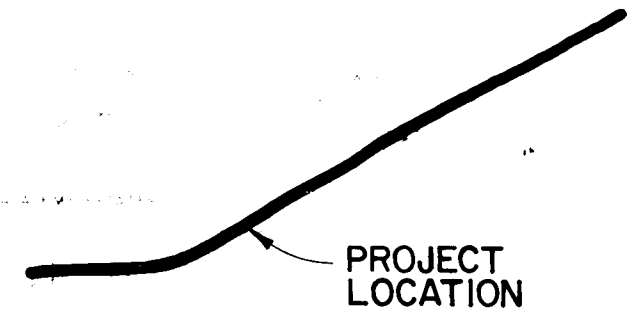


CITY OF ALBUQUERQUE
CONSTRUCTION PLANS
FOR
BEAR ARROYO TRIBUTARY

WYOMING BLVD. TO 250' WEST OF ESTRELLITA DEL NORTE

INDEX

Sheet No.	DESCRIPTION
1	TITLE SHEET
2	REPLAT OF TRACT "A" - UNIT 5 ACADEMY ESTATES
3-4	REPLAT OF TRACTS 1A, 2&4 - LANDS OF WILLIAM O. & MARY L. EDWARD
5	ACADEMY ESTATES - UNIT 8
6	PLAN & PROFILE - STA 5+00 TO STA 16+00
7	PLAN & PROFILE - STA 16+00 TO STA 29+00
8	PLAN & PROFILE - STA 29+00 TO STA 40+14.64
9	TYPICAL CHANNEL DETAILS
10	MAINTENANCE VEHICLE RAMP DETAILS
11	CHANNEL SIDE ENTRANCE DETAILS
12	RUNDOWN DETAILS
13	MISCELLANEOUS DETAILS
14	MISCELLANEOUS DETAILS
15	GRADING PLAN
16	GRADING PLAN
17-24	CROSS SECTIONS



VICINITY MAP
NOT TO SCALE

GENERAL NOTES
NOTICE TO CONTRACTORS

- NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1979 EDITION WILL BE REFERRED TO HEREON AS THE "STANDARD SPECIFICATION."
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION.
- 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 SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- PLATS INCLUDED HEREIN TO SHOW DRAINAGE RIGHT-OF-WAY ONLY.
- CONTRACTOR WILL BE EXPECTED TO PRESERVE ALL SURVEY CONTROL POINTS INCLUDING CUT STAKES, MONUMENTS, REFERENCE POINTS, ETC. DELAYS ARISING OUT OF INADVERTENT DISTURBANCE OF SUCH POINTS WILL NOT SERVE AS JUSTIFICATION FOR TIME EXTENSIONS.
- BAR CLEAR DISTANCE BETWEEN SURFACE OF REBAR AND FACE OF CONCRETE SHALL BE TWO INCHES FOR FORMED OR TOP SURFACES AND THREE INCHES WHEN CONCRETE IS POURED AGAINST EARTH.
- TRAFFIC CONTROL: APPROVED TRAFFIC CONTROL PLAN AND BARRICADING PERMITS WILL BE REQUIRED FOR ANY WORK WITHIN WYOMING OR LAYTON, AS PROVIDED IN THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS. THE COST OF ALL TRAFFIC CONTROL REQUIREMENTS SHALL BE INCIDENTAL TO THE RELATED WORK ITEMS.
- DRAINAGE HANDLING: THE PROVISIONS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE, FLOOD, AND EROSION CONTROL ORDINANCE, ARTICLE 7-9, R.O. 1974, APPLY TO THE CONSTRUCTION OF THIS PROJECT. SPECIFIC ATTENTION IS CALLED TO SECTION 7-9.12, PARAGRAPH B.2 OF THAT ORDINANCE WHICH READS AS FOLLOWS: "2. DURING THE MONTHS OF JULY, AUGUST OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT TO A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND SAFE PASSAGE OF THE 10-YEAR DESIGN STORM RUNOFF DURING CONSTRUCTION."

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ 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 THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☐ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

Design Discharge = 1,520 C.F.S.

