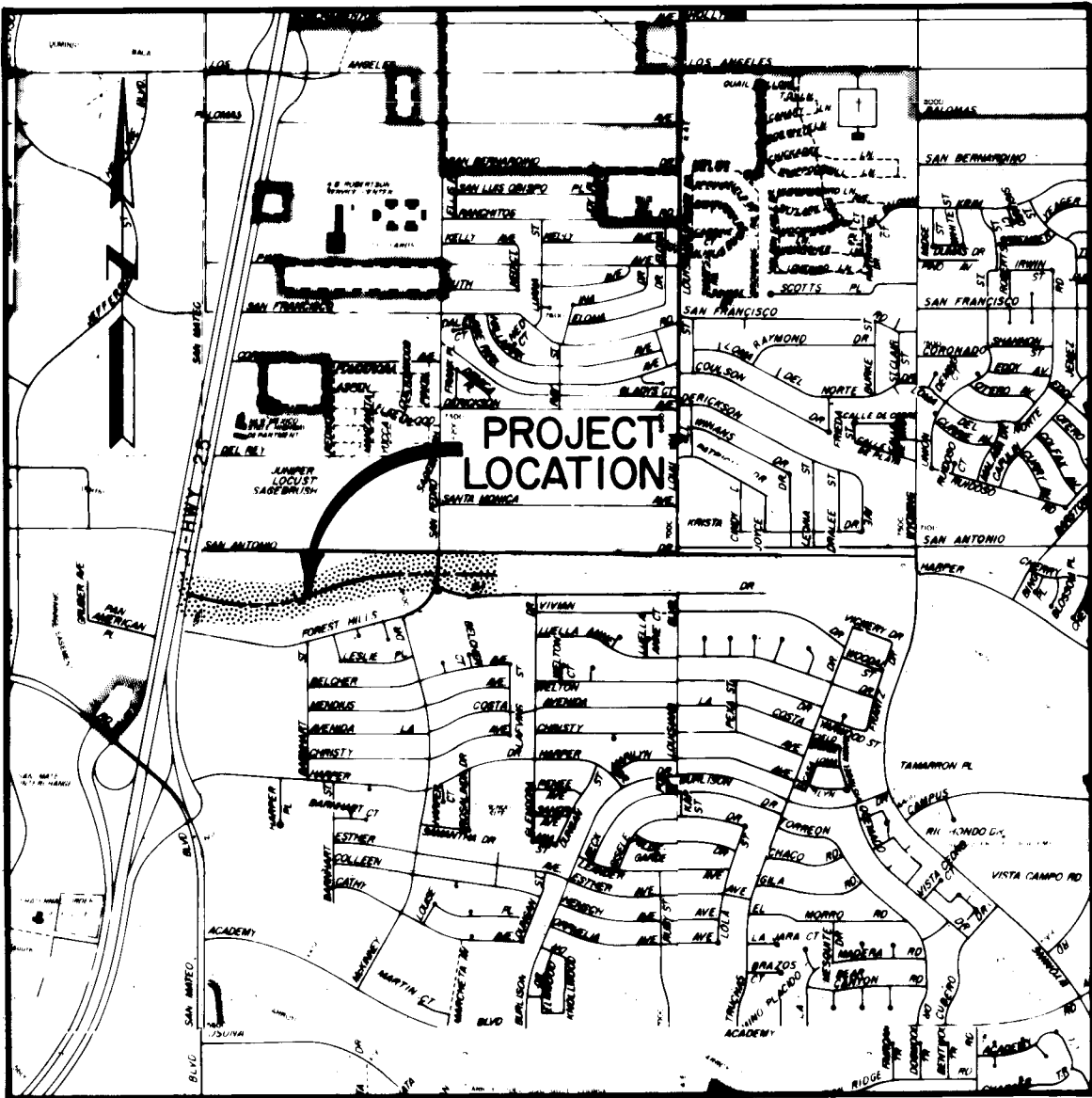


PINO ARROYO IMPROVEMENTS

PHASE II

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VICINITY MAP

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION.
- REFERENCES MADE TO STANDARD DRAWINGS REFER TO CITY OF ALBUQUERQUE STANDARD DRAWINGS.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR WILL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY ENGINEER.
- WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED AS SHOWN.
- CONTRACTOR SHALL PROVIDE 12" SUBGRADE PREPARATION UNDER ALL NEW PAVEMENT, CURBS & GUTTERS, VALLEY GUTTERS, AND CONCRETE FILLETS.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING. NO SEPARATE PAYMENT SHALL BE MADE FOR SUCH CUTTING OF EXISTING PAVEMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. CUTTING OF PAVEMENT SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS.
- WHERE REMOVAL OF EXISTING CURB & GUTTER IS REQUIRED, SUCH REMOVAL SHALL BE MADE BACK TO THE NEAREST JOINT BEYOND THE REMOVAL REQUIRED.
- CURB & GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.
- MATCH FLOWLINES OF GUTTER WHEN CONNECTING NEW CURB & GUTTER TO EXISTING.
- ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THE CONTRACT.

(SEE SHEET 2 FOR CONTINUATION OF GENERAL NOTES)

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Russell B. Smith
DATE 9-20-89

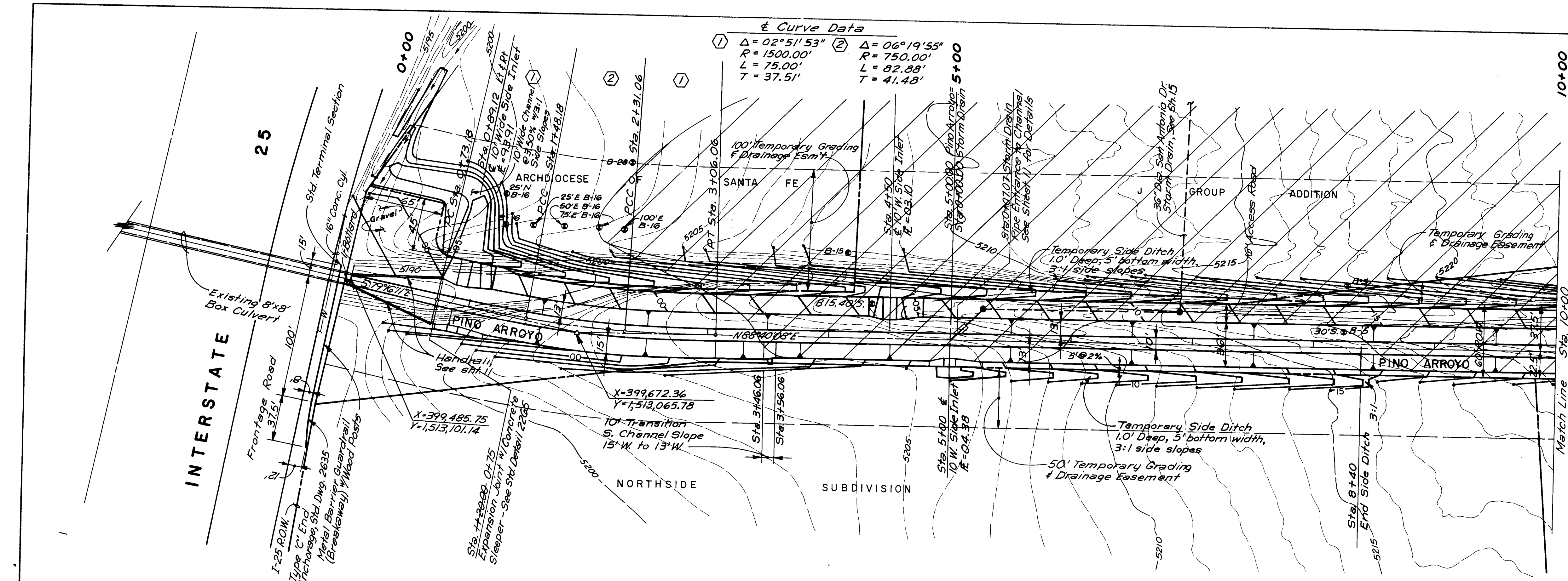
1 2 3 4 5 6 7 8 9 10 11 12
26 35 32 01 89

John A. Andrews
RECORD DRAWING

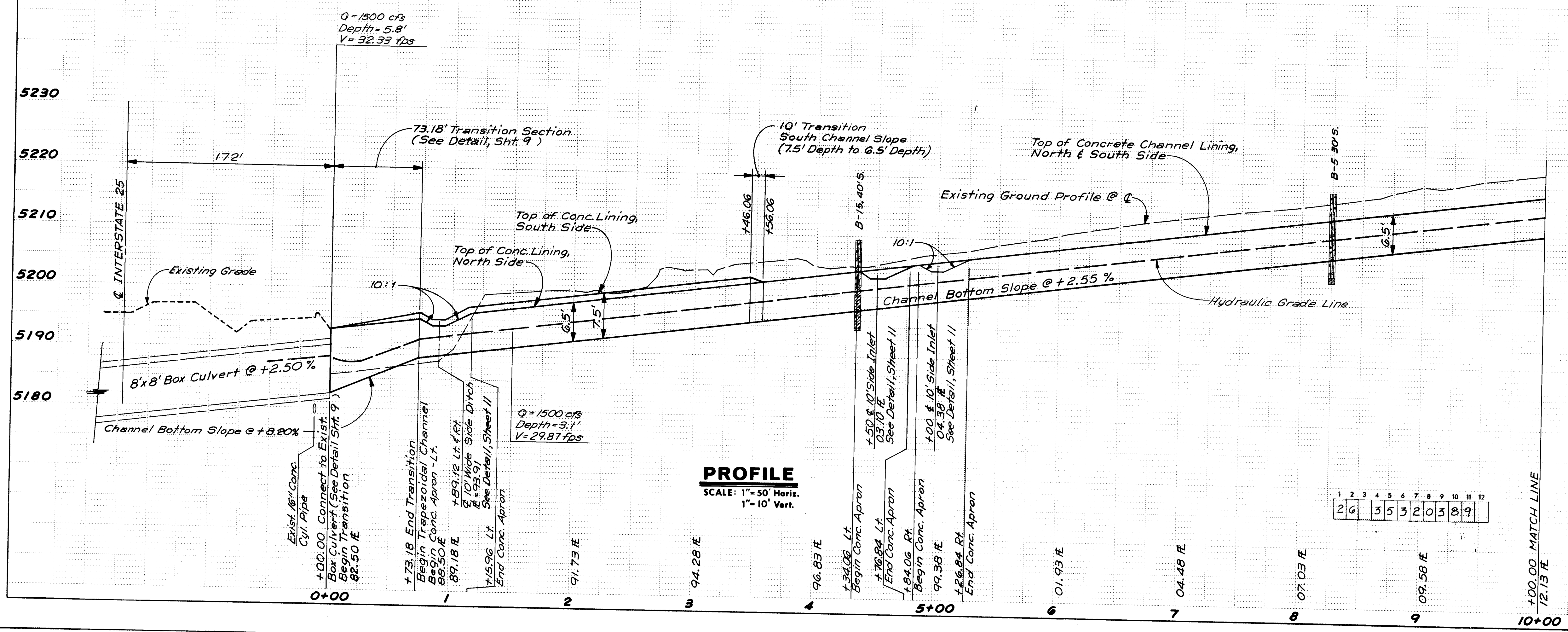
REV	SHEETS	CITY	ENGR.	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
APPROVAL OF REVISIONS										

	ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS ALBUQUERQUE 78-138A NEW MEXICO	APPROVED FOR CONSTRUCTION <i>John A. Andrews</i> CITY ENGINEER DATE 9-20-89
	3532	SHEET 1 OF 25

SET NUMBER



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' Horiz.
1" = 10' Vert.

- NOTES**
1. LIMITS OF LANDFILL INDICATED ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL EXCAVATE ALL LANDFILL MATERIAL OUTSIDE THE LIMITS OF EXCAVATION SHOWN ON THE TYPICAL SECTIONS, WHICH IN THE OPINION OF THE ENGINEER THREATENS THE INTEGRITY OF THE CHANNEL. SUCH EXCESS EXCAVATION SHALL BE BACKFILLED WITH SUITABLE MATERIAL COMPACTED TO 90% MODIFIED DENSITY. EXCESS LANDFILL EXCAVATION WILL BE MEASURED FOR PAYMENT BY THE CUBIC YARD WHICH PAYMENT SHALL INCLUDE BACKFILLING & HAULING LANDFILL MATERIAL TO DISPOSAL.
 2. ALL EXCAVATED LANDFILL, WHETHER WITHIN THE NORMAL LIMITS OF EXCAVATION OR WITHOUT AS DESCRIBED IN NOTE 1, SHALL BE HAULED TO A SUITABLE DISPOSAL SITE IN COMPLIANCE WITH ALL STATE & LOCAL REGULATIONS.
 3. ALL FLOWS, FLOW DEPTH, VELOCITIES & HYDRAULIC GRADIENTS SHOWN ON THE PROFILES ARE BASED UPON 100 YEAR FLOW CONDITIONS.

- LEGEND**
- Approximate Location of Sanitary Landfill
 - Property Line
 - Existing Ground Contour
 - Finish Grade Contour
 - Soil Boring Location & Number
 - Street Crown Transition

SOIL BORINGS LEGEND

FINE-GRAINED SOIL	
MORE THAN 50% SMALLER THAN 200 SIEVE SIZE	
ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
OL	ORGANIC SILTS AND INORGANIC SILTS OF LOW PLASTICITY
OH	INORGANIC SILTS; MICACEOUS OR SILTY MICACEOUS FINE SANDS OR SILTY CLAYS
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
PT	PEAT AND OTHER HIGHLY ORGANIC SOILS
MAJOR DIVISIONS	
ML, CL, OL	SILTS AND CLAYS
OH, CH	Liquid limit less than 50
PT	SILTS AND CLAYS
greater than 50	

COARSE-GRAINED SOIL	
MORE THAN 50% LARGER THAN 200 SIEVE SIZE	
GW	WELL-GRADED GRAVELS OR GRAVELLY SAND MIXTURES, LESS THAN 5% - 200 FINES
GP	POORLY GRADED GRAVELS OR GRAVELLY SAND MIXTURES, LESS THAN 5% - 200 FINES
GM	SILTY GRAVELS, GRAVELLY SAND SILT MIXTURES, MORE THAN 5% - 200 FINES
GC	CLAYEY GRAVELS, GRAVELLY SAND-CLAY MIXTURES, MORE THAN 5% - 200 FINES
SW	WELL-GRADED SANDS OR GRAVELLY SANDS, LESS THAN 5% - 200 FINES
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LESS THAN 5% - 200 FINES
SM	SILTY SANDS, SAND-SILT MIXTURES, MORE THAN 5% - 200 FINES
SC	CLAYEY SANDS, SAND-CLAY MIXTURES, MORE THAN 5% - 200 FINES
MAJOR DIVISIONS	
GW, GP, GM, GC	GRAVELS
SW, SP, SM, SC	SANDS
More than half of coarse fraction is larger than No. 4 sieve size	
More than half of coarse fraction is smaller than No. 4 sieve size	

NOTE - Soils with 5 to 12 percent minus 200 fines should be classified with dual symbols

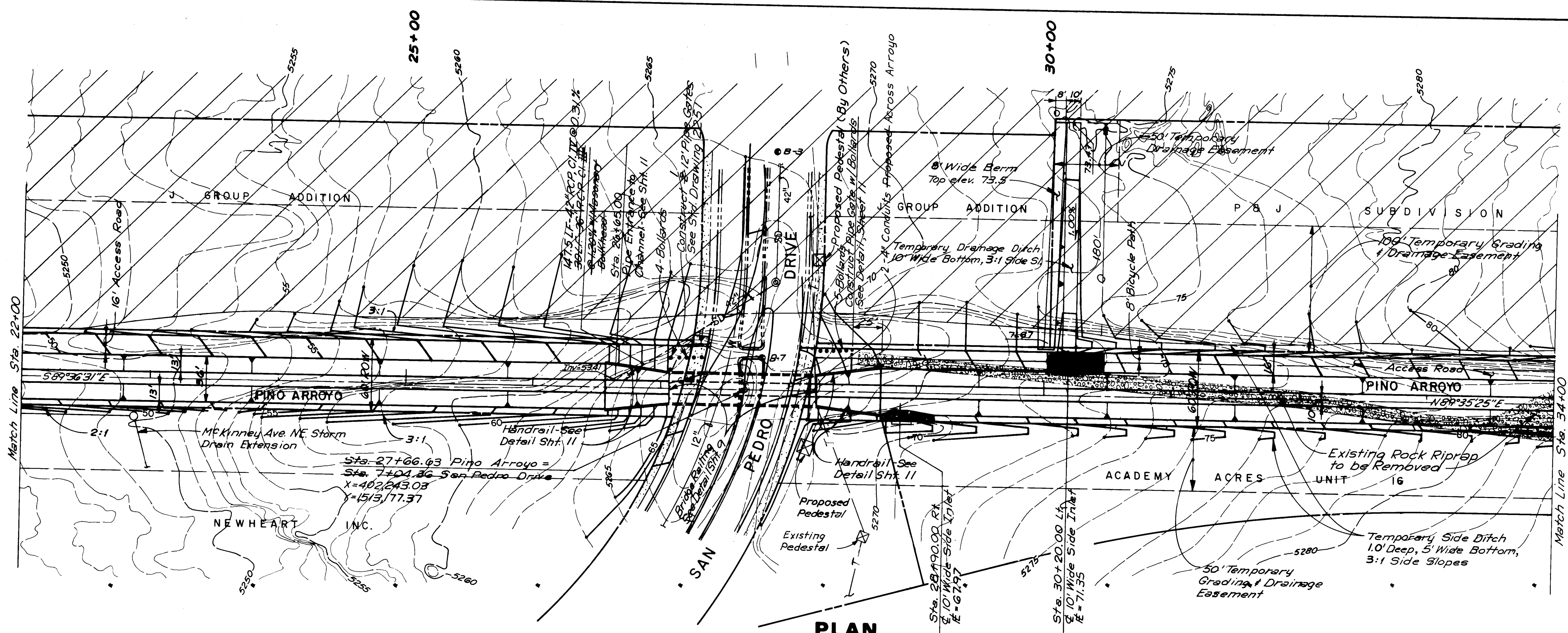
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

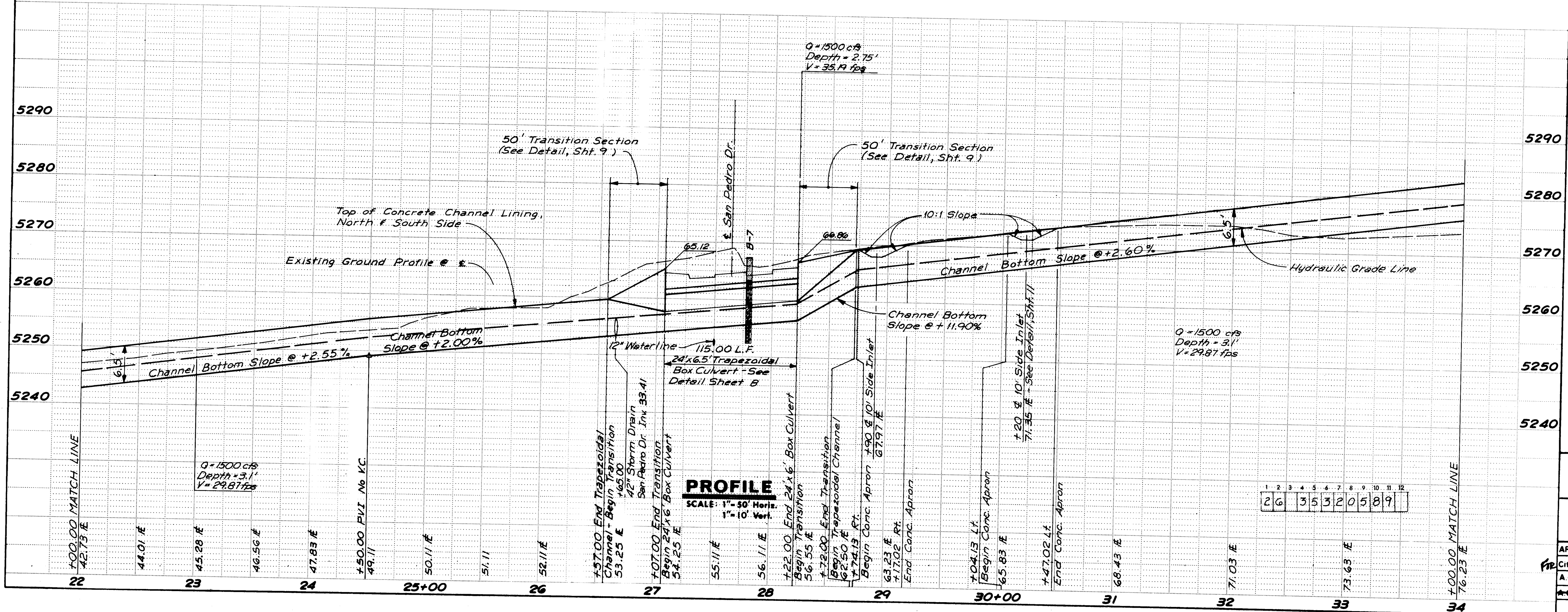
PINO ARROYO IMPROVEMENTS - PHASE II
ARROYO CHANNELIZATION
PLAN & PROFILE - STA. 0+00 TO STA. 10+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	John A. Brown	1/25/89	Liquid Waste	John A. Brown	1/25/89
A.C.E. - Design	John A. Brown	1/25/89	Traffic	John A. Brown	1/25/89
A.C.E. - Hydrology	John A. Brown	1/25/89	Water	John A. Brown	1/25/89

DRAWING NO. 3532 MAP NO. E-18, E-19 SHEET 3 OF 25



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' Horiz.
1" = 10' Vert.

NOTES

- SEE SHEET 17A FOR STORM DRAIN & INLETS
- SEE SHEET 17 FOR WATERLINE & SANITARY SEWER LINE.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Moore & Conner	NO.		NO.			
WORKED BY	A.A.F.R.	DATE	12-1-89	DATE	12-1-89		
INSPECTED BY	A.A.F.R.	DATE	12-1-89	DATE	12-1-89	REVISIONS	
ACCEPTANCE BY	A.A.F.R.	DATE	12-1-89	DATE	12-1-89		
REVISIONS		NO.		NO.		DESIGNED BY	
DESIGNED BY		DATE		DATE			
DRAWN BY		DATE		DATE		CHECKED BY	
CHECKED BY		DATE		DATE			

