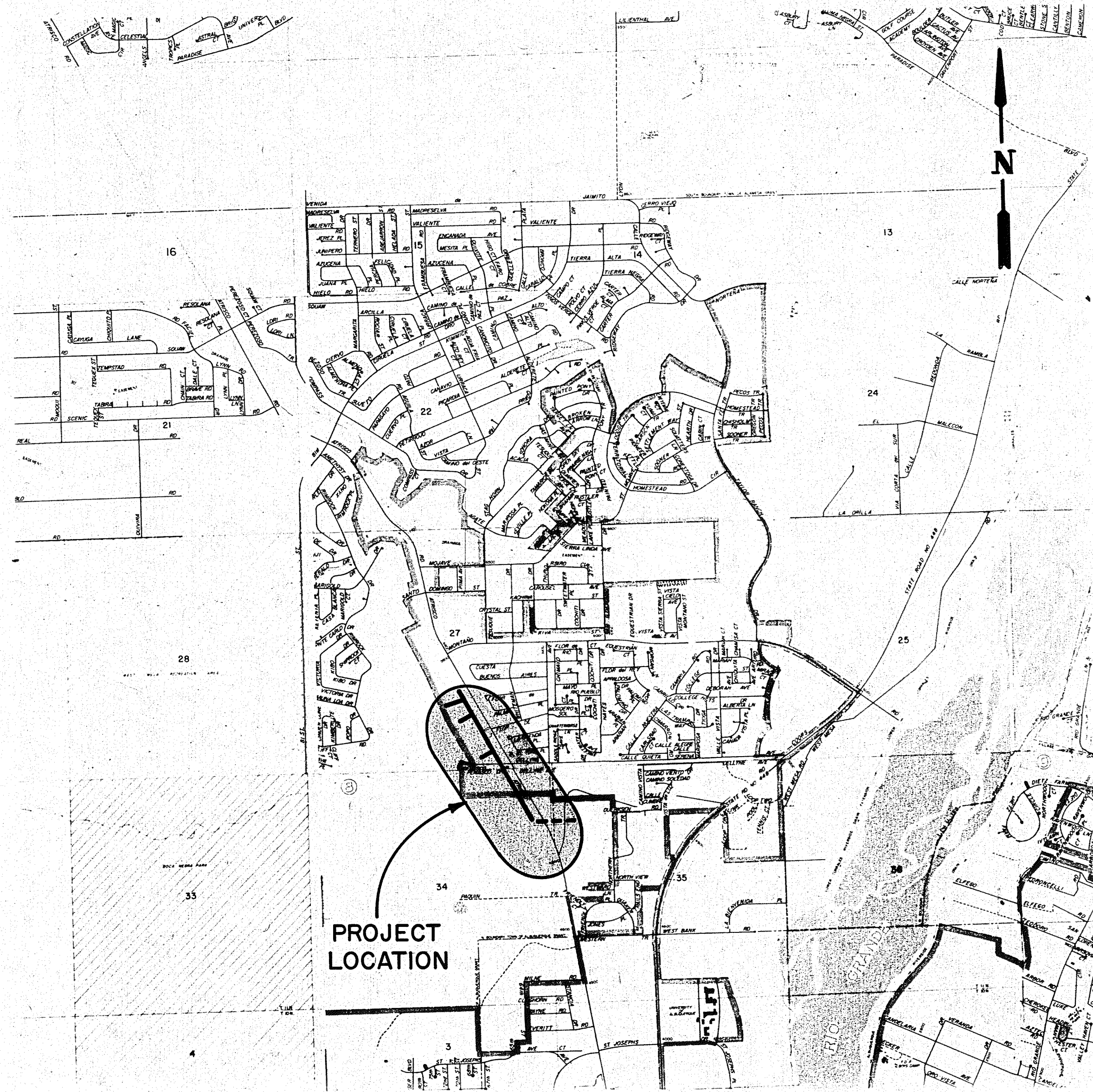




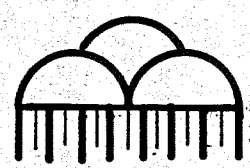
INDEX

COVER SHEET	1
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DETAIL SHEET	11
EARTHWORK SECTIONS	12-15

SAN ANTONIO ARROYO
CHANNEL IMPROVEMENTS

FROM ATRISCO DR. TO BOGART ST.

PREPARED FOR:

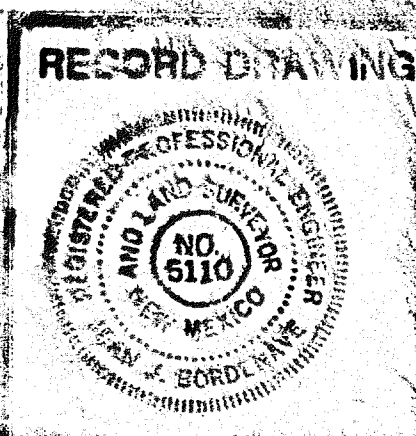


ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY

PREPARED BY:

DMJM/AHA
5700 HARPER N.E.
ALBUQUERQUE, NEW MEXICO 87109

08 002 0485

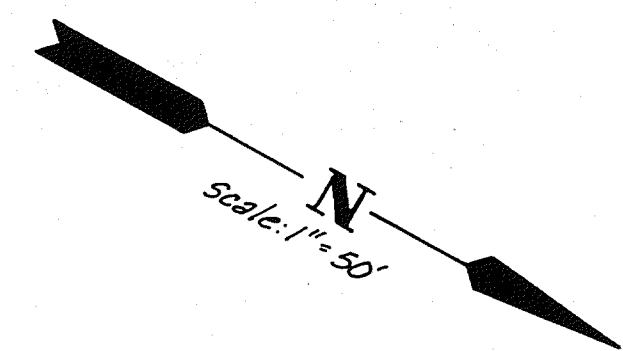


EXECUTIVE ENG. - A.M.A.F.C.A. DATE

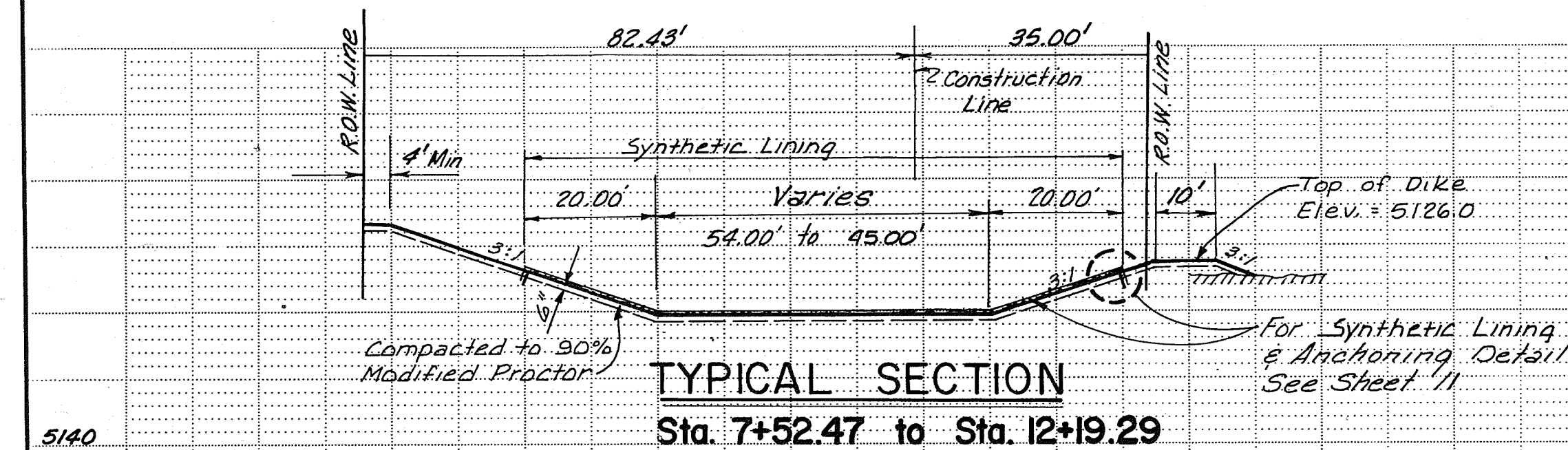
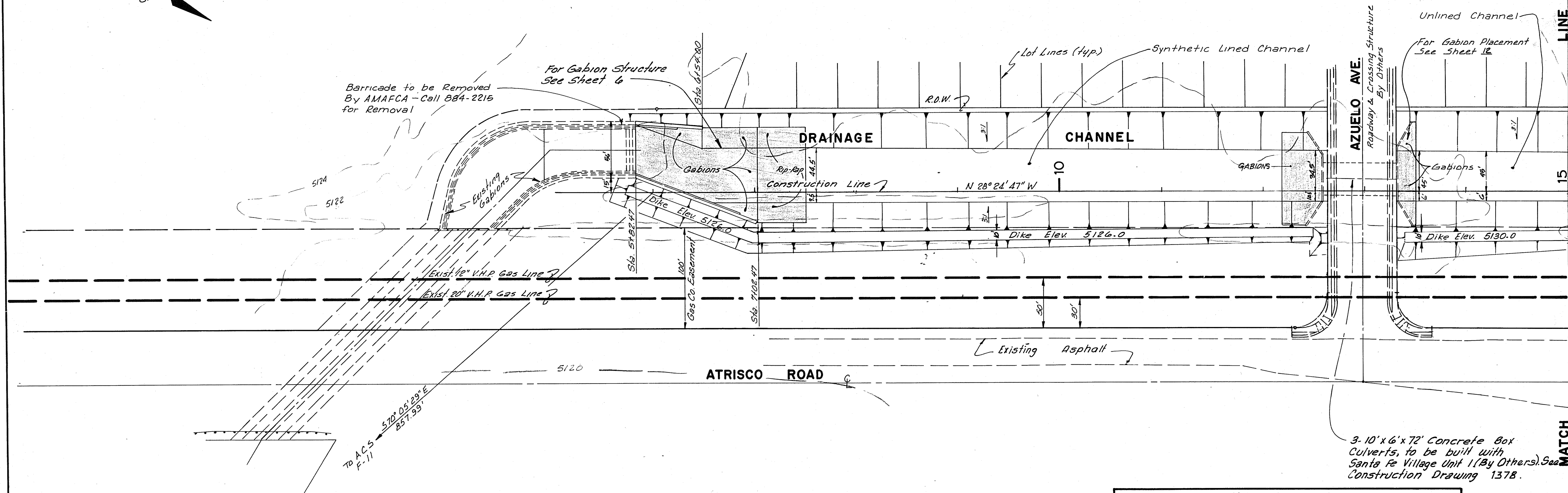