W. J. Mykura
7-9-85

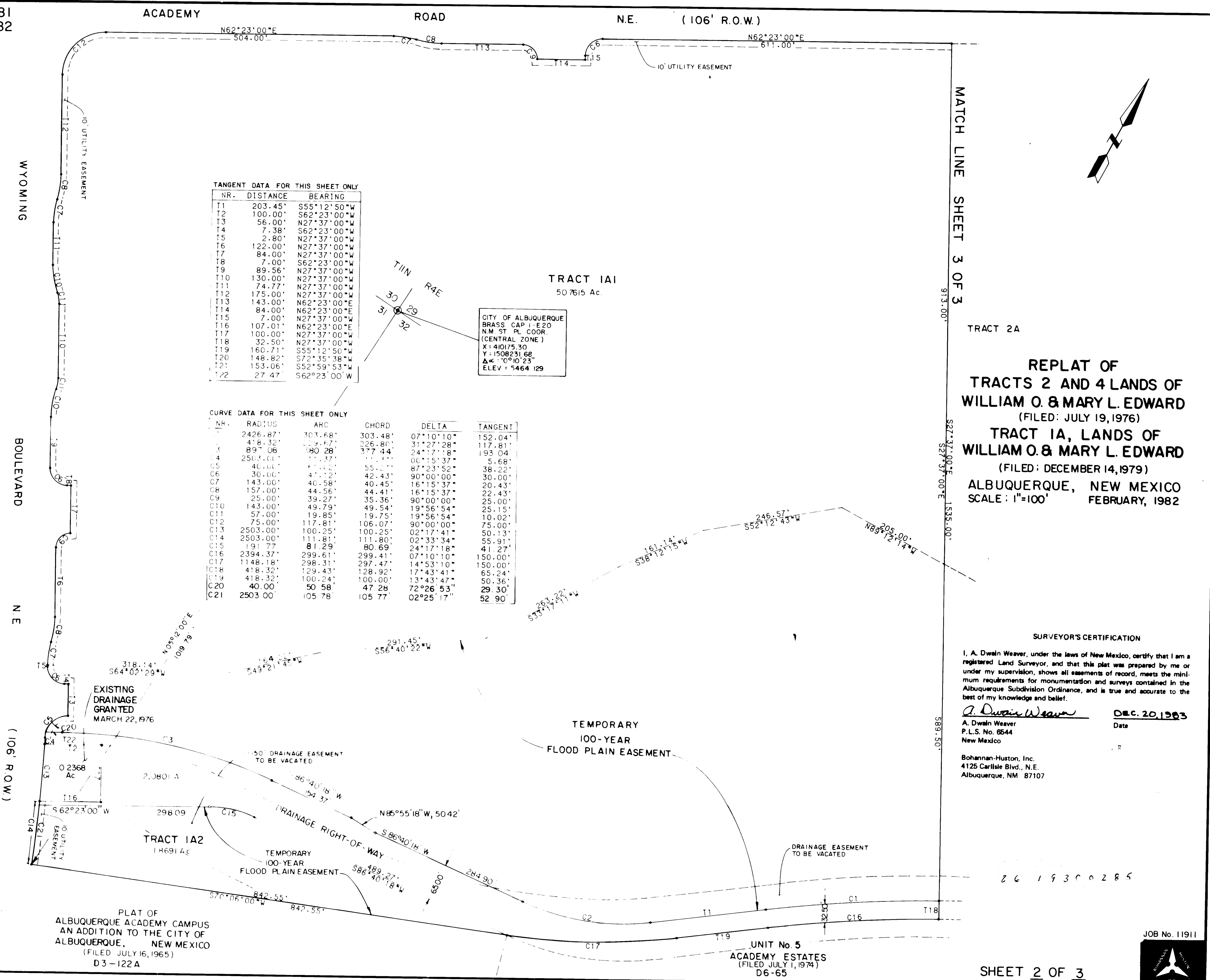
26 1930 0185

7/9/85

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

		APPROVED FOR CONSTRUCTION C.E.
	PROJECT NUMBER 1930	SHEET 1 OF 24

SP-01-25-681
SP-01-25-682



CURVE DATA

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	483.32'	265.36'	262.04'	31°27'28"	136.12'
C2	2361.87'	295.54'	295.35'	07°10'10"	147.96'
C3	2279.02'	166.46'	166.43'	04°11'06"	83.27'
C4	2409.02'	175.96'	175.92'	04°11'06"	88.02'
C5	25.00'	39.27'	35.36'	90°00'00"	25.00'
C6	413.40'	212.01'	209.69'	29°23'00"	108.39'
C7	842.00'	486.67'	479.93'	33°07'00"	250.34'
C8	2503.00'	413.56'	413.09'	09°28'00"	207.25'
C9	1148.18'	298.31'	297.47'	14°53'10"	150.00'
C10	2394.37'	299.61'	299.41'	07°10'10"	150.00'

TANGENT DATA

NR.	DISTANCE	BEARING
T1	25.88'	N62°23'00"E
T2	45.00'	N27°37'00"W
T3	230.67'	S33°00'00"W
T4	36.67'	N57°00'00"W
T5	11.00'	N00°07'00"W
T6	160.71'	N55°12'50"E
T7	180.62'	S75°38'30"W
T8	218.03'	S41°51'52"W
T9	145.27'	N88°59'20"W
T10	55.56'	N88°59'20"W
T11	87.81'	N55°12'50"E
T12	115.64'	N55°12'50"E
T13	35.00'	S27°36'59"E

REPLAT OF TRACT "A"
UNIT No. 5 ACADEMY ESTATES

FILED: JULY 1, 1974

ALBUQUERQUE, NEW MEXICO
SCALE: 1"=200' JANUARY 1982

DESCRIPTION

A REPLAT OF TRACT LETTERED "A" OF UNIT NO. 5, ACADEMY ESTATES, AN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON JULY 1, 1974.

