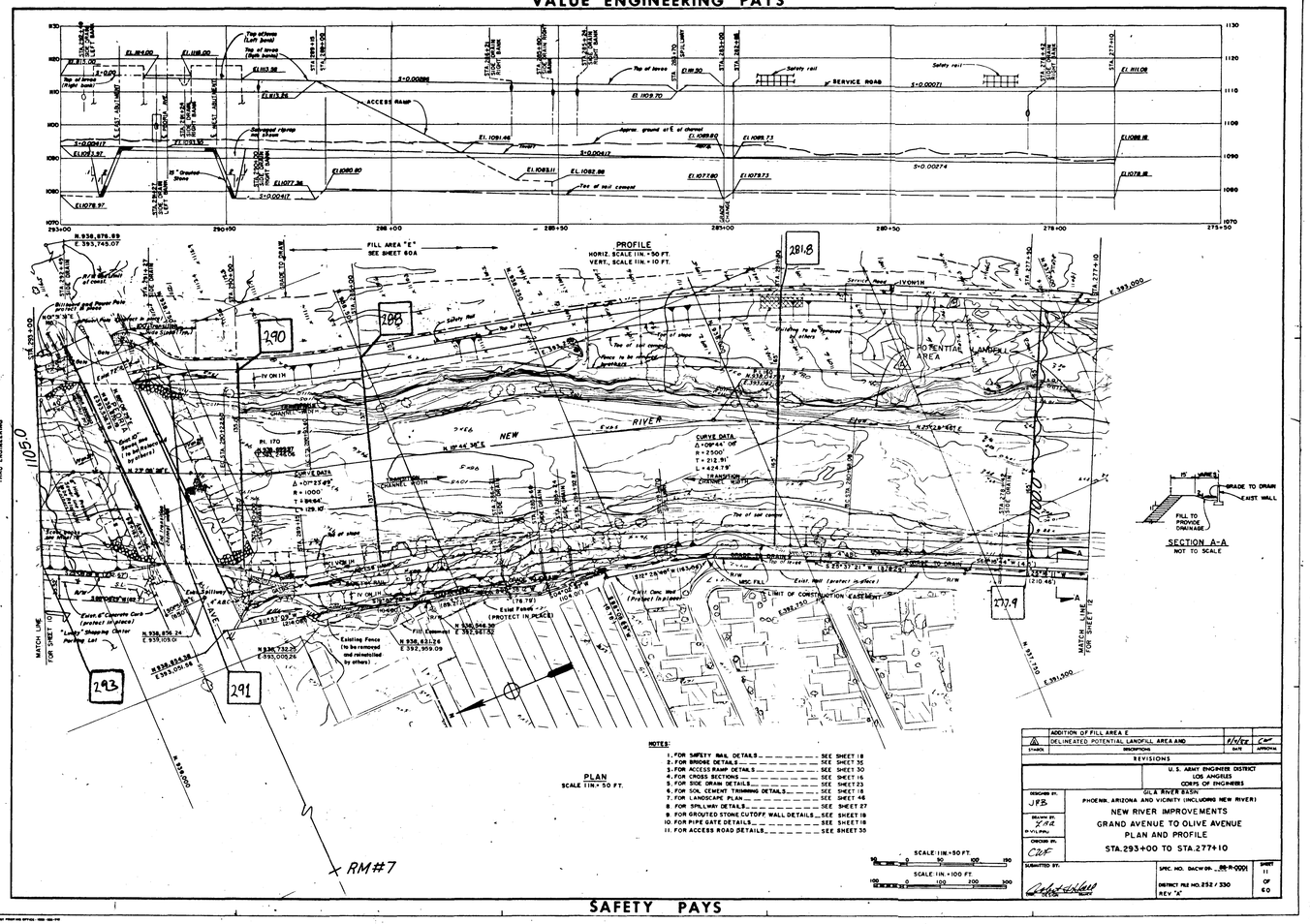
CHIEF ENGINEER & GENERAL MANAGER:

SHEET 13N OF 22N

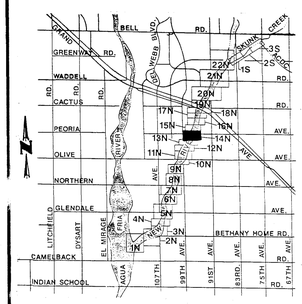
DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

COE & VAN LOO CONSULTING ENGINEERING INC. PHOENIX ARIZONA

VALUE ENGINEERING PAYS



SAFETY PAYS



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 — STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 — CROSS-SECTION NUMBER
- RM#4 — REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AUGA FRIA RIVER TO SKUNK CREEK

RECOMMENDED BY:

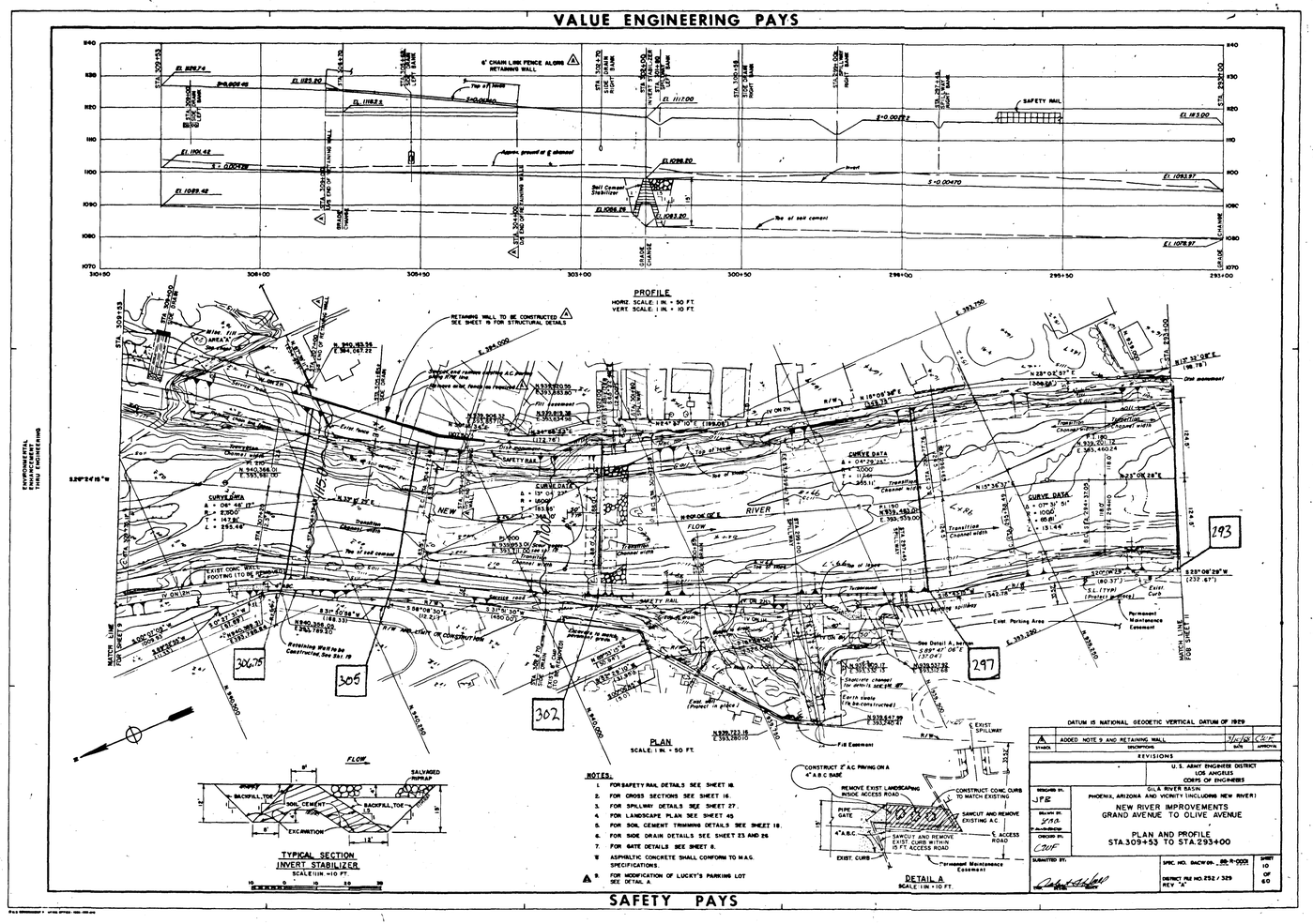
APPROVED BY: DATE:

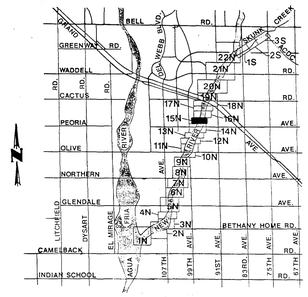
CHIEF ENGINEER & GENERAL MANAGER:

SHEET 14N OF 22N

DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX ARIZONA





KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85+00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

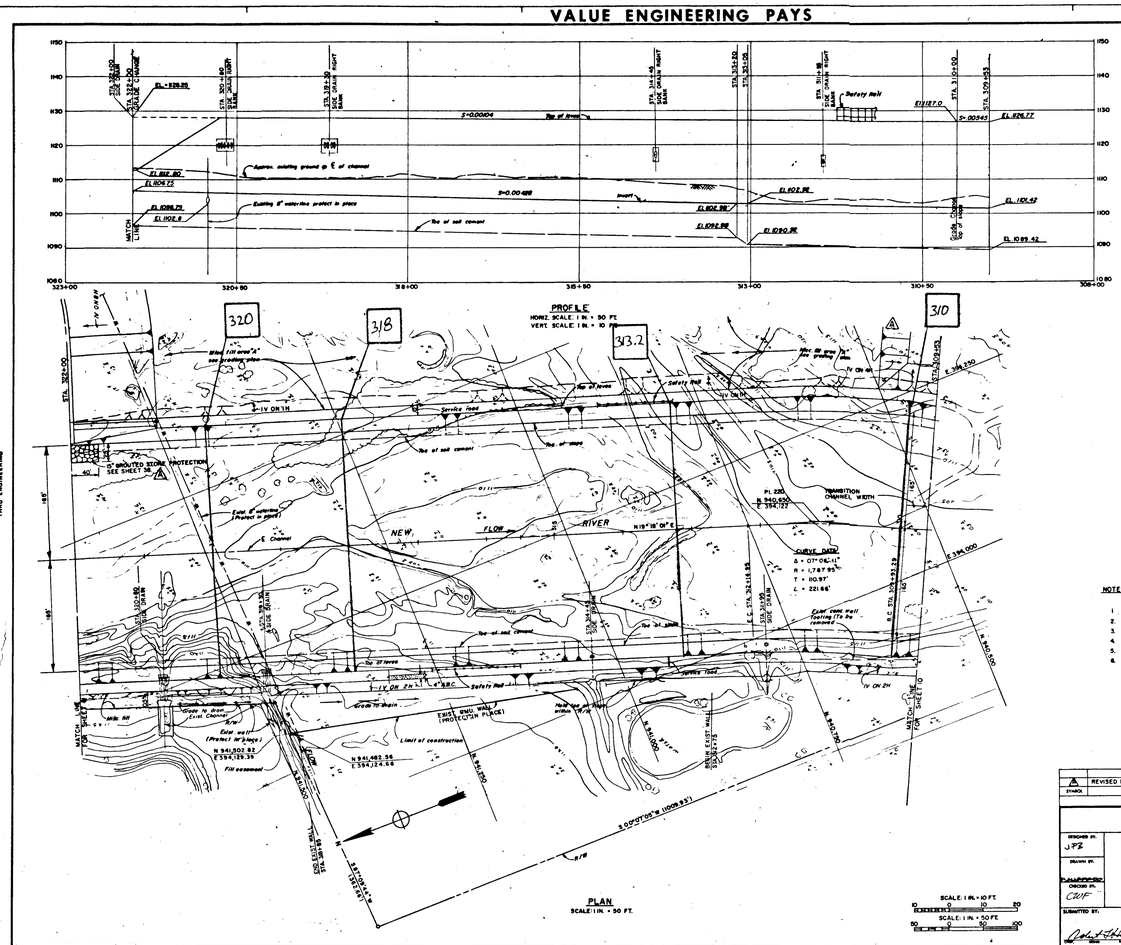
RECOMMENDED BY:
APPROVED BY: DATE:
CHIEF ENGINEER & GENERAL MANAGER:

SHEET 15N OF 22N

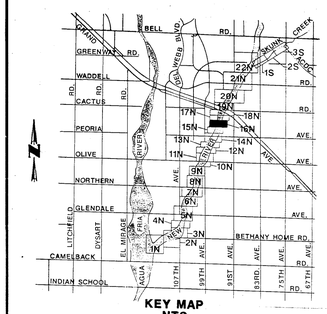
DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX ARIZONA

VALUE ENGINEERING PAYS



SAFETY PAYS



LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED BY:

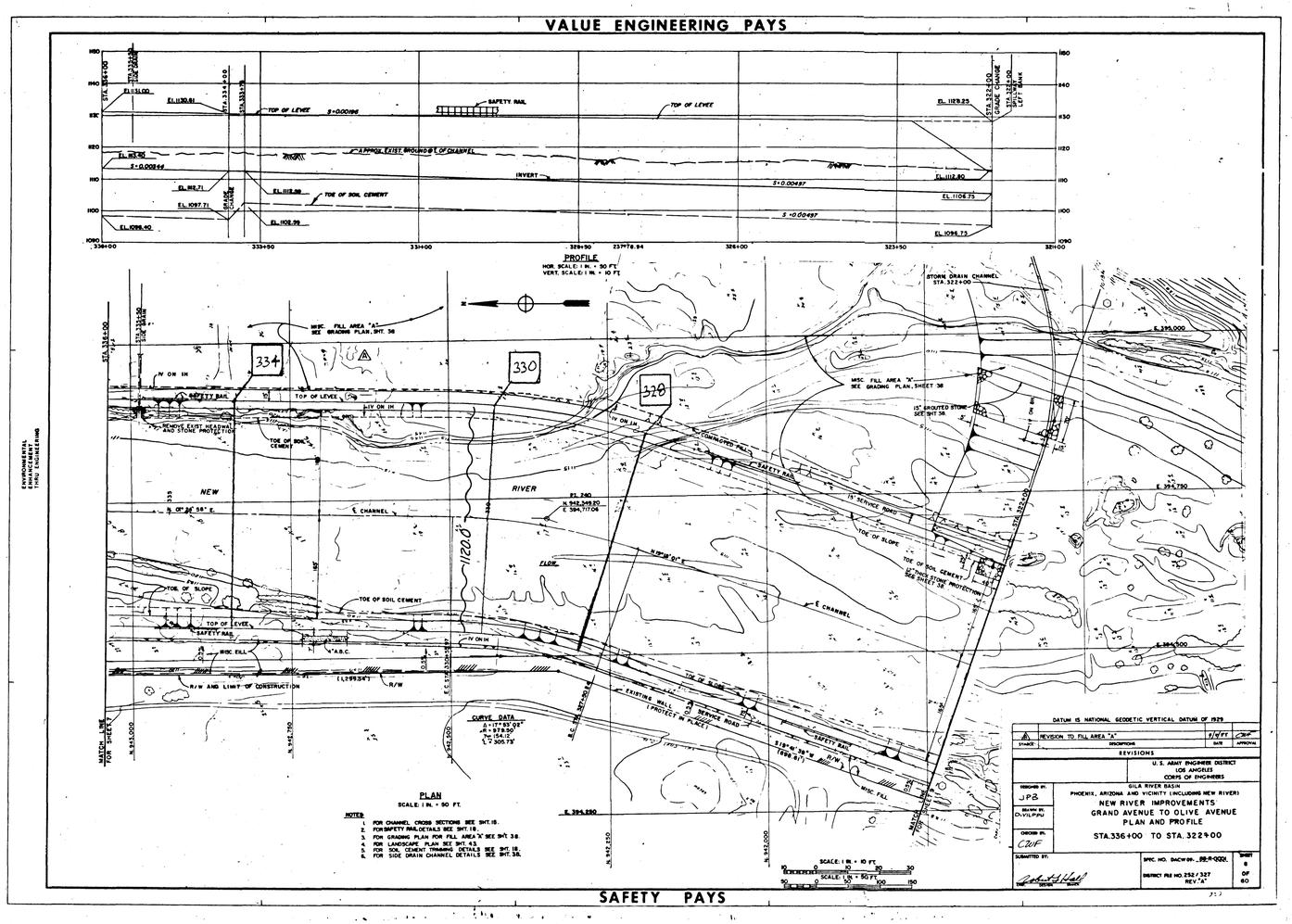
APPROVED BY: DATE:

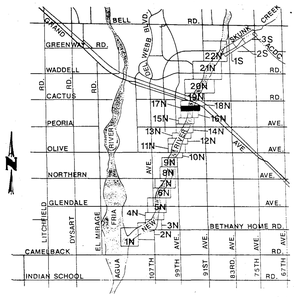
CHIEF ENGINEER & GENERAL MANAGER:

SHEET 16N OF 22N

DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

COE & VAN LOO CONSULTING ENGINEERING INC. PHOENIX ARIZONA





KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

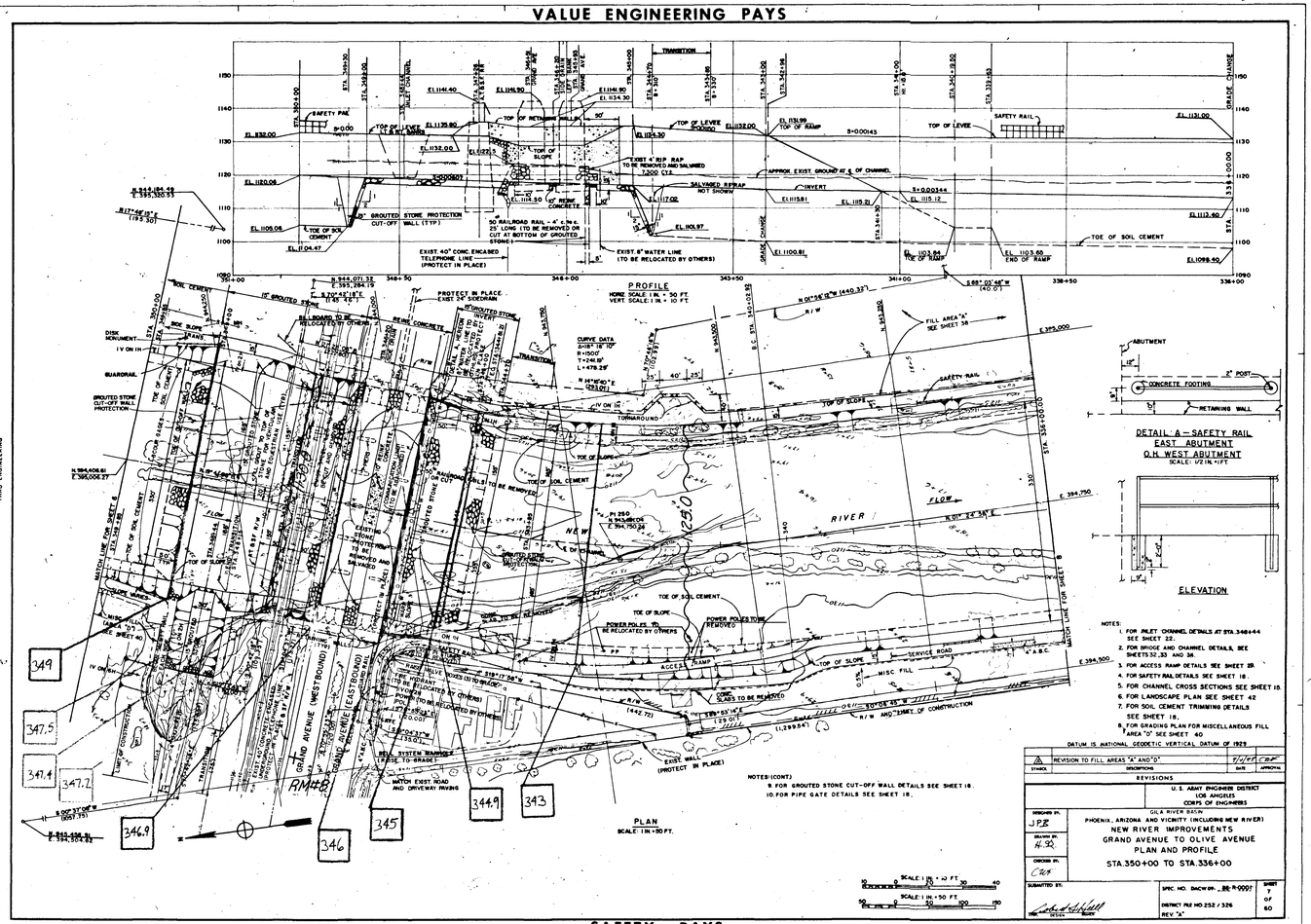
NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