PLANS PREPARED UNDER THE
DIRECTION OF

David J. Bordin
CONSULTING ENGINEER 1/15/85
DATE



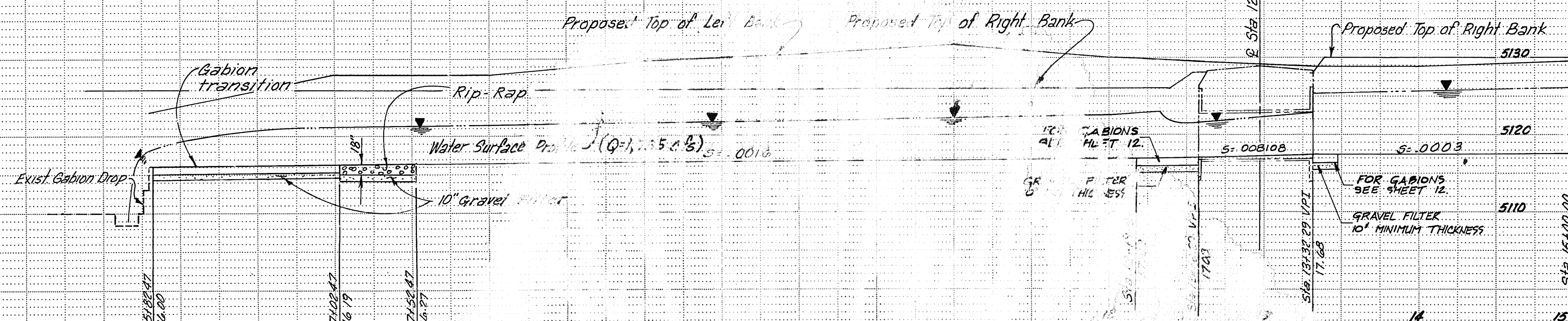
SANTA FE VILLAGE UNIT-1



HYDRAULIC DATA					
Station	Water (Ft) Depth	Area (S.F.)	W.P. (Ft)	V (FPS)	Water Surface Elev.
7+00	4.98	345.81	88.97	5.02	21.16
8+00	5.03	345.01	88.29	5.03	21.37
9+00	5.20	341.12	82.84	5.09	21.70
10+00	5.25	339.94	82.18	5.10	21.91
11+00	5.44	336.30	79.28	5.16	22.27
12+00	5.64	339.62	78.61	5.20	22.53
14+00	8.24	611.57	101.58	2.84	25.94
15+00	8.98	608.72	100.44	2.85	26.11

Channel 5.5:3.1; Q₁₀₀ 1735 cfs (Based on Runoff Hydrograph by Denny Cross Assoc., Inc. 03)
Channel Base is variable (see cross-section); Channel Slope (see profile)

NOTE: Channel Earthwork has been done by others. Final shaping & composition of channel to be done under this contract.



RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

CHANNEL "A"

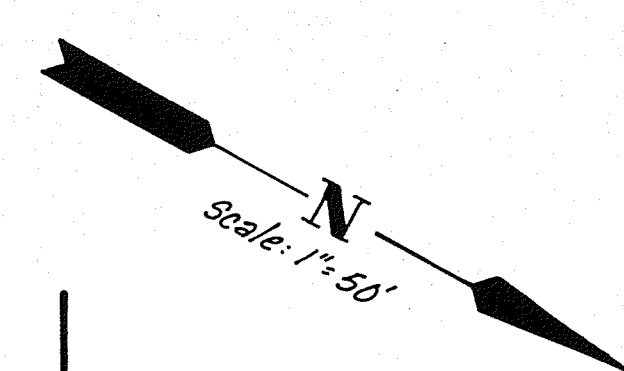
STA. 6+00 to 15+00

SAN ANTONIO ARROYO

08 002 0385

DRAWING NO.

SHEET 3



- (1) SW R. CONC. BOX ELEV. @ 29.12

(2) SE R. CONC. BOX ELEV. @ 29.09

(3) NE CORNER RIP-RAP ELEV. @ 33.7

(4) R. RIP-RAP @ CATION ELEV. @ 23.6

(5) TOP RIP-RAP @ SE CORNER ELEV. @ 34.7

(6) TOP RIP-RAP ELEV. @ 33.5, ANGLE PT.

(7) R. RIP-RAP ELEV. @ 29.0, ANGLE PT.
- (8) R. RIP-RAP ELEV. @ 28.4, ANGLE PT.

(9) RIP-RAP ELEV. @ 28.0, ANGLE PT.