DEDICATION

THE SUBDIVISION OF THE LAND HEREON DESCRIBED IS WITH FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNERS AND PROPRIETORS THEREOF, AND SAID OWNERS AND PROPRIETORS DO HEREBY DEDICATE DRAINAGE RIGHTS-OF-WAY SHOWN HEREON, TOGETHER WITH ALL EASEMENTS SHOWN ON THIS PLAT. ANY DRAINAGE RIGHTS-OF-WAY SHOWN HEREON ARE ALSO EASEMENTS FOR UNDERGROUND SEWER AND WATER LINES.

ACADEMY DEVELOPMENT CO.

BY: _____
GARY SWEARINGEN

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ____ DAY OF _____, 19__, BY GARY SWEARINGEN OF THE ACADEMY DEVELOPMENT CO., A CORPORATION, ON BEHALF OF SAID CORPORATION.

MY COMMISSION EXPIRES: _____ NOTARY PUBLIC

APPROVALS

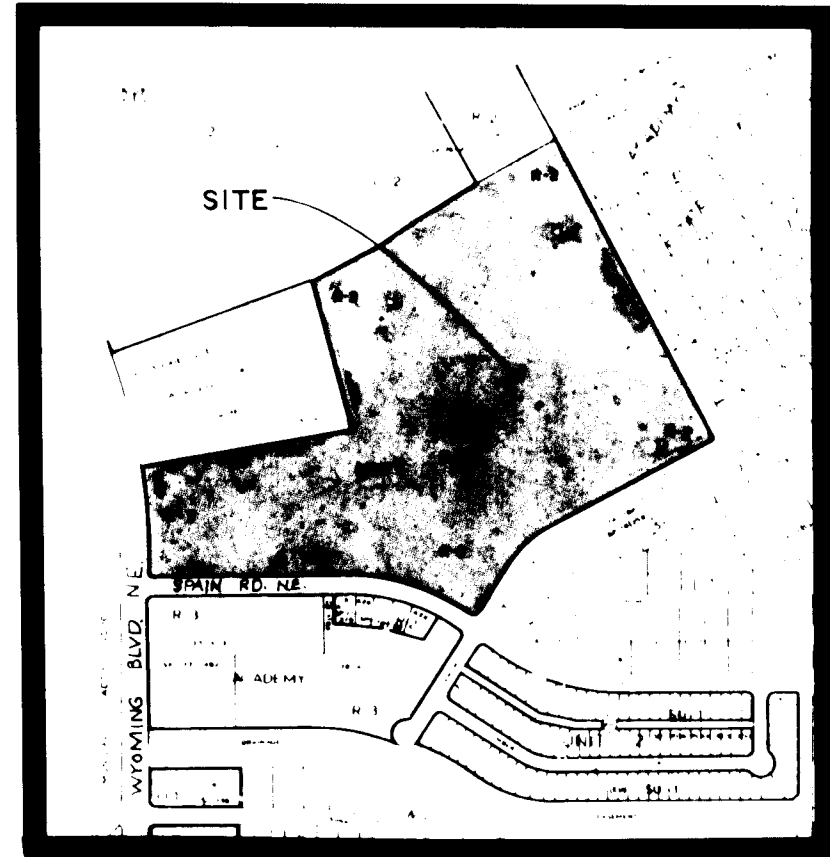
City/County Planning Division	Date
Piet No.	
City Engineer	Date
A.M.A.F.C.A.	Date
Traffic Engineer	Date
City Surveyor	Date
Property Management	Date
Water Resources Department	Date
Parks & Recreation Department	Date

NOTE:

DEDICATION TO THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, ITS SUCCESSORS AND ASSIGNS, OF THE LANDS, RIGHT-OF-WAY, AND EASEMENTS DESIGNED HEREON IS WITH THE FULL AND FREE CONSENT AND IN ACCORDANCE WITH THE DESIRE OF THE UNDERSIGNED OWNER. THIS DEDICATION IS FOR DRAINAGE, FLOOD CONTROL, AND THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF RELATED FACILITIES. ANY PORTION OF ANY LANDS, RIGHT-OF-WAY, OR EASEMENT DEDICATED OR GRANTED HEREIN SHALL REVERT TO THE OWNER, ITS SUCCESSORS AND ASSIGNS AS AND TO THE EXTENT SAID PORTION IS DECLARED UNNECESSARY FOR FLOOD CONTROL AND DRAINAGE BY THE BOARD OF DIRECTORS OF THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.