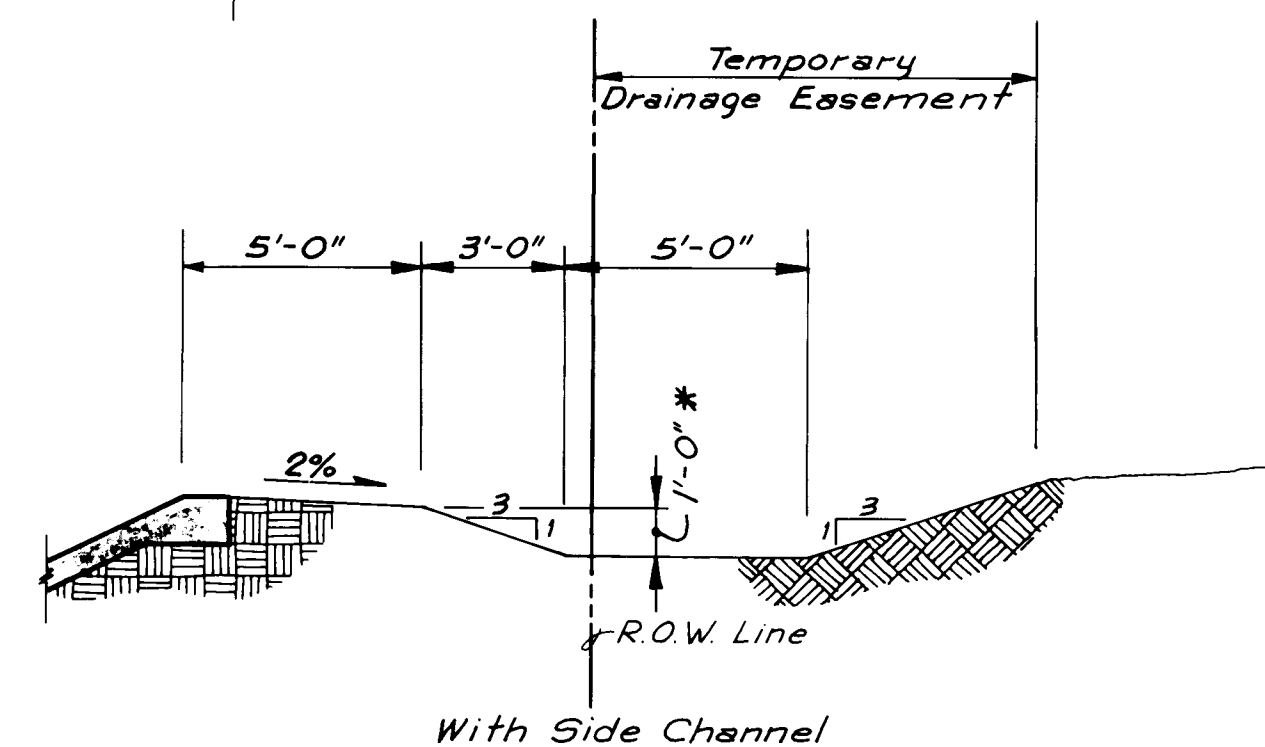
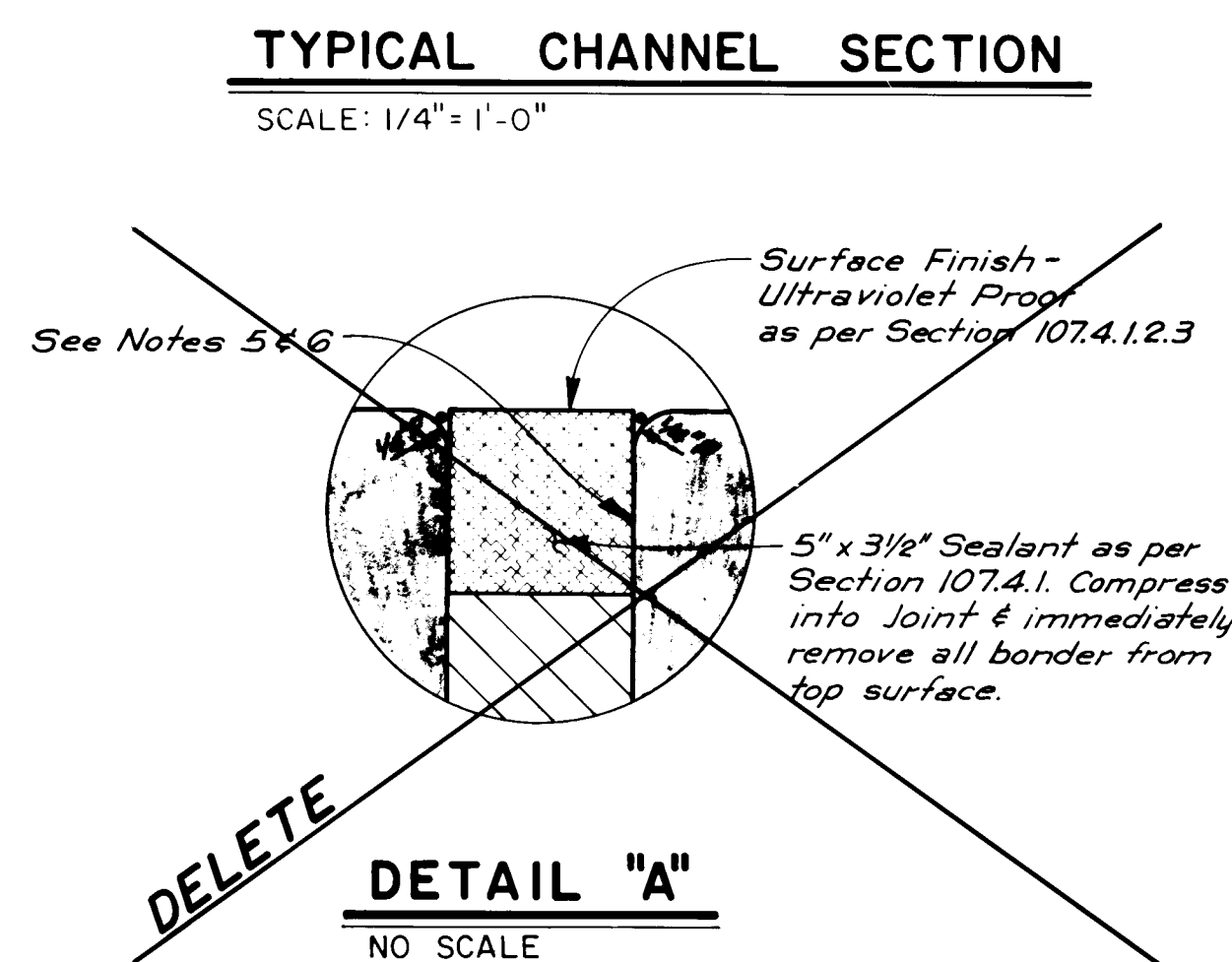
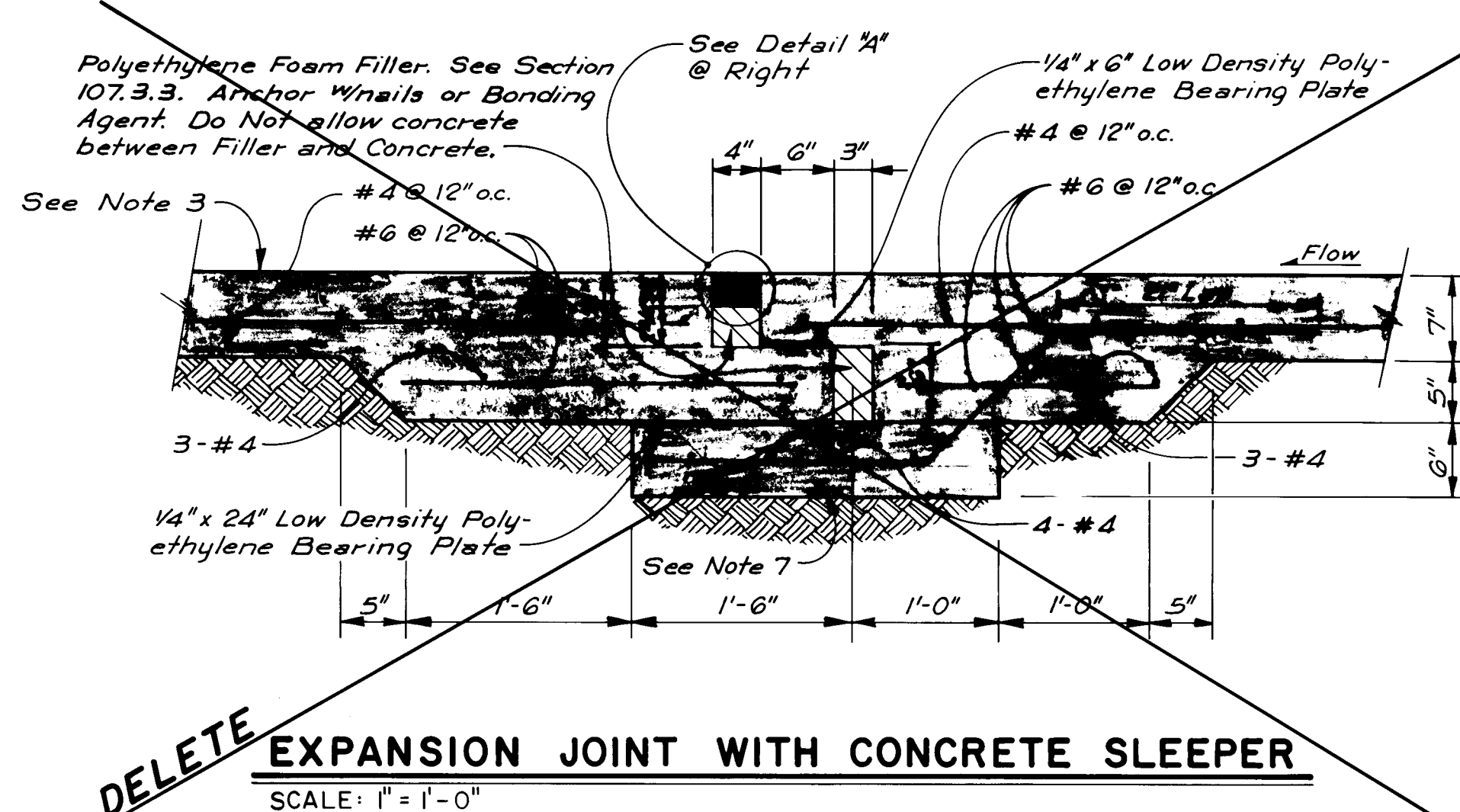
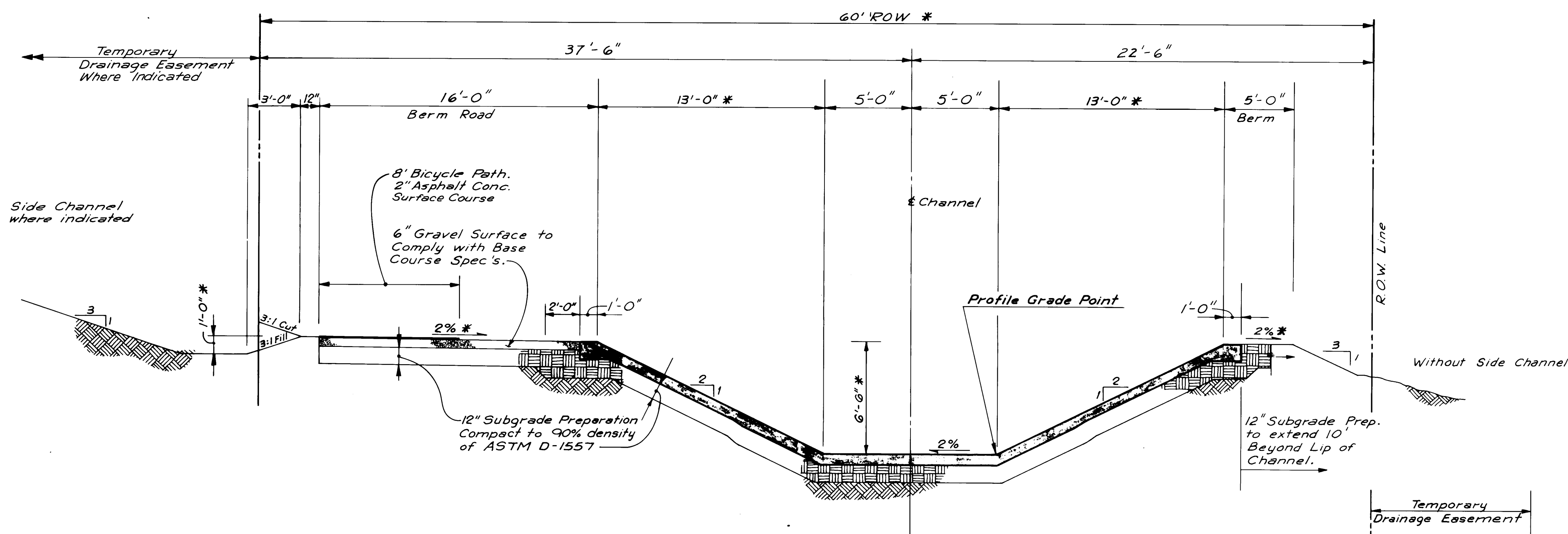
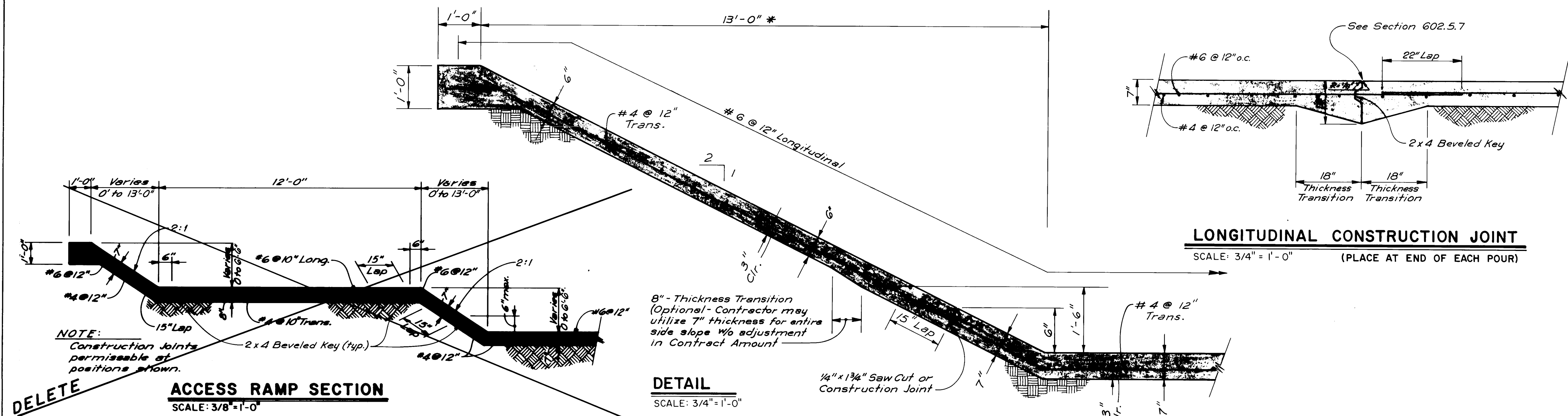
John A. Anderson
RECORD DRAWING

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO IMPROVEMENTS - PHASE II
ARROYO CHANNELIZATION
PLAN & PROFILE - STA. 22+00 TO STA. 34+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer	Roger A. Brown	12/5/89	Liquid Waste	PE 60	12/5/89
A.C.E. - Design	Roger A. Brown	12/5/89	Traffic	PE 60	12/5/89
A.C.E. - Hydrology	Roger A. Brown	12/5/89	Water	PE 60	12/5/89

DRAWING NO. 3532 MAP NO. E-18, E-19 SHEET 5 OF 25



NOTES

1. LANDFILL MATERIAL FOUND WITHIN THE LIMITS OF THE CHANNEL OR BENEATH THE ACCESS ROAD SHALL BE REMOVED TO THE LIMITS DIRECTED BY THE ENGINEER AND HAULED TO A SUITABLE DISPOSAL SITE. EXCAVATED AREA SHALL BE BACKFILLED AND COMPACTED TO 90% DENSITY AS DETERMINED BY ASTM D-1557.

~~CONSTRUCTION NOTES FOR EXPANSION JOINT
WITH CONCRETE SLEEPER~~

1. AS SOON AS JOINT IS COMPLETE, EXPOSED EDGES OF JOINT SHALL BE COVERED WITH A SHEET OF 16 GA. GALV. SHEET ANCHORED TO CONCRETE AT TWO CORNERS ON THE SIDE OF JOINT. THE SHEET SHALL HAVE 1/4" CRIMPED EDGES AND WILL EXTEND AT LEAST 3" PAST SEALANT, FILLER ON THE SIDES, 3" BELOW LOWER BEARING PLATE AND BE FLUSH TO TOP OF JOINT.
2. JOINT MATERIALS TO BE PLACED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
3. POUR DOWNSTREAM SECTION OF FLY ASH CONCRETE WITH ALUMINUM FILL AND DRY BROOM FINISH. STEEL TROWEL BEARING PLATE SURFACE ONLY. SURFACE TO BE PARALLEL TO SURFACE ON SLEEPER. FORM TO REMAIN IN PLACE UNTIL NEXT DAY.
4. TIE ALL REINFORCING CONNECTIONS SECURELY. SUPPORT SLEEPER MAT WITH PREFORMED CONCRETE SAND HARRIS. STEEL SHALL BE FREE OF FERRIC OXIDE (BLACK RUST SCALE).
5. SIDE OF FORM TO BE USED TO BLOCK OUT SPACE FOR SEALANT SHALL BE SMOOTH. CLEAN MATERIAL TO AVOID NOSING CONTAMINATION & FOR EASY REMOVAL CONCRETE SHALL BE CURED TO 80% MINIMUM OF DESIGN STRENGTH BEFORE PLACING SEALANT.
6. PREPARE PREPARATION AND APPLICATION SECTION 107.4.1.2, BONDING AGENT SECTION 107.4.1.1.
7. POUR FLY ASH CONCRETE SLEEPER. STEEL TROWEL BEARING SURFACE ONLY.

7. ~~DELIVER~~ FROM YOUR TROW

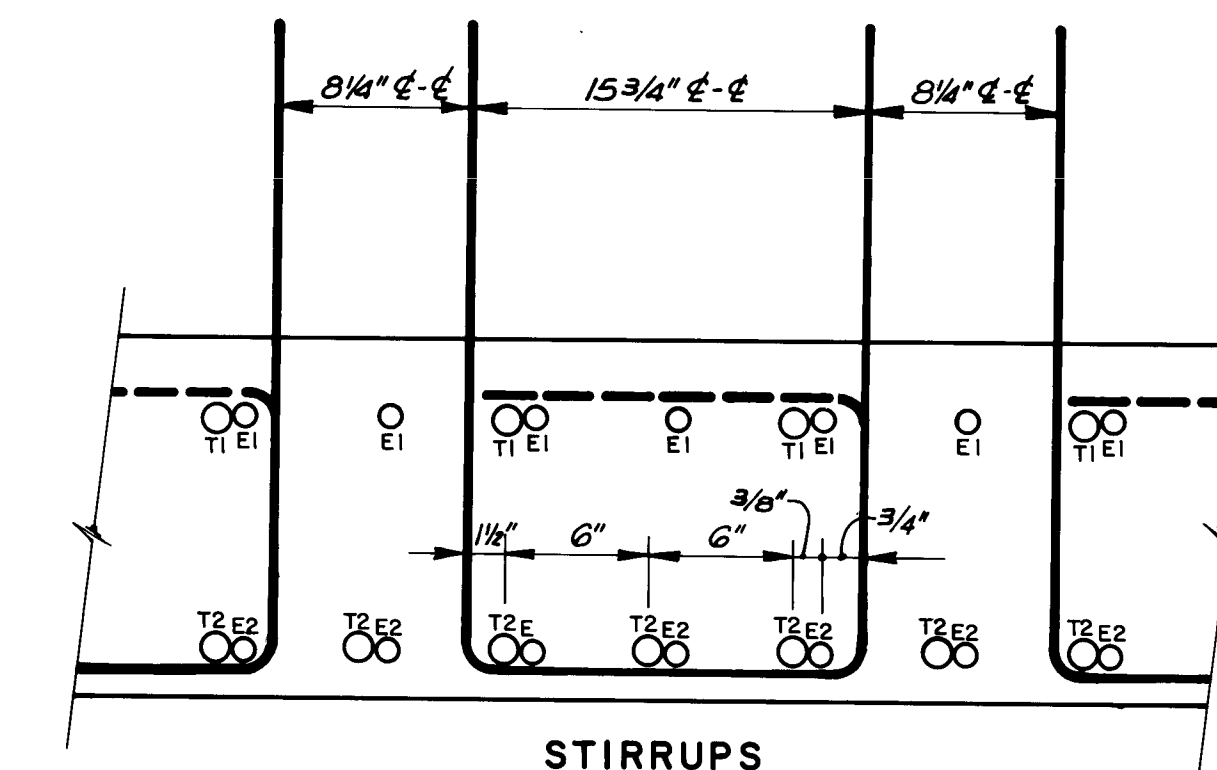
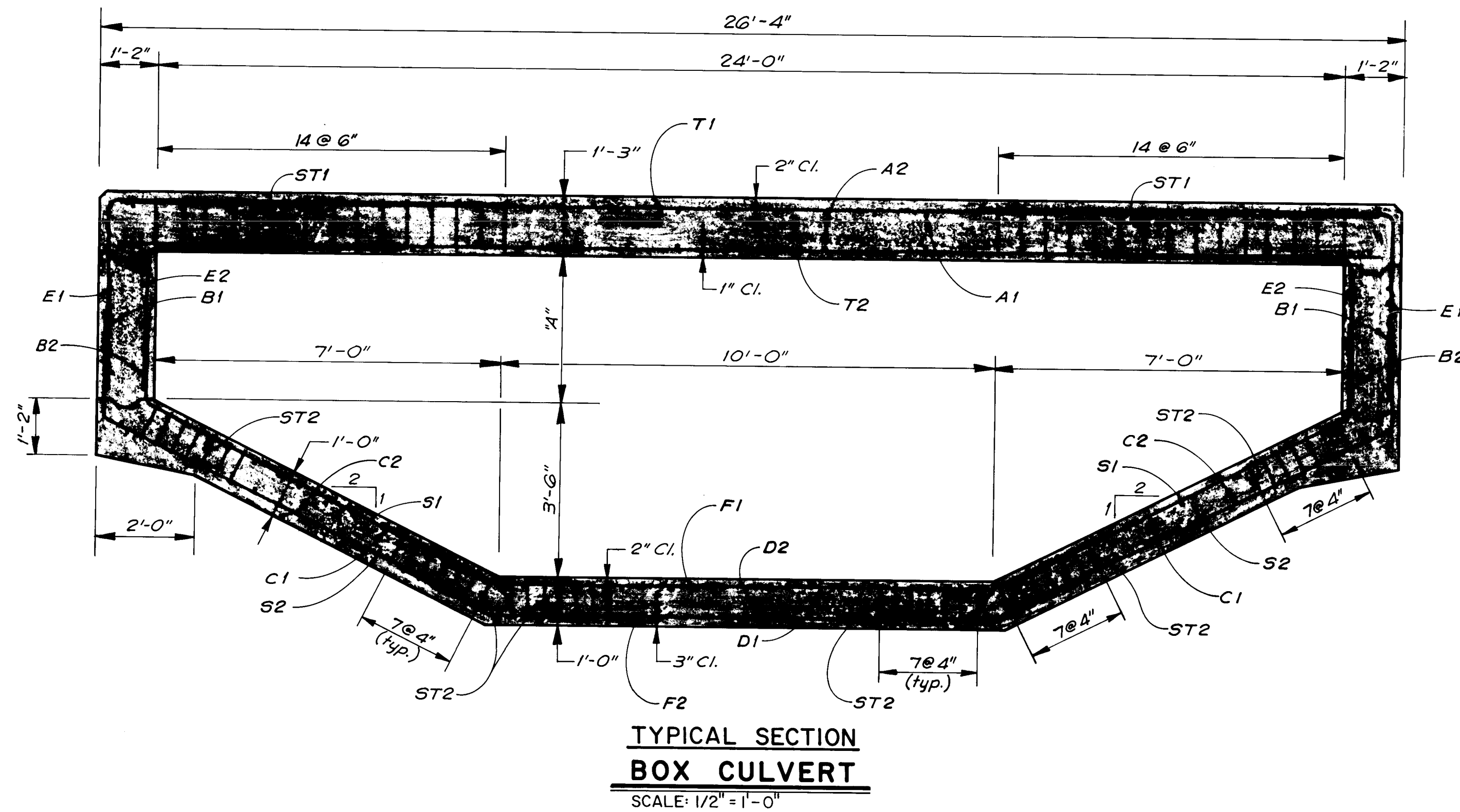
John A. Anderson
RECORD DRAWING

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

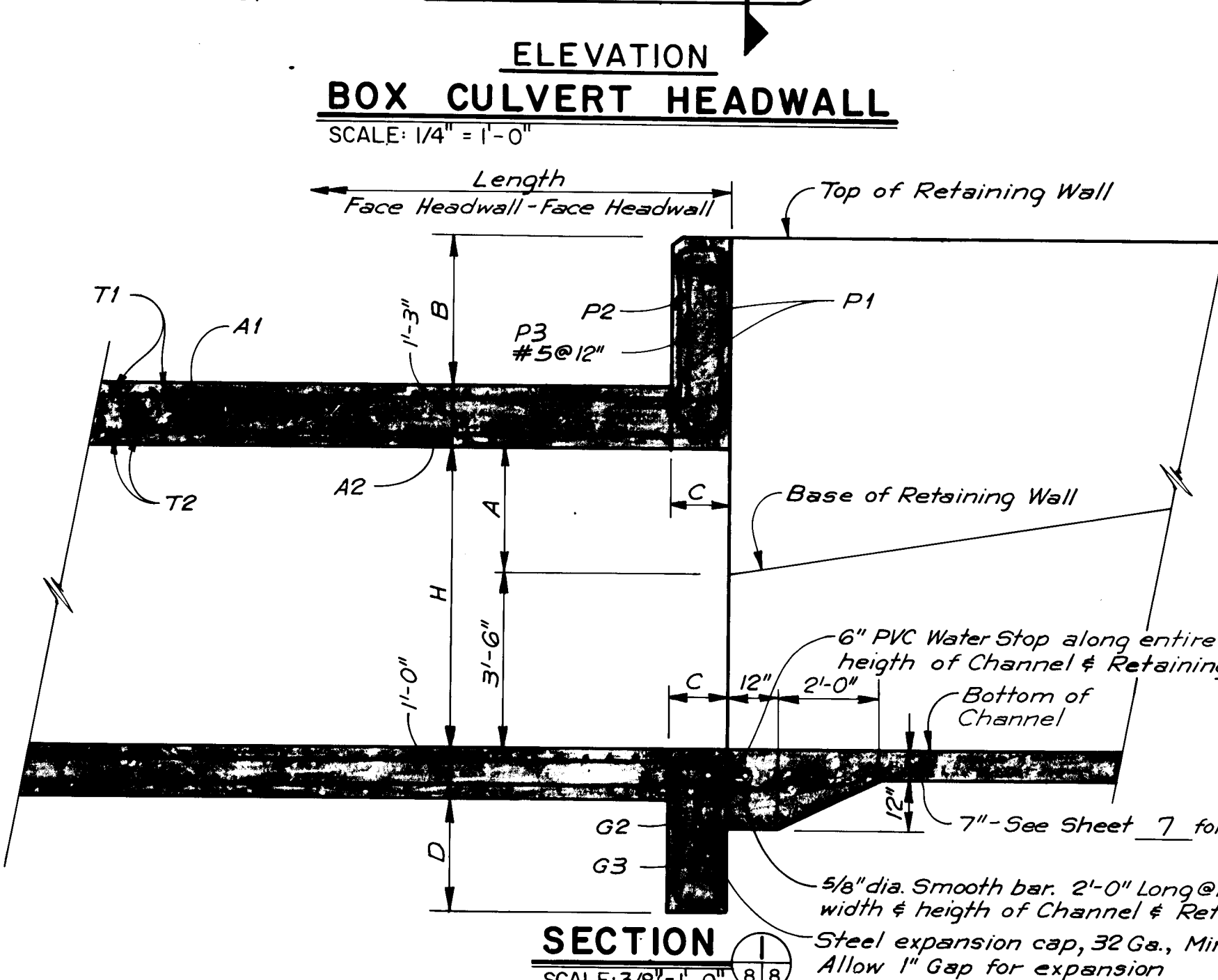
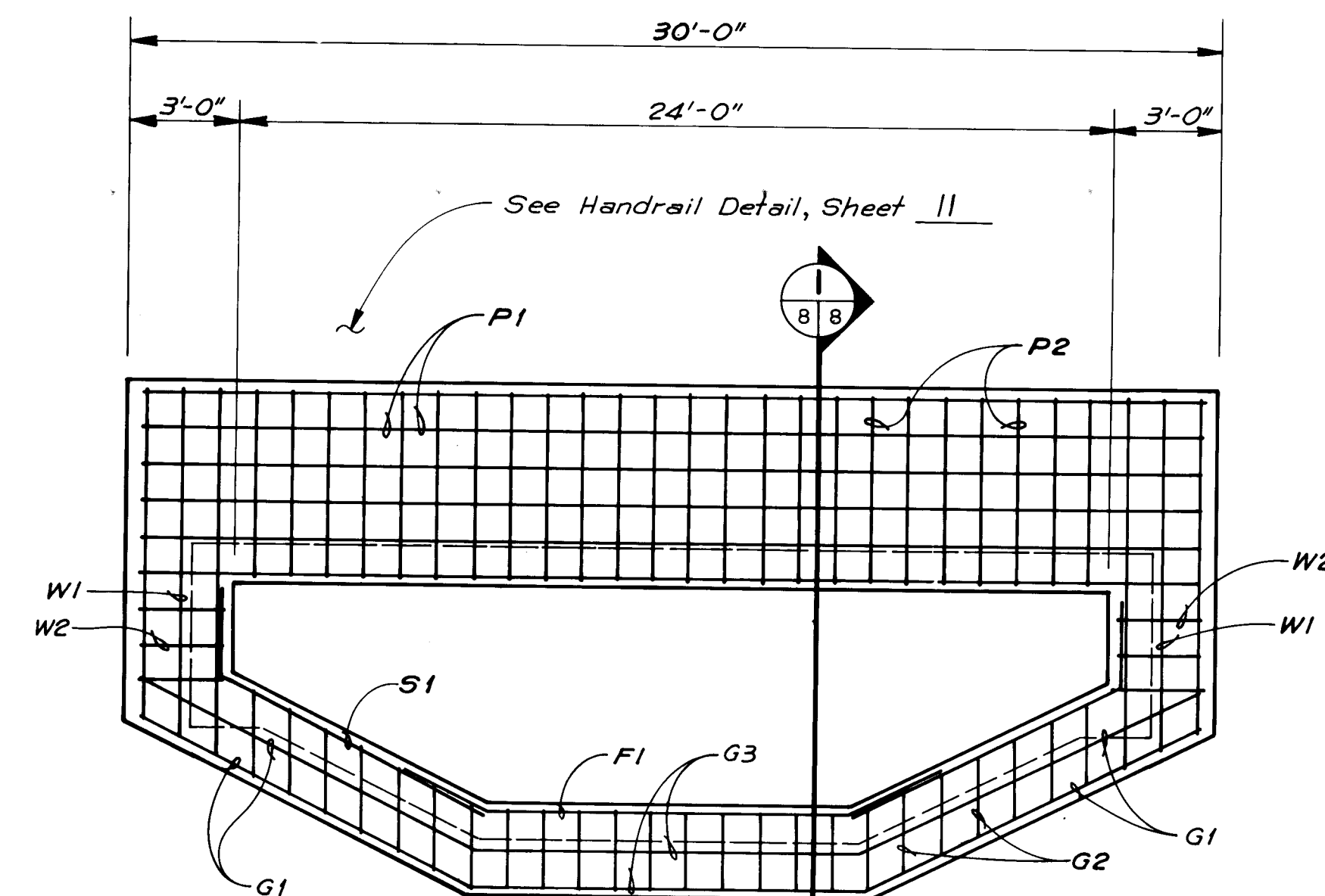
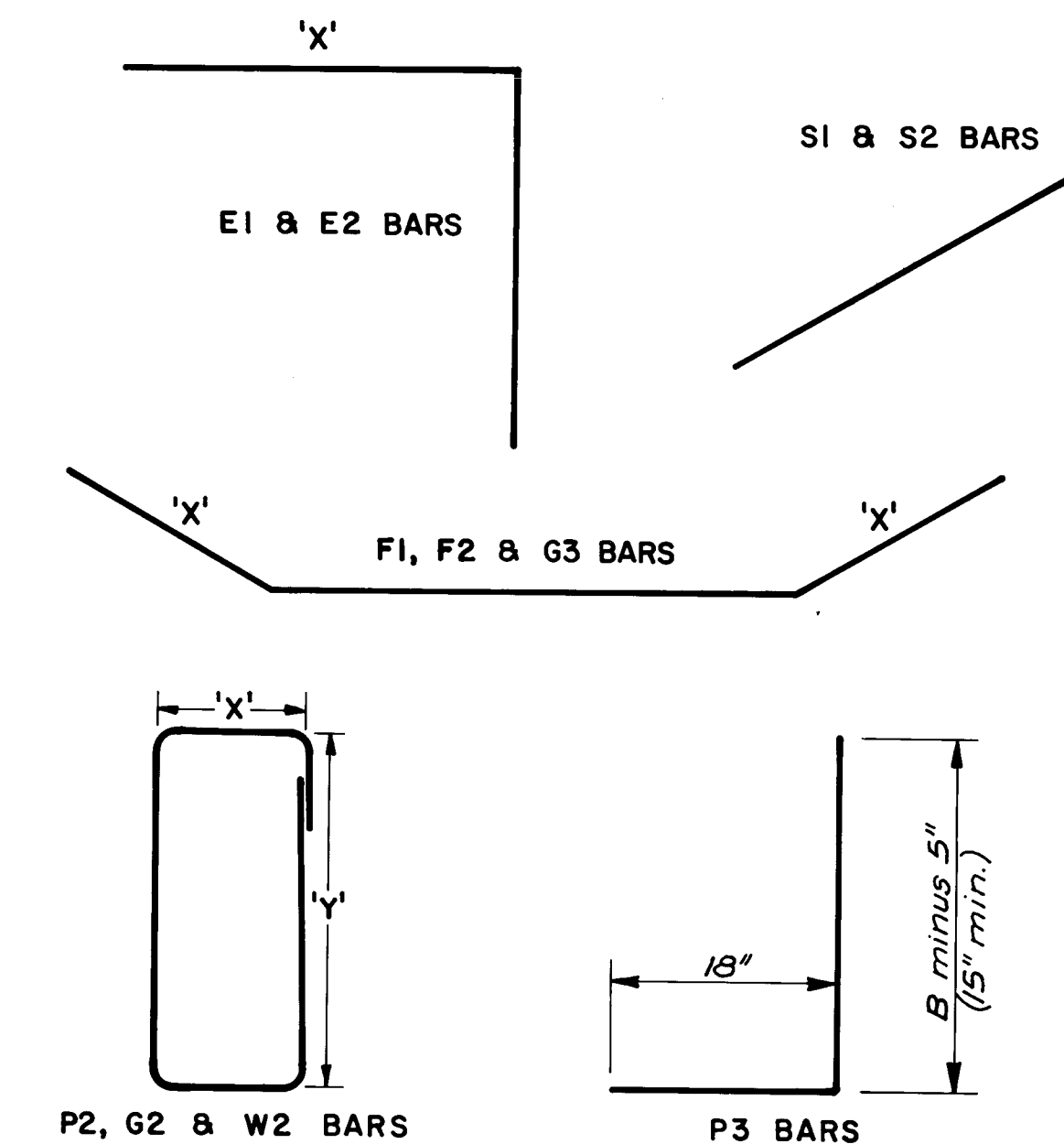
PINO ARROYO IMPROVEMENTS - PHASE II

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Roger A. Neece</i>	<i>1/25/89</i>	Liquid Waste	<i>PEBO</i>	<i>1/25/89</i>
A.C.E. - Design	<i>Roger A. Neece</i>	<i>1/25/89</i>	Traffic	<i>Roger A. Neece</i>	<i>1/25/89</i>
A.C.E. - Hydrology	<i>Roger A. Neece</i>	<i>1/25/89</i>	Water	<i>PEBO</i>	<i>2/5/89</i>

DRAWING NO.	3532	MAP NO.	E-18, E-19	SHEET	7	OF	25
-------------	------	---------	------------	-------	---	----	----



Bar Size	#3	#4	#5	#6	#7	#8	#9	#10	#11
'D' (dia. inch)	2.25	3.0	3.75	4.5	5.25	6.0	6.75	7.5	8.25
Stirrup 'D'	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5



NOTE:
6" PVC Waterstop shall be Heavy Duty, 3/8" thick, Tapered, Ribbed, with Center Bulb.