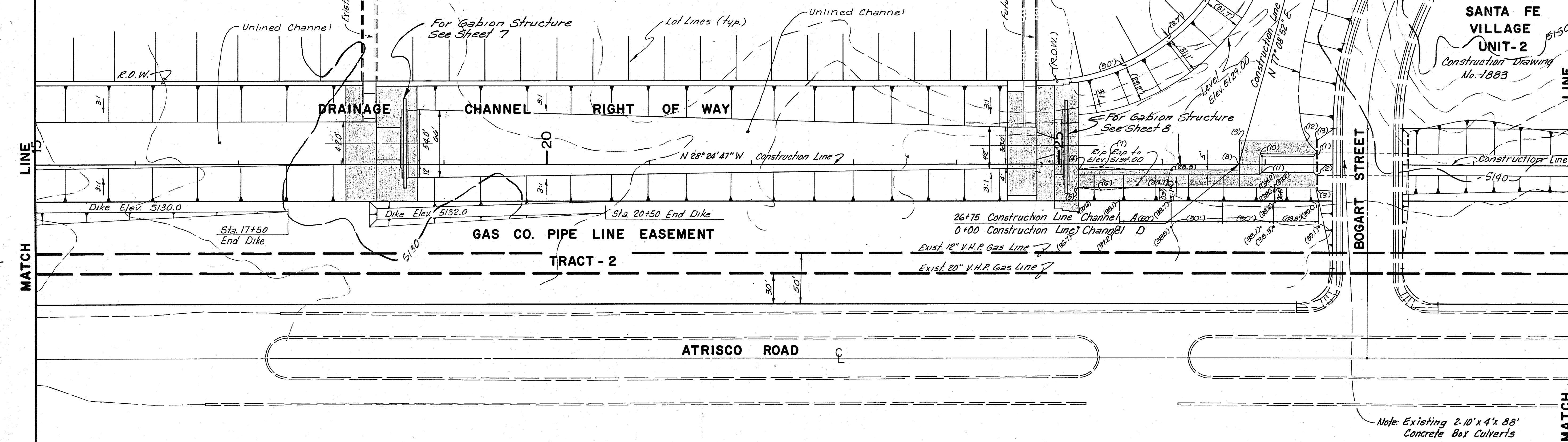
(10) INSIDE R. RIP-RAP ELEV. @ 21.4

(11) INSIDE R. RIP-RAP ELEV. @ 26.6

(12) TOE OF RIP-RAP ELEV. @ 23.1

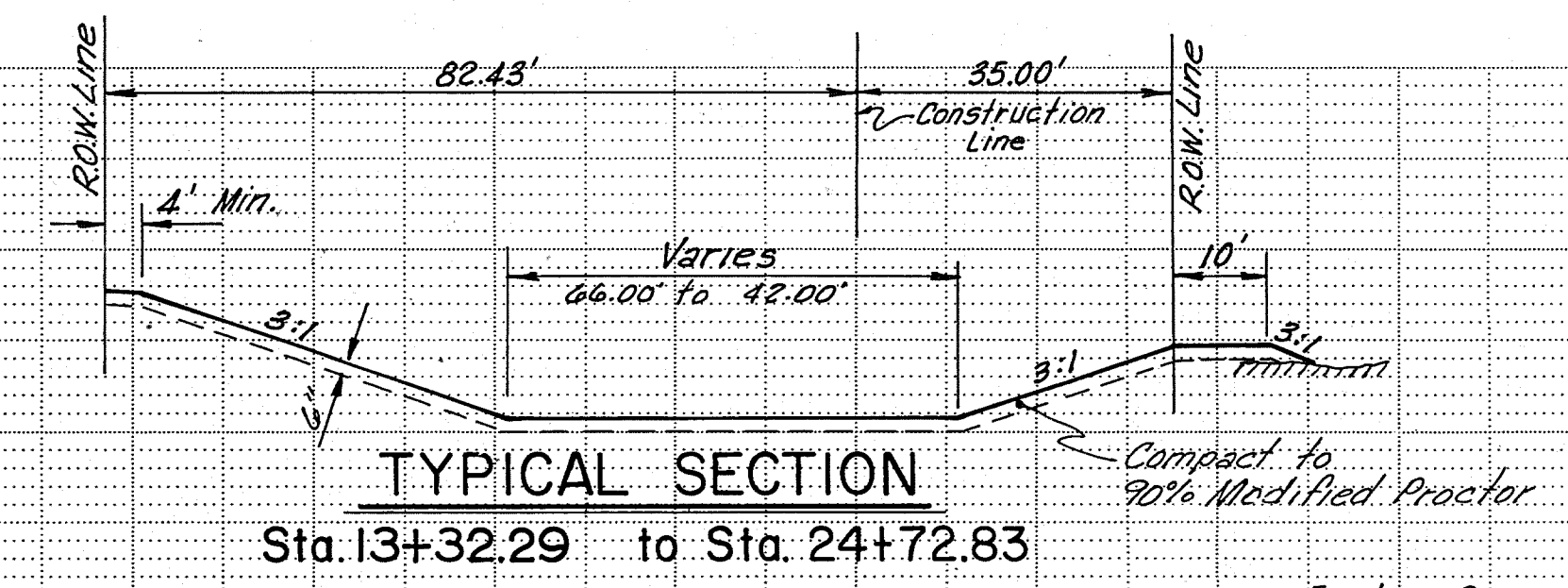
(13) NW CORNER RIP-RAP ELEV. 35.6 (TOP)

SANTA FE VILLAGE UNIT - I
Construction Drawing No. 1378



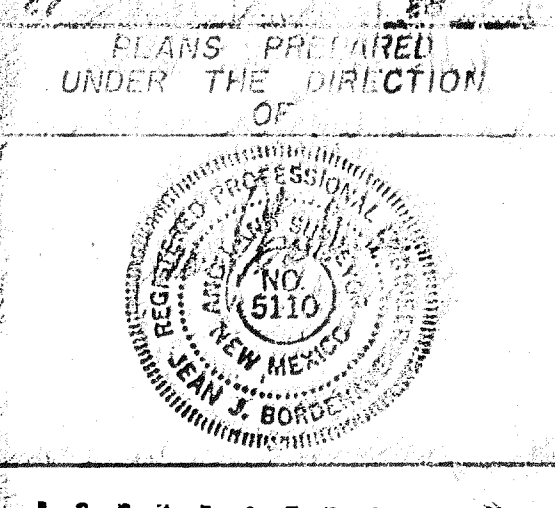
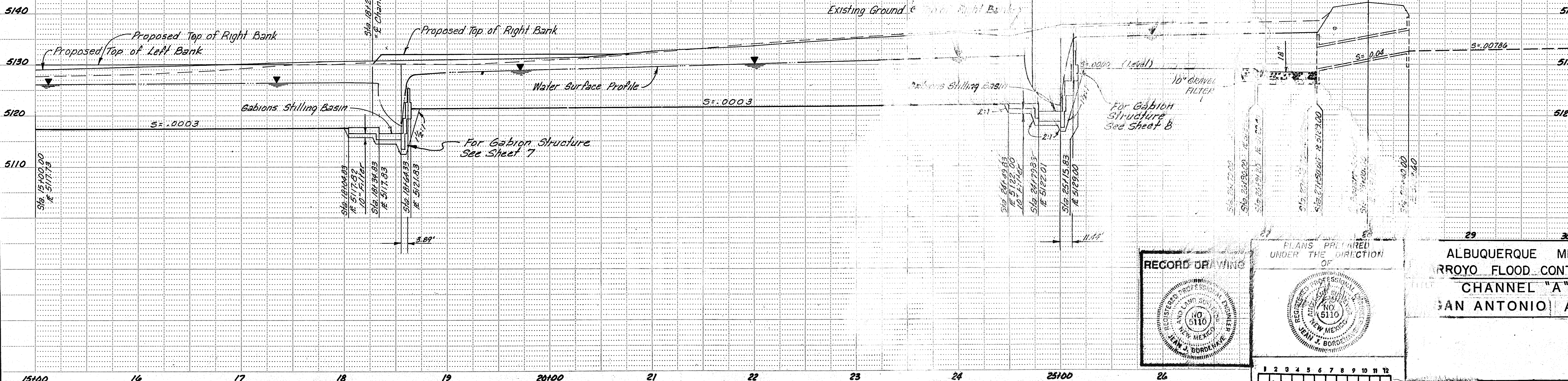
Note: Existing 2'-10" x 4' x 8' Concrete Box Culverts

NOTE
Channel Earthwork has been done by others. Final shaping & composition of channel to be done under this Contract.



HYDRAULIC DATA					
Station	Water (Ft.) Depth	Area (S.F.)	W.P. (Ft.)	V (FPS.)	Water Surface Elev.
15+00	8.38	608.72	100.46	2.85	26.11
16+00	8.33	606.40	99.91	2.86	26.29
17+00	8.40	609.58	98.85	2.87	26.39
18+00	8.74	628.51	97.86	2.88	26.58
19+00	6.74	573.64	111.07	2.87	28.58
20+00	7.15	587.59	107.84	2.88	29.02
21+00	7.62	605.18	104.74	2.90	29.52
22+00	8.11	622.28	102.58	2.93	30.04
23+00	8.78	654.81	99.40	2.96	30.71
24+00	9.14	653.14	96.44	2.99	31.13

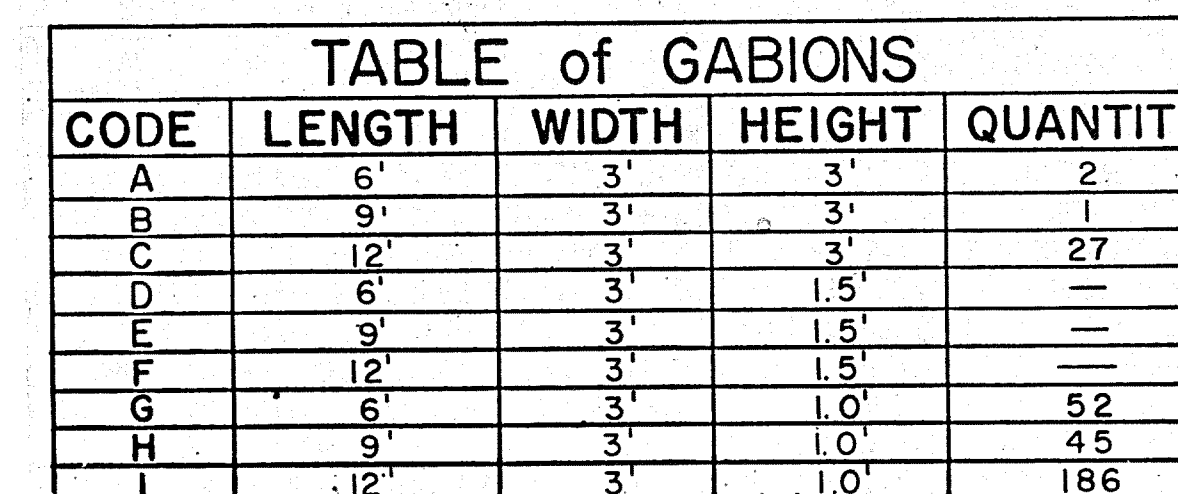
Channel Slope: 1:100 (Based on Runoff Hydrograph by Denny Cross & Associates)
Channel Slope: 1:100 (See cross-section; Channel Slope (See profile))



ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY
CHANNEL "A" Sta. 15+00 to 27+50
SAN ANTONIO ARROYO