JOB No. 111911

BOHANNAN-HUSTON, INC.
4126 CARULLE BLVD., N.E.
ALBUQUERQUE, NM 87107



VICINITY MAP

NO SCALE
ZONE ATLAS MAP NO. F 20
PLAT OF
ALBUQUERQUE ACADEMY CAMPUS
ALBUQUERQUE, NEW MEXICO
(FILED JULY 16, 1965)
D3-122A

TRACT 1A SUMMARY PLAT
TRACT 1, LANDS OF
WILLIAM O. & MARY L. EDWARD
(FILED DECEMBER 14, 1979)
C16-21(2)

ACADEMY ESTATES
UNIT 8
(FILED OCTOBER 14, 1977)
D8-32

TRACT A-1
49.2759 Ac

NOTE: Internal Utility Easements
Not Shown

UNIT No. 2
ACADEMY ESTATES
(FILED SEPTEMBER 30, 1971)
D4-167

SURVEYOR'S CERTIFICATION

I, A. DWAIN WEAVER, UNDER THE LAWS OF NEW MEXICO, CERTIFY THAT I AM A REGISTERED LAND SURVEYOR, AND THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION, SHOWS ALL EASEMENTS OF RECORD, MEETS THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS CONTAINED IN THE ALBUQUERQUE SUBDIVISION ORDINANCE, AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

A. Dwain Weaver DEC. 13, 1982
A. DWAIN WEAVER
PLS No. 6844
NEW MEXICO
DATE

NOTES:

1. BASIS OF BEARINGS, UNIT NO. 5 ACADEMY ESTATES
FILED: JULY 1, 1974.
2. DISTANCES ARE GROUND DISTANCES.
3. ZONE ATLAS NO. F-20.
4. NO CORNERS WERE SET IN THE PREPARATION OF THIS
REPLAT.
5. 100-YEAR FLOOD PLAIN EASEMENT AS SHOWN ON THE
NORTHEAST HEIGHTS DRAINAGE MANAGEMENT PLAN.

26 19300385

RECEIVED
7/9/85

SP-01-25-681
SP-01-25-682 ACADEMY ROAD N.E. (106' R.O.W.)
0.4031 ACRES DEDICATED BY WARRANTY DEED
FILED MAY 25, 1977, BOOK D 32 A, PAGES 718-719

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	25.00'	39.27'	35.36'	90°00'00"	25.00'
C2	2344.02'	171.21'	171.17'	04°11'06"	85.64'
C3	1000.00'	159.99'	159.82'	09°10'00"	80.17'
C4	1020.00'	163.19'	163.01'	09°10'00"	81.77'

NR.	DISTANCE	BEARING
T1	57.00'	S62°23'00"W
T2	20.00'	N27°36'59"W
T3	32.50'	N27°37'00"W
T4	25.88'	N62°23'00"E
T5	57.00'	N62°23'00"E
T6	97.65'	S19°40'00"E
T7	50.00'	S18°27'00"E
T8	20.00'	N27°37'00"W
T9	16.81'	N18°27'00"W
T10	100.00'	N62°23'00"E
T11	85.00'	S27°37'00"E
T12	100.00'	S62°23'00"W
T13	85.00'	N27°37'00"W
T14	33.19'	S18°27'00"E
T15	62.00'	N79°44'14"E
T16	33.53'	N79°44'14"E
T17	81.18'	N55°59'06"E
T18	32.00'	N62°23'00"E

REPLAT OF
TRACTS 2 AND 4 LANDS OF
WILLIAM O. & MARY L. EDWARD
(FILED: JULY 19, 1976)

TRACT 1A, LANDS OF
WILLIAM O. & MARY L. EDWARD
(FILED: DECEMBER 14, 1979)
ALBUQUERQUE, NEW MEXICO
SCALE: 1"=100' FEBRUARY, 1982