CROSSING	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	F1
San Pedro Dr.	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#8 6"	#8 6"	#8 6"
Louisiana Blvd.	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#8 6"	#8 6"	#8 6"
San Antonio Dr.	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#8 6"	#8 6"	#8 6"
Wyoming Blvd.	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#4 12"	#8 6"	#8 6"	#8 6"

CROSSING	F2	S1	S2	T1	T2	ST1	ST2
San Pedro Dr.	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"
Louisiana Blvd.	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"
San Antonio Dr.	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"
Wyoming Blvd.	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"	#8 12"

CROSSING	P1	P2	G1	G2	G3	W1	W2
San Pedro Dr.	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"
Louisiana Blvd.	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"
San Antonio Dr.	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"
Wyoming Blvd.	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"	#9 12"

CROSSING	LENGTH	A	H	B	B	C	D
San Pedro Dr.	115'-0"	3'-0"	6'-0"	2'-6 3/4"	3'-1 1/4"	1'-2"	3'-3"
Louisiana Blvd.	100'-0"	4'-0"	8'-0"	3'-1 1/4"	4'-0"	1'-0"	3'-3"
San Antonio Dr.	35'-3"	4'-0"	8'-0"	3'-1 1/4"	3'-7 1/4"	1'-0"	3'-3"
Wyoming Blvd.	100'-0"	4'-0"	8'-0"	3'-1 1/4"	4'-0"	1'-0"	3'-3"

CROSSING	W1	P2
San Pedro Dr.	#9 12"	#9 12"
Louisiana Blvd.	#9 12"	#9 12"
San Antonio Dr.	#9 12"	#9 12"
Wyoming Blvd.	#9 12"	#9 12"

26 35 32 08 89

John A. Anderson
RECORD DRAWING

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO IMPROVEMENTS - PHASE II

CROSSING STRUCTURE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Robert J. [Signature]	1/25/89	Liquid Waste	Robert J. [Signature]	1/25/89
A.C.E. Design	Robert J. [Signature]	1/25/89	Traffic	Robert J. [Signature]	1/25/89
A.C.E. Hydrology	Robert J. [Signature]	1/25/89	Water	Robert J. [Signature]	1/25/89

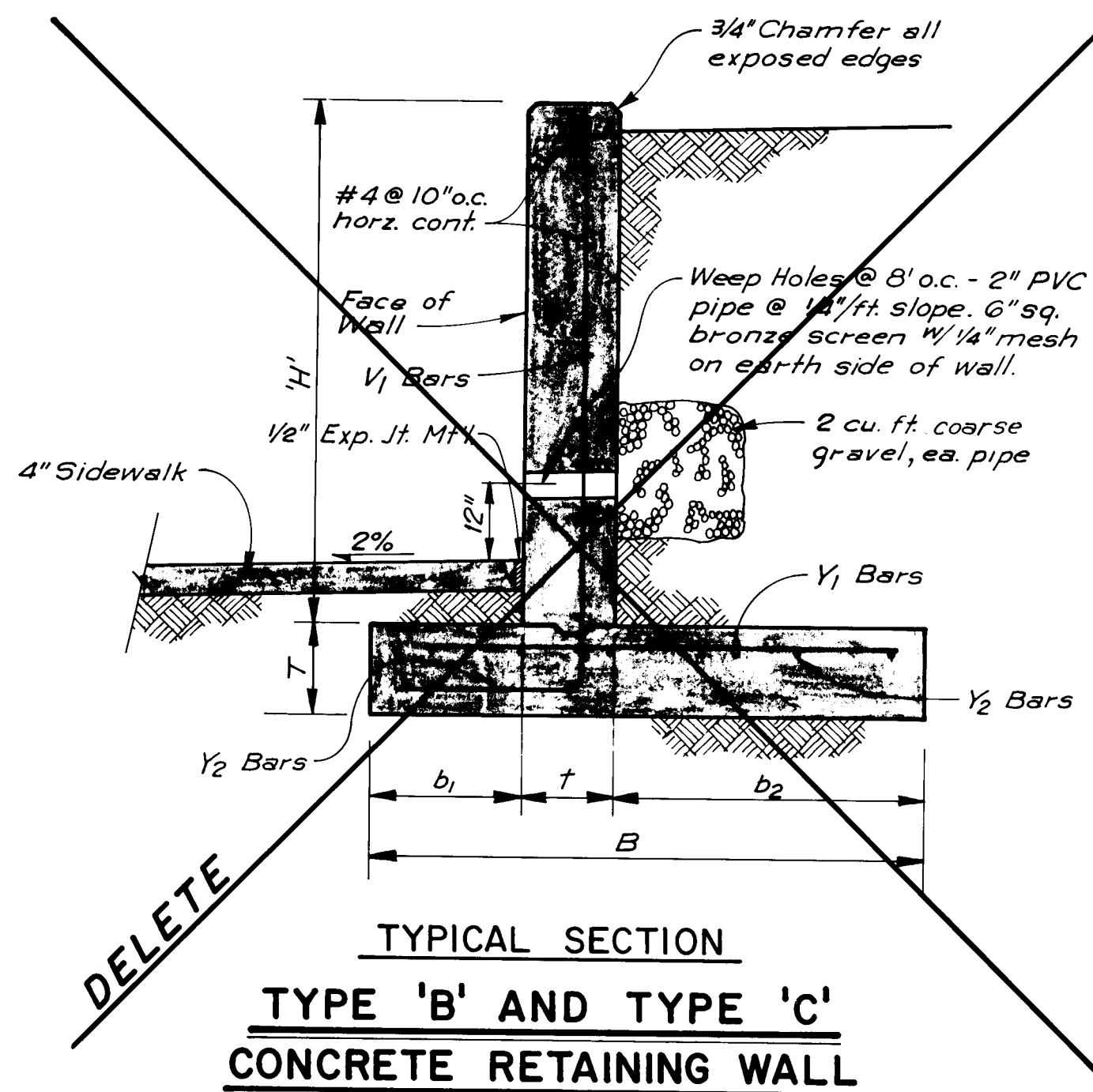
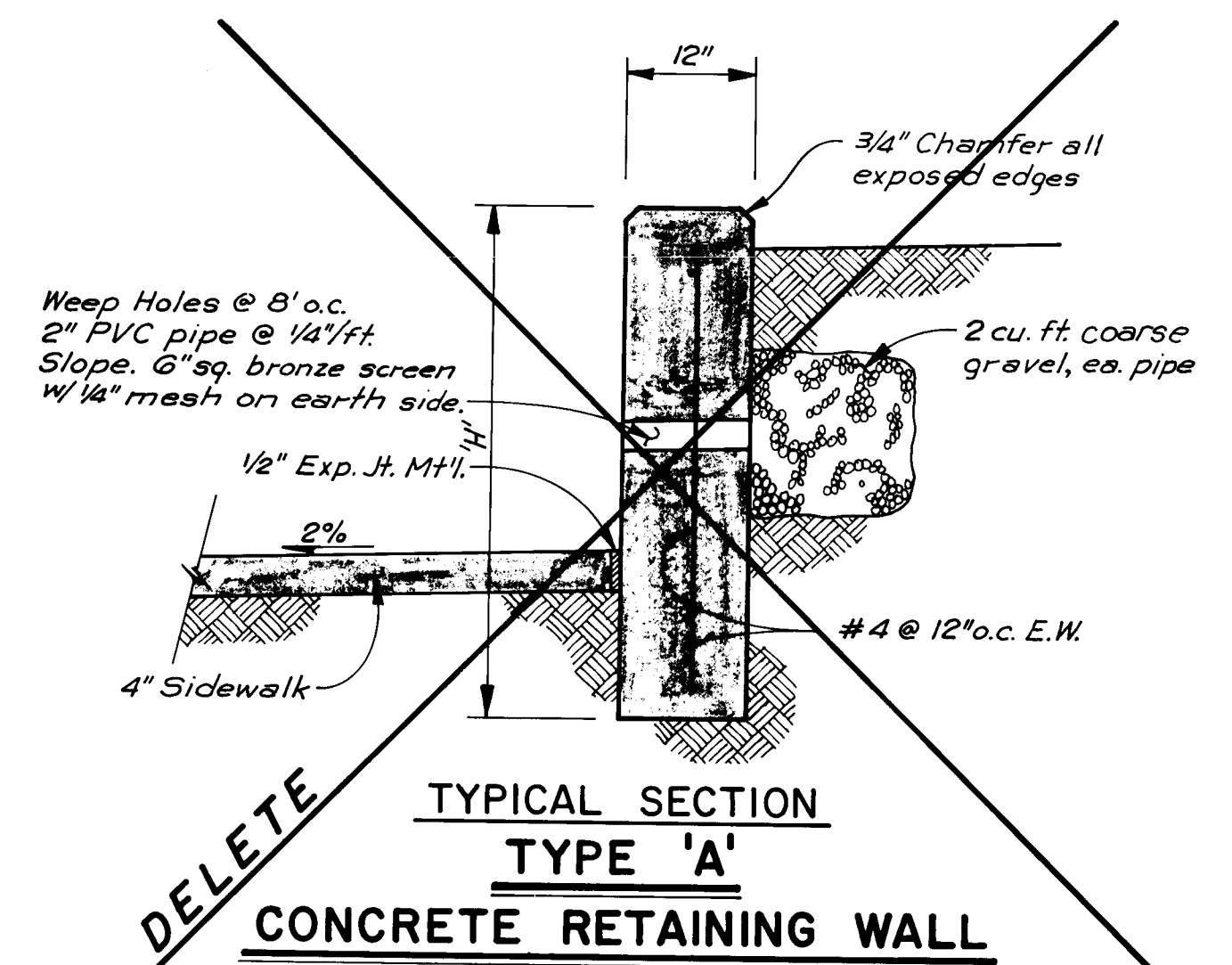
DRAWING NO. 3532 MAP NO. E-18, E-19 SHEET 8 OF 25

AS BUILT INFORMATION
CONTRACTOR: Moore & Conner
DATE: 8-89
INSPECTED BY: A.A.F.R.
ELEVATION: 5337.039
FILED IN: 12-EIB 1978
LOCATED: 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD
CORRECTED BY: A.A.F.R.
DATE: 8-89
MICRO-FILM INFORMATION
RECORDED BY: [Signature]
DATE: [Blank]
NO. [Blank]

ENGINEER'S SEAL
PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
No. 1386
JANUARY 1989
ANDREWS ASSURANCE & ROBERT, INC.
ALBUQUERQUE, NEW MEXICO

SURVEY INFORMATION
FIELD NOTES
DATE: [Blank]
BY: [Blank]
NO. [Blank]

REVISIONS
NO. DATE
DESIGNED BY: [Blank]
DRAWN BY: [Blank]
CHECKED BY: [Blank]
DATE: [Blank]
DATE: [Blank]
DATE: [Blank]

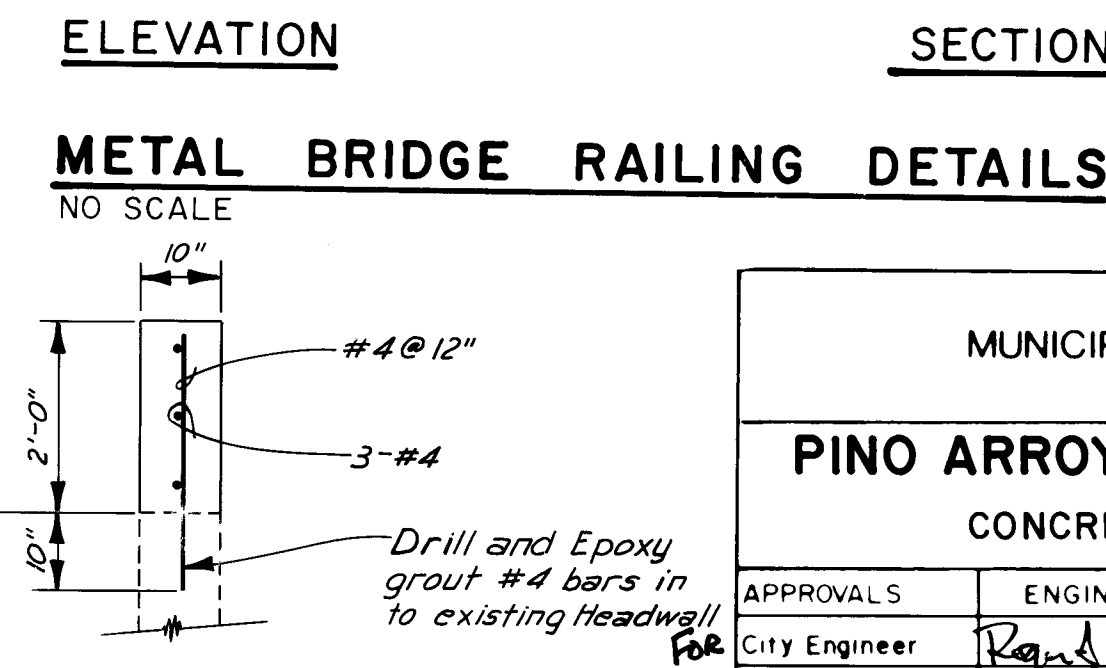
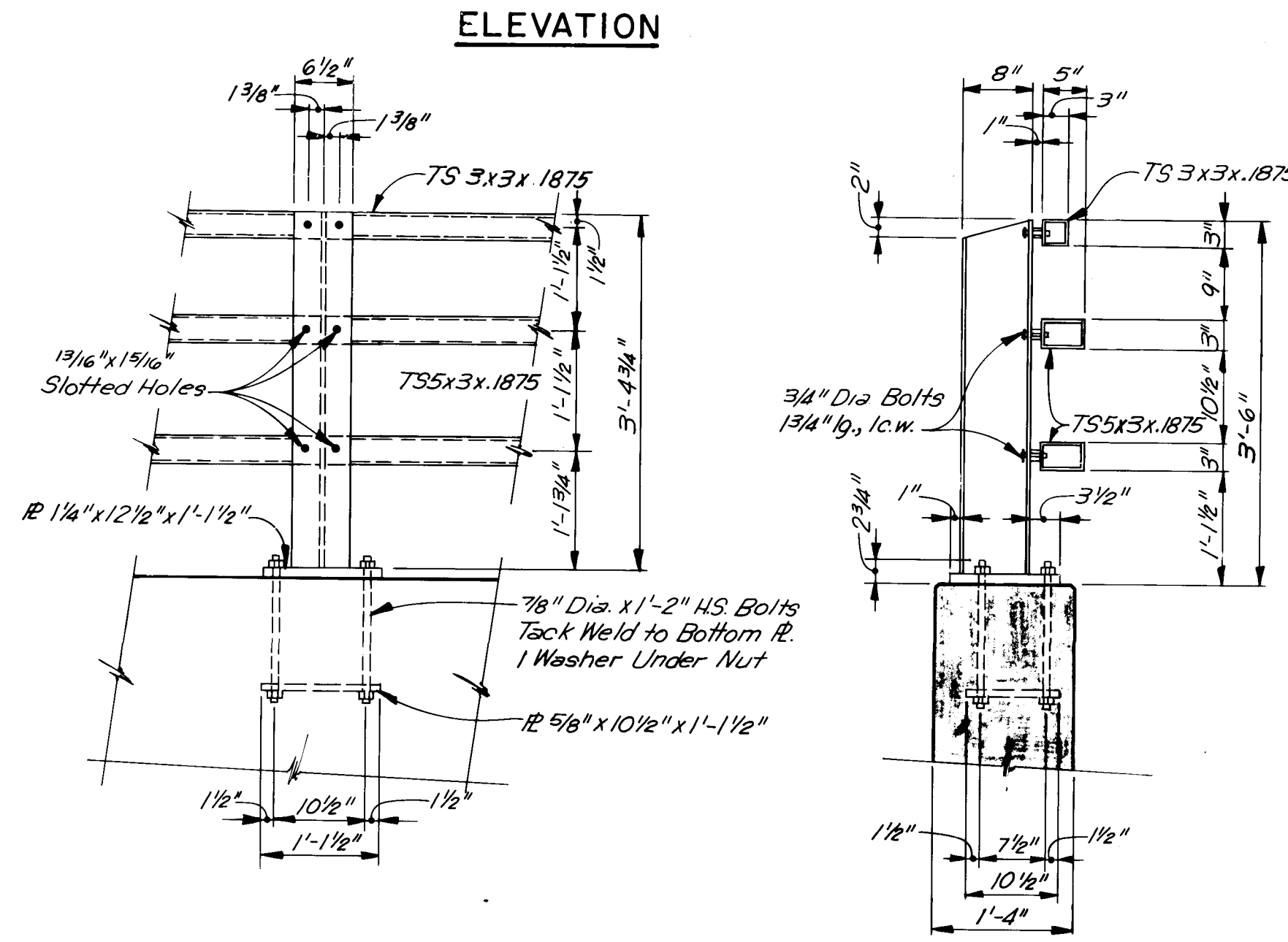
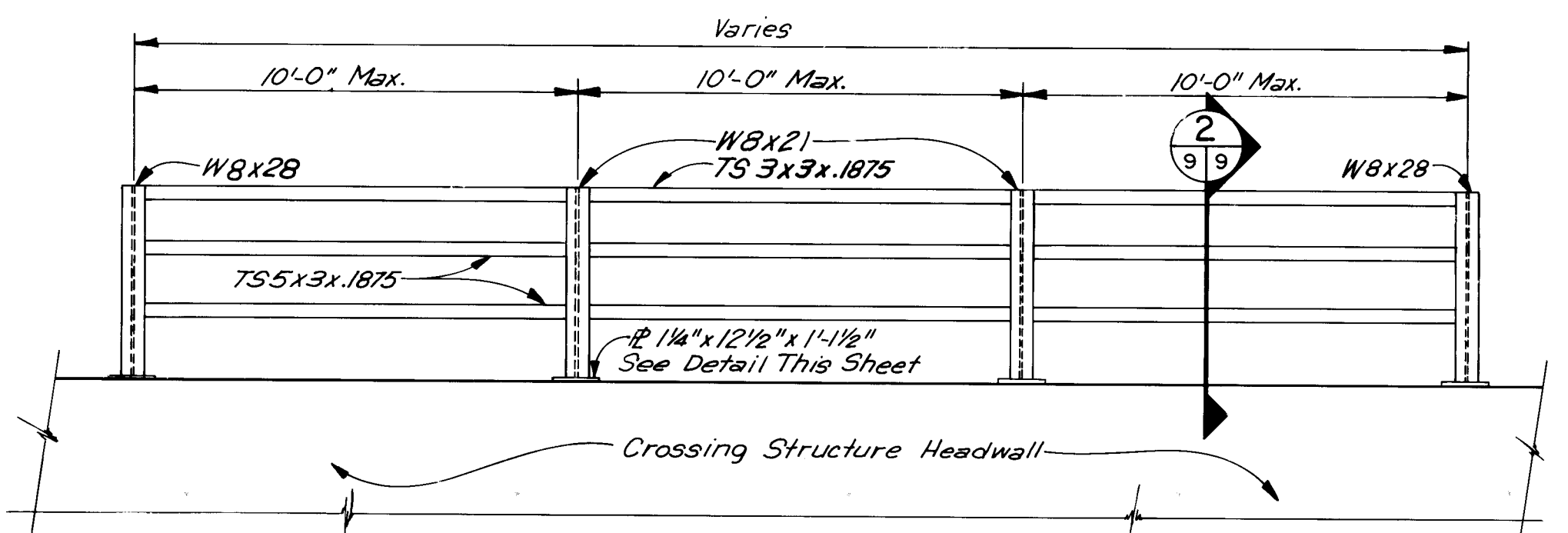
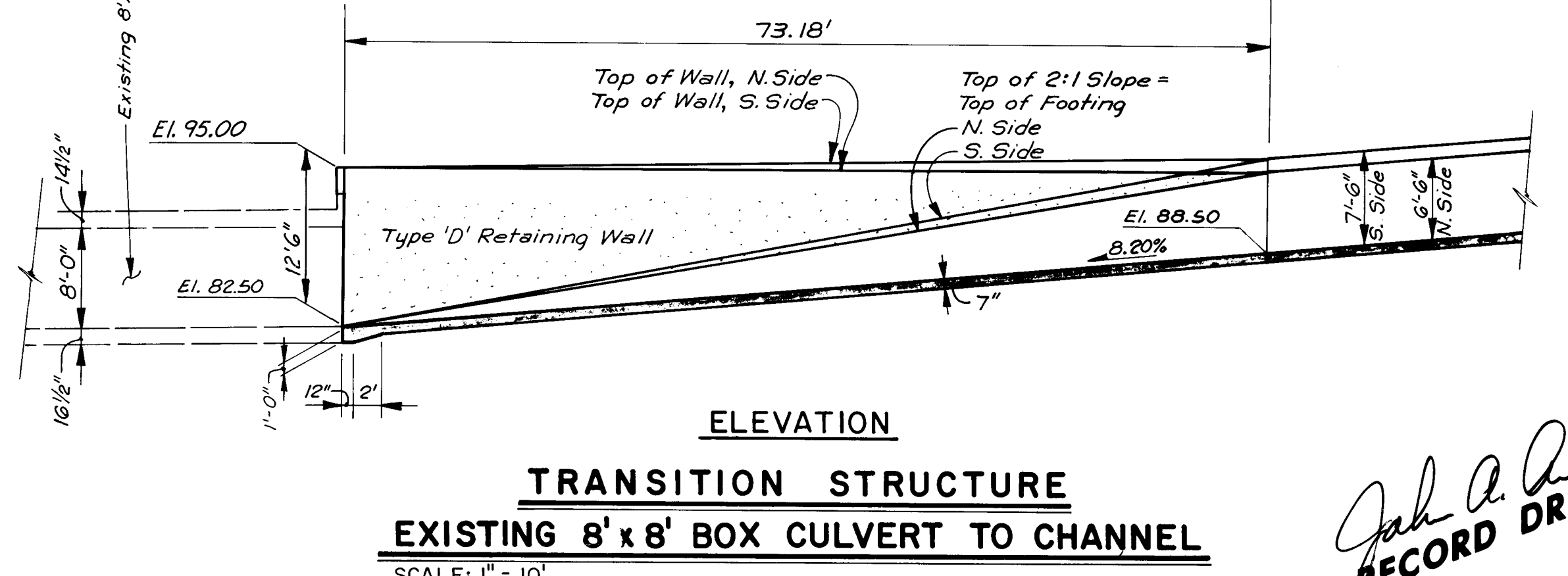
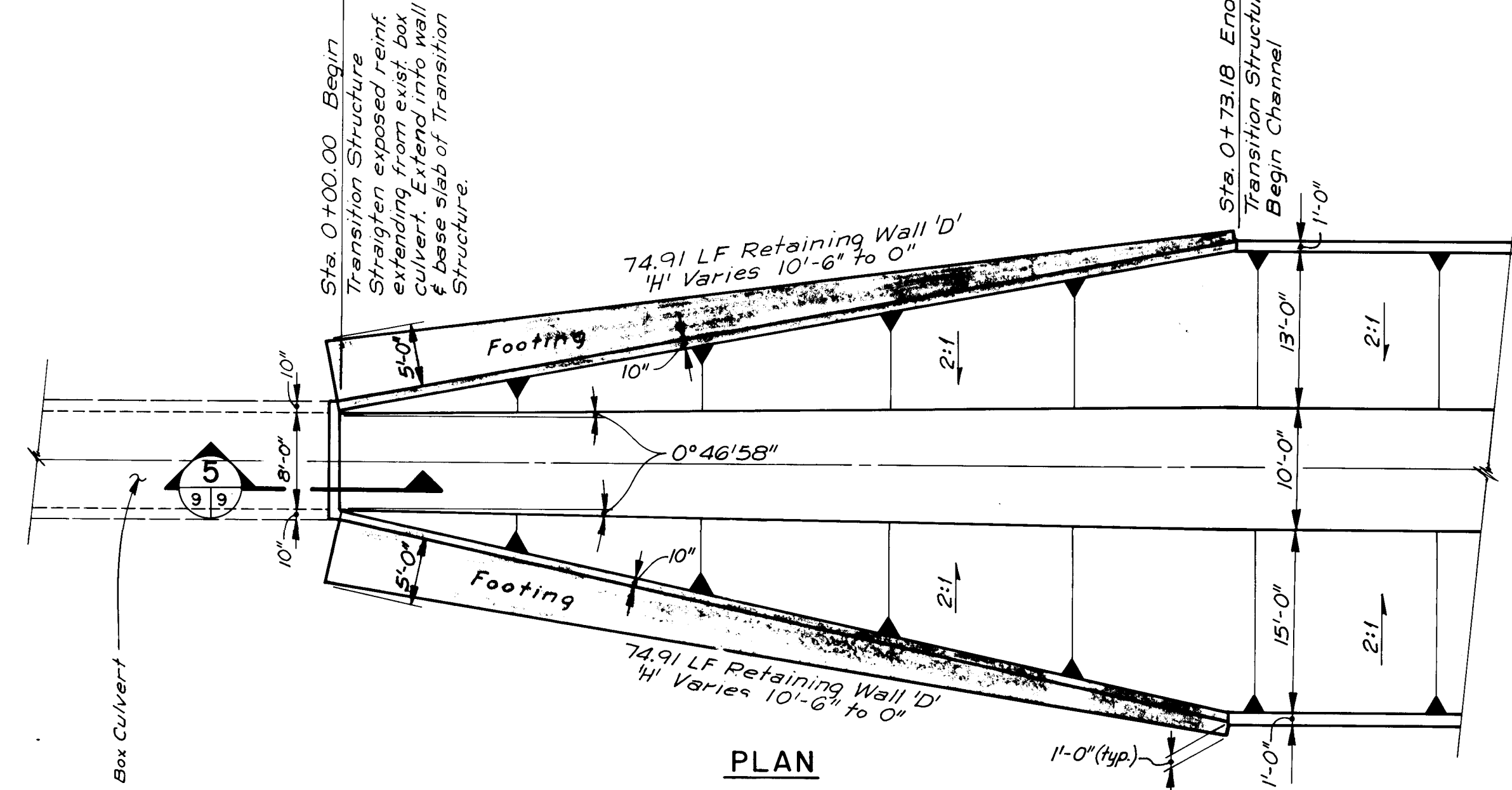
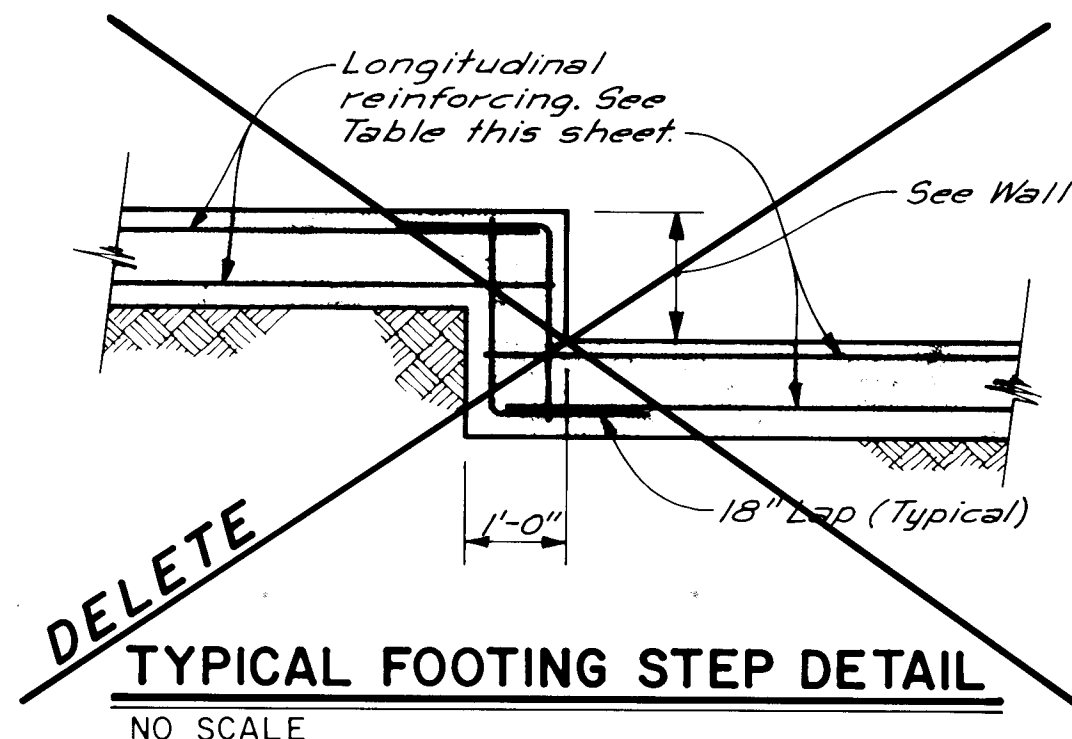
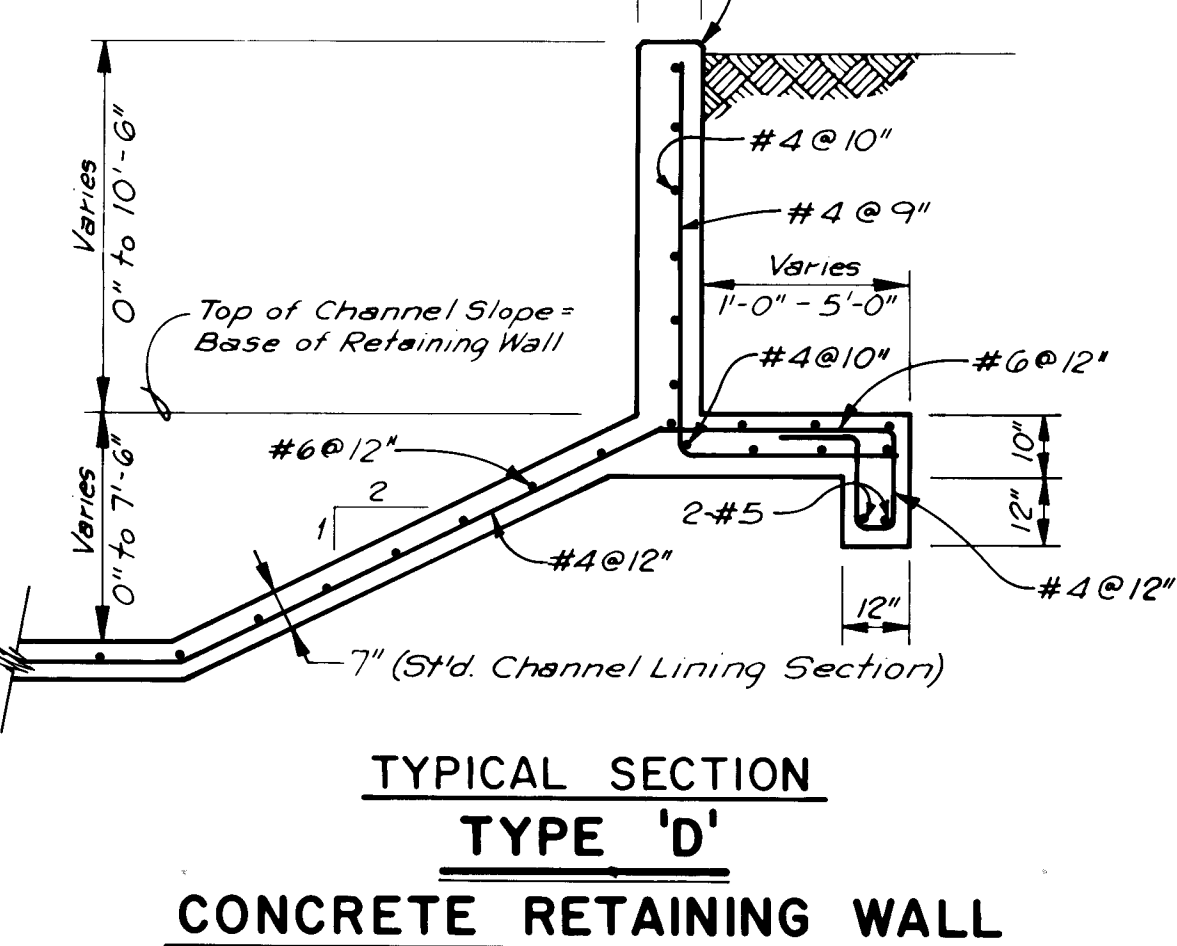
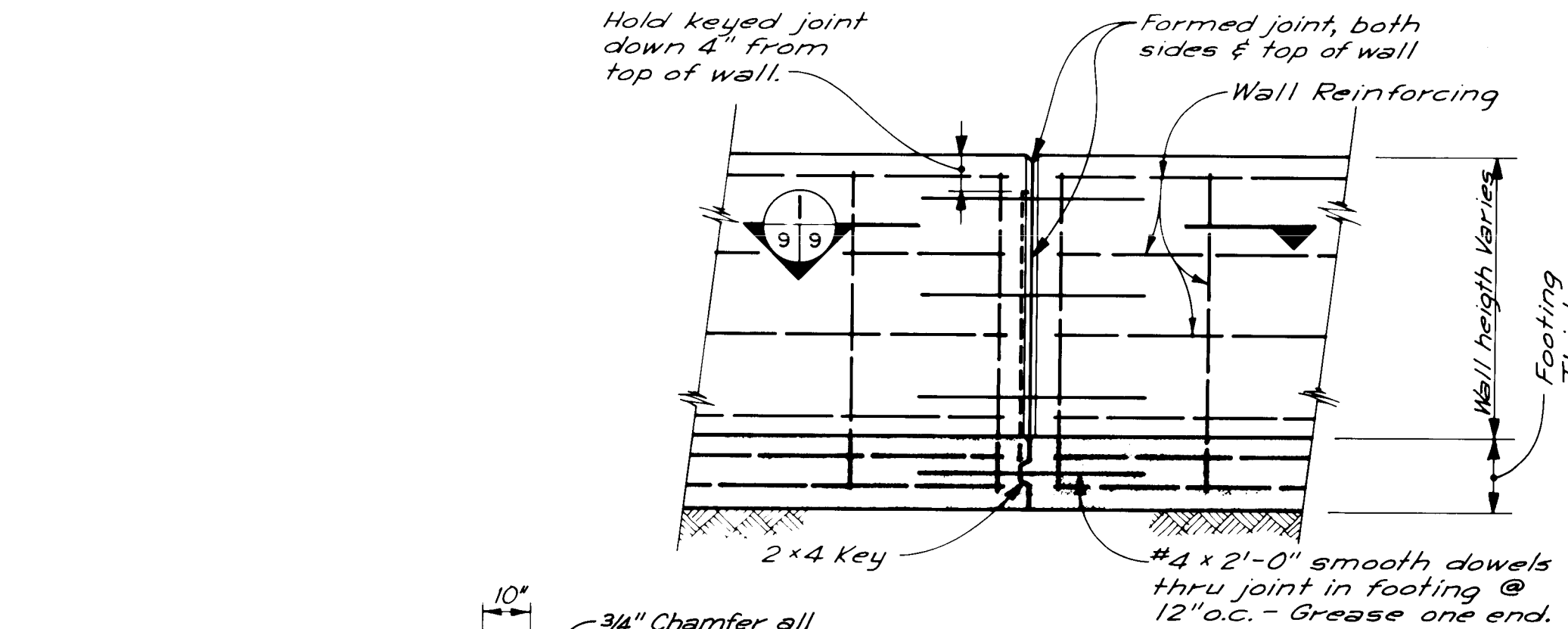