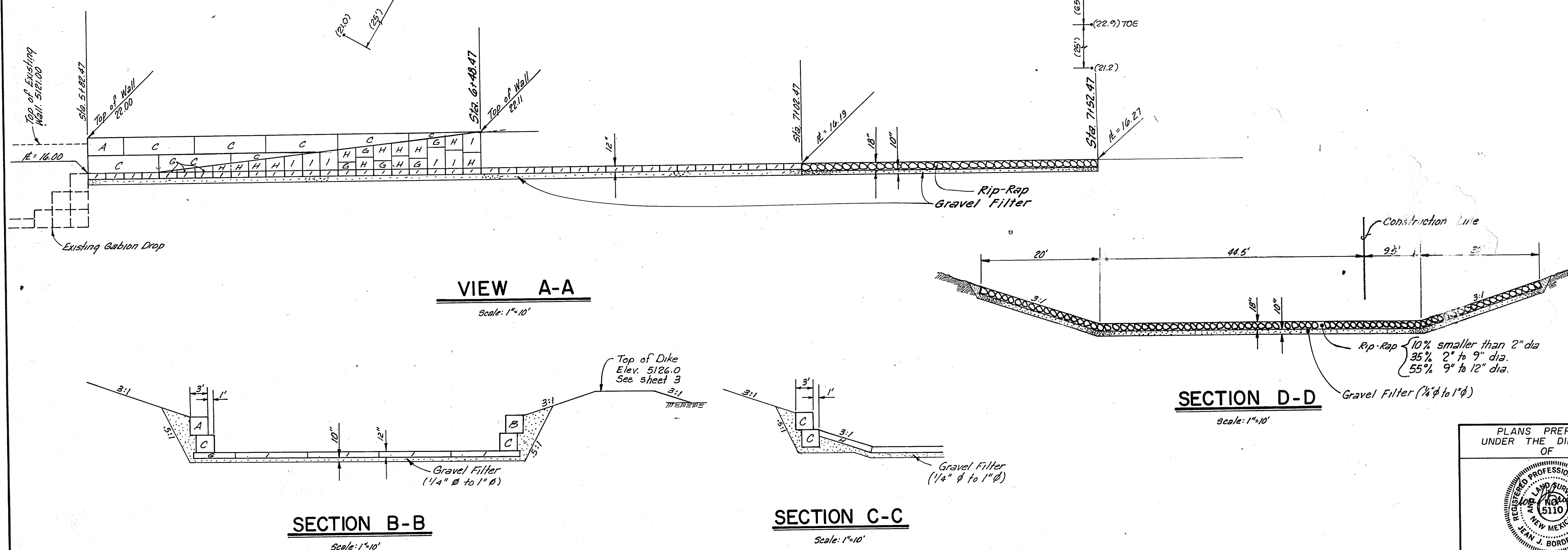
08 002 0485

SURVEY INFORMATION				AS BUILT INFORMATION			
CONTRACTOR	WORK ORDER	DATE	DATE	CONTRACTOR	WORK ORDER	DATE	DATE
AC3 1/4" E-10	Elev. 5134.777						
FIELD NOTES	BY	DATE	DATE	FIELD NOTES	BY	DATE	DATE
REFERENCES	MAP NO. E-10	EST. NO.	W.O. NO.	REFERENCES	MAP NO. E-10	EST. NO.	W.O. NO.
REVISIONS	NO.	DATE	REMARKS	REVISIONS	NO.	DATE	REMARKS

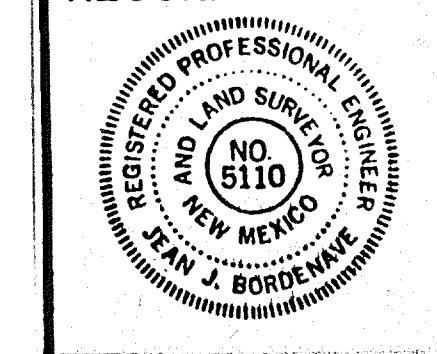


- (1) NW CORNER CABION, SW CORNER RIP-RAP, ELEV.@ 22.9
- (2) NW CORNER RIP-RAP, ELEV.@ 23.5
- (3) NE CORNER RIP-RAP, ELEV.@ 22.9
- (4) NE CORNER RIP-RAP, SE CORNER RIP-RAP, ELEV.@ 22.5
- (5) TOP NE SLOPE @ INSIDE VERT STEP, LAST CABION EAST, ELEV.@ 21.2
- (6) ELEV. OF CABION, ELEV.@ 16.5
- (7) ANGLE PT. NOT SHOWN ON PLANS, TOP/TOP BASKET @ 22.4, TOP BASKET @ 19.4, ELEV.@ 16.4
- (8) TOP BASKET @ 22.4, TOP SLOPE @ 10.3, ELEV.@ 16.8
- (9) HIGH ELEV.@ 22.9, LOW ELEV.@ 21.2
- (10) SW END NEW CABION, ELEV.@ 22.7
- (11) SW ELEV. OF NEW CONST. ELEV.@ 17.0
- (12) INSIDE BASKET UNDER TOP BASKET ELEV.@ TOP 19.8, ELEV.@ 16.4, TOP OUTSIDE TOP BASKET 23.1
- (13) SE CORNER OF 1ST BASKET UNDER TOP BASKET, ELEV.@ 19.8
- (14) ELEV. OF CABION, ELEV.@ 16.6, TOP SLOPE @ 18.8, TOP BASKET @ 19.9, TOP/TOP BASKET @ 23.0
- (15) ELEV. OF CABION, ELEV.@ 17.0
- (16) ELEV. OF CABION ELEV.@ 17.4
- (17) SE ELEV. OF CABION, ELEV.@ 16.6, TOP STEP @ 19.7, TOP/TOP BASKET @ 22.6
- (18) TOP ANGLE PT., ELEV.@ 22.0
- (19) TOP OUTSIDE NEW CABION, ELEV.@ 22.7
- (20) END BOTTOM CABION UNDER TOP BASKET, ELEV.@ 19.9 STEPDOWN TOP CABION @ 18.2

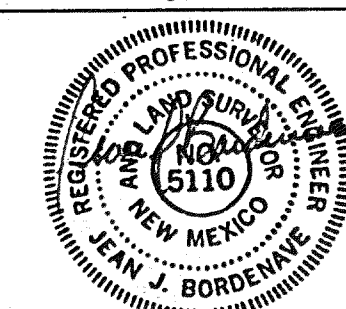
(2) to (3) = 93.5'
(1) to (2) = 47.7'
(1) to (5) = 88.0'
(5) to (8) = 33.6'
(4) to (7) = 59.9'
(9) to (10) = 100.7'
(12) to (13) = 60.5'
(14) to (15) = 26.0'
(14) to (16) = 89.5'
(11) to (17) = 47.4'
(19) to (18) = 9.0'
(7) to (18) = 70.6'



RECORD DRAWING



PLANS PREPARED
UNDER THE DIRECTION
OF



1	2	3	4	5	6	7	8	9	10	11
0	8		0	0	2		0	6	8	5

ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY

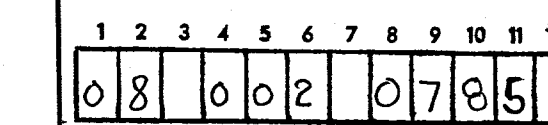
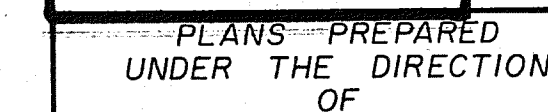
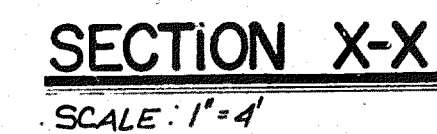
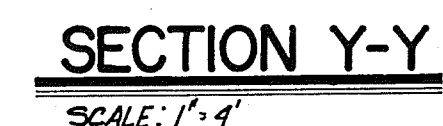
TITLE: GABION TRANSITION
STA. 5+82.47 CHANNEL "A"
SAN ANTONIO ARROYO

DRAWING
NO.

SHEET 6 OF 6



- | CODE | LENGTH | WIDTH | HEIGHT | QUANTITY |
|------|--------|-------|--------|----------|
| A | 6' | 3' | 3' | 23 |
| B | 9' | 3' | 3' | 5 |
| C | 12' | 3' | 3' | 14 |
| D | 6' | 3' | 1.5' | 26 |
| E | 9' | 3' | 1.5' | 13 |
| F | 12' | 3' | 1.5' | 80 |
| G | 6' | 3' | 1' | 14 |
| H | 9' | 3' | 1' | 15 |
| I | 12' | 3' | 1' | 74 |



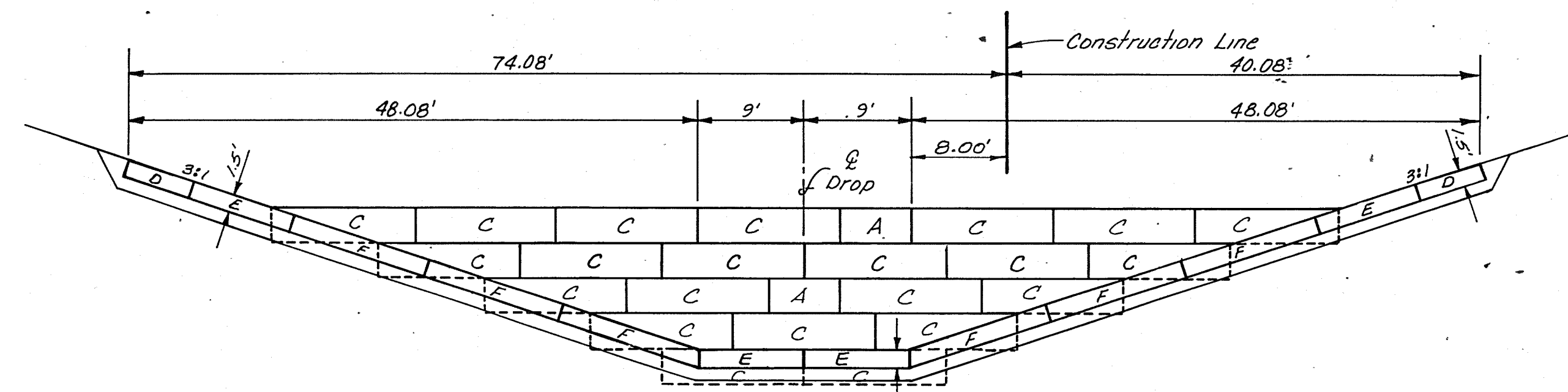
TITLE: GABION DROP
STA. 18+27.83 CHANNEL "A"
SAN ANTONIO ARROYO

DRAWING
NO.