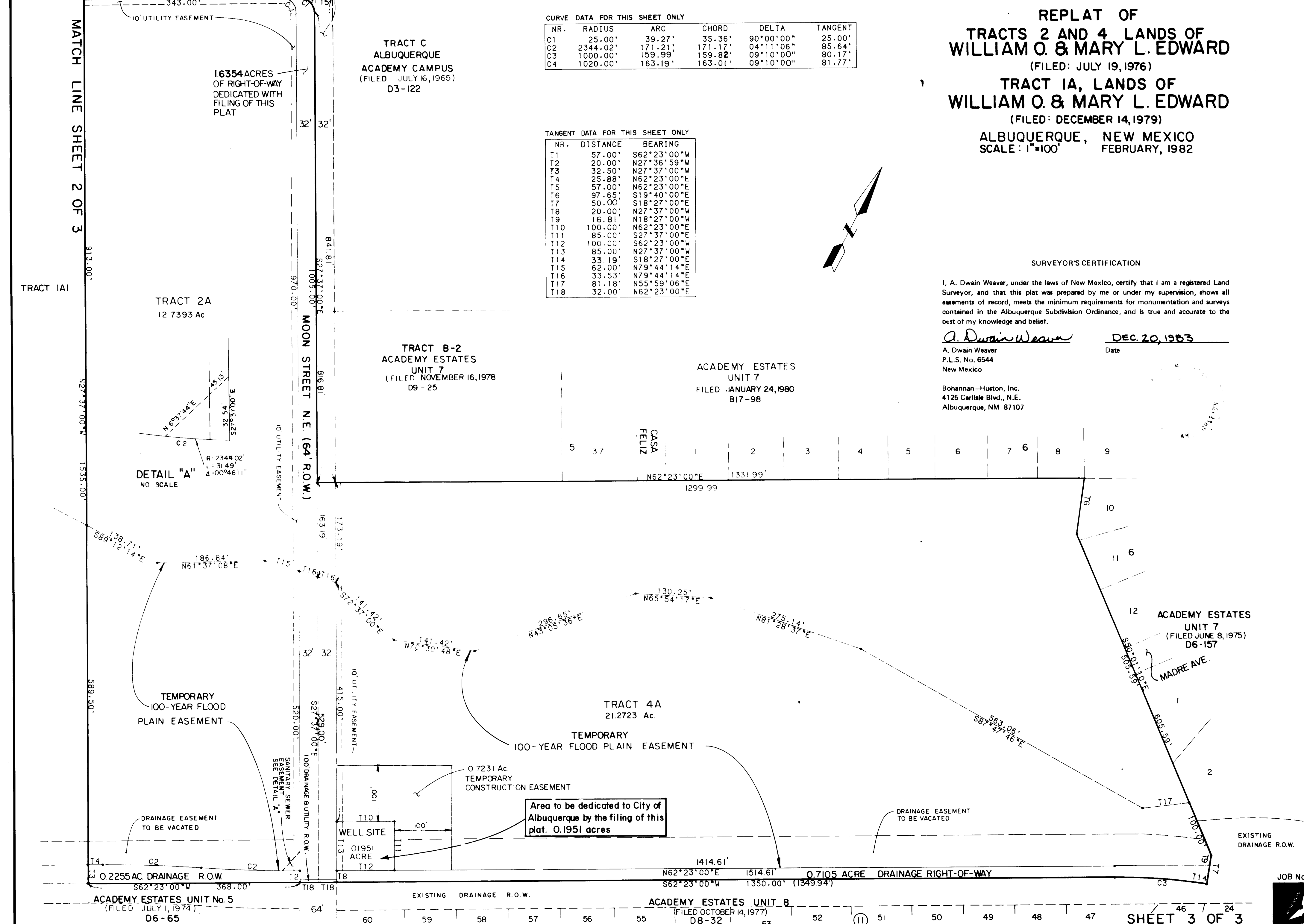
SURVEYOR'S CERTIFICATION

I, A. Dwain Weaver, under the laws of New Mexico, certify that I am a registered Land Surveyor, and that this plat was prepared by me or under my supervision, shows all easements of record, meets the minimum requirements for monumentation and surveys contained in the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

A. Dwain Weaver
A. Dwain Weaver
P.L.S. No. 6544
New Mexico

DEC. 20, 1983
Date

Bohannon-Huston, Inc.
4125 Carlisle Blvd., N.E.
Albuquerque, NM 87107



JOB No. 11911



26 1930485

7/9/85

SHEET 3 OF 3

ACADEMY ESTATES

UNIT 8

AN ADDITION TO THE CITY OF
ALBUQUERQUE, NEW MEXICO

WITHIN THE ELENA GALLEGOS GRANT
BERNALILLO COUNTY, NEW MEXICO

AUGUST 1977

VICINITY MAP
Scale 1" = 800' (Approx.)

SCALE IN FEET
1" = 100'

ACS BRASS CAP
1-E20
X=410,175.30
Y=1,508,231.68
ELEV=5,464.13

ACADEMY ESTATES UNIT 5

FILED: JULY 1, 1974
D6-65

APPROVALS, as specified by Subsection 22.A of the Albuquerque Subdivision Ordinance.