TYPE 'B' RETAINING WALL

H	B	b ₁	t	T	b ₂	V ₁	Y ₁	Y ₂
3'-0" OR LESS	1'-9"	0'-4"	10"	0'-10"	0'-7"	#4@18"	#4 x 1'-3"@18"	#4@10"
4'-0"	2'-0"	0'-5"	10"	0'-10"	0'-9"	#4@18"	#4 x 1'-8"@18"	#4@10"
5'-0"	2'-8"	0'-5"	10"	0'-10"	1'-5"	#4@18"	#4 x 2'-2"@14"	#4@10"

TYPE 'C' RETAINING WALL

H	B	b ₁	t	T	b ₂	V ₁	Y ₁	Y ₂
3'-0" OR LESS	2'-6"	0'-10"	8"	0'-10"	1'-0"	#4@18"	#4 x 2'-0"@18"	#4@10"
4'-0"	3'-0"	1'-2"	8"	0'-10"	1'-2"	#4@18"	#4 x 2'-6"@18"	#4@10"
5'-0"	3'-6"	1'-3"	8"	0'-10"	1'-7"	#4@14"	#4 x 3'-0"@18"	#4@10"
6'-0"	4'-2"	1'-5"	8"	0'-10"	2'-1"	#4@12"	#4 x 3'-8"@12"	#4@10"
7'-0"	4'-8"	1'-7"	10"	1'-0"	2'-3"	#4@10"	#4 x 4'-2"@10"	#4@10"
8'-0"	5'-2"	1'-9"	10"	1'-0"	2'-7"	#5@12"	#5 x 4'-6"@12"	#4@10"
9'-0"	5'-9"	2'-0"	10"	1'-0"	2'-11"	#5@10"	#5 x 4'-10"@12"	#4@10"
10'-0"	6'-3"	2'-2"	10"	1'-0"	3'-3"	#5@8"	#5 x 5'-1"@12"	#5@10"
11'-0"	6'-9"	2'-4"	10"	1'-0"	3'-7"	#5@6"	#5 x 5'-5"@12"	#5@10"
12'-0"	7'-3"	2'-6"	10"	1'-2"	3'-11"	#6@9"	#5 x 5'-8"@12"	#5@10"
13'-0"	7'-9"	2'-8"	12"	1'-2"	4'-1"	#6@8"	#6 x 5'-10"@12"	#5@10"
14'-0"	8'-4"	2'-10"	12"	1'-3"	4'-6"	#6@6"	#6 x 6'-0"@12"	#5@10"



- NOTES**
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
 - REINFORCING STEEL SHALL BE GRADE 60.
 - SEAL ALL CONTROL JOINTS ON EARTH SIDE OF RETAINING WALLS. JOINT SEALANT SHALL BE SONOLASTIC NP-1 AS MFG'D BY SONOBORN OR APPROVED EQUAL.
 - EARTH SIDE OF RETAINING WALLS SHALL BE DAMP PROOFED. USE HYDROSEAL 700 8 AS MFG'D BY SONOBORN OR APPROVED EQUAL. TWO COATS.
 - CONTRACTOR SHALL PERFORM ALL EXCAVATION AND BACKFILL AS REQUIRED FOR A COMPLETE INSTALLATION.
 - ALL RETAINING WALL FOOTING SHALL BE FOUNDED UPON 12" SUBGRADE PREPARATION @ 95% DENSITY.

AS BUILT INFORMATION

CONTRACTOR: Moore & Cowart
 WORK NO.: 12-E18, 1978
 ELEVATION: 5337.039
 DATE: 8-89
 BY: J.A. JCS
 CHECKED BY: J.M.

ENGINEER'S SEAL

PROFESSIONAL ENGINEER
 STATE OF NEW MEXICO
 No. 8960
 JOHN A. ANDRES

REVISIONS

NO.	DATE	REMARKS
1	6-9-89	Extended Headwall @ I-25

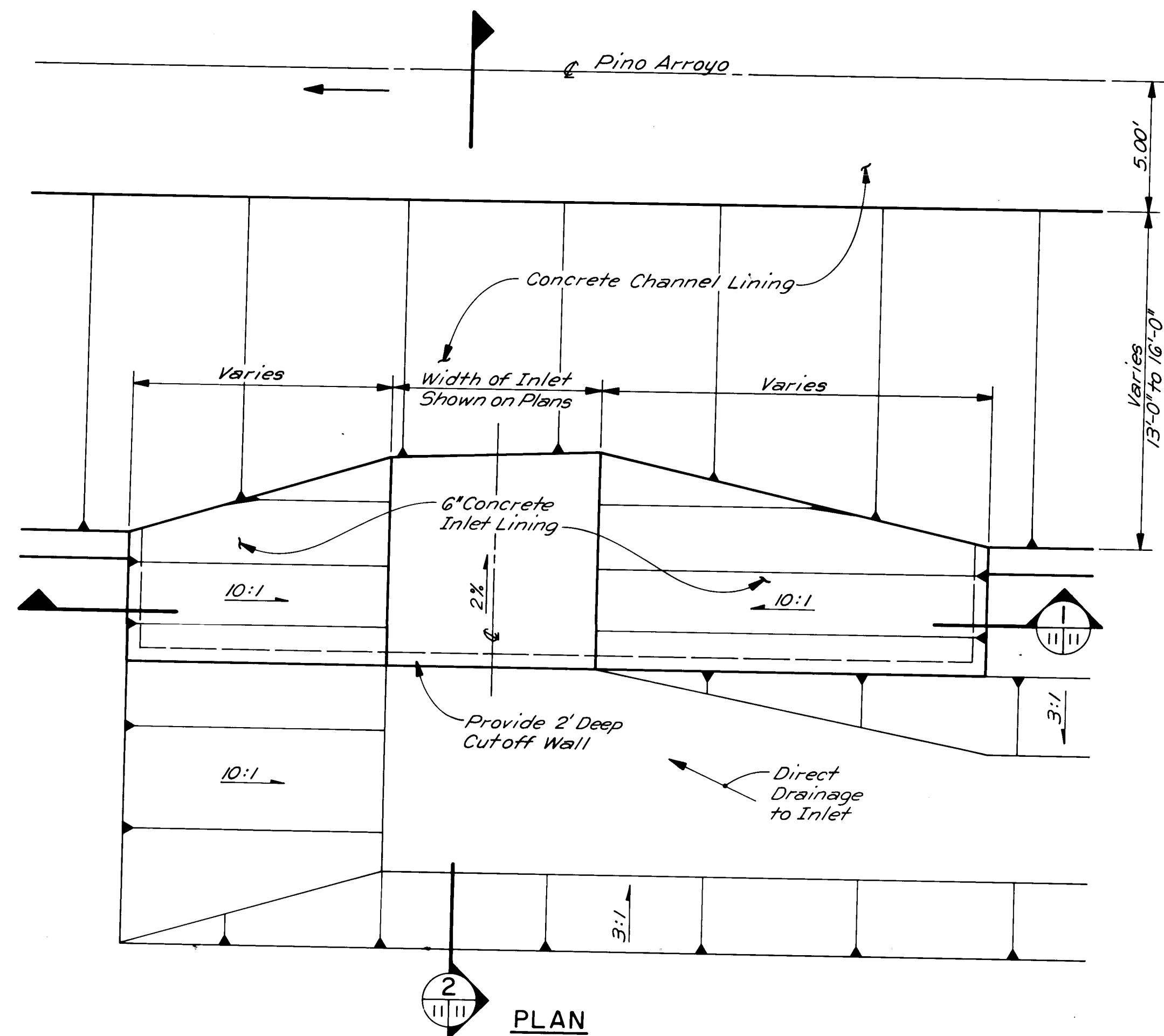
DESIGNED BY: J.A. JCS
DRAWN BY: J.M.
CHECKED BY: J.M.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

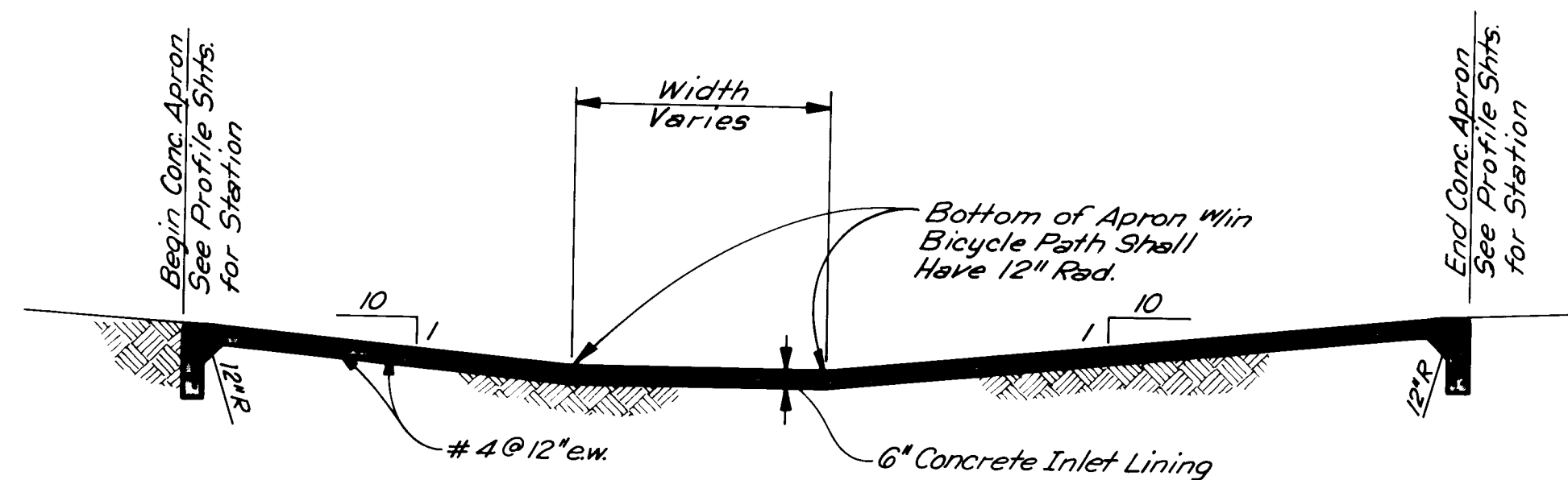
PINO ARROYO IMPROVEMENTS - PHASE II
CONCRETE RETAINING WALL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Randy Rios	1/25/89	Inspector	Paul Rios	1/25/89
A.C.E. Design	Randy Rios	1/25/89	Traffic	Randy Rios	1/25/89
A.C.E. Hydrology	Randy Rios	1/25/89	Water	Randy Rios	1/25/89

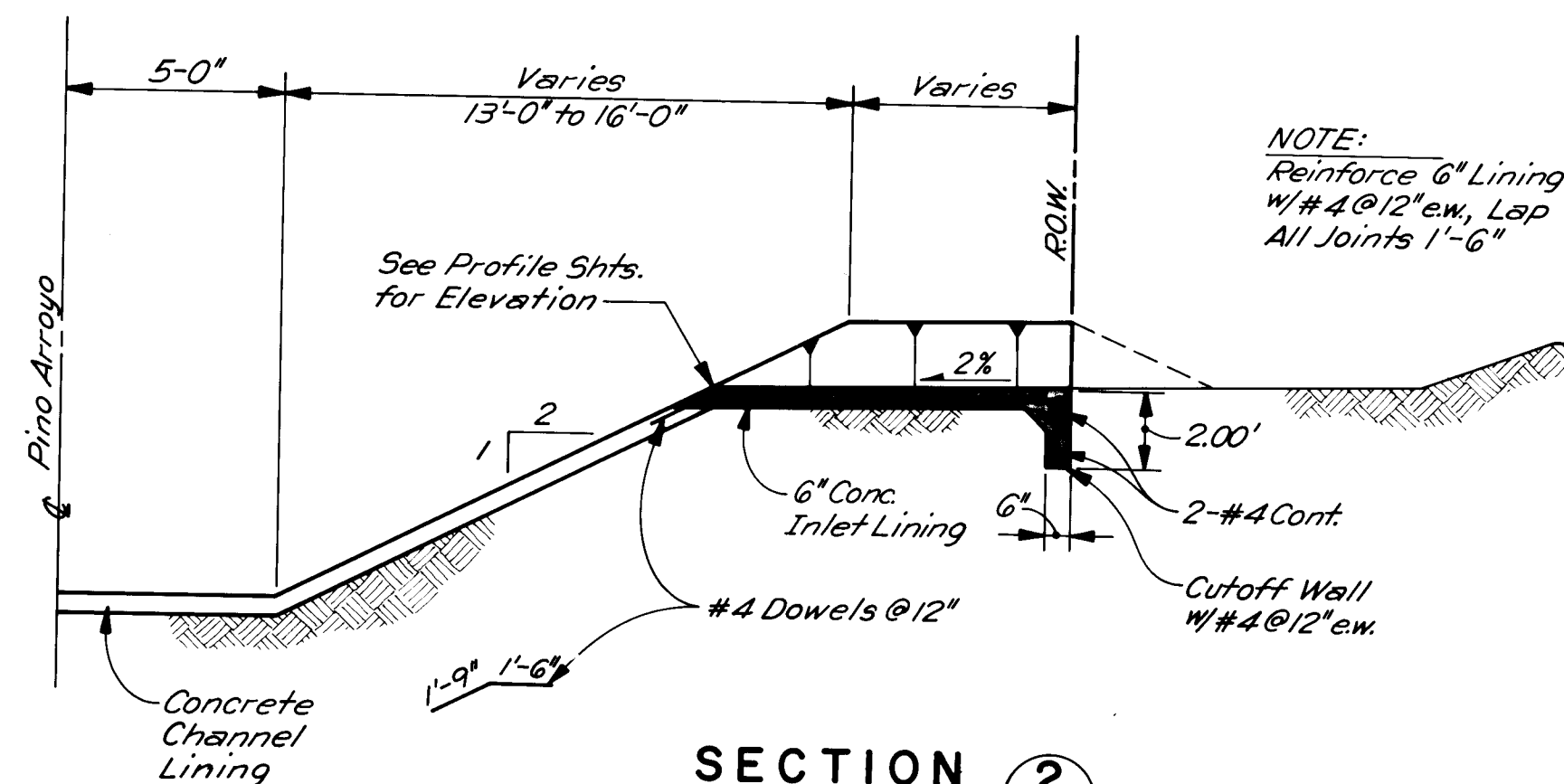
DRAWING NO. 3532
MAP NO. E-18, E-19
SHEET 9 OF 25



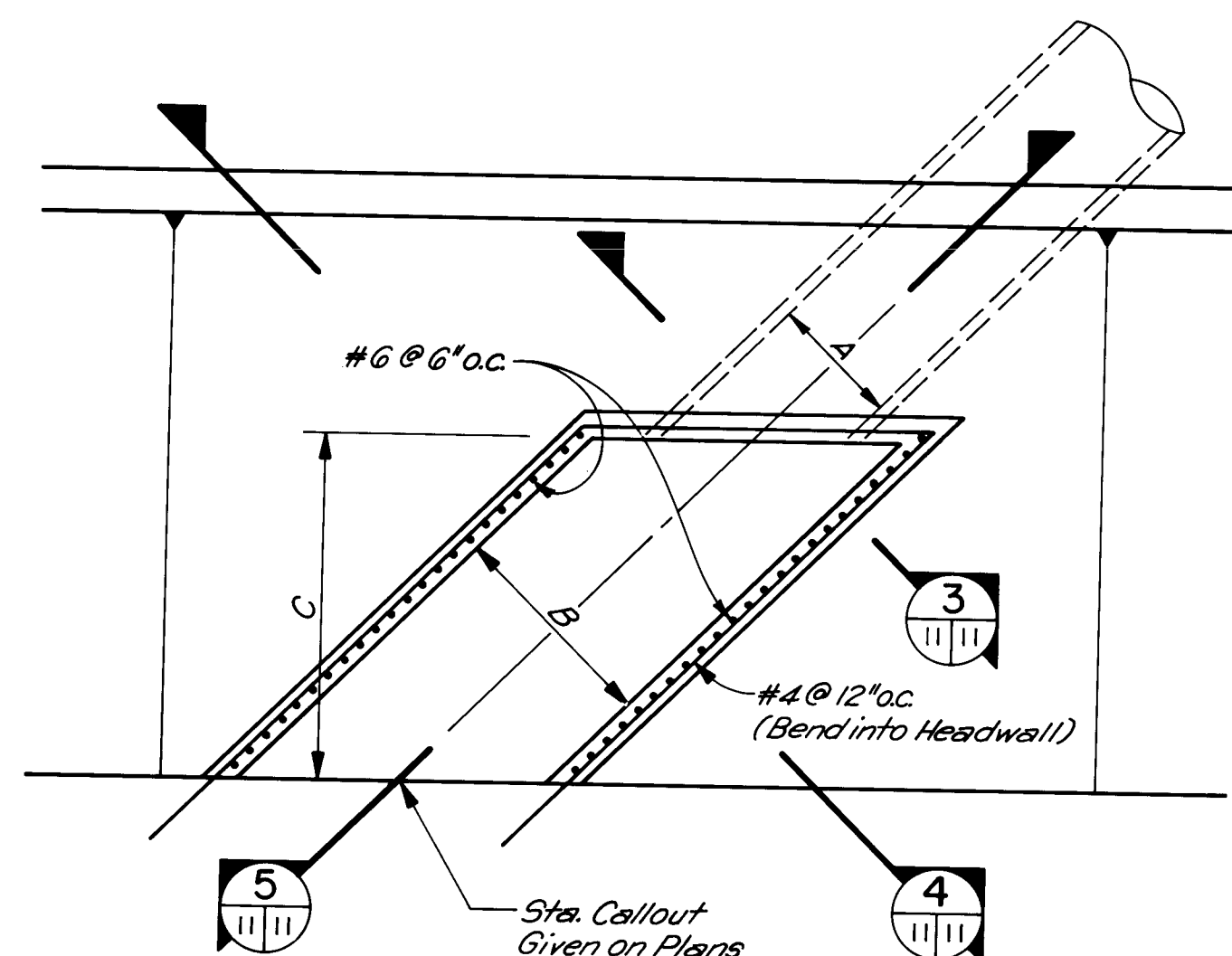
TYPICAL SIDE INLET DETAIL
SCALE: 1/4" = 1'-0"



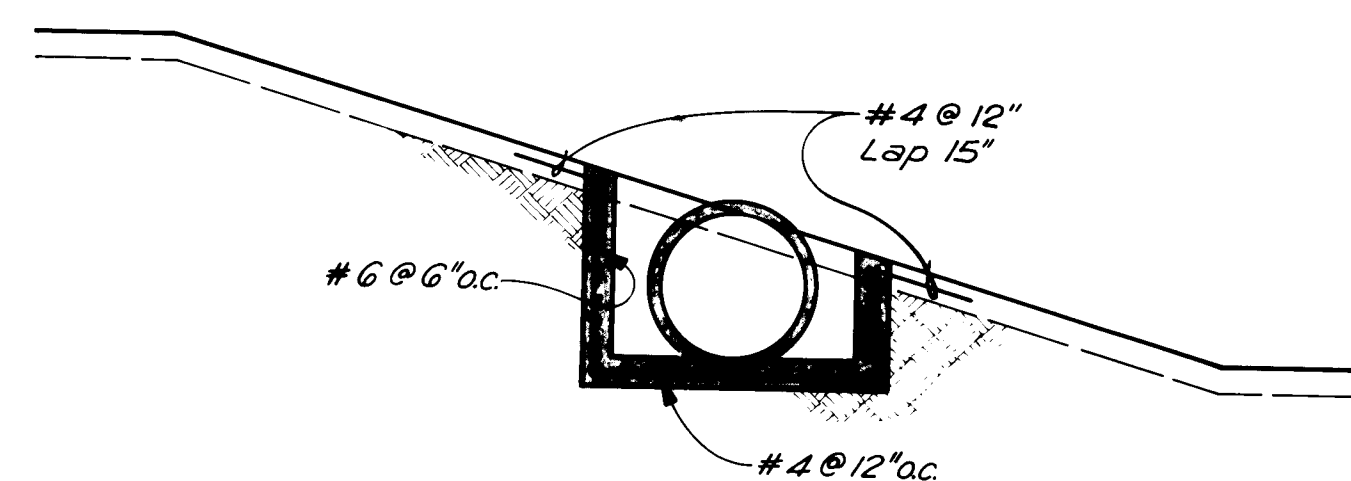
SECTION 1
SCALE: 1/4" = 1'-0"