SHEET 7 OF 10

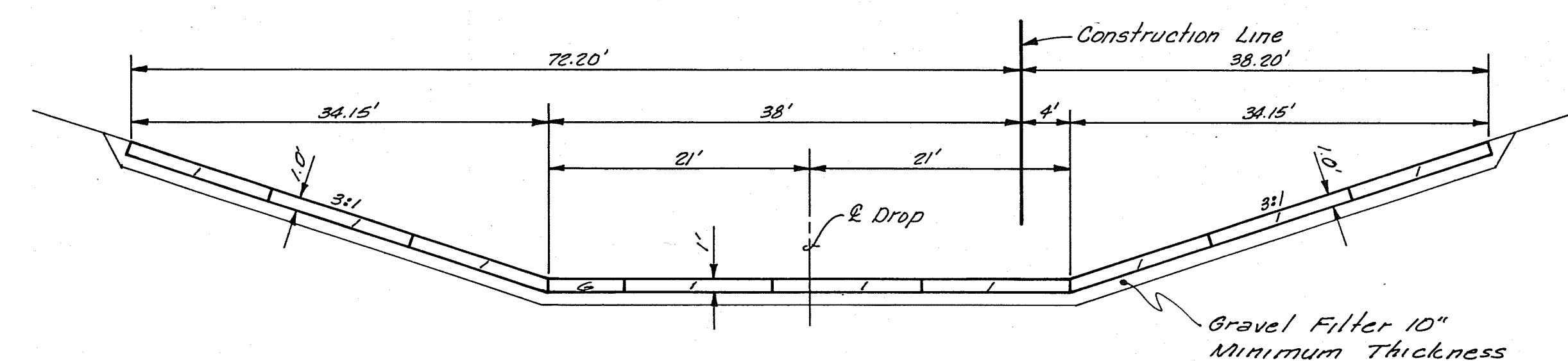
[illegible]

- (1) TOP SW END OF CATION, ELEV.@ 33.6
- (2) TOP OUTSIDE CATION, ELEV @ 36.1
- (3) TOP NW END OF CATION, ELEV. @ 35.9
- (4) TOP SE END OF CATION, ELEV.@ 32.2
- (5) TOP OUTSIDE CATION, ELEV. @ 32.6
- (6) TOP NE END OF CATION, ELEV. @ 37.4
- (7) IE NW COR. CONC. ROUNDOFF, ELEV. @ 31.37--SEC. R.R.
- (8) IE NE COR. CONC. ROUNDOFF, ELEV. @ 21.99--SEC. R.R.
- (9) TOP OUTSIDE CATION, ELEV. @ 35.8

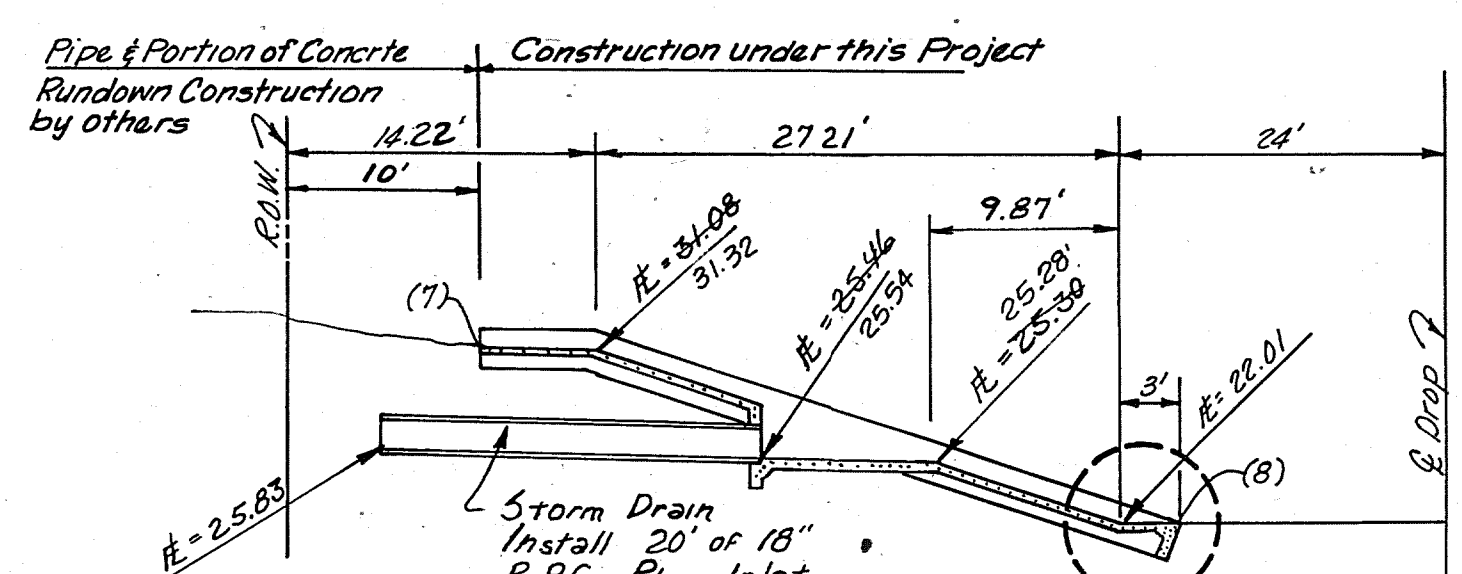


SECTION Q-Q

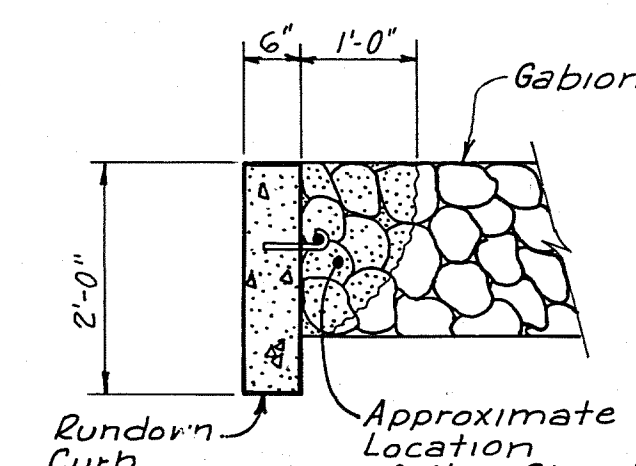
VIEW P-P



SECTION 0-C



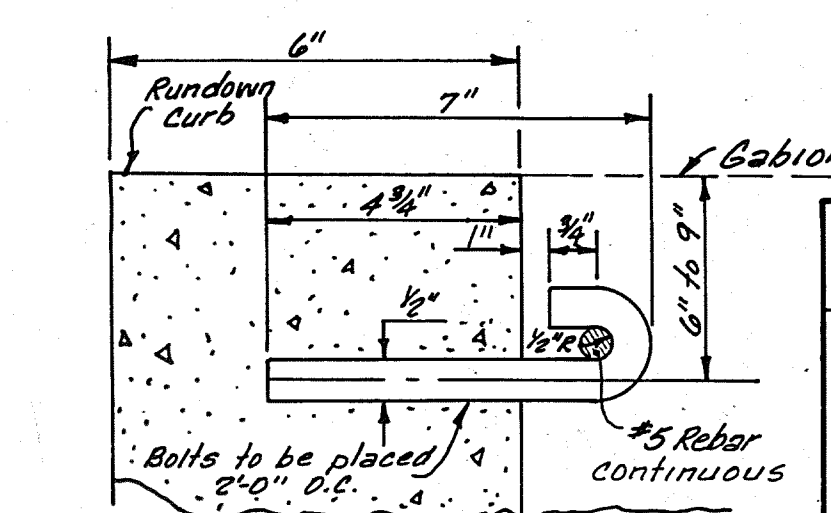
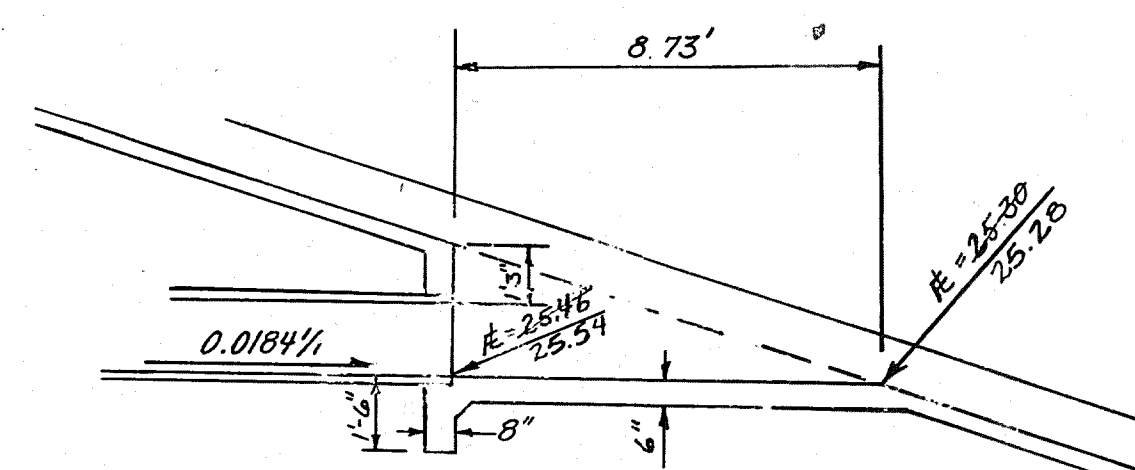
SECTION R-R