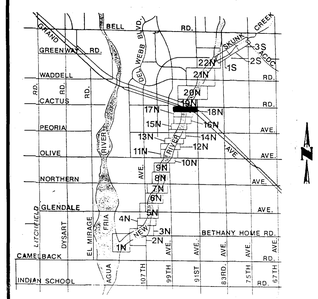
RECOMMENDED BY:			SHEET 17N OF 22N
APPROVED BY:		DATE:	
CHIEF ENGINEER & GENERAL MANAGER:			
DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX
ARIZONA

VALUE ENGINEERING PAYS



SAFETY PAYS



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 — STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 — CROSS-SECTION NUMBER
- + RM#4 — REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED BY:

APPROVED BY: DATE:

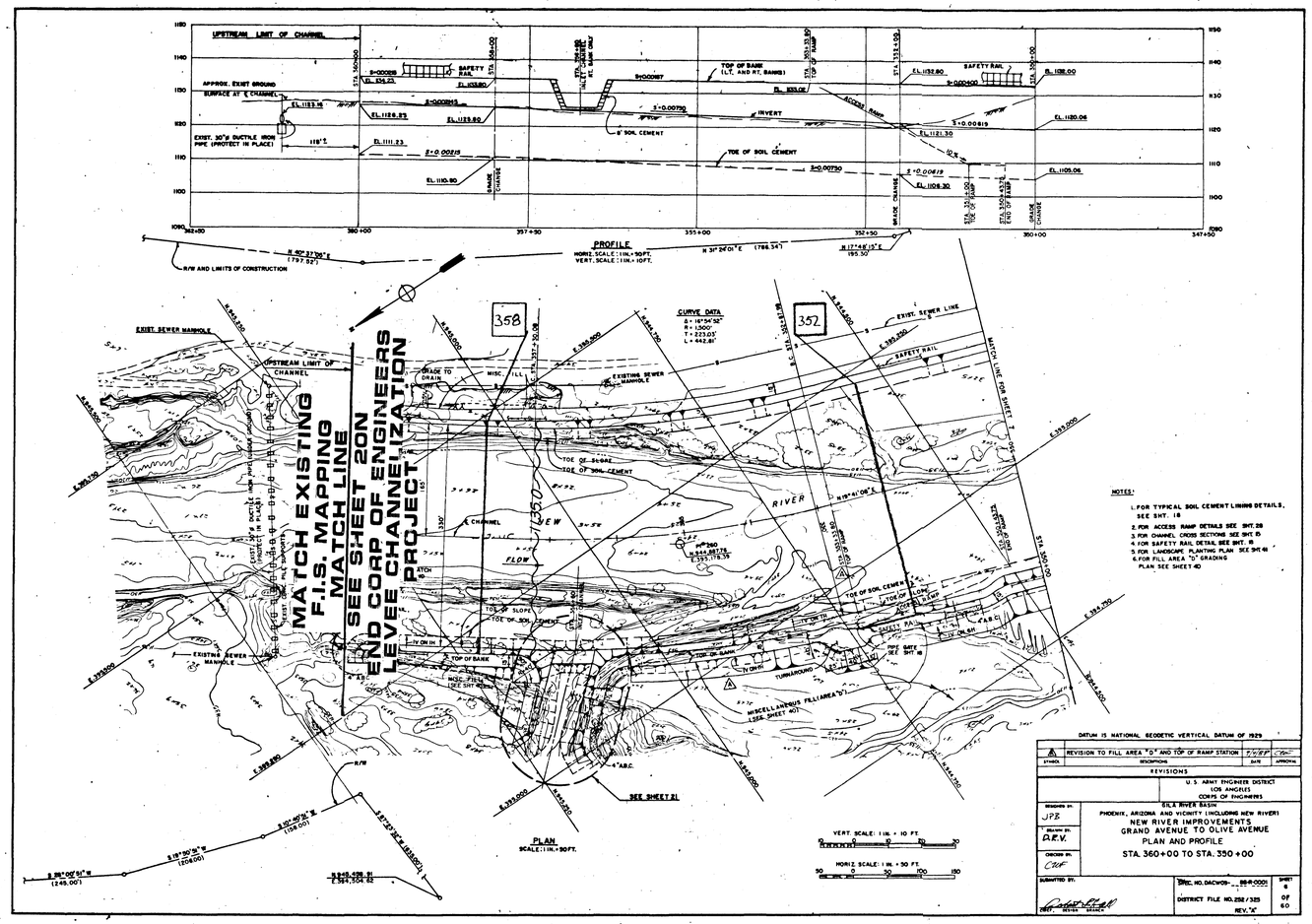
CHIEF ENGINEER & GENERAL MANAGER:

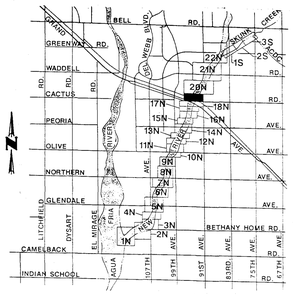
SHEET **18N** OF **22N**

DES. **GKH**	DR. **CS/NW**	CK. **DWD**	CVL JOB NO.
DATE **12/89**	DATE **12/89**	DATE **12/89**	**1090-04-01**

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX ARIZONA

16





LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED BY:

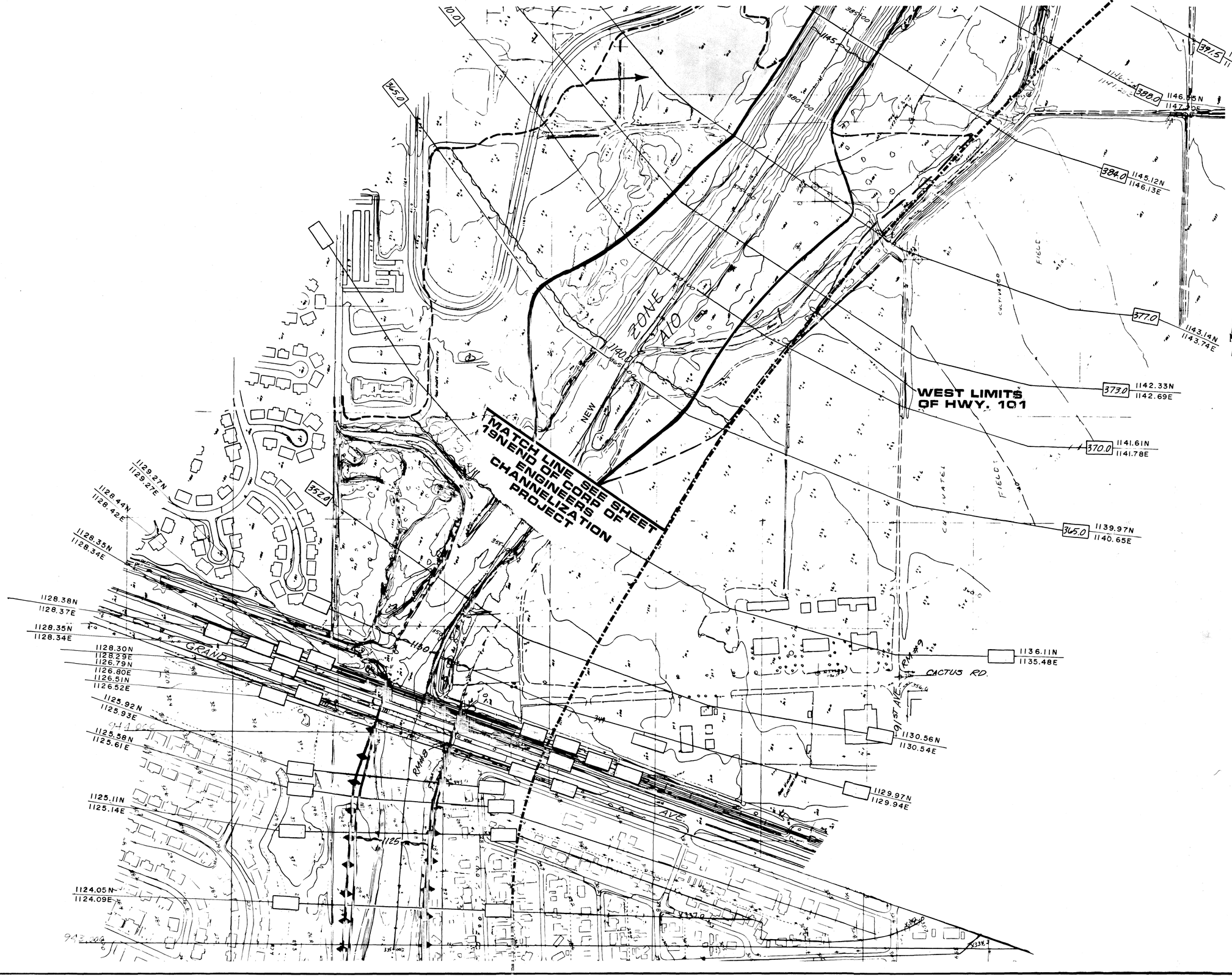
APPROVED BY: DATE:

CHIEF ENGINEER & GENERAL MANAGER:

SHEET 19N OF 22N

DES. GKH	DR. CS/NW	CK. DWD	CVL JOB NO.
DATE 12/89	DATE 12/89	DATE 12/89	1090-04-01

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX
ARIZONA



NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY:	AMCI
COMPILED BY:	AMCI
CONTROL BY:	USCE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED DATE:

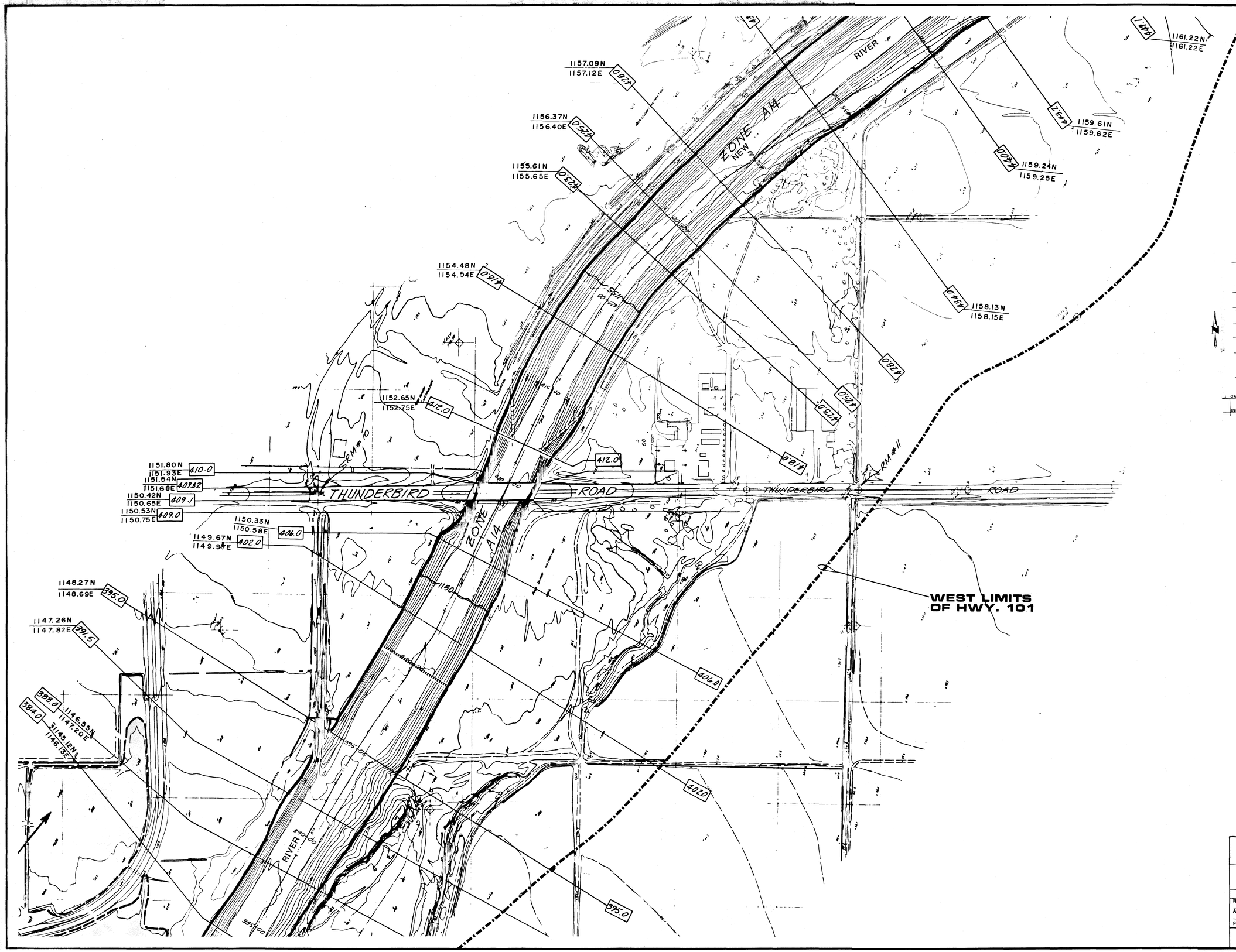
APPROVED BY: DATE:

FLOODPLAIN ADMINISTRATOR

20N OF 22N

COE & VAN LOO CONSULTING ENGINEERS INC. PHOENIX ARIZONA

CVL JOB NO. 1090-04-01 CVL JOB NO. 1090-02



0 200 400

CONTOUR INTERVAL 2 FEET

KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 CROSS-SECTION NUMBER
- + RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY: AMCI	
COMPILED BY: AMCI	
CONTROL BY: USCE	