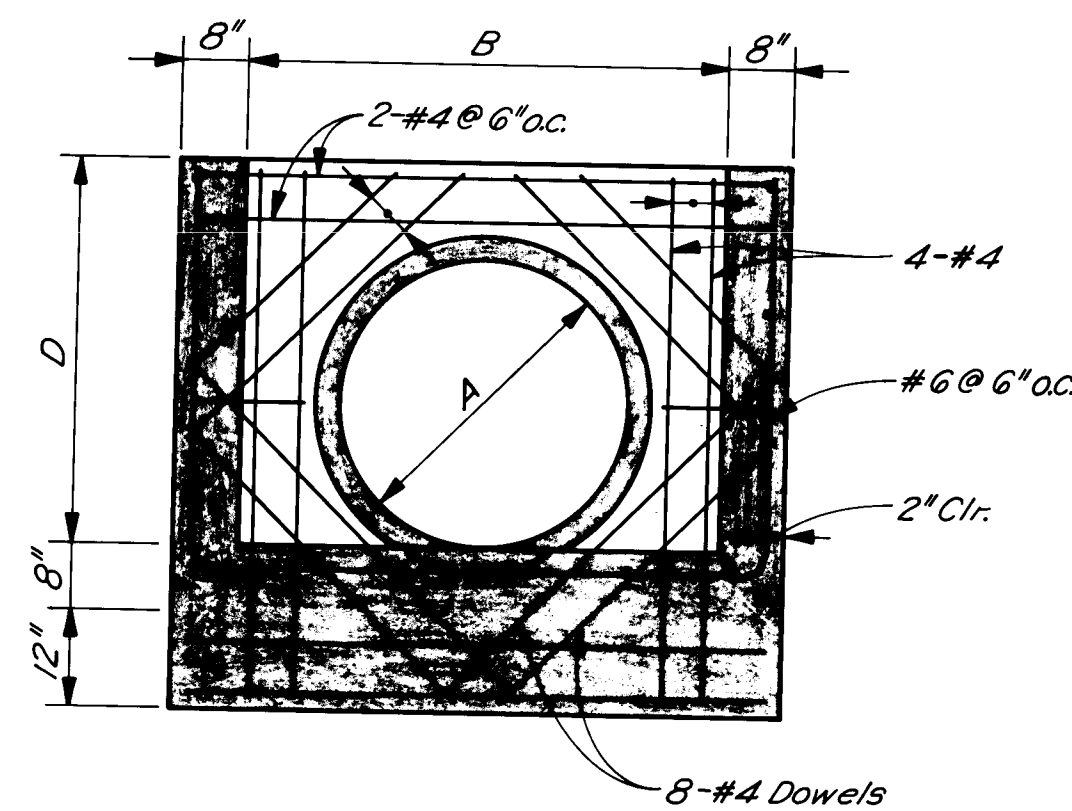
SECTION 2
SCALE: 1/4" = 1'-0"



PIPE CONNECTION TO CHANNEL DETAIL
SCALE: 1/4" = 1'-0"

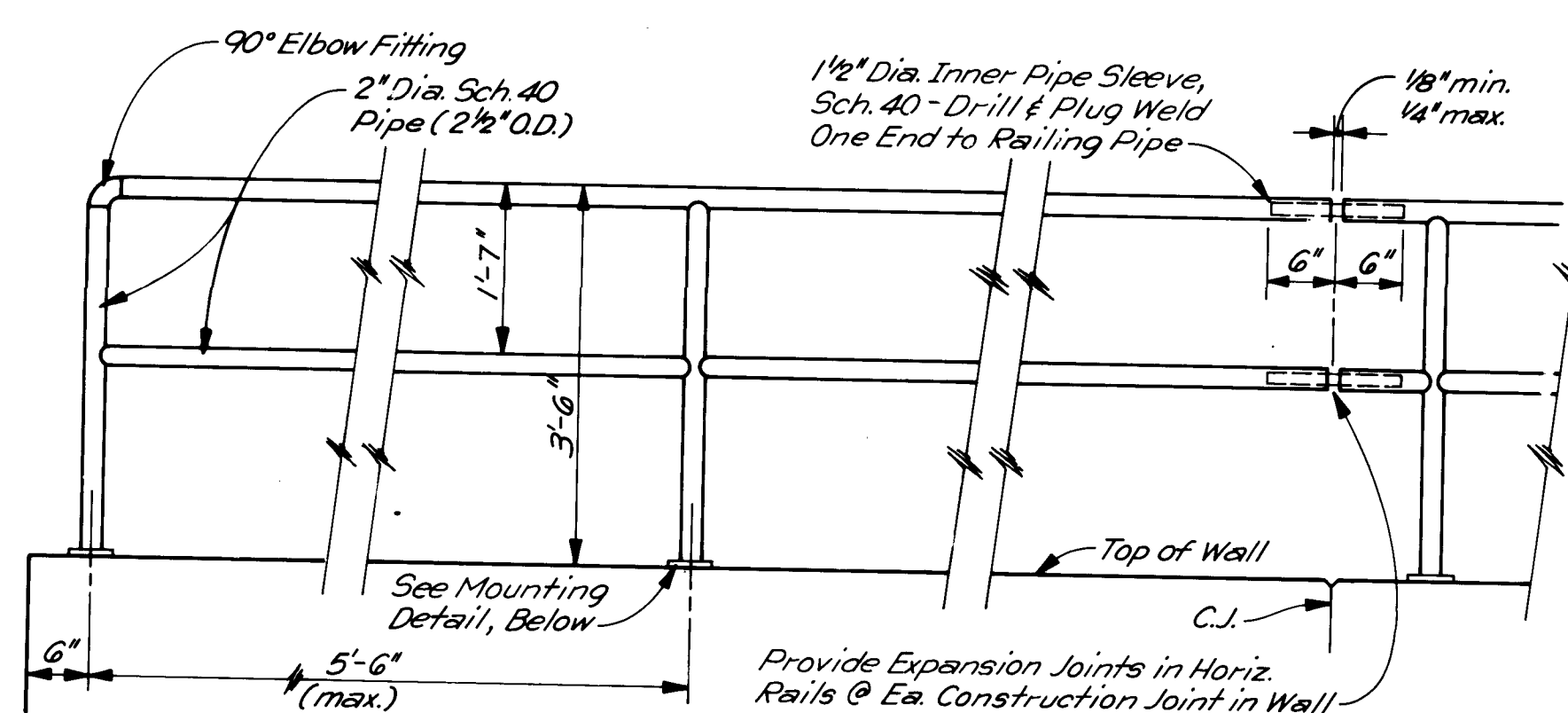


SECTION 4
SCALE: 1/4" = 1'-0"

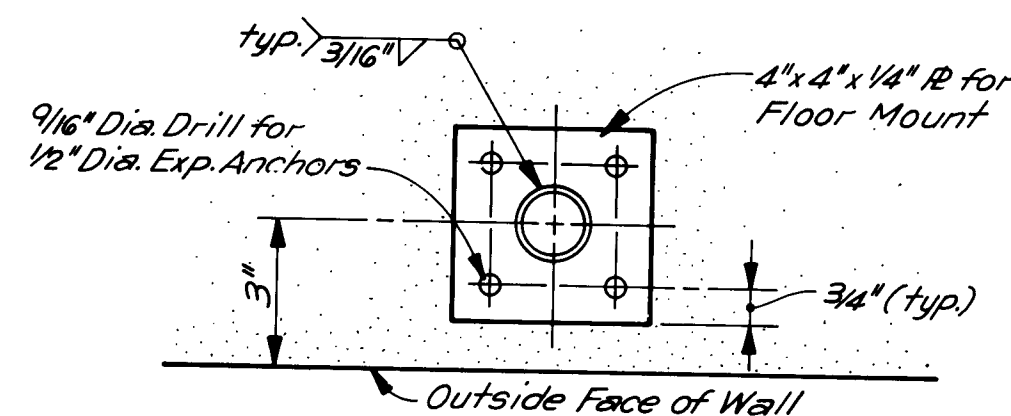


SECTION 3
SCALE: 1/2" = 1'-0"

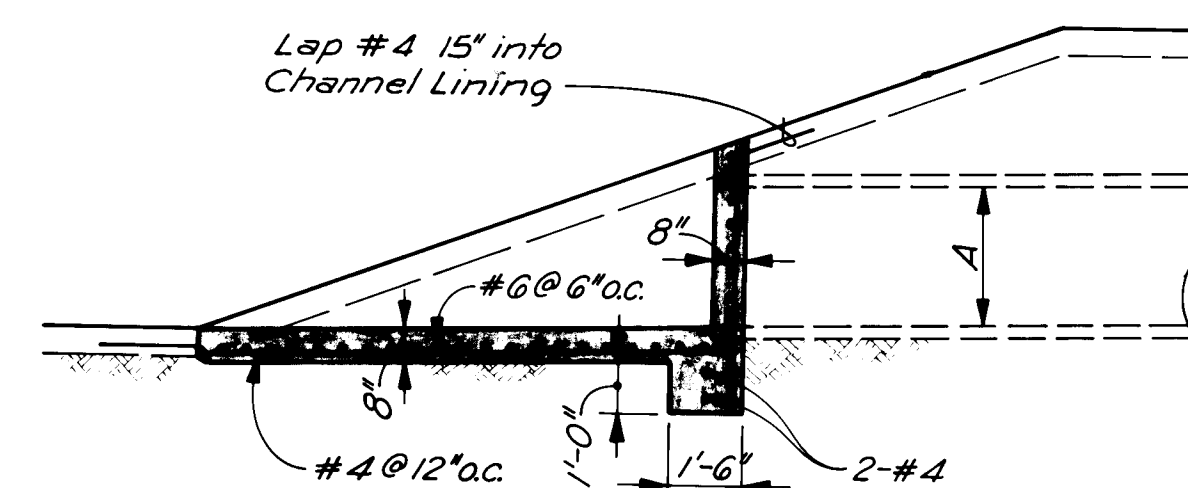
PIPE CONNECTION TO CHANNEL			
A	B	C	D
24"	4'-0"	6'-0"	3'-0"
30"	4'-6"	7'-0"	3'-6"
36"	5'-0"	8'-0"	4'-0"
42"	5'-6"	9'-0"	4'-6"
48"	6'-0"	10'-0"	5'-0"



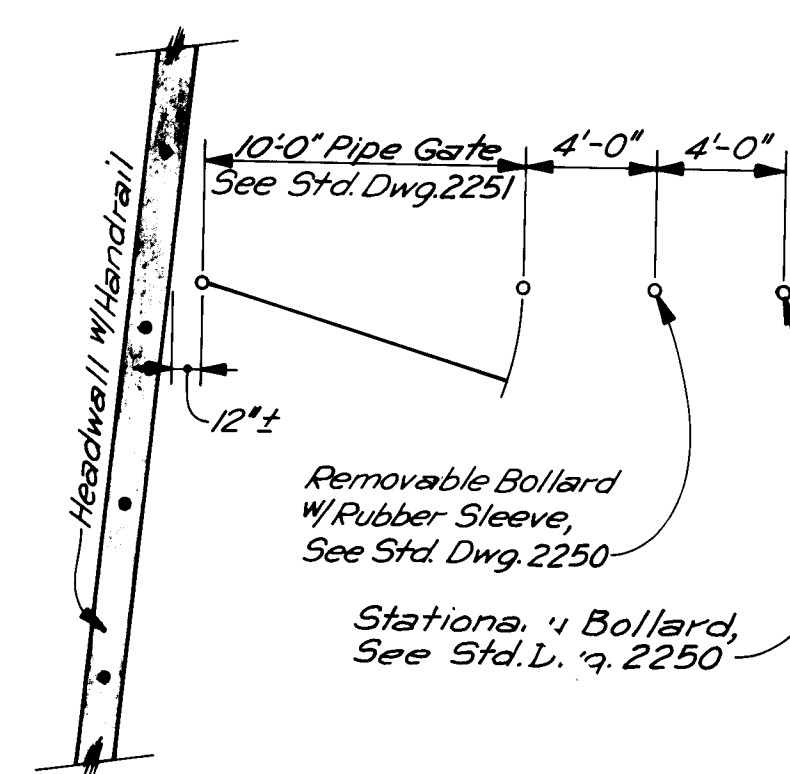
ELEVATION HANDRAIL DETAIL
SCALE: 3/4" = 1'-0"



MOUNTING DETAIL
NO SCALE



SECTION 5
SCALE: 1/4" = 1'-0"



GATE/BOLLARD DETAIL
NO SCALE

John A. Anderson
RECORD DRAWING

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
PINO ARROYO IMPROVEMENTS - PHASE II
CHANNEL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Robert Green	1/25/89	Liquid Waste	PEBO	1/25/89
A.C.E. Design	Robert Green	1/25/89	Traffic	Robert Green	1/25/89
A.C.E. Hydrology	Robert Green	1/25/89	Water	PEBO	1/25/89

DRAWING NO. **3532** MAP NO. **E-18, E-19** SHEET **11** OF **25**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE		DATE		DATE	
CONTRACTOR	Moore & Convent	STAKE BY	A.A.R.	DATE	8-89	INSPECTOR'S	DATE	DATE	DATE	NO.	DATE	BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
ACS STA	"12-E18 1978"	ELEVATION	5337.039	ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND	LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD														
VERIFICATION BY	A.A.R.	DATE	8-89	CORRECTED BY	A.A.R.	DATE	8-89	MICRO-FILM INFORMATION	RECORDED BY	NO.	DATE								



SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"



SCALE: 1/2"=1'-0"

SURVEY INFORMATION		FIELD NOTES		BENCH MARKS	AS BUILT INFORMATION	
NO.	BY	DATE			CONTRACTOR	Moore & Cowart
				ACS STA "12-E-18 1978"	ELEVATION 5337.039	WORK ORDERED BY <i>A.A.F.R.</i> DATE <i>8-89</i>
				ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND		INSPECTORS ACCEPTANCE BY <i>R.R.Holcomb</i> DATE <i>8-89</i>
				LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD		FIELD VERIFICATION BY <i>A.A.F.R.</i> DATE <i>8-89</i>
						DRAWINGS CORRECTED BY <i>A.A.F.R.</i> DATE <i>8-89</i>
						<i>MICRO-FILM INFORMATION</i>
						RECORDED BY DATE
						NO

ENGINEER'S SEAL

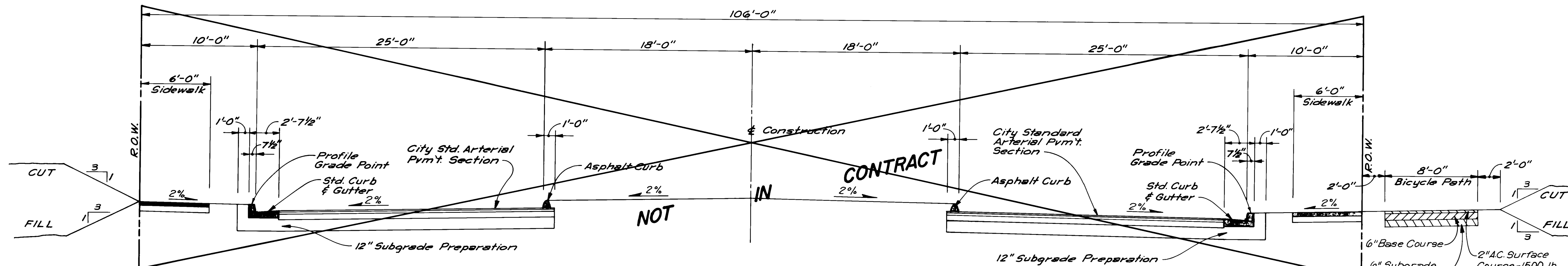
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK
No. 1346
SARNOFF, ANTHONY J.

ANDREWS ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
140 BROADWAY
NEW YORK, N.Y. 10038

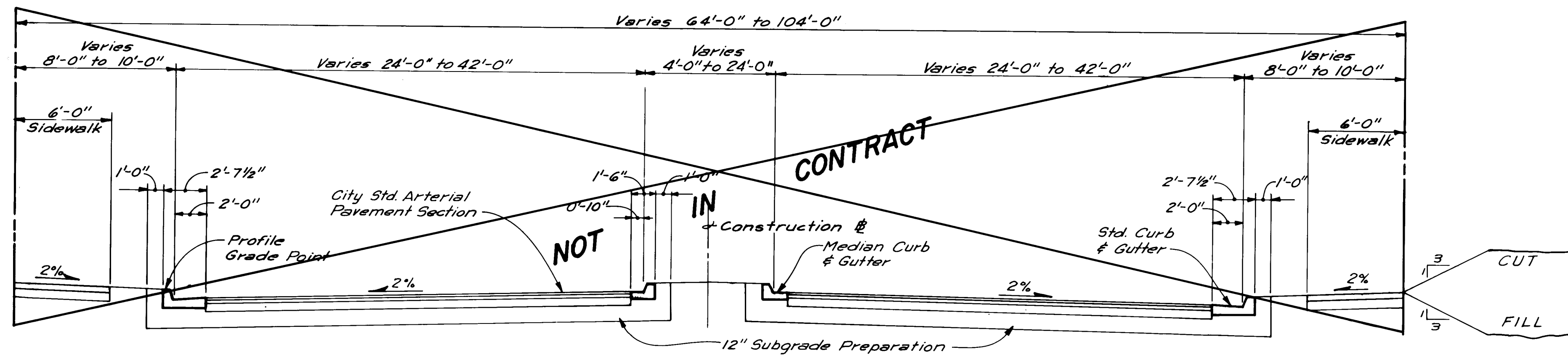
NO. DATE		REMARKS	BY
<i>REVISIONS</i>			
DESIGN			
DESIGNED BY <i>J/M</i>		DATE <i>Jan. 1989</i>	
DRAWN BY <i>TL</i>		DATE <i>Jan. 1989</i>	
CHECKED BY <i>J/M</i>		DATE <i>Jan. 1989</i>	

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Rogers & Shea</i>	1/25/89	Liquid Waste	<i>PEBO</i>	1/25/89
ACE - Design	<i>Rogers & Shea</i>	1/25/89	Traffic	<i>Rogers & Shea</i>	1/25/89
ACE - Hydrology	<i>Rogers & Shea</i>	1/25/89	Water	<i>PEBO</i>	1/25/89

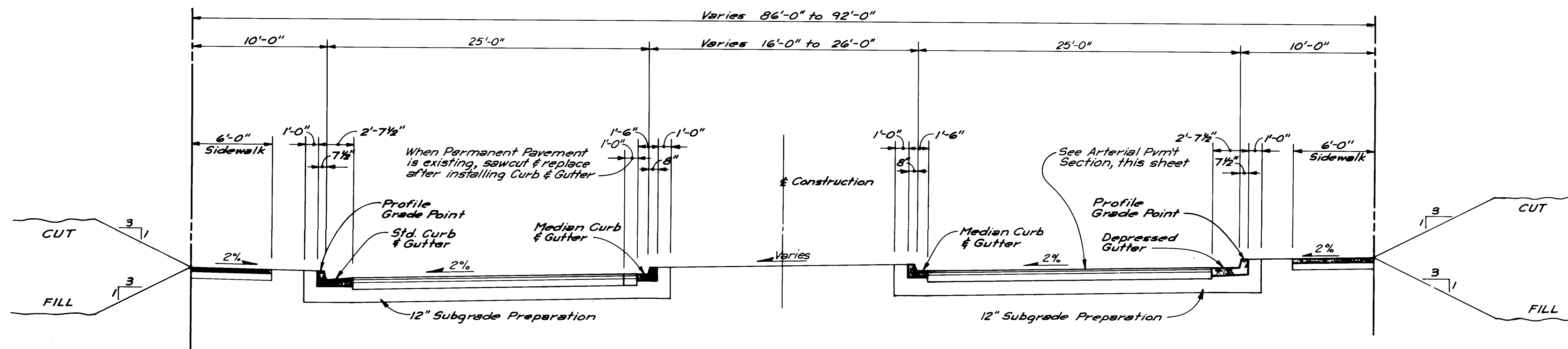
DRAWING NO.	3532	MAP NO.	E-18, E-19	SHEET	OF	12	25
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WYOMING BOULEVARD NE.
SCALE: 1" = 5'

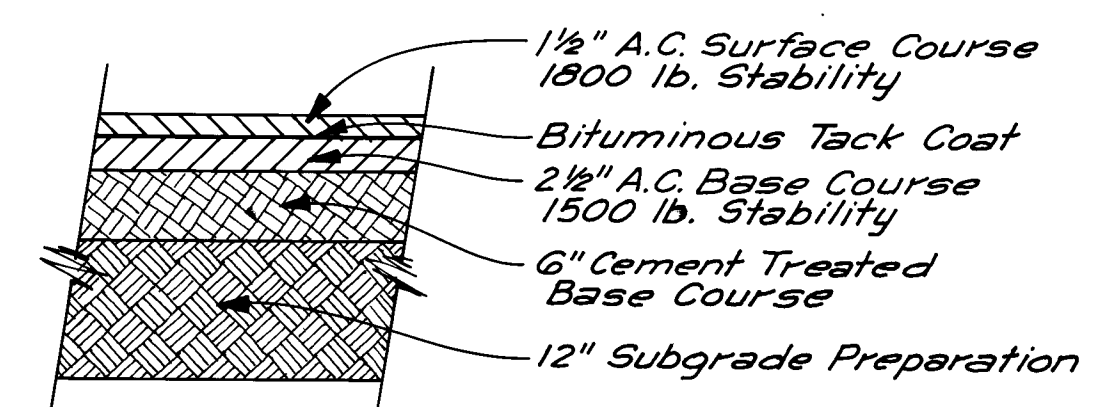


LOUISIANA BOULEVARD NE.
SCALE: 1" = 5'

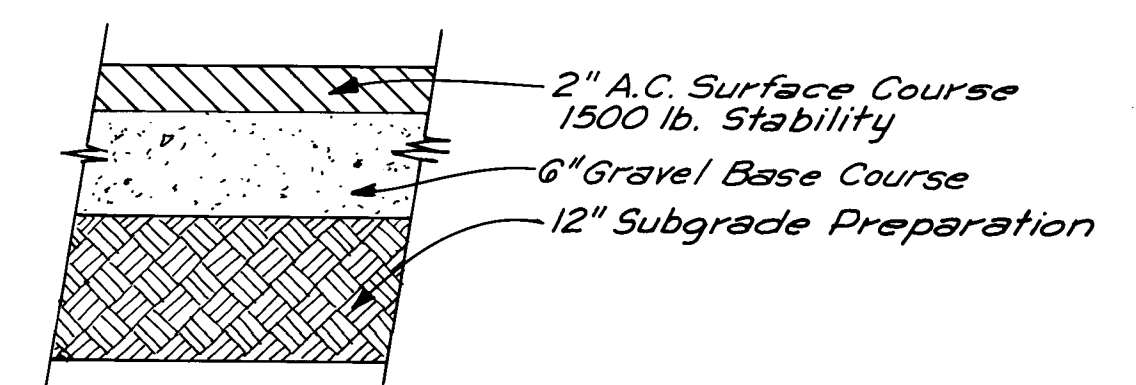


PERMANENT PAVEMENT

SAN PEDRO DRIVE NE.
SCALE: 1" = 5'



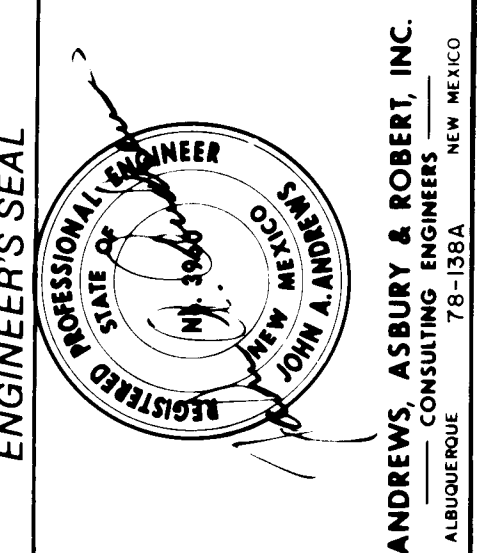
ARTERIAL PAVEMENT SECTION
NO SCALE



TEMPORARY PAVEMENT SECTION
NO SCALE

John A. Andrews
RECORD DRAWING

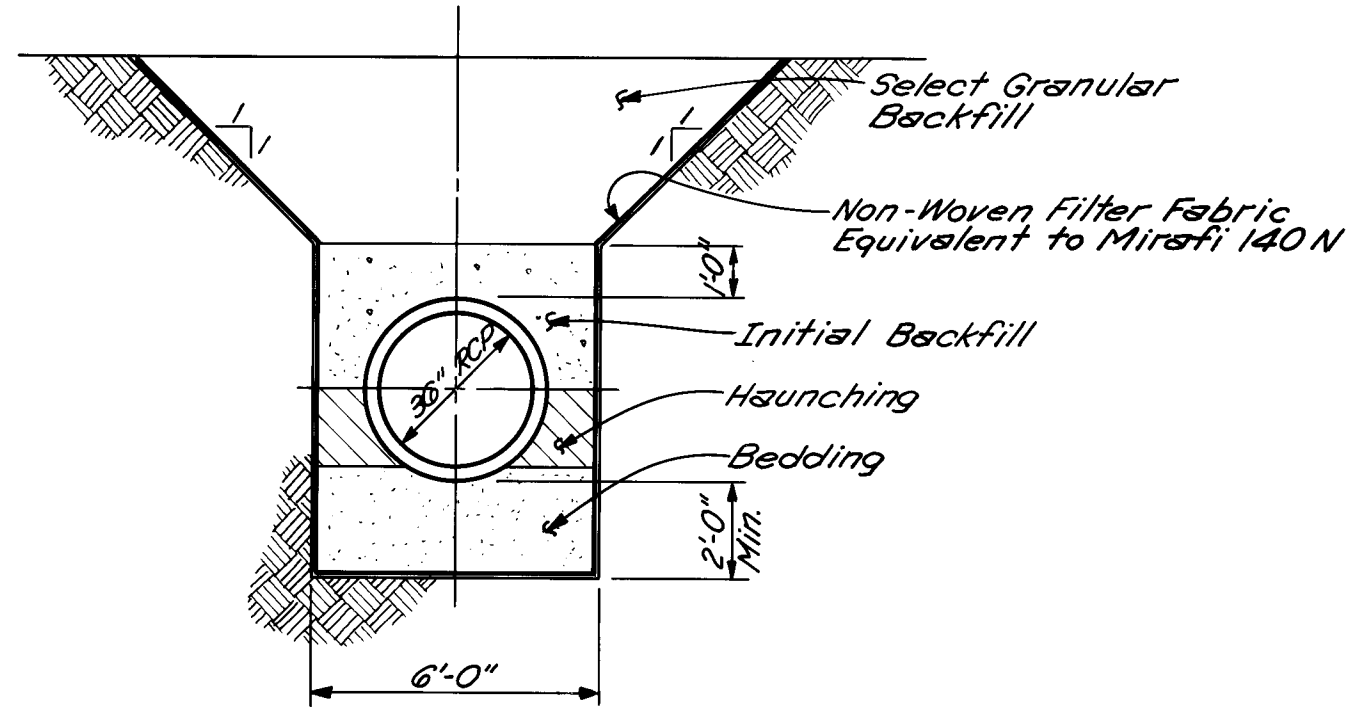
AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	MOORE & CONWAY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
INSPECTOR'S	DATE	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
FIELD	DATE	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
VERIFICATION	DATE	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
CORRECTION	DATE	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
RECORDED BY	DATE	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
NO.	DATE	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE



ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

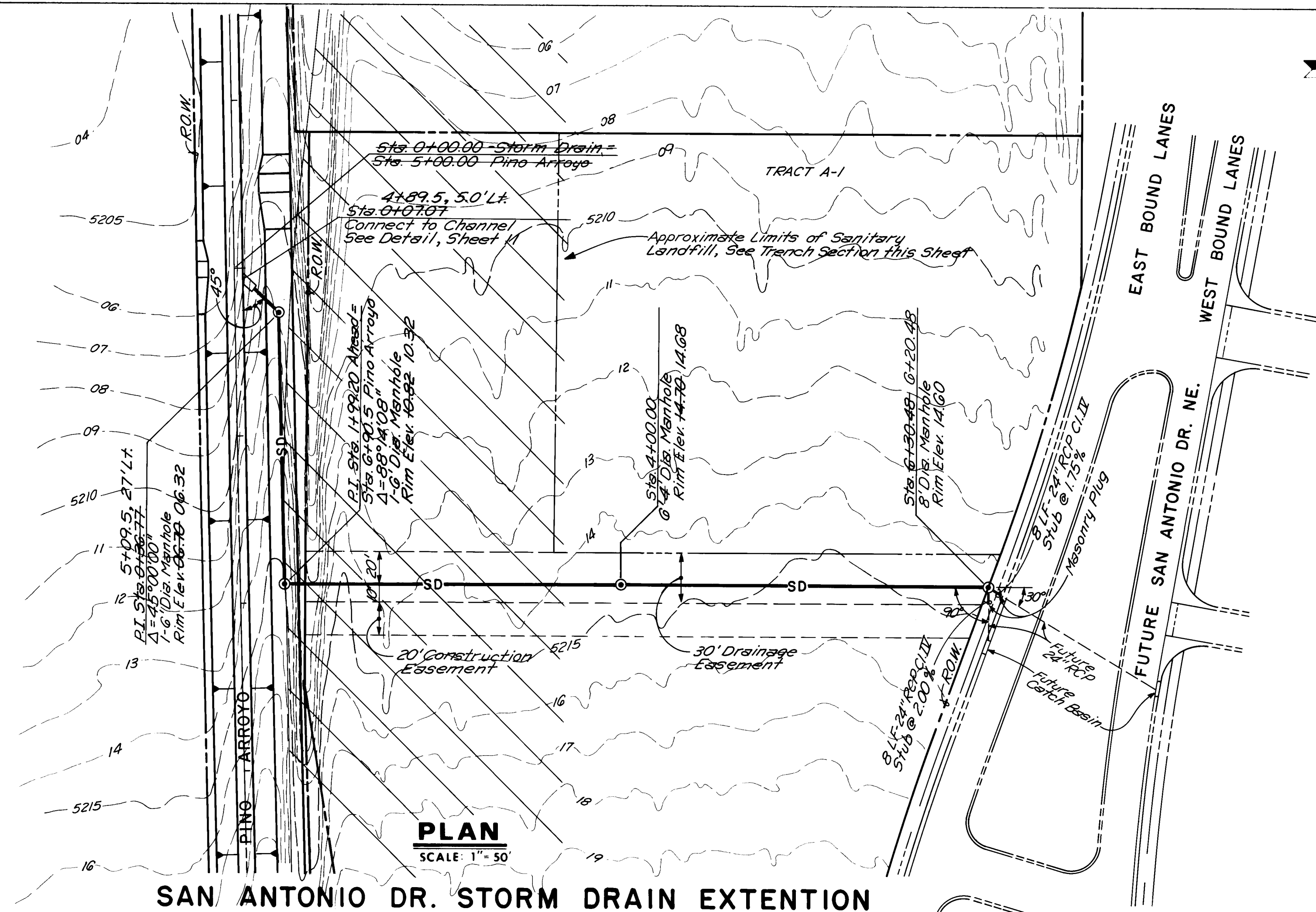
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
PINO ARROYO IMPROVEMENTS - PHASE II TYPICAL STREET SECTIONS SAN PEDRO DRIVE NE.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Robert J. Jones	12/5/87	Liquid Waste	Robert J. Jones	12/5/87
A.C.E. Design	Robert J. Jones	12/5/87	Traffic	Robert J. Jones	12/5/87
Hydrology	Robert J. Jones	12/5/87	Water	Robert J. Jones	12/5/87
DRAWING NO.	3532	MAP NO.	E-18, E-19	SHEET	14 OF 25

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



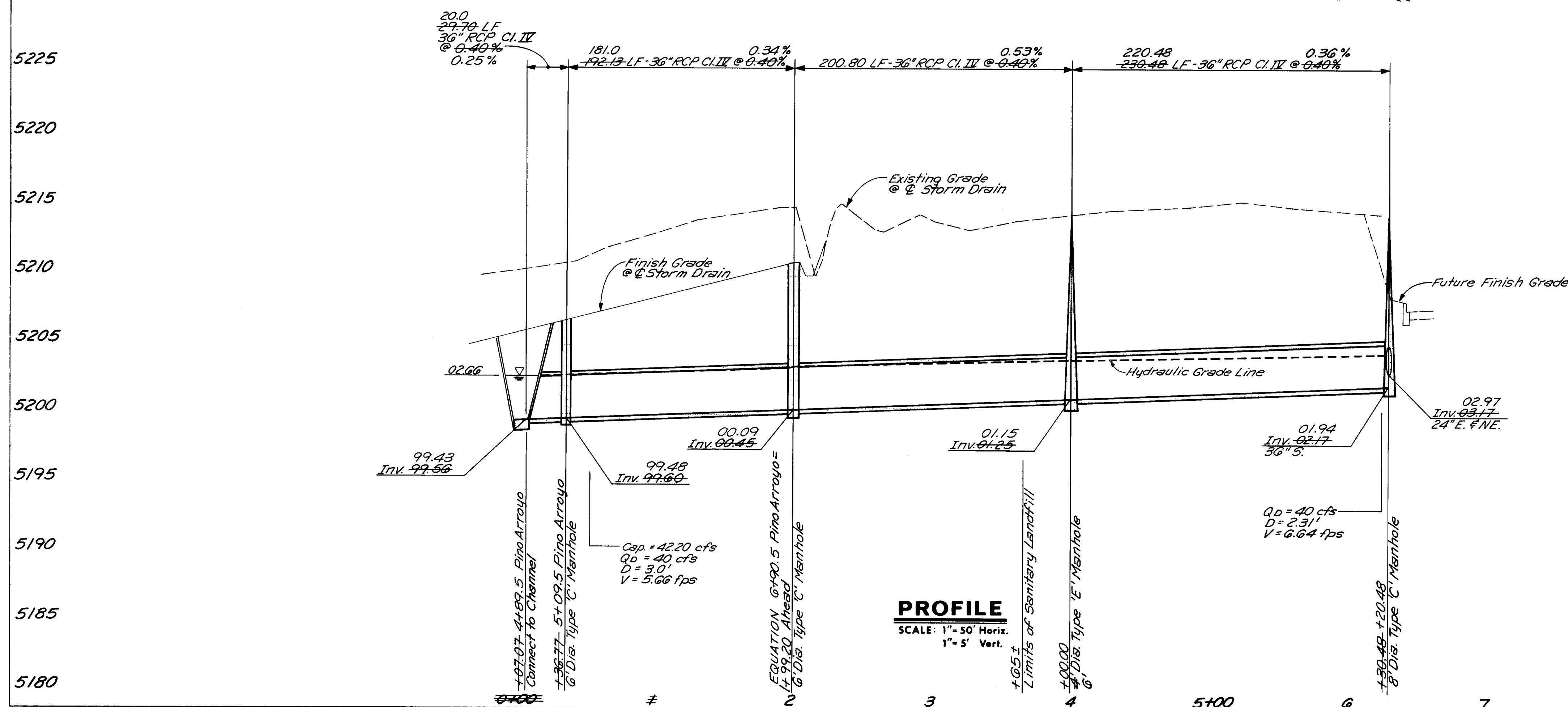
TRENCH THROUGH LANDFILL

SCALE: 1/4" = 1'-0"



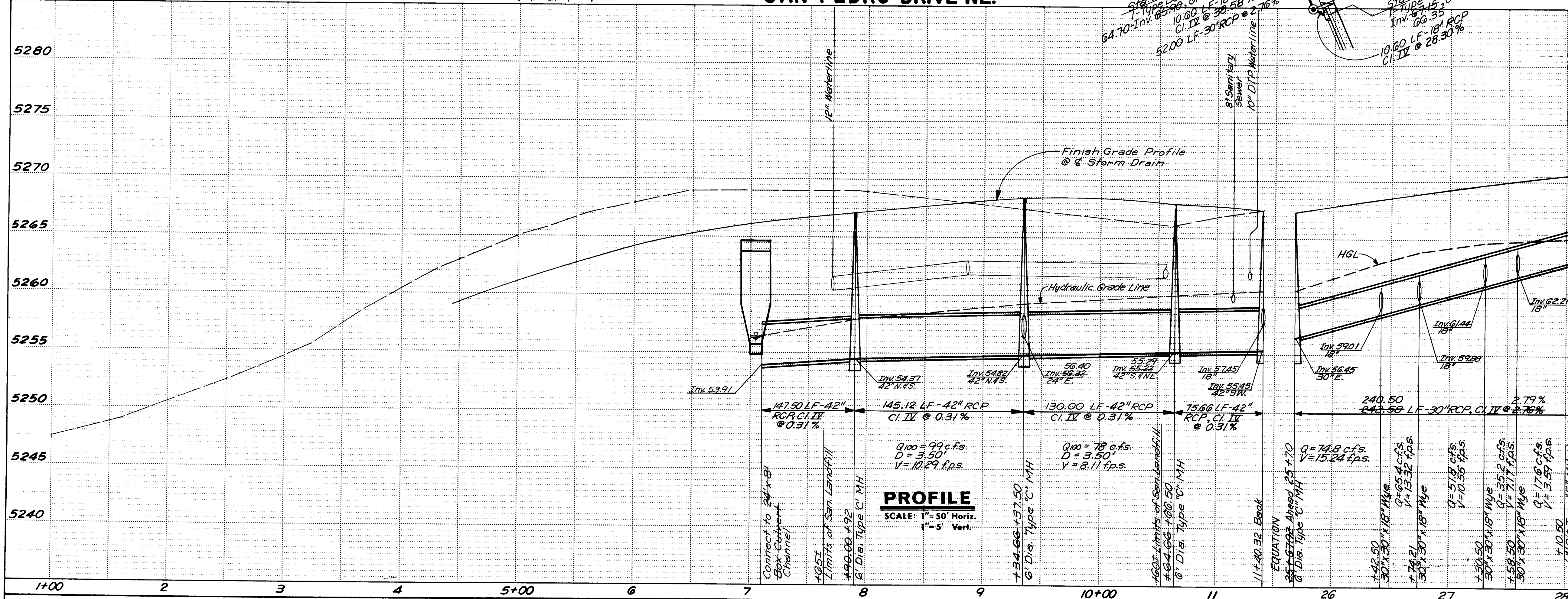
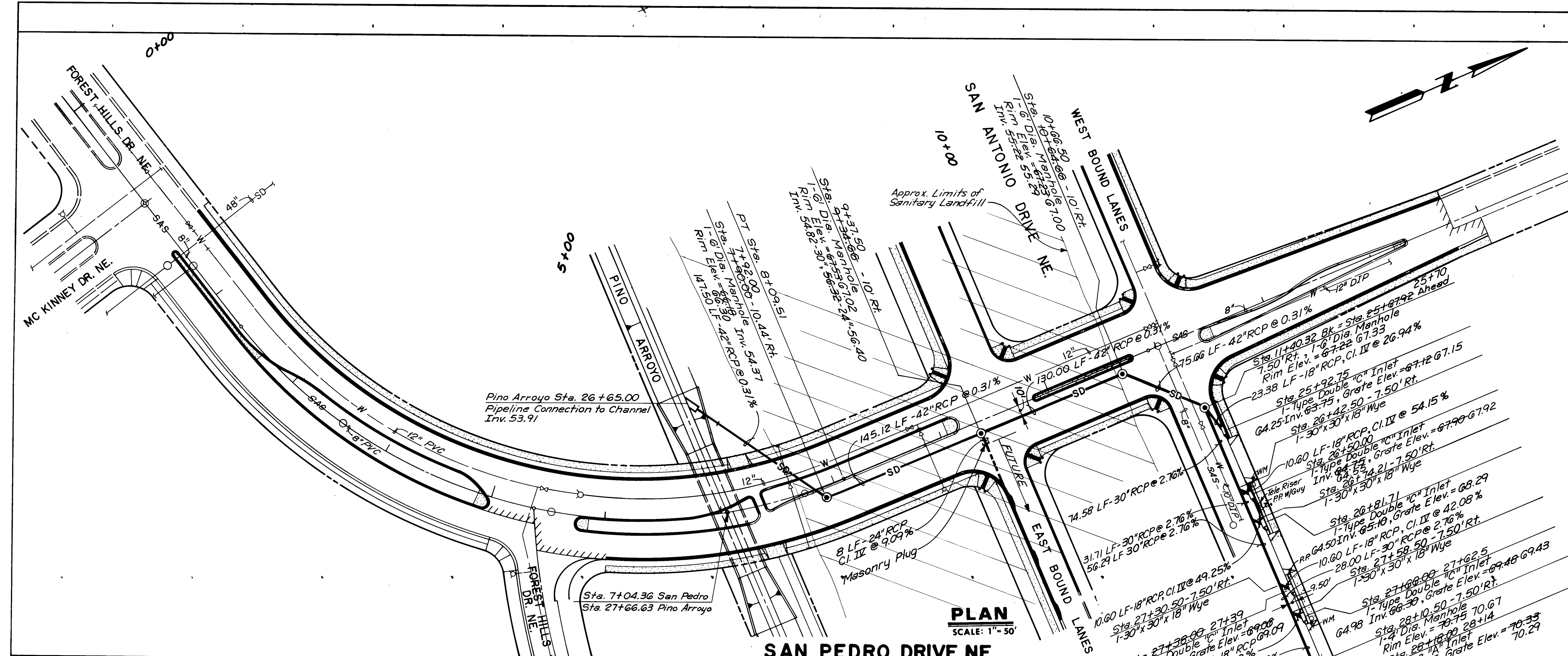
SAN ANTONIO DR. STORM DRAIN EXTENTION

PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' Horiz.
1" = 5' Vert.

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION			
			NO.	BY	DATE	NO.	DATE			
RECORD DRAWING DESIGNED BY JM DRAWN BY JZ CHECKED BY JM DATE Jan. 1989 DATE Jan. 1989 DATE Jan. 1989			FIELD NOTES		ELEVATION 5337.039		MOORE & CONERT			
			NO.		BY		DATE		DATE	
			REVISIONS		NO.		DATE		DATE	
			DESIGN		NO.		DATE		DATE	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP PINO ARROYO IMPROVEMENTS - PHASE II SAN ANTONIO DRIVE NE. STORM DRAIN EXTENSION PLAN & PROFILE										
APPROVALS			ENGINEER			DATE				
DRC Chair			Randy Lee			1/25/89				
Trans. Div.			Randy Lee			1/25/89				
Utility Div.			Randy Lee			1/25/89				
DRAWING NO.			3532			MAP NO. E-18, E-19				
SHEET			15			OF 25				



NOTES

1. PROVIDE ELASTOMERIC PAD BETWEEN STORM DRAIN AND SANITARY SEWER LINE IF VERTICAL CLEARANCE IS LESS THAN 12".
2. THIS PLAN SHOWS FUTURE SAN ANTONIO DRIVE AND SAN PEDRO DRIVE. SEE SHEET NO. 13 FOR IMPROVEMENTS THIS CONTRACT.
3. FOR TRENCH AND FILTER CLOTH IN LANDFILL, SEE SHEET NO. 15.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CONTRACTOR: Moore & Conner	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"
INSPECTOR: STAKES BY A.A.F.R.	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"
FIELD: FIELD BY E. Rodriguez	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"
REVISION: REVISION BY A.A.F.R.	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"
CORRECTION: CORRECTION BY A.A.F.R.	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"
MICRO-FILM: MICRO-FILM INFORMATION	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"
RECORDED BY: RECORDED BY	DATE: 8-89	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"	NO. 5337.039	DATE: 12-EIB 1978"

ENGINEER'S SEAL

ANDREWS, ASHBY & ROBERT, INC.

ALBUQUERQUE, NEW MEXICO

REVISIONS		REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE	NO.	DATE
1	May 1989	2	May 1989	3	May 1989
DESIGNED BY J/M	DATE May 1989	DRAWN BY T/L	DATE May 1989	CHECKED BY J/A	DATE May 1989

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

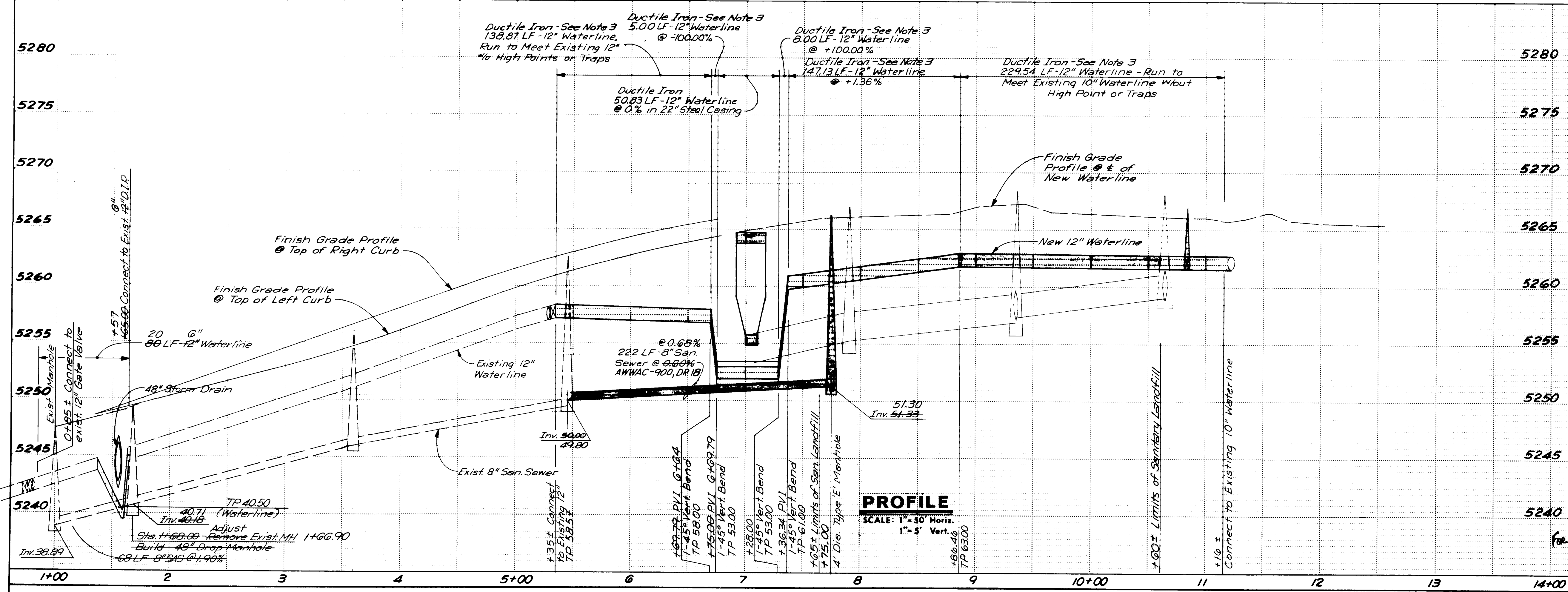
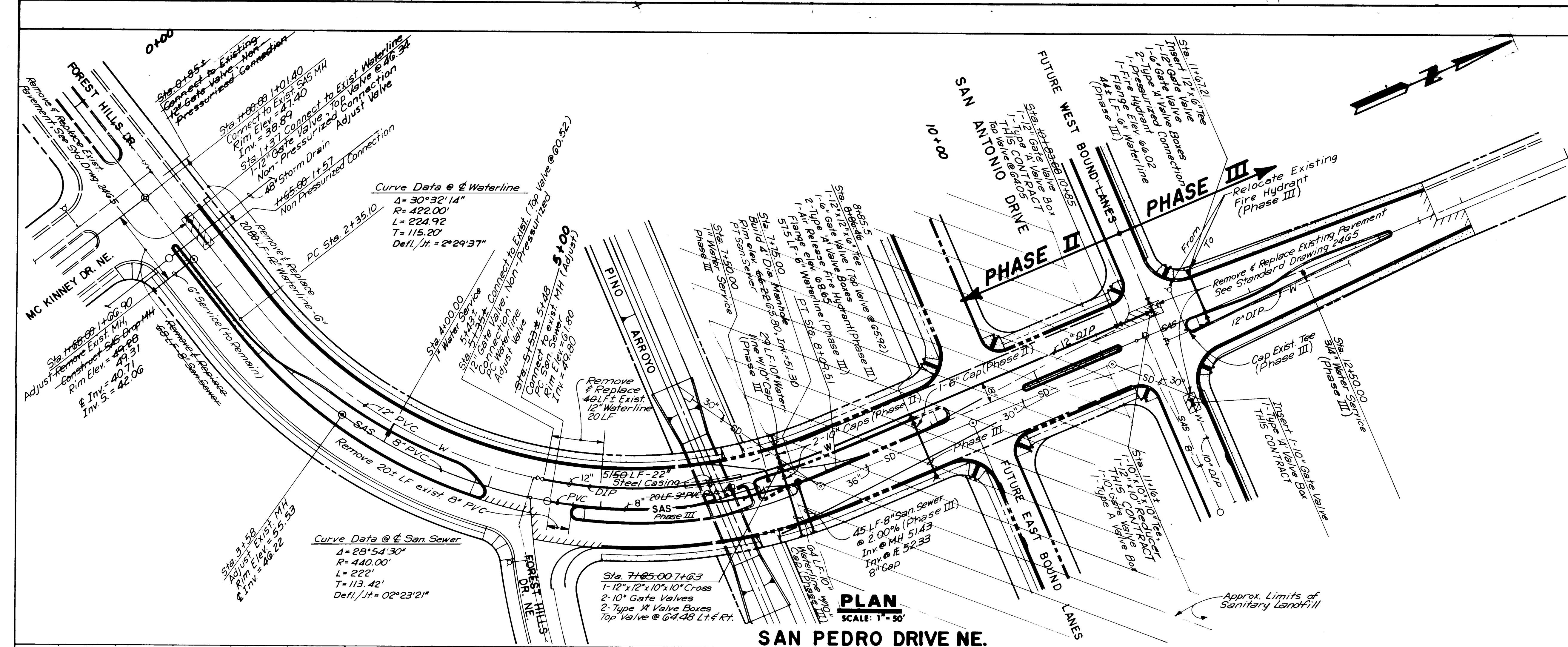
PINO ARROYO IMPROVEMENTS-PHASE II
SAN PEDRO DRIVE NE.
STORM DRAIN PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 3532

MAP NO. E-18, E-19

SHEET 17A OF 25



NOTES:

- ALL VERTICAL BENDS IN WATERLINES SHALL HAVE RESTRAINED JOINTS. ALL JOINTS WITHIN 30' EACH SIDE OF VERTICAL BENDS SHALL ALSO BE RESTRAINED.
- ALL WATERLINE FITTINGS, FIRE HYDRANTS AND VALVES WITHIN LANDFILL AREA SHALL HAVE RESTRAINED JOINTS. ALL JOINTS WITHIN 30' EACH SIDE OF THESE FITTINGS SHALL ALSO BE RESTRAINED. RESTRAINED JOINTS SHALL BE LOCKED MECHANICAL JOINTS, VICTAULIC, OR A PROPRIETARY SYSTEM RECOMMENDED BY THE PIPE SUPPLIER.
- ALL WATERLINES SHALL BE DUCTILE IRON WITH POLYETHYLENE ENCASMENT (AWWA C105).
- BETWEEN APPROXIMATE STATIONS 7 + 60 & 10 + 20 WATERLINE WILL BE CONSTRUCTED IN LANDFILL CONTAINING TRASH. CONTRACTOR SHALL EXCAVATE, REMOVE & DISPOSE OF LANDFILL TO A DEPTH OF 2' BELOW THE WATERLINE. BACKFILL SHALL BE SELECT GRANULAR IMPORTED MATERIALS.
- CONTRACTOR SHALL COORDINATE VALVE SHUT OFF WITH WSD (PHONE 823-4200) TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK ON EXISTING PUBLIC WATERLINES.

VALVE SHUT-OFF PLAN
NO SCALE

John A. Anderson
RECORD DRAWING

26 3532 1789

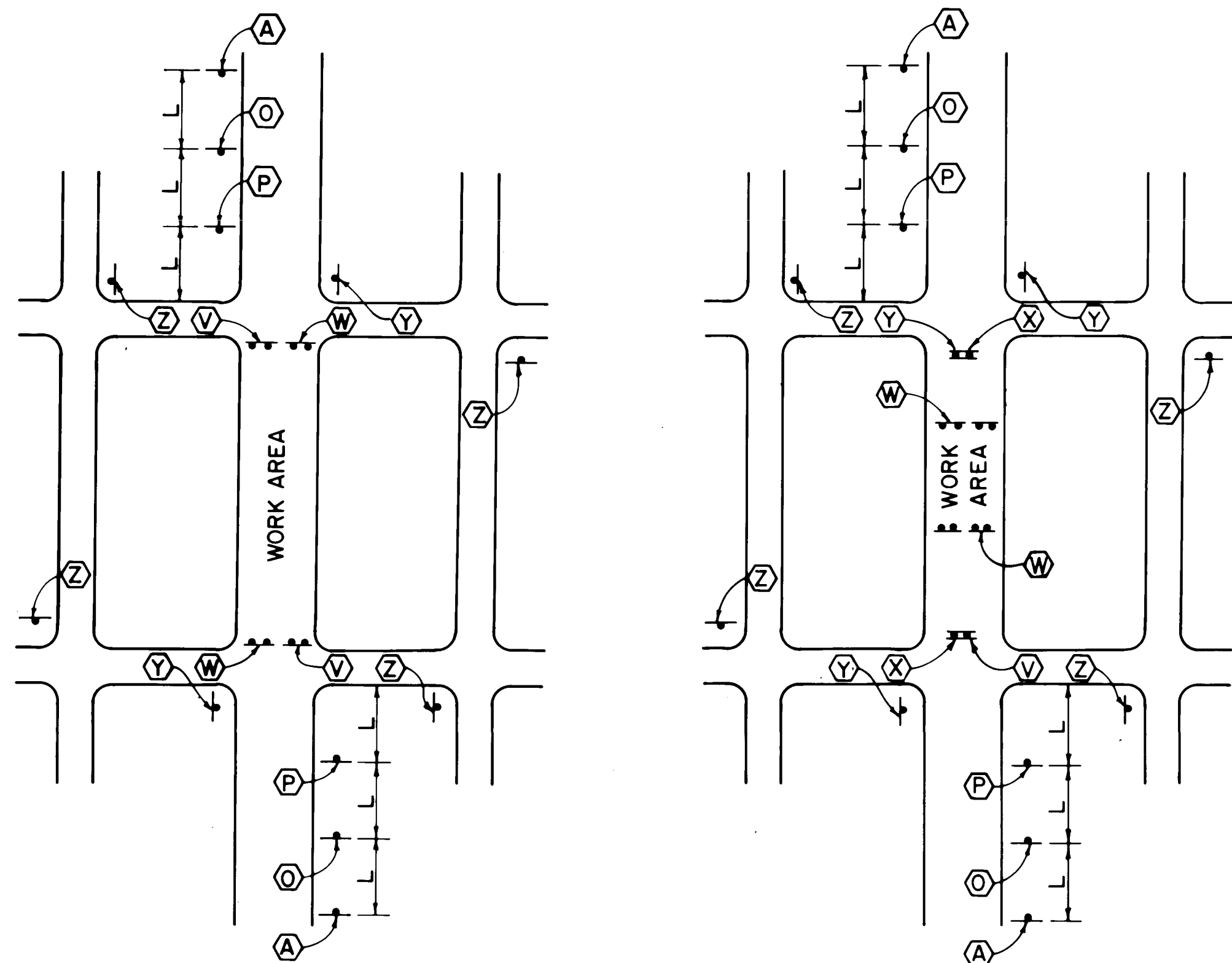
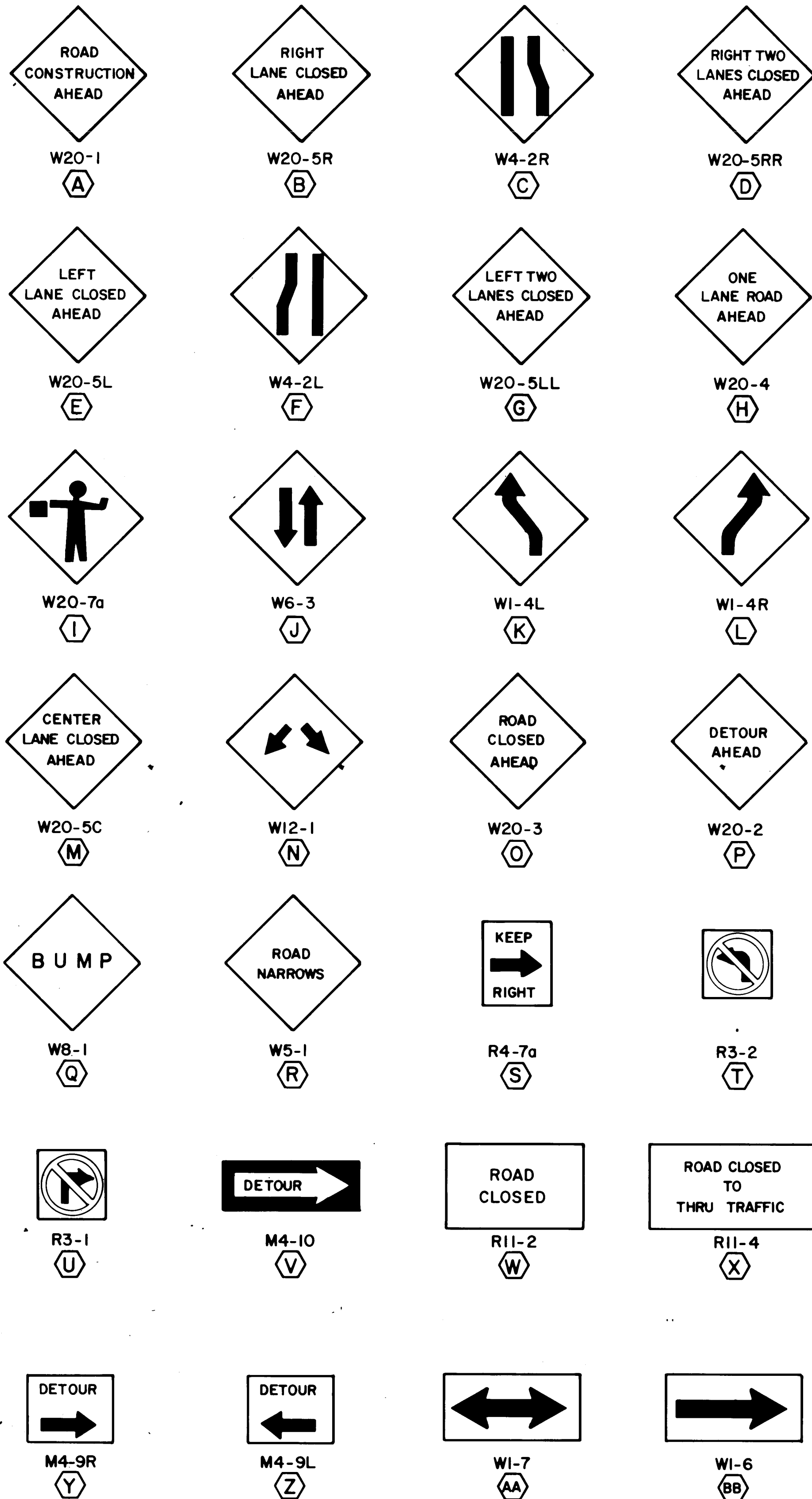
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO IMPROVEMENTS - PHASE II
SAN PEDRO DRIVE NE.
WATERLINE EXTENSION PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Ray M. Wilson	12/5/89	Liquid Waste	William D. [Signature]	12/5/89
A-C-E-Design	Ray M. Wilson	12/5/89	Traffic	William D. [Signature]	12/5/89
A-G-E-Hydrology	Ray M. Wilson	12/5/89	Water	William D. [Signature]	12/5/89