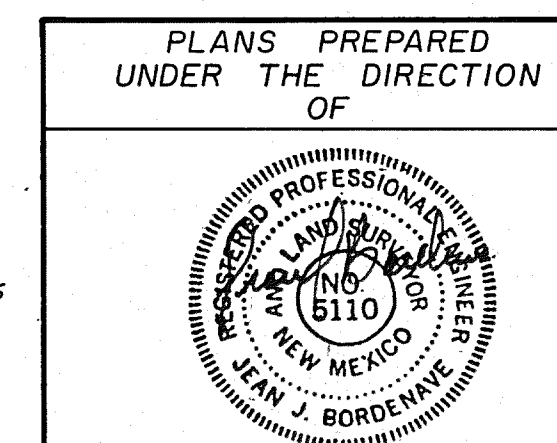
GROUT DETAIL

- ### SEQUENCE OF CONSTRUCTION

1. POUR CONCRETE WITH HOOK BOLTS
2. PLACE GABION BASKET
3. PLACE #5 REBAR
4. PLACE ROCK IN GABION BASKET
5. MORTAR AROUND REBAR AND ROCK
(ONE FOOT)



1/2" HOOK BOLT DEFORMED
No Scale



ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY

TITLE: GABION DROP
STA. 24 + 72.83 CHANNEL
SAN ANTONIO ARROYO

DRAWING
NO.

SHEET 2 OF 2

[illegible]

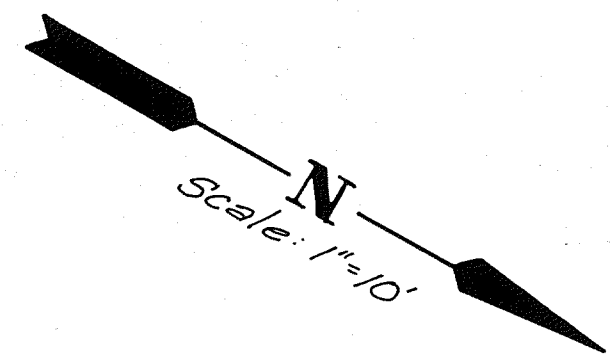
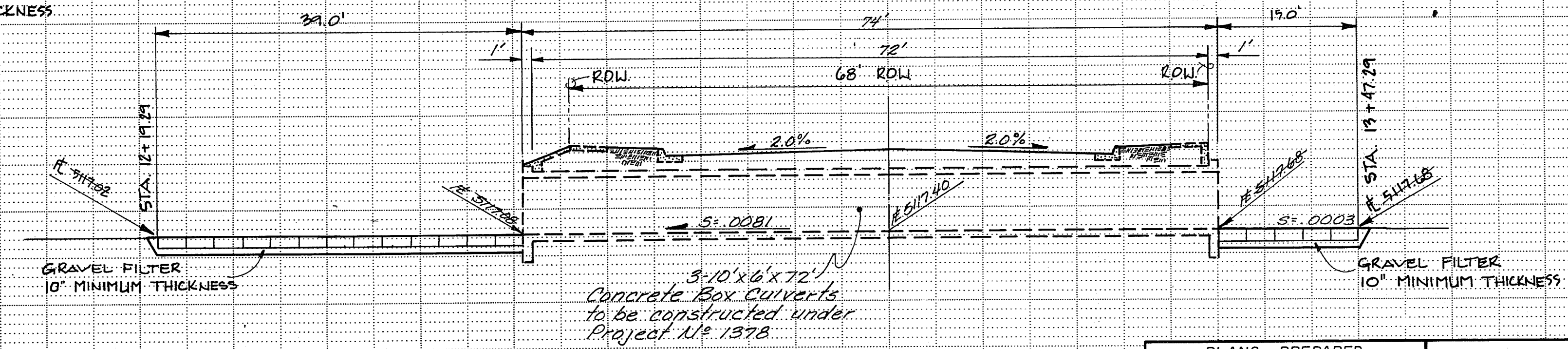
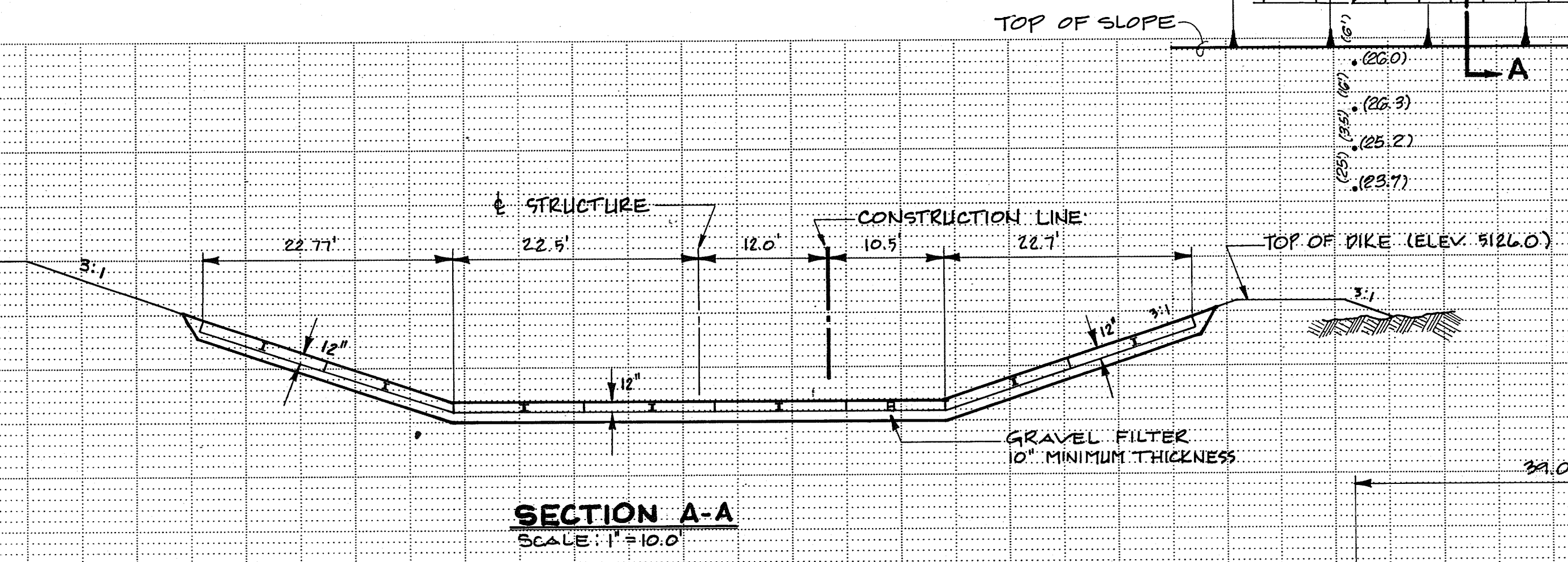
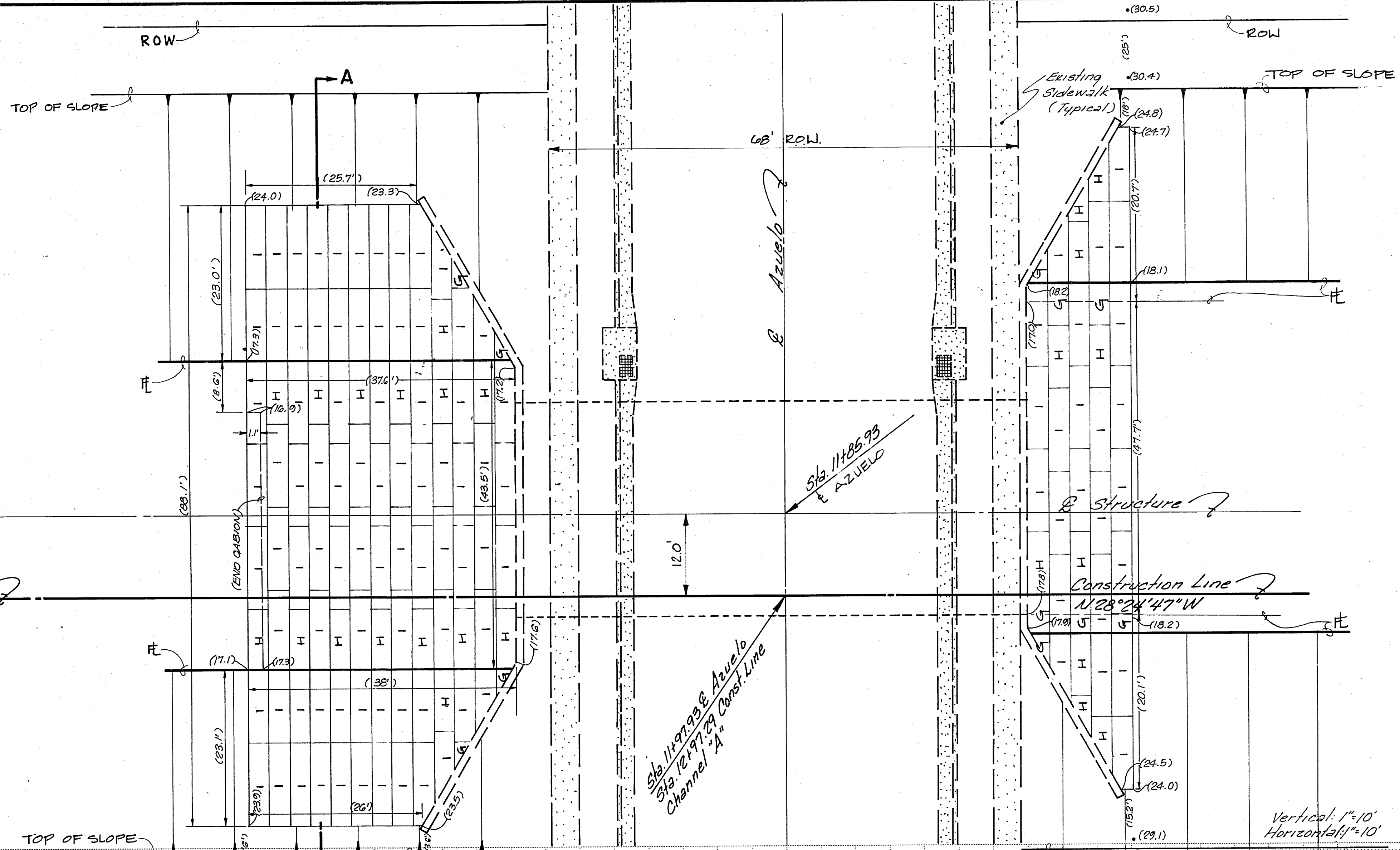
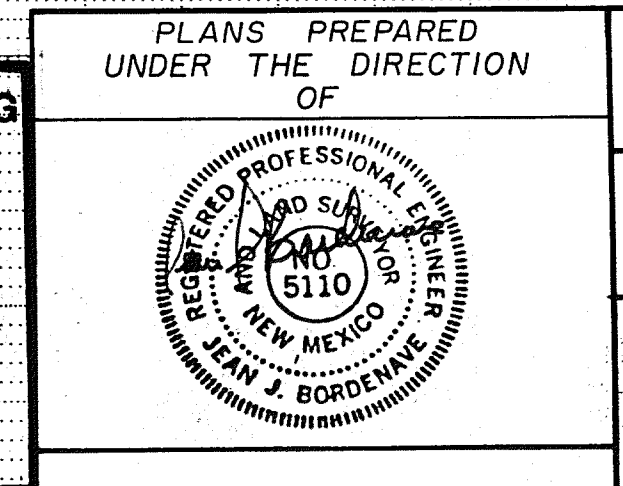
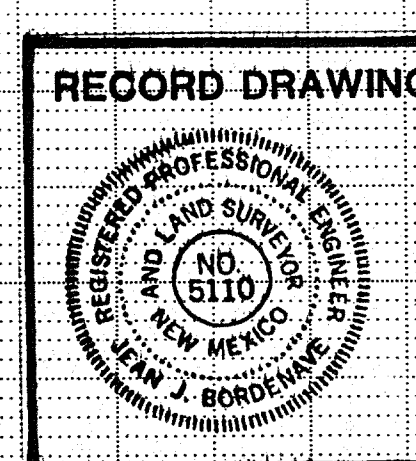