[Signature] 10-3-77
City Engineer, City of Albuquerque, NM
[Signature] 9-28-77
Traffic Engineer, City of Albuquerque, NM
[Signature] 8/29/77
Director of Parks & Recreation, City of Albuquerque, NM
[Signature] 9-30-77
Chief Surveyor, City of Albuquerque, NM
[Signature] 8-25-77
Mtn. States Telephone & Telegraph Co.

Public Service Co. of New Mexico
[Signature] 8/25/77
Southern Union Gas Company
Property Management

ACADEMY ESTATES UNIT 4

FILED: JULY 4, 1974
L5-164

APPROVALS, as specified by Subsection 22.A of the Albuquerque Subdivision Ordinance.

[Signature] 10-14-77
City Engineer, City of Albuquerque, NM
Subdivision No. S-69-27-B

County _____ City _____
SURVEY

I, under the laws of New Mexico, certify that I am a Registered Land Surveyor and that this plat was prepared by me, or under my supervision, shows all easements of record, meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

[Signature]
Stephen E. Walker
N.M.L.S. No. 6401

RECORD DRAWINGS
DATE 7/9/75

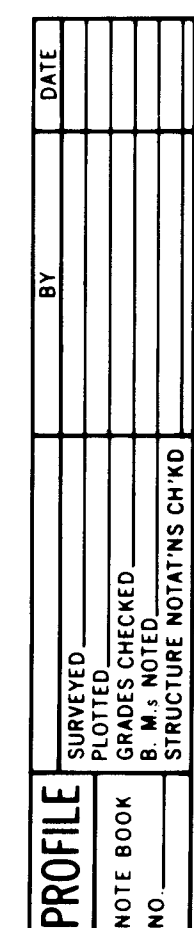
1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 9 3 0 5 8 5

SHEET 5 OF 24



MURRAY-McCORMICK, INC.
ENVIRONMENTAL DESIGN
ENGINEERING-PLANNING-SURVEYING

2601 WYOMING BLVD. N.E. SUITE F ALBUQUERQUE, NEW MEXICO 87110-505-292-1936

[illegible]

PLAN	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK		
NO.		