DRAWING NO. **3532** MAP NO. **E-18, E-19** SHEET **17** OF **25**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	BY
Moore & Conner	DATE 8/89	ACS STA "12-ELB 1978"	DATE 8/89				
WORK BY A.A.F.R.	DATE 8/89	ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND	DATE 8/89				
INSPECTED BY A.A.F.R.	DATE 8/89	LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD	DATE 8/89				
APPROVED BY A.A.F.R.	DATE 8/89						
SUBMITTED BY A.A.F.R.	DATE 8/89						
RECORDED BY	DATE						



TYPICAL STREET CLOSURE PLANS
NO SCALE

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10 FOOT LANE	11 FOOT LANE	12 FOOT LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

LEGEND

- BARRICADE - BARREL
- SIGN
- VERTICAL PANEL
- BARRICADE - TYPE III
- DISTANCE BETWEEN ADVANCE SIGNS - A
DISTANCE MEASURED IN FEET EQUAL TO
TEN TIMES THE SPEED LIMIT.
- SPACING BETWEEN BARRICADES - MAXIMUM
SPACING TO BE A VALUE MEASURED IN FEET
EQUAL TO THE SPEED LIMIT.
- TANGENT LENGTH EQUALS TAPER LENGTH
AS SHOWN IN SCHEDULE.

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE TRAFFIC ENGINEER A CONSTRUCTION SCHEDULE WHICH INCLUDES AN OUTLINE OF HOW TWO WAY TRAFFIC IS TO BE MAINTAINED ON THE REQUIRED ROADS.
- THE CONTRACTOR MUST OBTAIN A BARRICADING PERMIT FROM THE TRAFFIC ENGINEERING OFFICE TWO DAYS PRIOR TO EACH PHASE OF CONSTRUCTION OR THE SHIFTING OF TRAFFIC.
- CONTRACTOR MUST COMPLY WITH SECTION 19 OF THE CITY OF ALBUQUERQUE'S INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- TWO WAY TRAFFIC MUST BE MAINTAINED ON SAN ANTONIO DR., SAN PEDRO DR., NORTH OF SAN ANTONIO DR., LOUISIANA BLVD., NORTH OF SAN ANTONIO DR., WYOMING BLVD., AND HARPER BLVD. AT ALL TIMES.
- WHILE MAINTAINING TWO WAY TRAFFIC ON THE EXISTING LANES OF SAN ANTONIO DR., CONSTRUCT THE PINO ARROYO CHANNEL AND THE SOUTH HALF OF SAN ANTONIO DR. TYPE III BARRICADES ARE TO BE PLACED AT EVERY ACCESS POINT TO PREVENT TRAFFIC FROM USING THE UNCOMPLETED ROADWAY.
- WYOMING BLVD. TRAFFIC MAY NOT BE DIVERTED UNTIL SAN PEDRO DR. IS OPEN TO TWO WAY TRAFFIC BETWEEN MCKINNEY DR. AND SAN TA MONICA AVE. WORK ON WYOMING BLVD. IS TO BE BROKEN UP INTO THREE PHASES. IN PHASE 1, SOUTH BOUND WYOMING BLVD. IS TO BE DIVERTED ONTO THE NORTH BOUND LANES OF WYOMING BLVD. AT THE OLD SAN ANTONIO DR. INTERSECTION AND RETURNED AT STA. 3+75.00. FROM STA. 3+75.00 TO STA. 2+25.00 THE CONTRACTOR SHALL REMOVE THE EXISTING ASPHALT MEDIAN AND PLACE A TEMPORARY ASPHALT PATCH IN THE MEDIAN AREA IN ORDER TO PROVIDE A CROSS OVER POINT FOR WYOMING BLVD. TRAFFIC. THE CONTRACTOR SHALL REMOVE THE ASPHALT PATCH AND REPLACE THE ASPHALT CURBING AT THE END OF THE PROJECT. PHASE 2 - USING THE SAME TWO MEDIAN CROSS OVER POINTS AS IN PHASE ONE, SHIFT NORTH BOUND TRAFFIC ONTO THE SOUTH BOUND LANES OF WYOMING BLVD. DURING THIS PHASE THE SOUTH HALF OF HARPER ROAD MAY BE CLOSED WITH EAST BOUND TRAFFIC SPLIT ONTO THE WEST BOUND LANES USING A TYPICAL SPLIT. PHASE 3 - WYOMING BLVD. TRAFFIC IS TO REMAIN ON THE EAST HALF OF THE ROAD WHILE HARPER ROAD TRAFFIC IS DIVERTED ONTO THE SOUTH BOUND LANES OF WYOMING BLVD. DURING THIS PHASE THE SOUTH HALF OF HARPER ROAD MAY BE CLOSED WITH EAST BOUND LANES USING A TYPICAL SPLIT.
- ONCE THE SOUTH HALF OF SAN ANTONIO DR. HAS BEEN BUILT IN ITS ENTIRETY, EXCLUDING THE FRICTION COURSE OF ASPHALT, THE CONTRACTOR MAY THEN SHIFT SAN ANTONIO DR. TRAFFIC TO THE SOUTH HALF OF THE ROADWAY USING A TYPICAL TRAFFIC SPLIT. THE TRAFFIC MAY BE SPLIT ONLY IF THE NEW SECTION OF SAN ANTONIO DR. IS OPEN ENTIRELY BETWEEN WYOMING BLVD. AND SAN ANTONIO PL. WEST BOUND TRAFFIC IS TO BE SHIFTED TO THE SOUTH HALF OF SAN ANTONIO DR. AT SAN ANTONIO PL. AND RETURNED TO THE PROPER SIDE OF THE MEDIAN AT THE MEDIAN OPENING AT STA. 3+22.65. SAN ANTONIO DR. TRAFFIC MUST BE ON THE PROPER SIDE OF THE MEDIAN AT THE INTERSECTION WITH THE EAST FRONTAGE ROAD. IN LIEU OF VERTICAL PANELS RUNNING THE LENGTH OF THE SPLIT THE CONTRACTOR MAY INSTALL A SOLID DOUBLE YELLOW STRIPE PROVIDED IT IS PROPERLY MAINTAINED.
- CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1986.
- CONTRACTOR SHALL LIMIT OPERATION WITHIN ROADWAY TO THE HOURS SPECIFIED BY THE BARRICADING OR CONSTRUCTION CO-ORDINATION ENGINEER AT 768-2552.

RECORD DRAWING

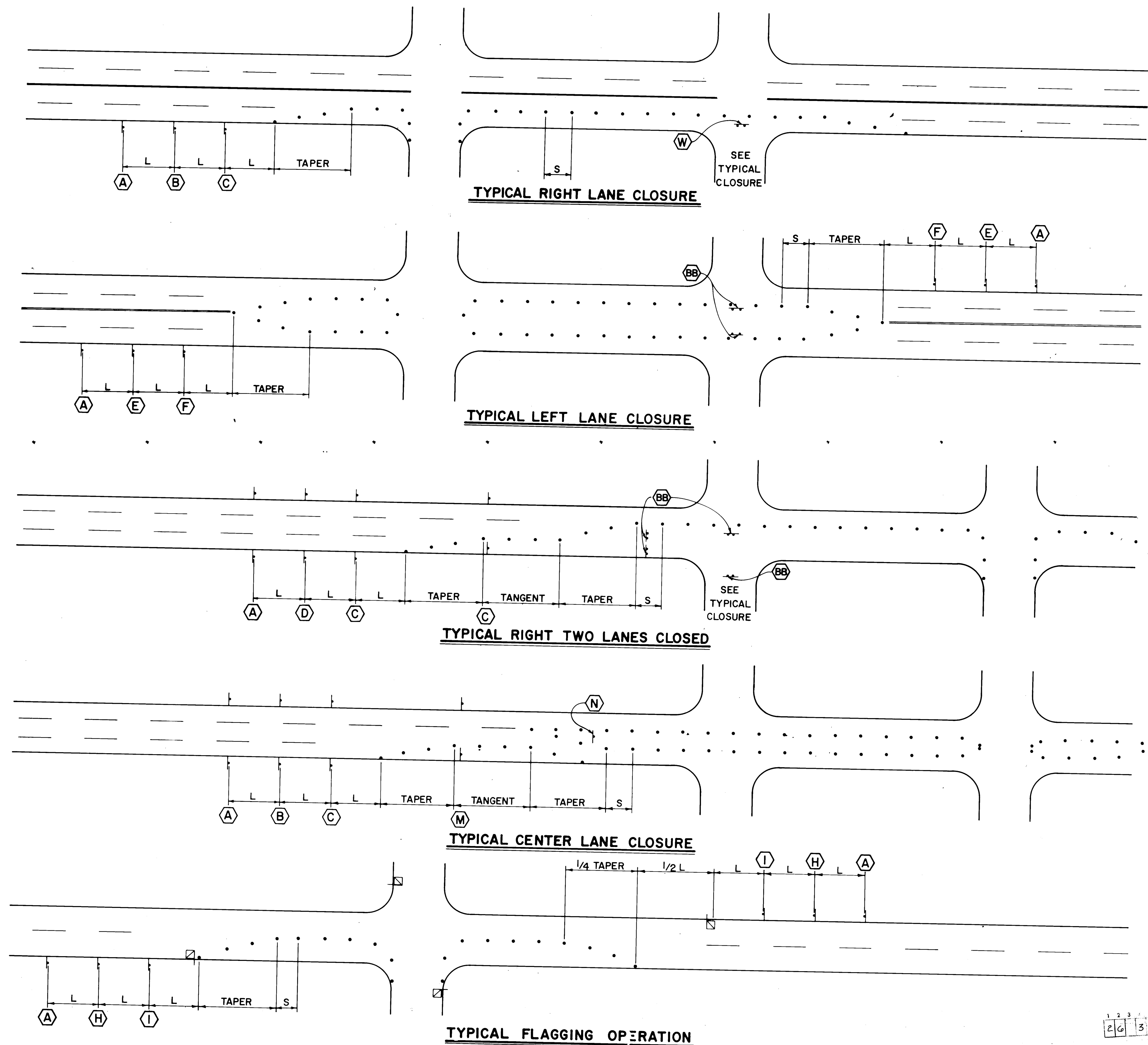
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO IMPROVEMENTS - PHASE II

TRAFFIC CONTROL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	N/A	1/25/89	Liquid Waste	FEBO	1/25/89
A.C.E. Design	N/A	1/25/89	Traffic	Reg. J. ...	1/25/89
A.C.E. Hydrology	N/A	1/25/89	Water	FEBO	1/25/89

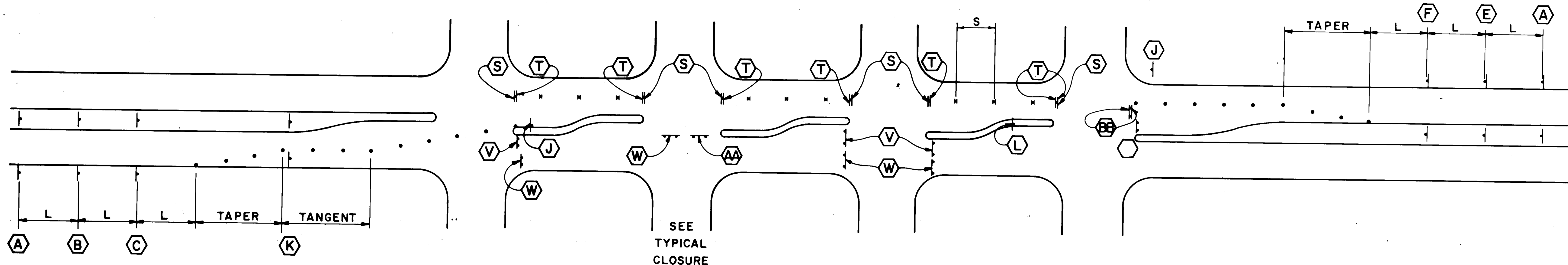
DRAWING NO. 3532 MAP NO. E-18, E-19 SHEET 18 OF 25



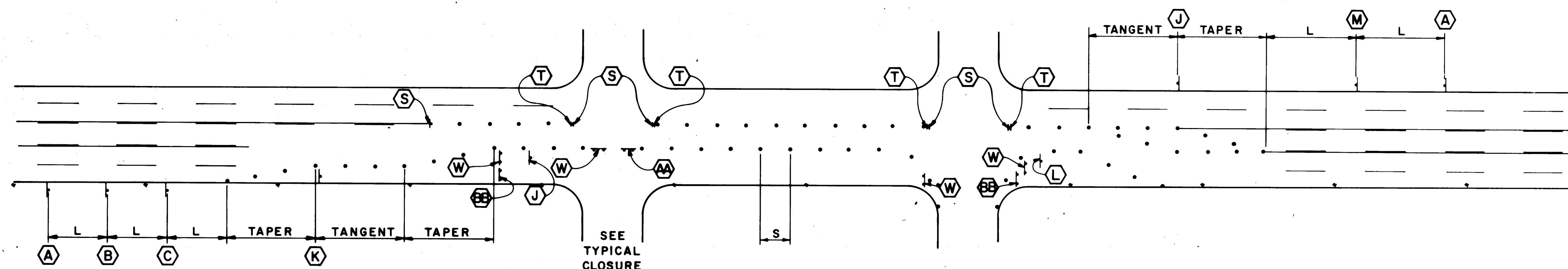
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John A. Anderson
RECORD DRAWING

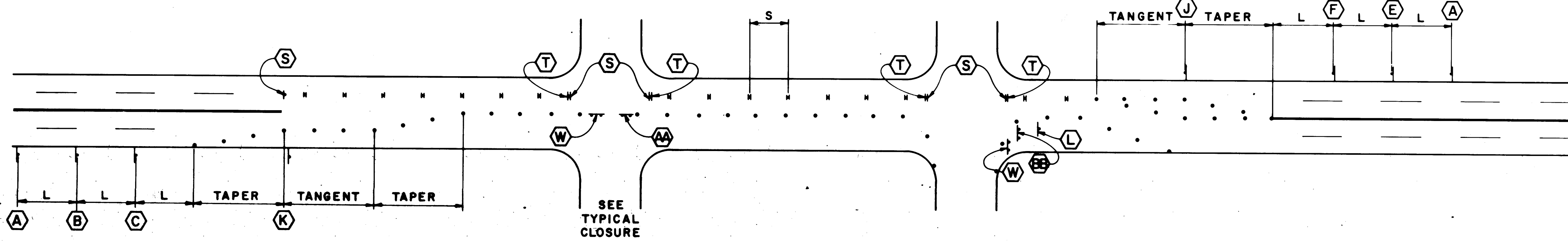
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REMARKS DESIGN NO. DATE BY			DESIGNED BY DRAWN BY CHECKED BY			DATE DATE DATE		
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION PINO ARROYO IMPROVEMENTS - PHASE II TRAFFIC CONTROL DETAILS								
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE			
City Engineer	N/A RAB	1/25/89	Liquid Waste	PEBO	1/25/89			
A.C.E. - Design	N/A RAB	1/25/89	Traffic	Reginald R. R.	1/25/89			
A.C.E. - Hydrology	N/A RAB	1/25/89	Water	PEBO	1/25/89			
DRAWING NO. 3532		MAP NO. E-18, E-19		SHEET 19 OF 25				



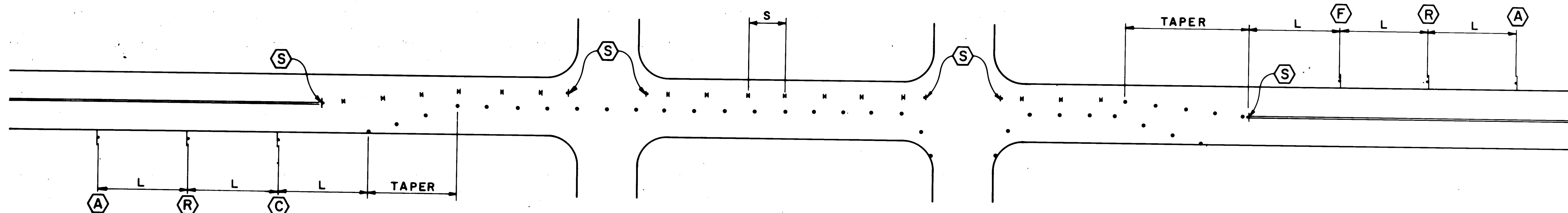
TYPICAL TRAFFIC SPLIT (RAISED MEDIAN)



TYPICAL TRAFFIC SPLIT (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT (NO MEDIAN)



TYPICAL SHOE-FLY SPLIT

26 3532 2089

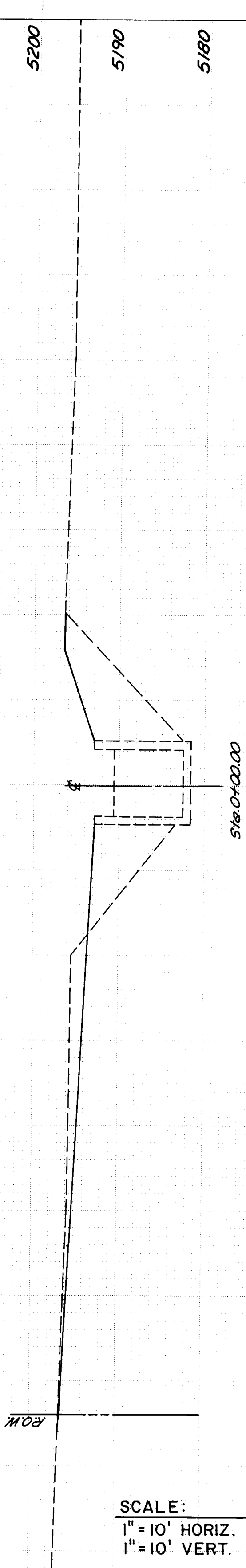
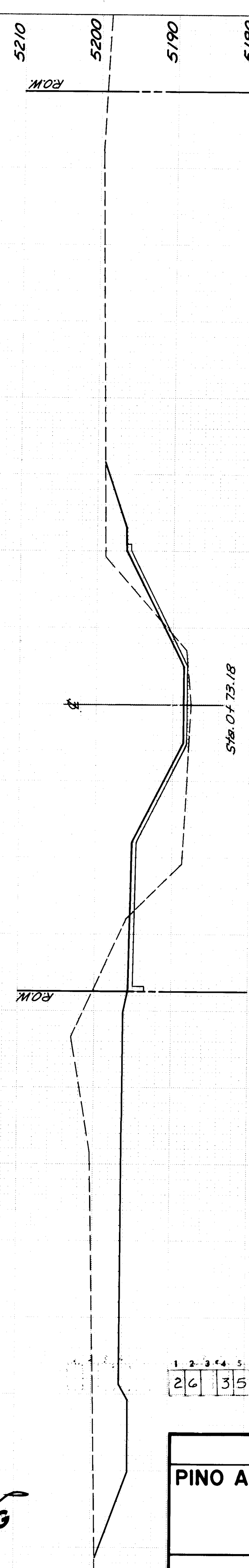
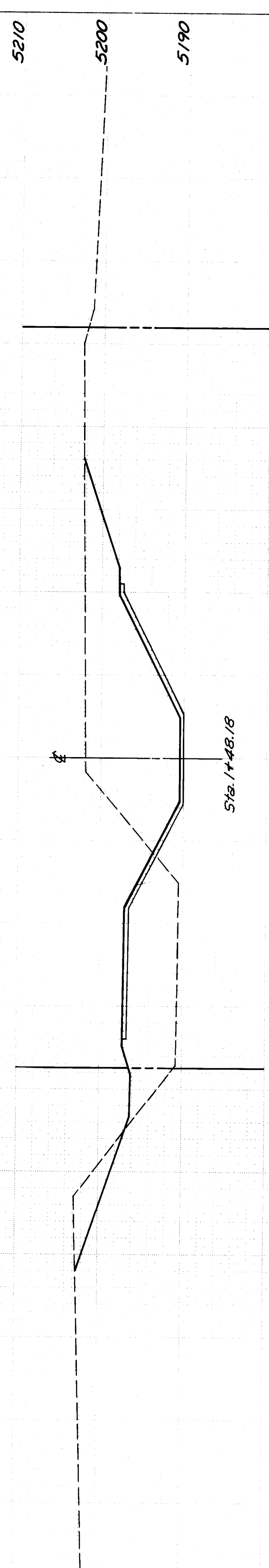
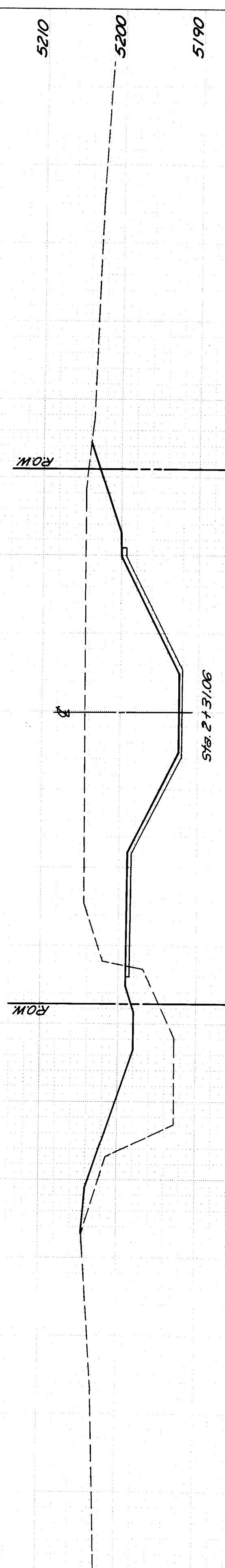
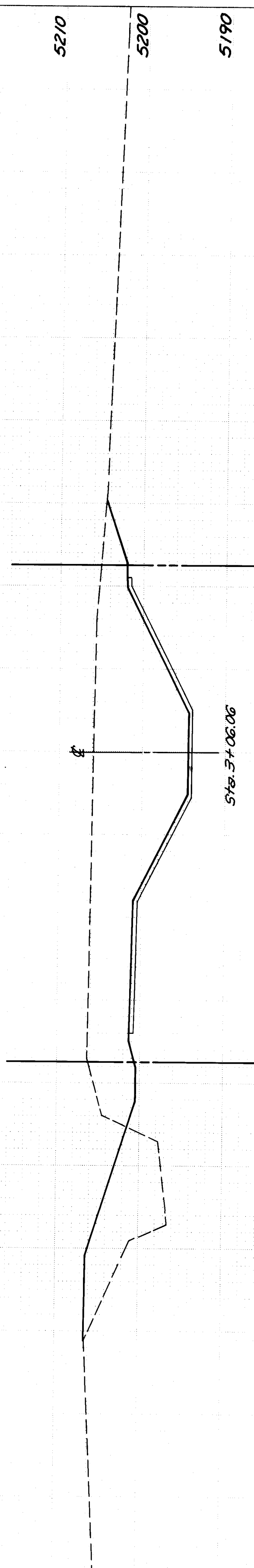
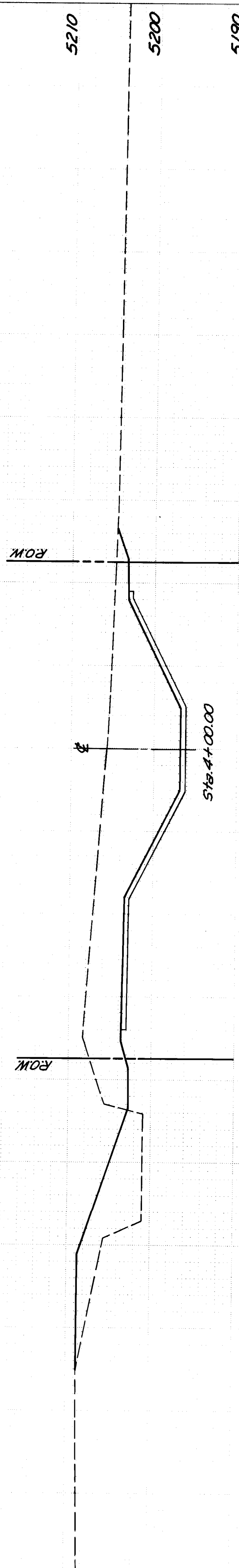
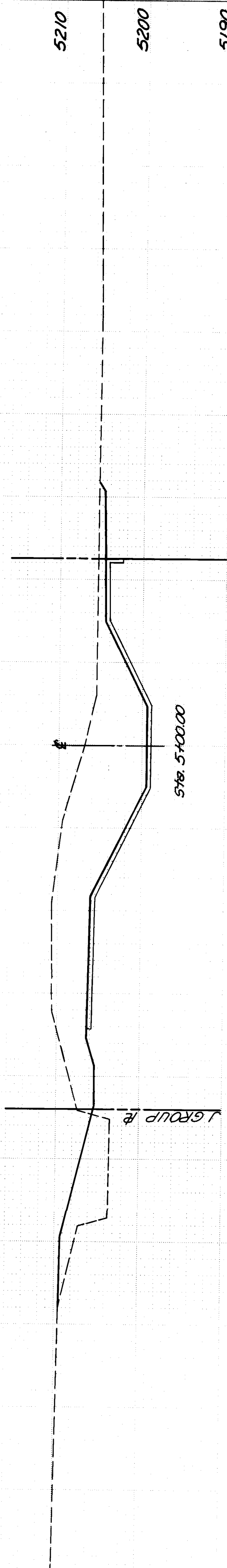
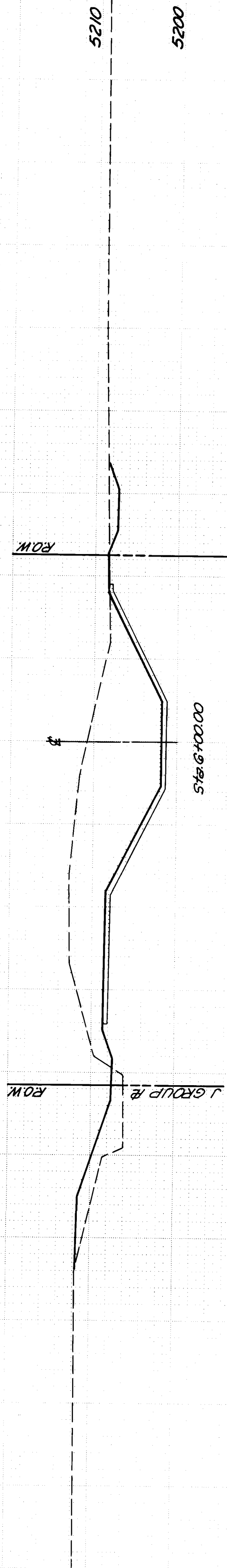
John A. Anderson
RECORD DRAWING