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

NEW RIVER
FLOODPLAIN DELINEATION

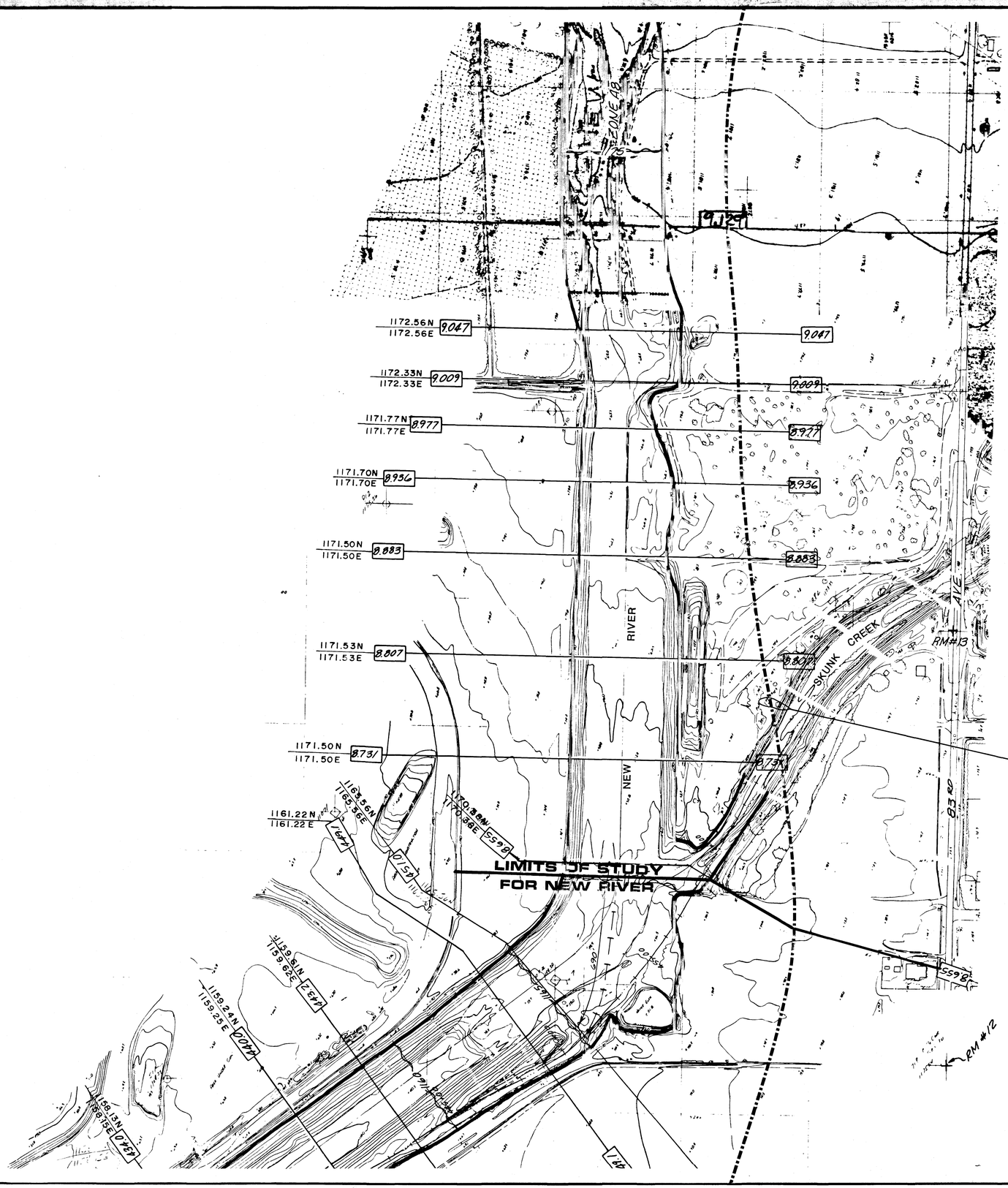
AGUA FRIA RIVER TO SKUNK CREEK

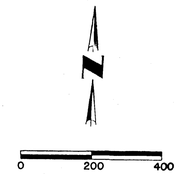
RECOMMENDED DATE:
APPROVED BY: DATE:
FLOODPLAIN ADMINISTRATOR

21N OF 22N

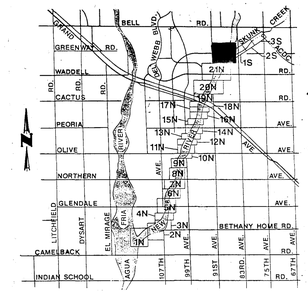
COE & VAN LOO PHOENIX ARIZONA
CONSULTING ENGINEERS INC.

CVL JOB NO. 1090-04-01 CVL JOB NO. 1090-02





CONTOUR INTERVAL 2 FEET



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 — STATIONING IN RIVER FEET UPSTREAM FROM AGUA FRIA RIVER
- 204.0 — CROSS-SECTION NUMBER
- + RM#4 — REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

NOTES

THIS FLOOD INSURANCE STUDY WORK MAP HAS BEEN PREPARED IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) GUIDELINES

THE STUDY HAS BEEN APPROVED BY FEMA BY LETTER DATED OCTOBER 9, 1987

MAP BASED ON 1" = 200' TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY, INC. FROM PHOTOGRAPHS TAKEN IN 1975 AND 1981

ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

NEW RIVER, ARIZONA

COMPILATION SCALE	1"=200'
CONTOUR INTERVAL	2'
FLIGHT ALTITUDE	6000'
DATUM MSL	1929
FLOWN BY: AMCI	
COMPILED BY: AMCI	
CONTROL BY: USCE	

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NEW RIVER FLOODPLAIN DELINEATION