BRUNING 44 32 52753

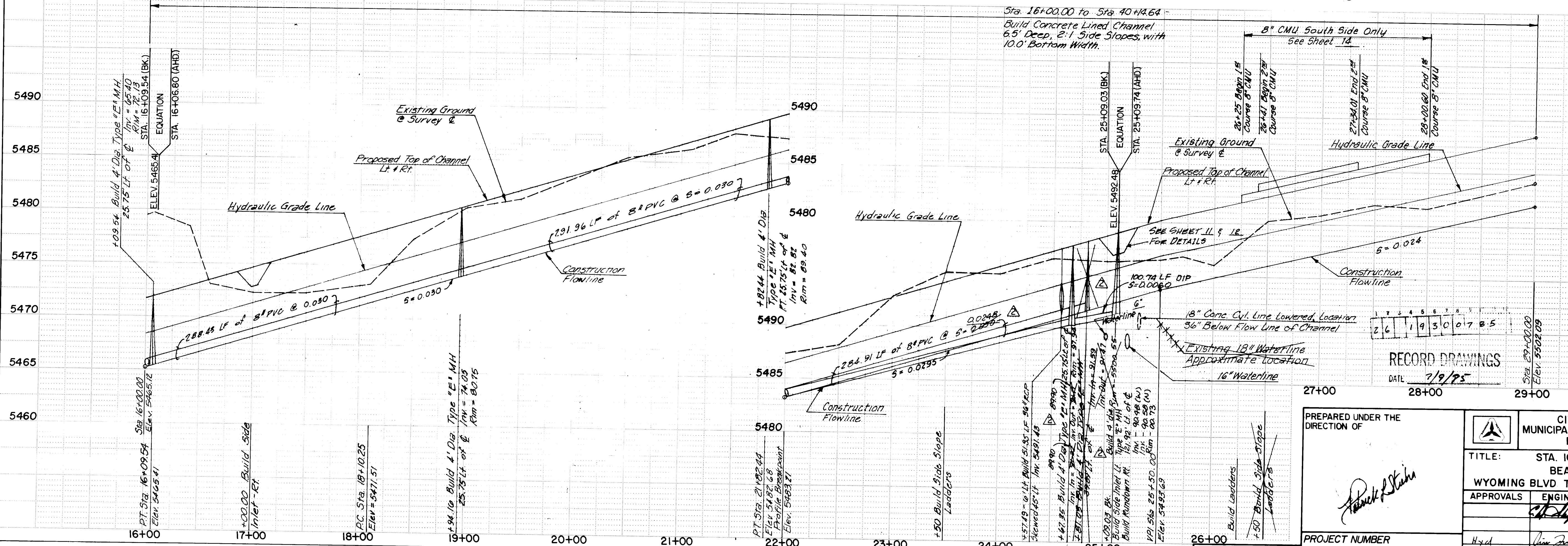
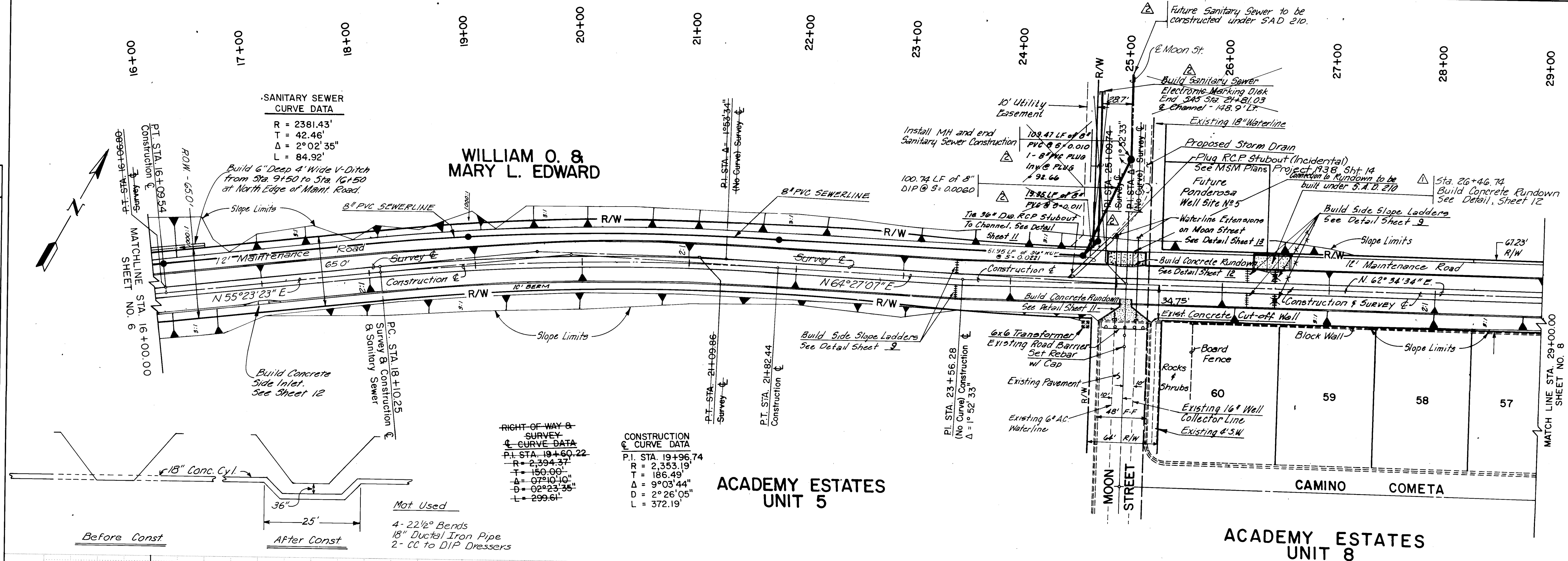


PLATE 1 SINGLE PLAN - PROFILE - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	
TITLE: STA. 16+00.00 TO STA. 29+00.00 BEAR ARROYO TRIBUTARY WYOMING BLVD TO 250' WEST OF ESTRELLITA DEL NORTE			
APPROVALS	ENGINEER	DATE	APPROVALS
PROJECT NUMBER		1930	
SCALE:		1" = 50' HORIZ. 1" = 5' VERT.	
DRAWING NO.		SHEET 7 OF 24	