TABLE of GABIONS				
CODE	LENGTH	WIDTH	HEIGHT	QUANTITY
G	6'	3'	1'	11
H	9'	3'	1'	25
I	12'	3'	1'	105

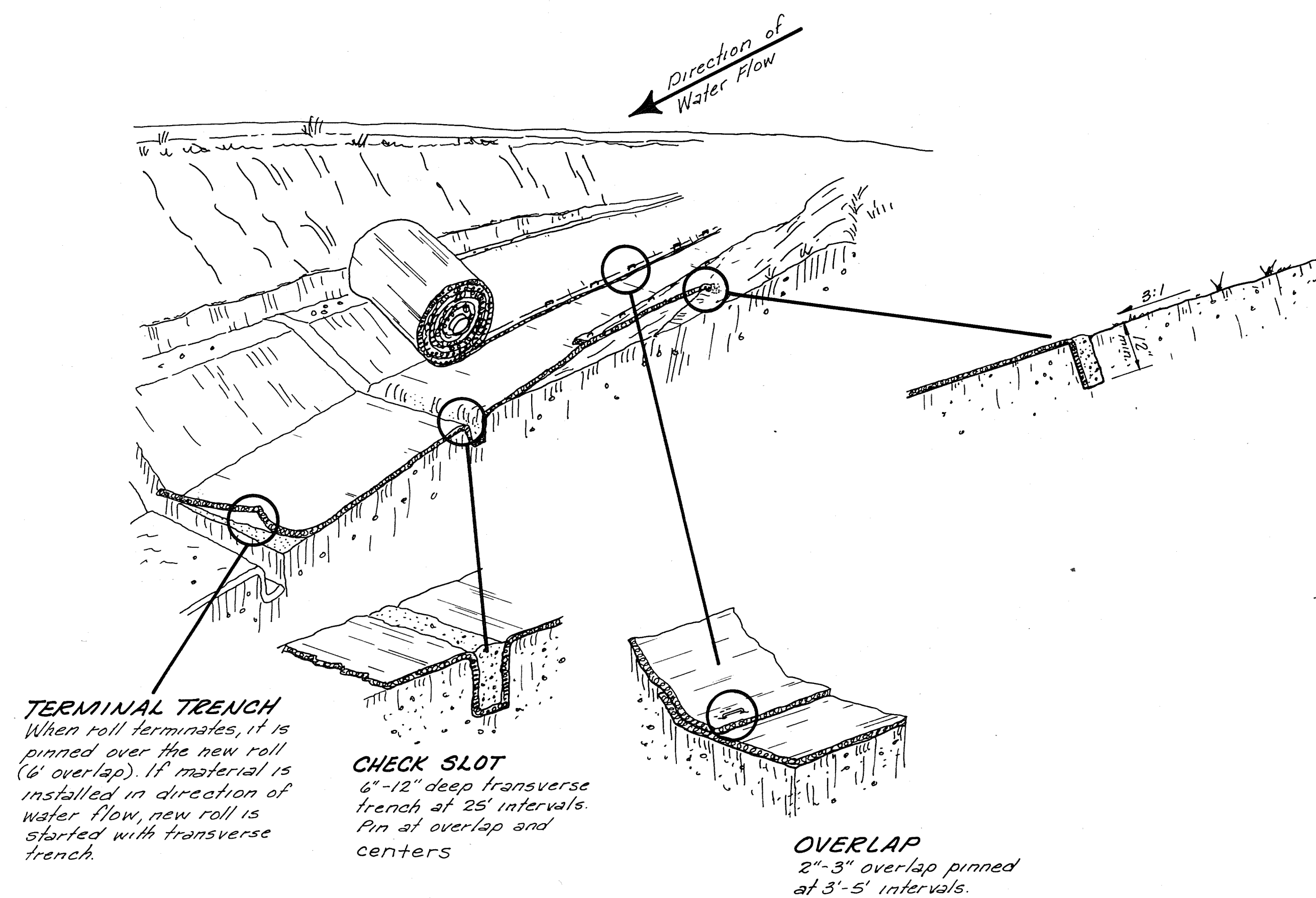


REFERENCES			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
MAP NO.	EST. NO.	W.O. NO.	NO.	BY	DATE	CONTRACTOR	NO.	DATE	NO.	DATE	NO.
						ACS 1/6-10'					
						Elav. 5124.77					
						A square chiseled on top of					
						concrete curb at the East North					
						East curb return of Atlixaco Rd.					
						and Flor Del Sol Place N.W.					



ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY
TITLE: GABION PLACEMENT at AZUELO AVE.
STA 12+19.29 to 13+47.29 CHANNEL "A"
SAN ANTONIO ARROYO

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	2	1	0	8	5			

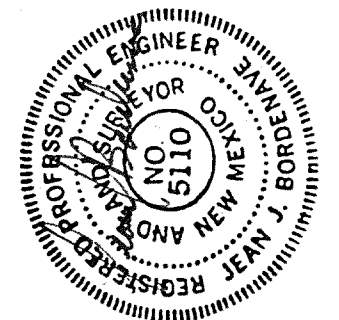


SYNTHETIC LINING OR EQUAL - ANCHORING DETAILS

NO SCALE

NOTE: FOLLOW MANUFACTURERS RECOMMENDATIONS

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.		FIELD NOTES		CONTRACTOR		CONTRACTOR	
BY		DATE		NO.		NO.	
				As-Built		As-Built	
				Elev. 5134.777		Elev. 5134.777	
				A square 16" x 16"		A square 16" x 16"	
				chiseled on top of		chiseled on top of	
				concrete curb at the foot of North East		concrete curb at the foot of North East	
				curb return of Arroyo Road and		curb return of Arroyo Road and	
				Elev. Del Sol Place 11.11		Elev. Del Sol Place 11.11	
				VERIFICATION BY		VERIFICATION BY	
				DATE		DATE	
				RECORDED BY		RECORDED BY	
				DATE		DATE	
				NO.		NO.	