AGUA FRIA RIVER TO SKUNK CREEK

RECOMMENDED _____ DATE: _____

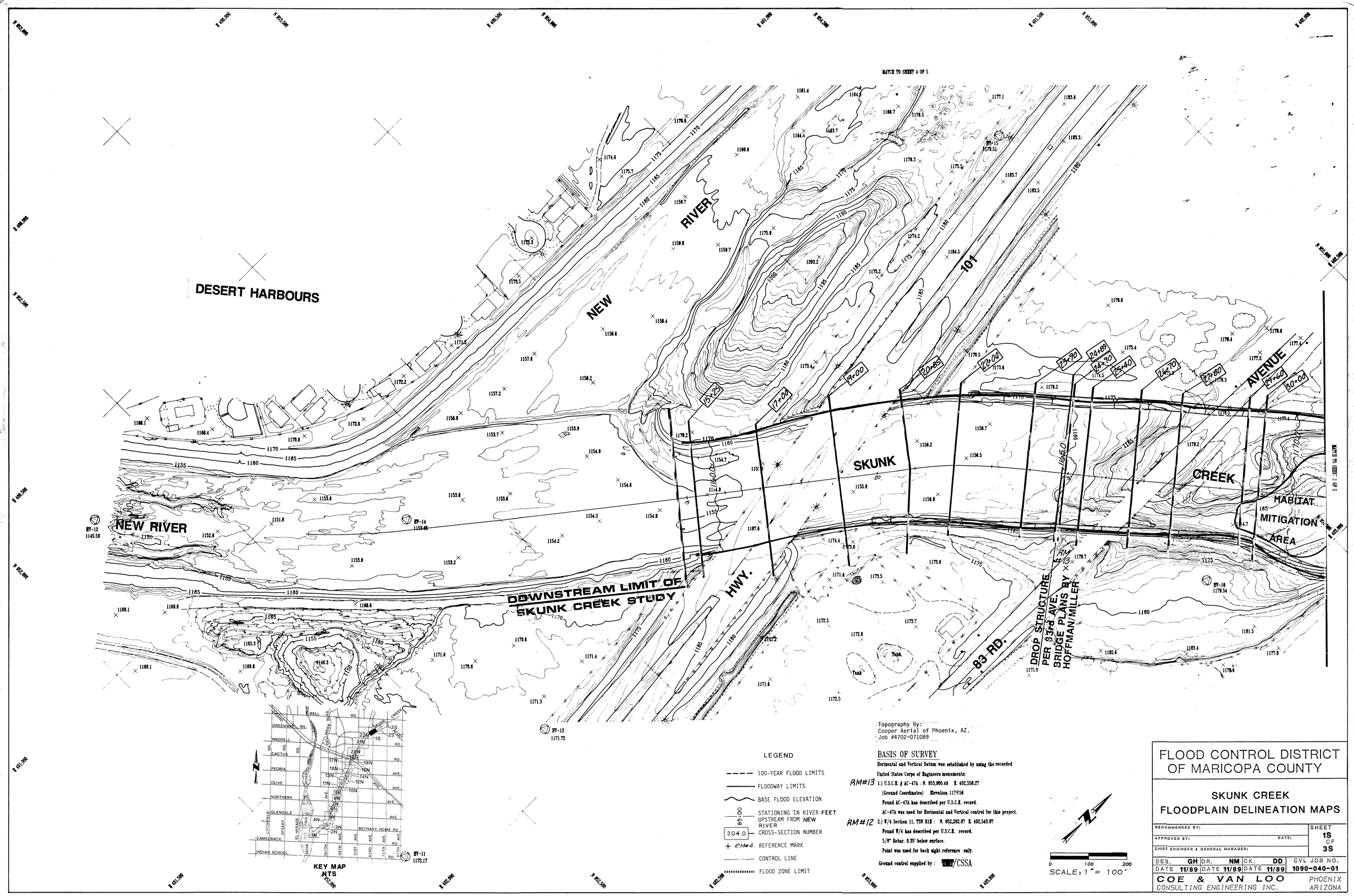
APPROVED BY: _____ DATE: _____

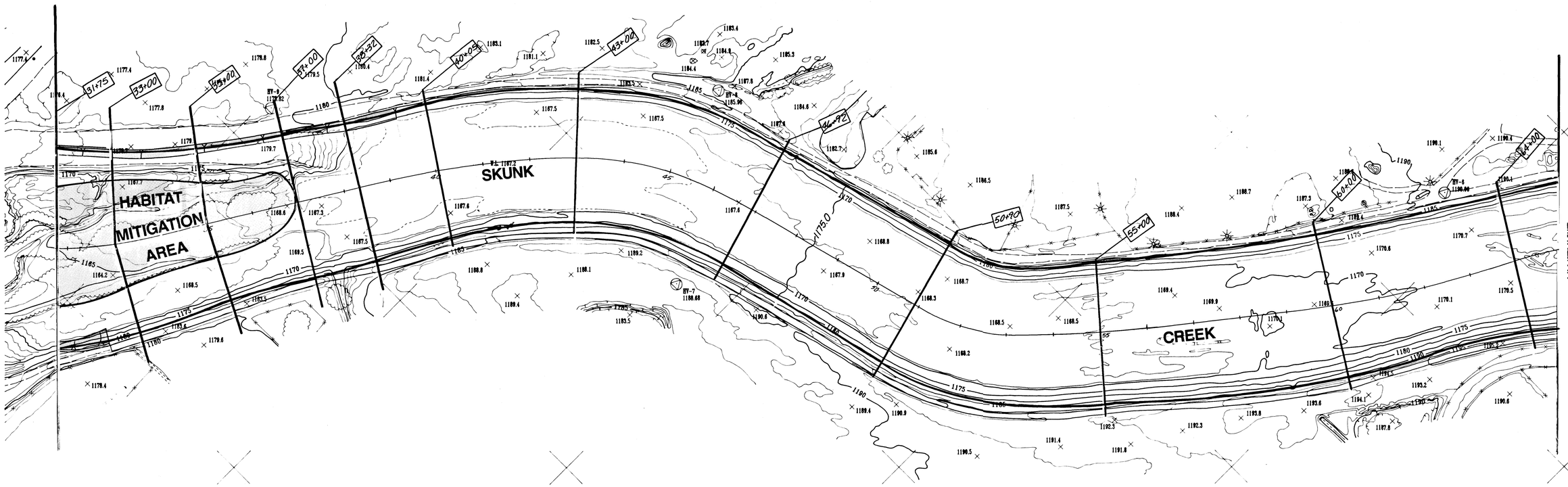
FLOODPLAIN ADMINISTRATOR

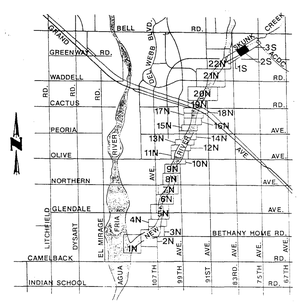
22N OF 22N

COE & VAN LOO CONSULTING ENGINEERS INC. PHOENIX ARIZONA

CVL JOB NO. 1090-04-01 CVL JOB NO. 1090-02


MATCH TO SHEET 4 OF 5
MATCH TO SHEET 2 OF 5
DESERT HARBOURS
NEW RIVER
NEW RIVER
SKUNK CREEK
HWY. 101
AVENUE
HABITAT MITIGATION AREA
DOWNSTREAM LIMIT OF SKUNK CREEK STUDY
83 RD.
DROP STRUCTURE PER 83rd AVE. BRIDGE PLANS BY HOFFMAN/MILLER
15+25
17+00
19+00
20+85
22+00
23+90
24+89
24+90
25+40
26+70
27+80
29+60
30+00
HV-12
1145.59
HV-14
1153.65
HV-13
1171.72
HV-11
1172.17
HV-10
1179.54
KEY MAP
NTS
LEGEND
100-YEAR FLOOD LIMITS
FLOODWAY LIMITS
BASE FLOOD ELEVATION
STATIONING IN RIVER FEET UPSTREAM FROM NEW RIVER
CROSS-SECTION NUMBER
REFERENCE MARK
CONTROL LINE
FLOOD ZONE LIMIT
Topography By:
Cooper Aerial of Phoenix, AZ.
Job #4702-071089
BASIS OF SURVEY
Horizontal and Vertical Datum was established by using the recorded United States Corps of Engineers monuments:
RM#13 1.) U.S.C.E. # AC-47A : N. 953,900.49 E. 402,558.27
(Ground Coordinates) Elevation 1179.56
Found AC-47A has described per U.S.C.E. record.
AC-47A was used for Horizontal and Vertical control for this project.
RM#12 2.) W/4 Section 11, T3N R1E : N. 952,202.87 E. 402,543.87
Found W/4 has described per U.S.C.E. record.
5/8" Rebar. 0.35' below surface.
Point was used for back sight reference only.
Ground control supplied by : /CSSA
0 100 200
SCALE: 1" = 100'
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
SKUNK CREEK
FLOODPLAIN DELINEATION MAPS
RECOMMENDED BY:
APPROVED BY: DATE:
CHIEF ENGINEER & GENERAL MANAGER:
SHEET 1S OF 3S
DES. GH DR. NM CK. DD CVL JOB NO.
DATE 11/89 DATE 11/89 DATE 11/89 1090-040-01
COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX ARIZONA





KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 — STATIONING IN RIVER FEET UPSTREAM FROM NEW RIVER
- 204.0 — CROSS-SECTION NUMBER
- RM#4 — REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

0 100 200
SCALE: 1" = 100'

Topography By:
Cooper Aerial of Phoenix, AZ.
Job #4702-071089

BASIS OF SURVEY

Horizontal and Vertical Datum was established by using the recorded United States Corps of Engineers monuments:

1.) U.S.C.R. # AC-47A : N. 953,900.49 E. 402,558.27
(Ground Coordinates) Elevation 1179.56
Found AC-47A has described per U.S.C.R. record.
AC-47A was used for Horizontal and Vertical control for this project.

2.) W/4 Section 11, T3N R1E : N. 952,282.87 E. 402,543.87
Found W/4 has described per U.S.C.R. record.
5/8" Rebar. 0.35' below surface.
Point was used for back sight reference only.

Ground control supplied by : [redacted]/CSSA

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

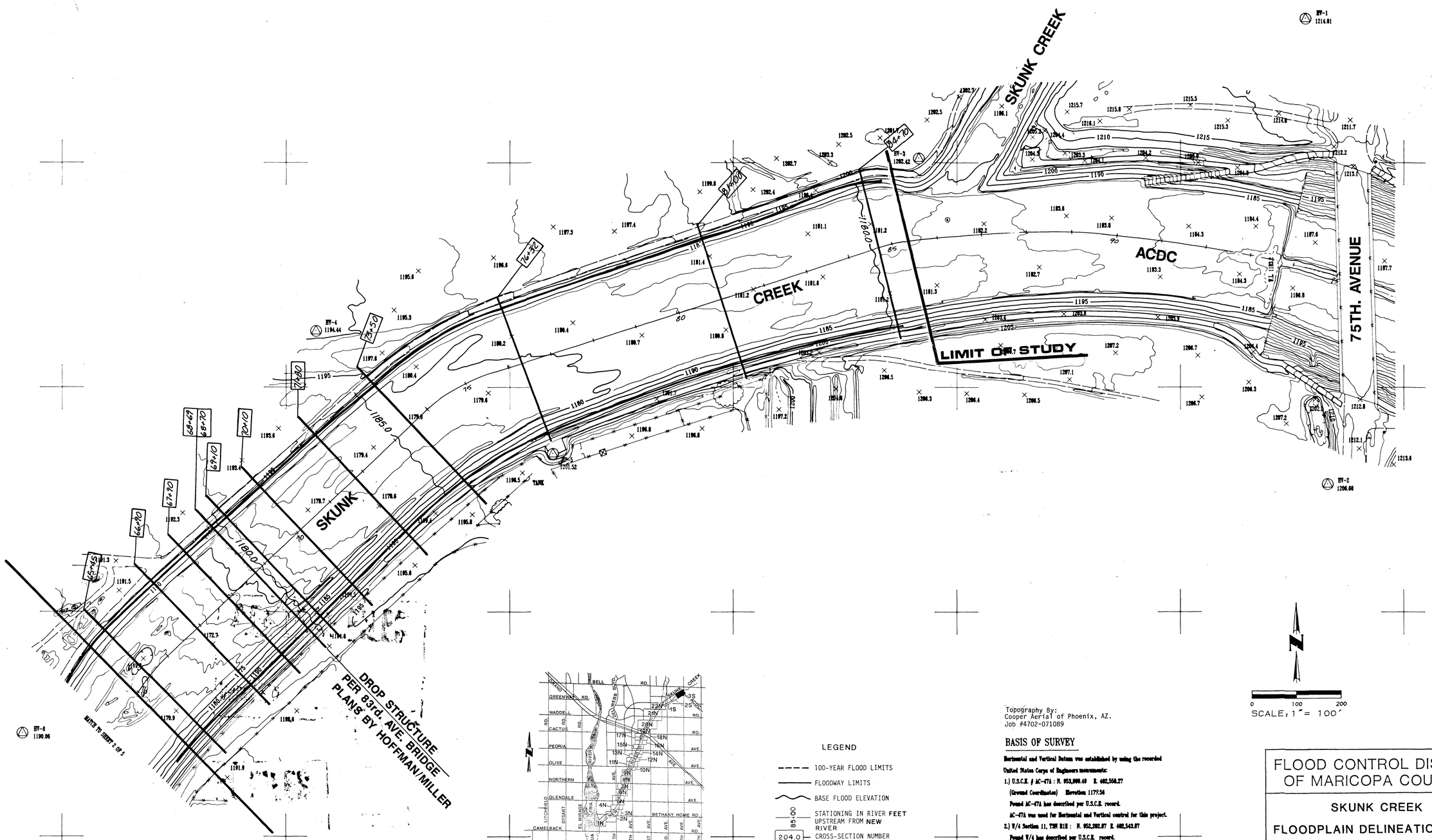
SKUNK CREEK FLOODPLAIN DELINEATION MAPS

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

SHEET 2S OF 3S

DES. GH	DR. NM	CK. DD	CVL JOB NO.
DATE 11/89	DATE 11/89	DATE 11/89	1090-040-01

COE & VAN LOO
CONSULTING ENGINEERING INC
PHOENIX ARIZONA



KEY MAP
NTS

LEGEND

- 100-YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- BASE FLOOD ELEVATION
- 85.00 STATIONING IN RIVER FEET UPSTREAM FROM NEW RIVER
- 204.0 CROSS-SECTION NUMBER
- RM#4 REFERENCE MARK
- CONTROL LINE
- FLOOD ZONE LIMIT

Topography By:
Cooper Aerial of Phoenix, AZ.
Job #4702-071089

BASIS OF SURVEY

Horizontal and Vertical Datum was established by using the recorded United States Corps of Engineers monuments:

1.) U.S.C.E. # AC-47A : N. 953,900.49 E. 402,558.27
(Ground Coordinates) Elevation 1179.56
Found AC-47A has described per U.S.C.E. record.
AC-47A was used for Horizontal and Vertical control for this project.

2.) W/4 Section 11, T2N R1E : N. 952,282.87 E. 402,543.87
Found W/4 has described per U.S.C.E. record.
5/8" Rebar. 0.25' below surface.
Point was used for back sight reference only.

Ground control supplied by : /CSSA

N

0 100 200
SCALE: 1" = 100'

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

SKUNK CREEK

FLOODPLAIN DELINEATION MAPS

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

SHEET 3S OF 3S

DES. GH	DR. NM	CK. DD	CVL JOB NO.
DATE 11/89	DATE 11/89	DATE 11/89	1090-040-01

COE & VAN LOO
CONSULTING ENGINEERING INC.
PHOENIX ARIZONA