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR: Moore & Conner			ACS STA "12-E18 1978"			FIELD NOTES					
ELEVATION: 5327.039			ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/ GROUND			DATE			BY		
INSPECTOR'S FIELD			LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD			NO.			REMARKS		
DATE: 8-89			FIELD			DATE			DESIGN		
REVISIONS			DATE			NO.			BY		
MICRO-FILM INFORMATION			RECORDED BY			DATE			DATE		
DATE: 8-89			NO.			DATE			DATE		

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
PINO ARROYO IMPROVEMENTS - PHASE II					
TRAFFIC CONTROL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	N/A RAX	1/25/89	Liquid Waste	PEBO	1/25/89
A.C.E.-Design	N/A DAX	1/25/89	Traffic	PEBO	1/25/89
A.C.E.-Hydrology	N/A RAX	1/25/89	Water	PEBO	1/25/89
DRAWING NO. 3532		MAP NO. E-18,E-19		SHEET 20 OF 25	

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

ORIGINAL	SURVEY	DATE
NO.	NOTE BOOK	BY
	PLOTTED	
	TEMPLATE	
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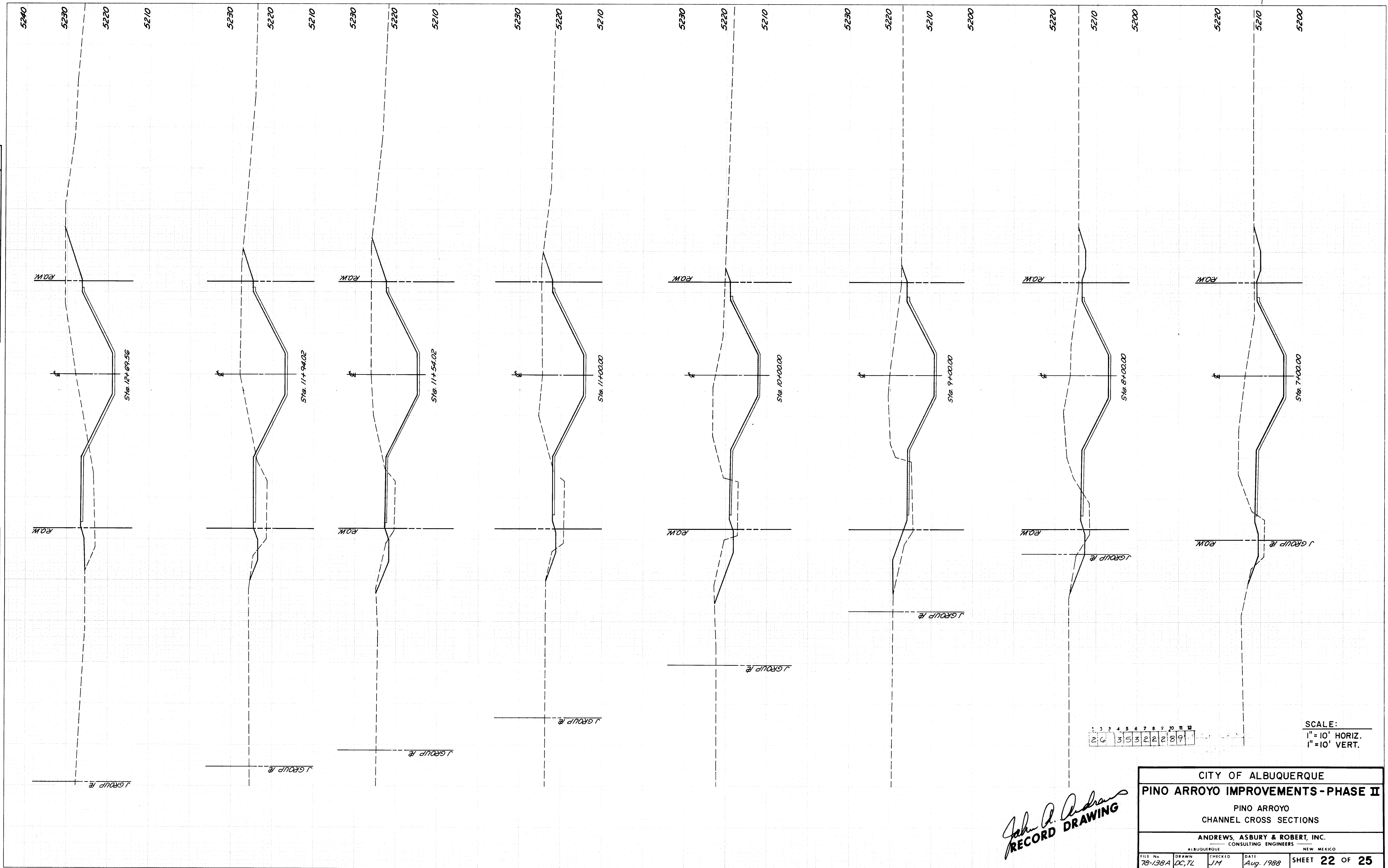
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1" = 10' HORIZ.
1" = 10' VERT.

John A. Anderson
RECORD DRAWING

CITY OF ALBUQUERQUE			
PINO ARROYO IMPROVEMENTS-PHASE II			
PINO ARROYO CHANNEL CROSS SECTIONS			
ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS ALBUQUERQUE NEW MEXICO			
FILE No.	DRAWN	CHECKED	DATE
78-138A	DC, TL	JM	Aug. 1988
SHEET 21			OF 25

FINAL	SURVEY	SURVEYED	BY	DATE
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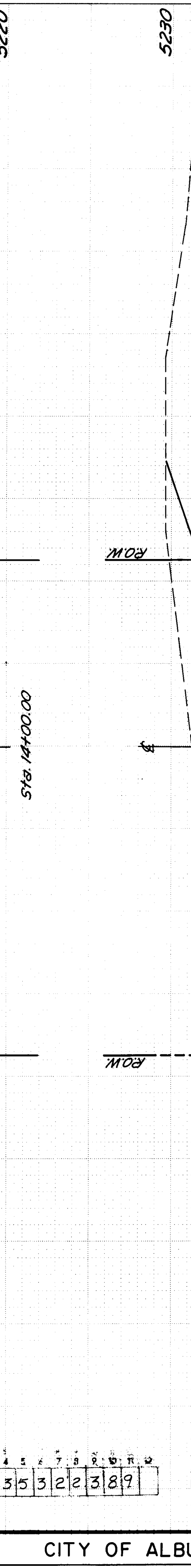
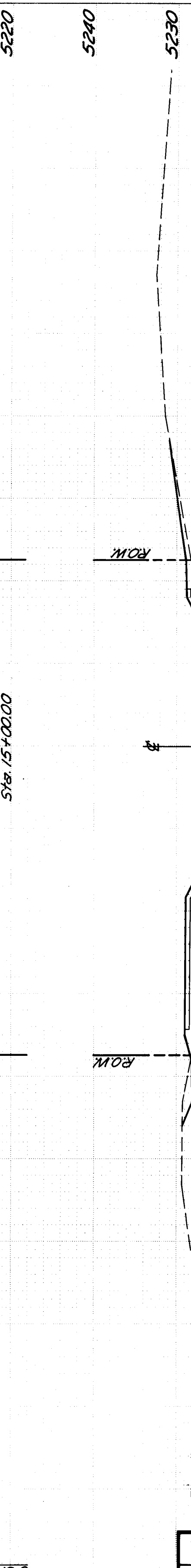
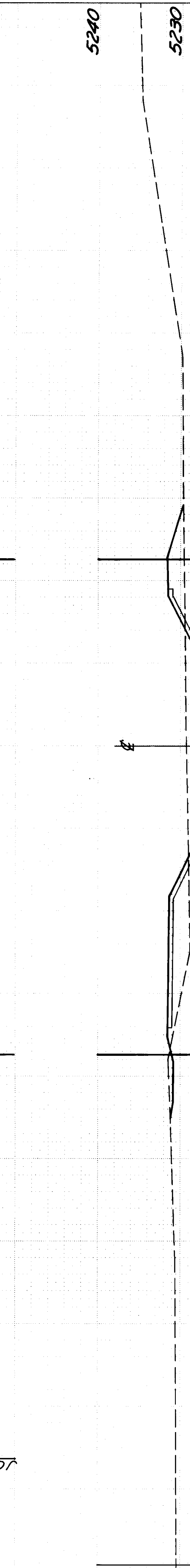
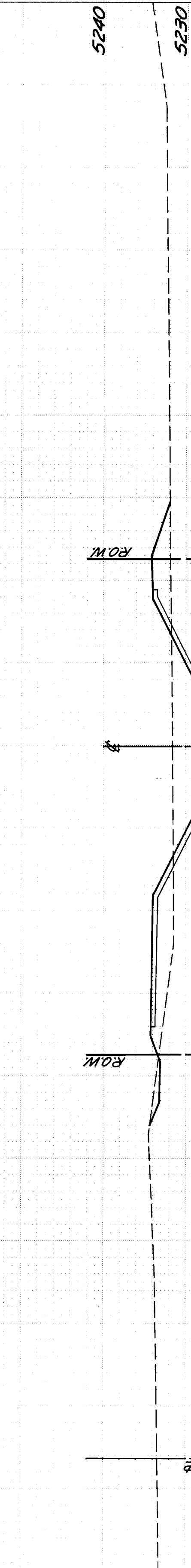
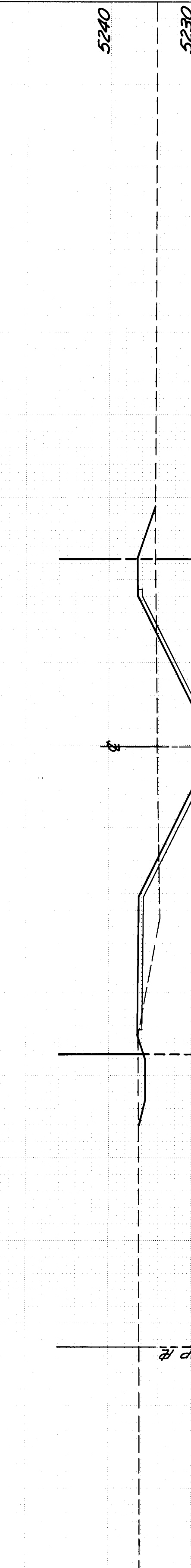
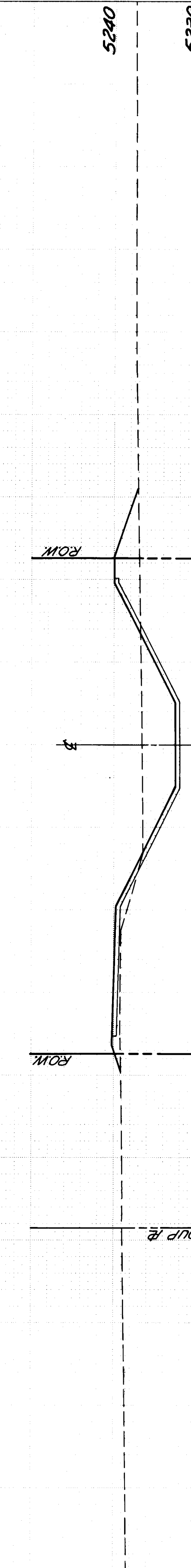
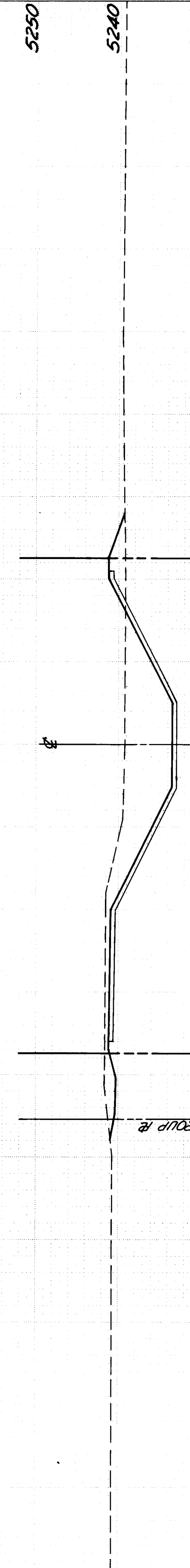
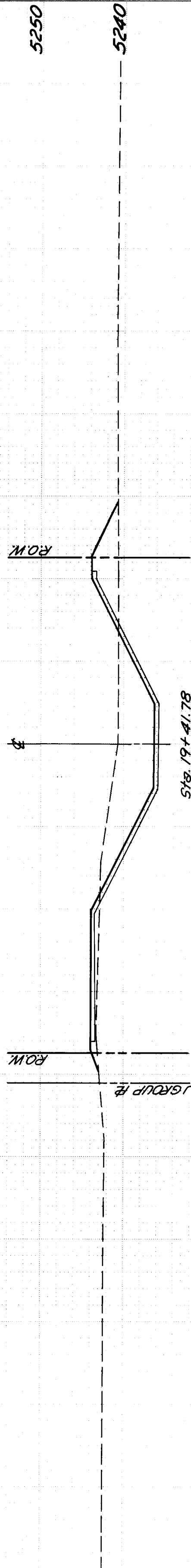
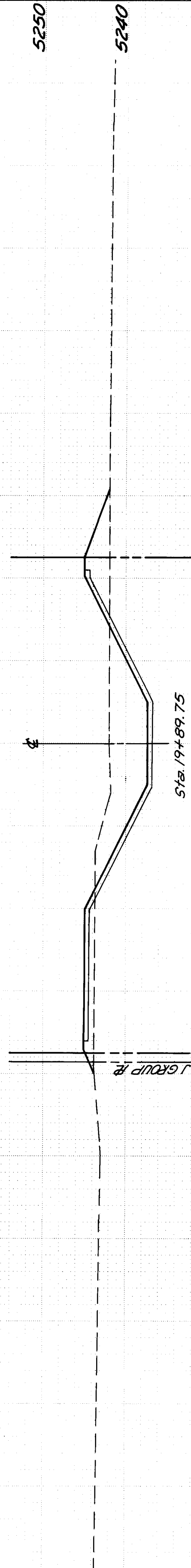
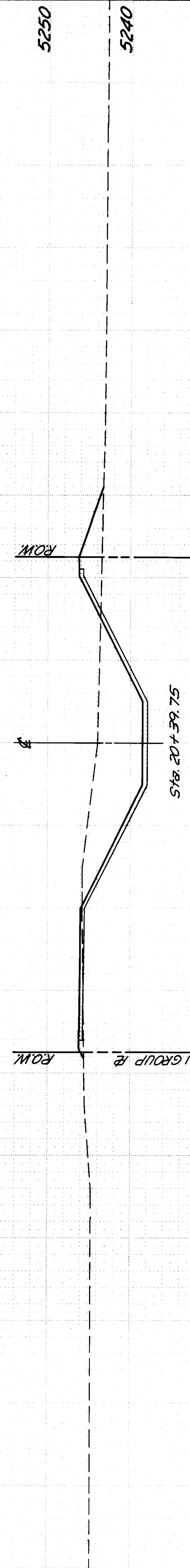
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CITY OF ALBUQUERQUE			
PINO ARROYO IMPROVEMENTS - PHASE II			
PINO ARROYO CHANNEL CROSS SECTIONS			
ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS ALBUQUERQUE NEW MEXICO			
FILE No 78-1384	DRAWN DC, TL	CHECKED JM	DATE Aug. 1988
SHEET 22 OF 25			3532

FINAL	SURVEY	SURVEYED	DATE
NO	NOTE BOOK	PLOTTED	BY
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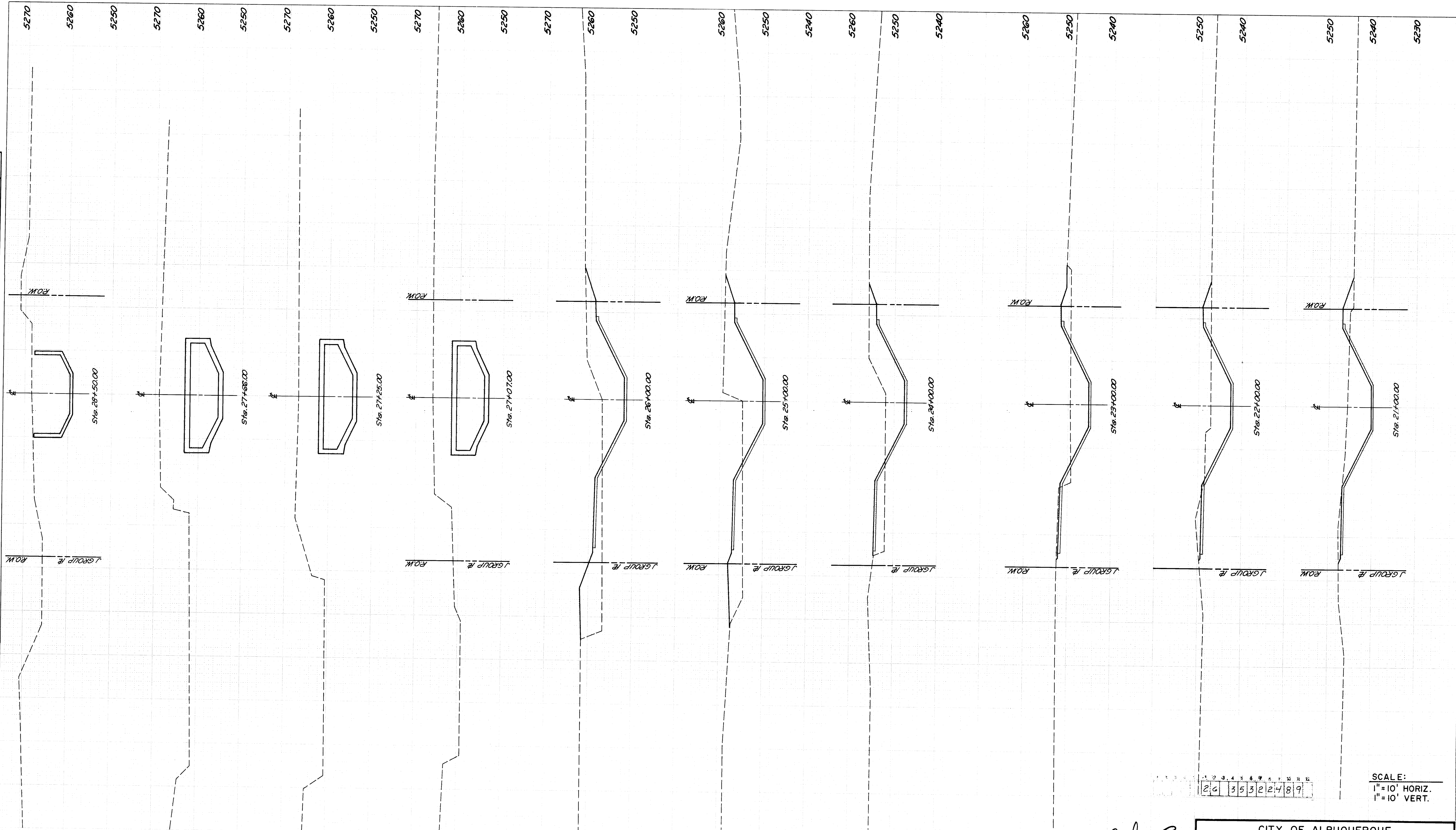
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1" = 10' VERT.

CITY OF ALBUQUERQUE			
PINO ARROYO IMPROVEMENTS - PHASE II			
PINO ARROYO			
CHANNEL CROSS SECTIONS			
ANDREWS, ASBURY & ROBERT, INC.			
CONSULTING ENGINEERS NEW MEXICO			
FILE NO.	DRAWN	CHECKED	DATE
78-138A	DC, TL	JM	Aug. 1988
SHEET 23 OF 25			

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RECORD DRAWING

FINAL	SURVEY	DATE
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NO	NO	NO
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ORIGINAL	SURVEY	DATE
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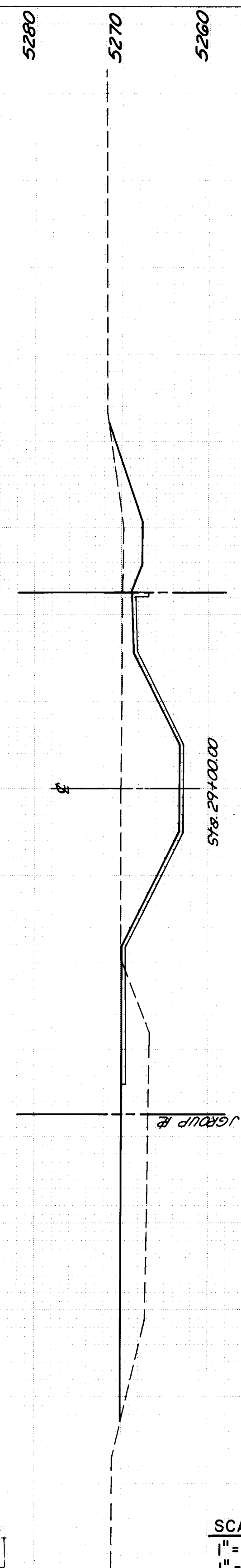
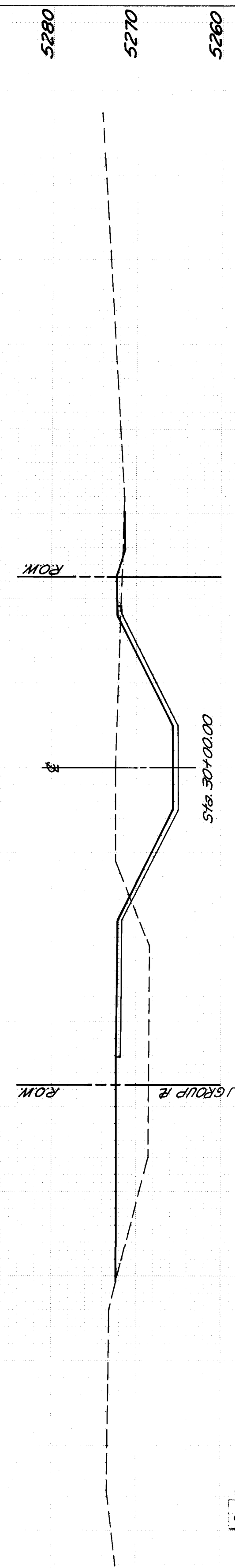
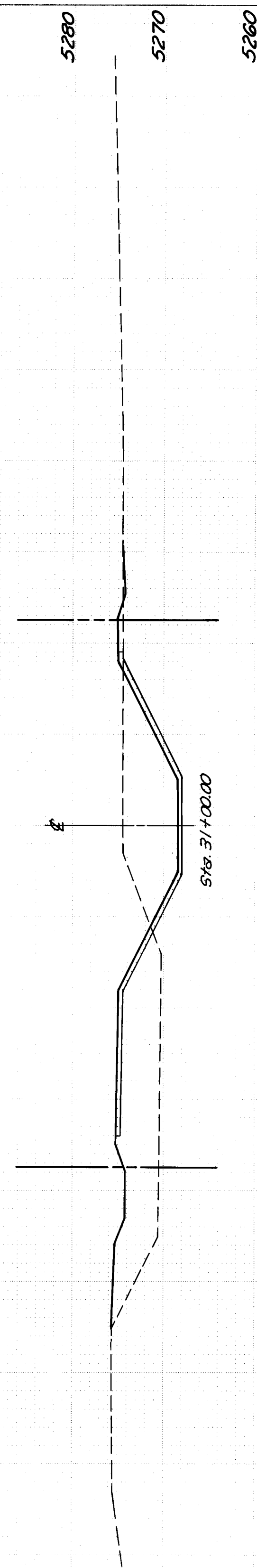
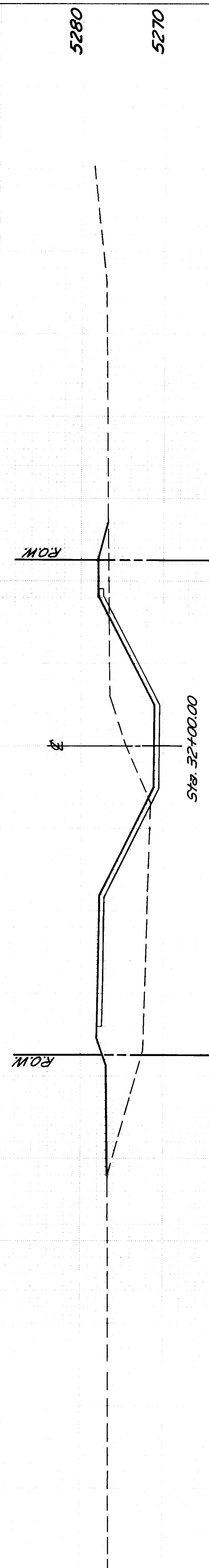
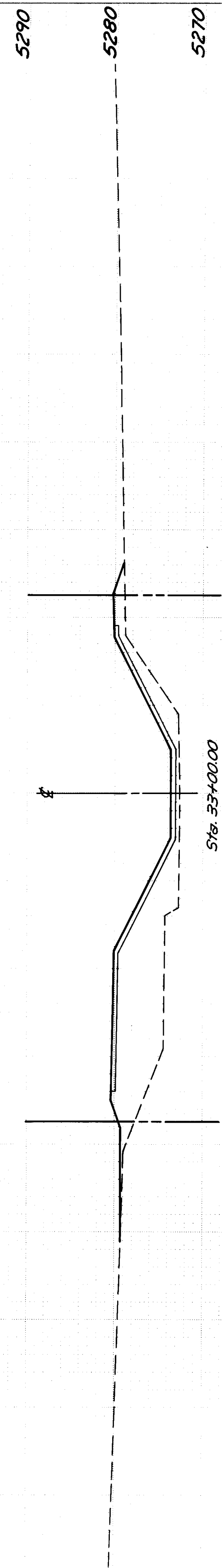
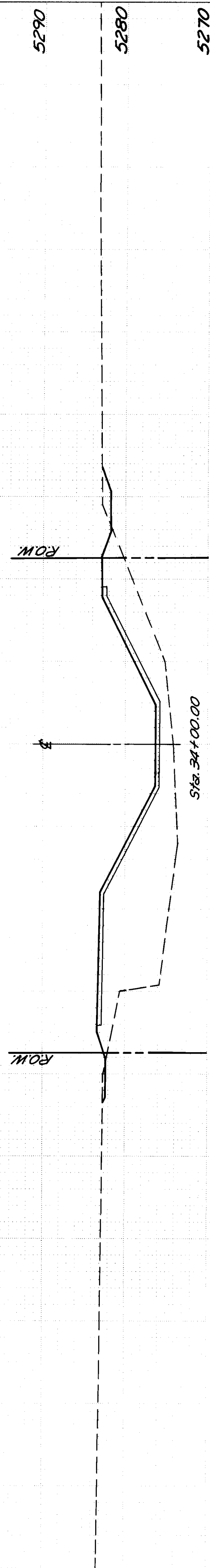


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RECORD DRAWING

CITY OF ALBUQUERQUE			
PINO ARROYO IMPROVEMENTS - PHASE II			
PINO ARROYO CHANNEL CROSS SECTIONS			
ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS ALBUQUERQUE NEW MEXICO			
FILE NO. 78-138A	DRAWN DC, TL	CHECKED JIM	DATE Aug. 1988
SHEET 24 OF 25			3532

FINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	REVISION	
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	REVISION	
NO.	AREAS CHECKED	



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SCALE:
1" = 10' HORIZ.
1" = 10' VERT.

John A. Andrews
RECORD DRAWING

CITY OF ALBUQUERQUE			
PINO ARROYO IMPROVEMENTS - PHASE II			
PINO ARROYO			
CHANNEL CROSS SECTIONS			
ANDREWS, ASBURY & ROBERT, INC.			
CONSULTING ENGINEERS NEW MEXICO			
FILE No	DRAWN	CHECKED	DATE
78-138A	DC, TL	JM	Aug. 1988

SHEET 25 OF 25