1 2 3 4 5 6 7 8 9 10 11 12
08 002 1185

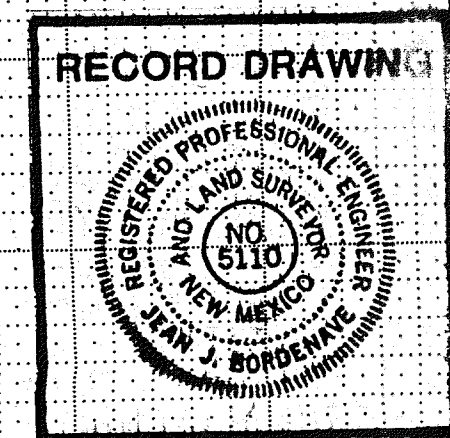
RECORD DRAWING



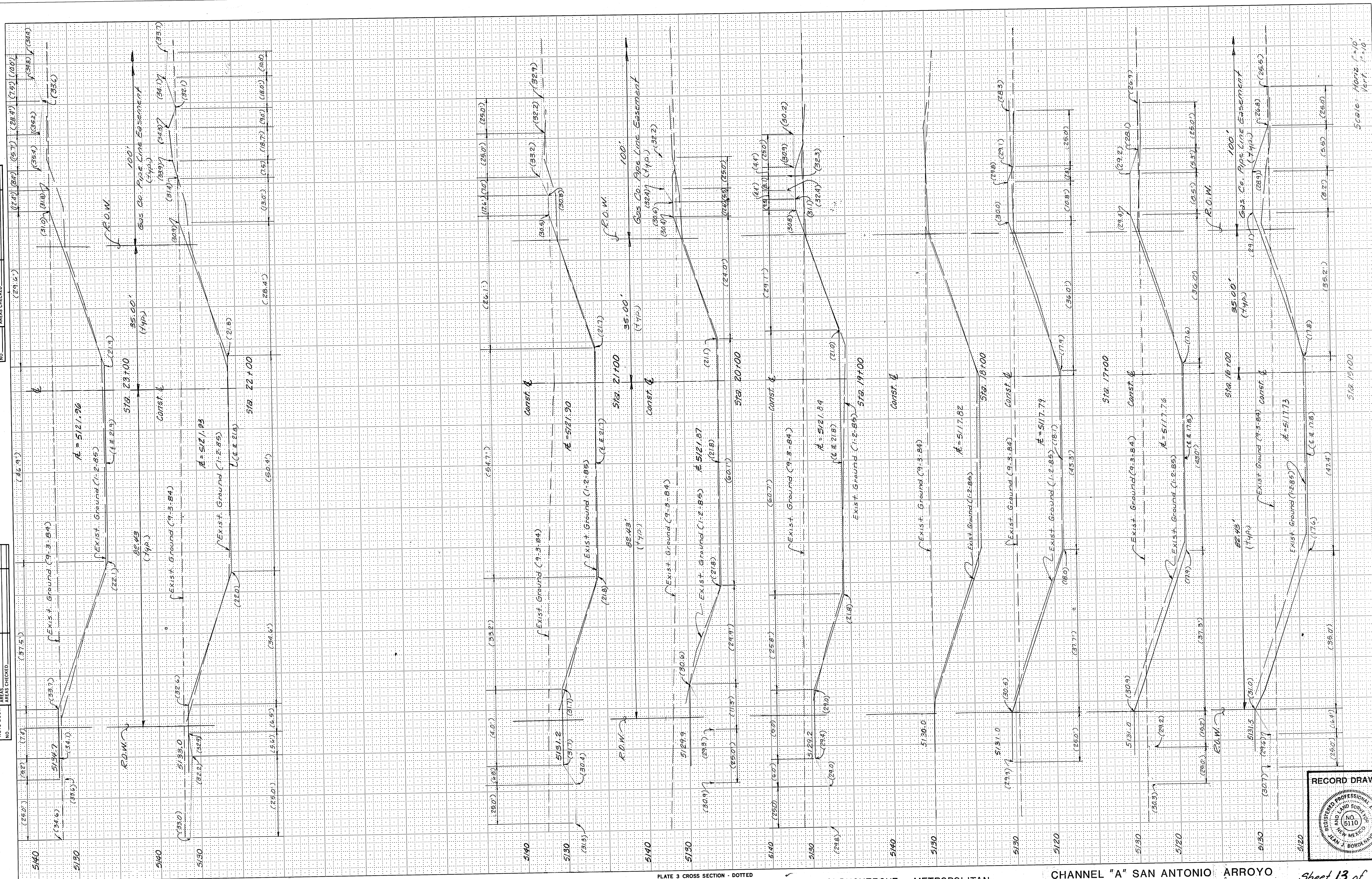
ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY
TITLE: DETAIL SHEET
SAN ANTONIO ARROYO

DRAWING NO. E-10 MAP NO. SHEET 11 OF

ORIGINAL		BY	DATE
SURVEY			
PLOTTED			
TEMPLATE			
NOTE BOOK			



ORIGINAL		BY	DATE
SURVEYED			
SURVEY			
PLOTTED			
TEMPLATE			
NOTE BOOK			
AREAS			



Sheet 13 of

RECORD DRAWING

REGISTERED PROFESSIONAL ENGINEER
AND LAND SURVEYOR FOR
NEW MEXICO
NO. 5110
JEAN J. BORDEAVE

1	2	3	4	5	6	7	8	9	10	11	12
0	8		0	0	2		1	3	8	5	

ORIGINAL	BY	DATE
SURVEY		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK	AREAS CHECKED	
NO.		

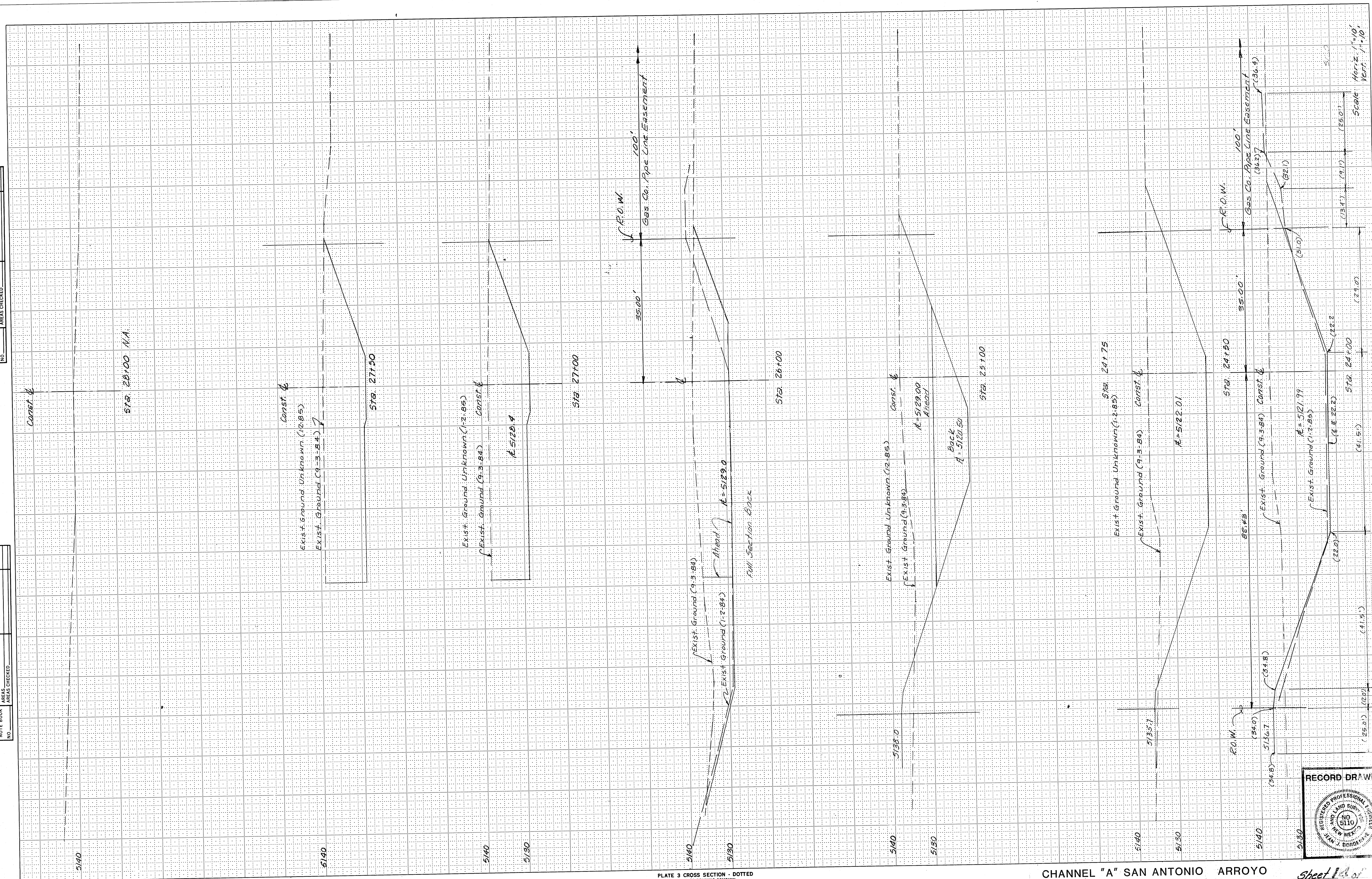


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

CHANNEL "A" SAN ANTONIO ARROYO

5130

RECORD DRAWING

REGISTERED PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
NO 5110
NEW MEXICO
JEAN J. BORDEAUX

Sheet 14a

1	2	3	4	5	6	7	8	9	10	11	1
0	8		0	0	2		1	4	8	5	