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		

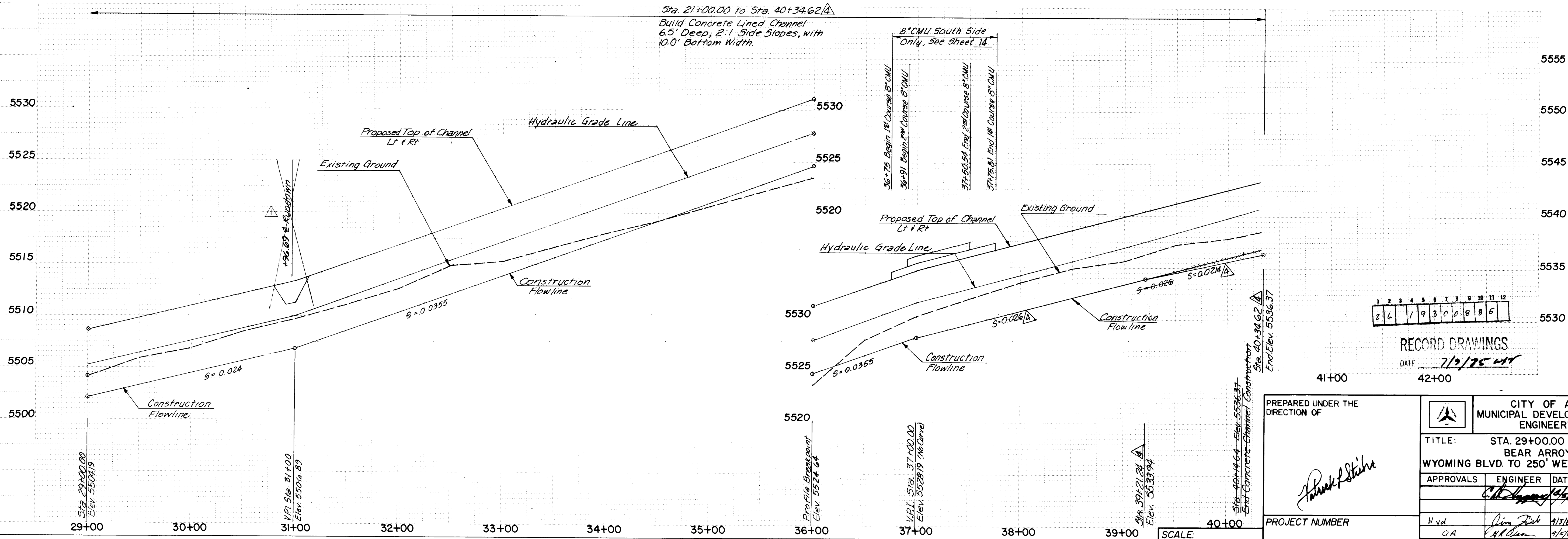
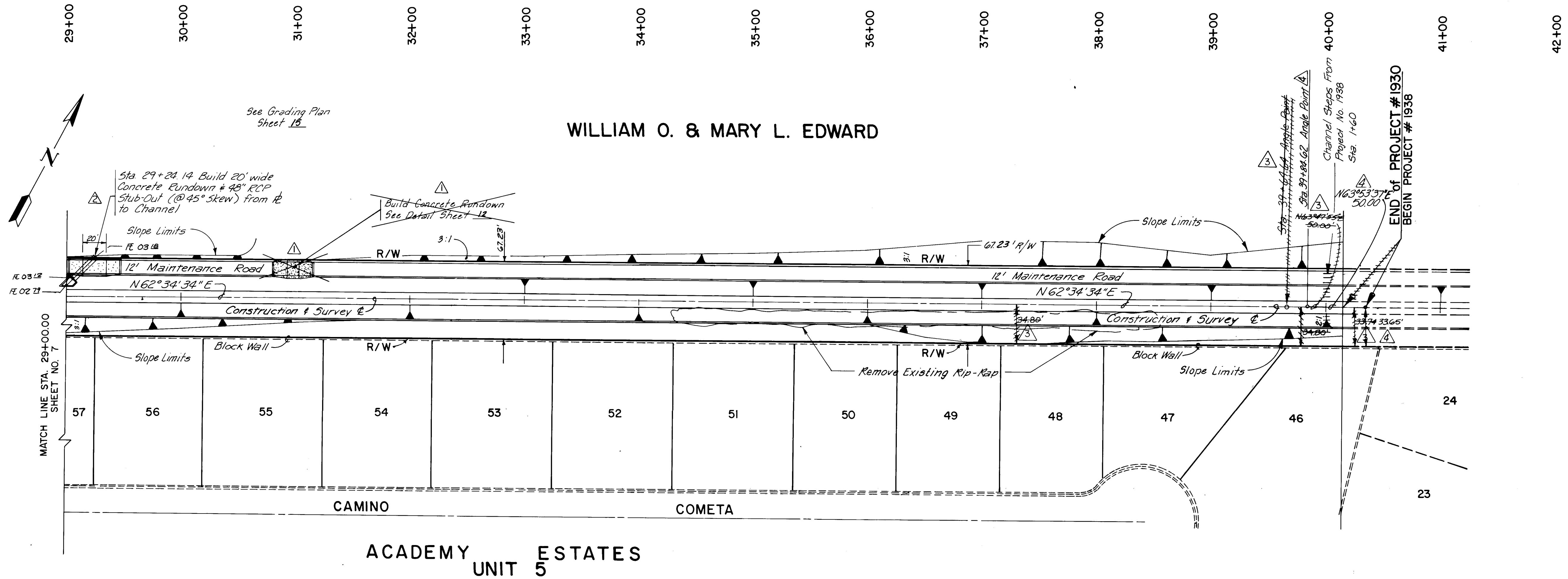
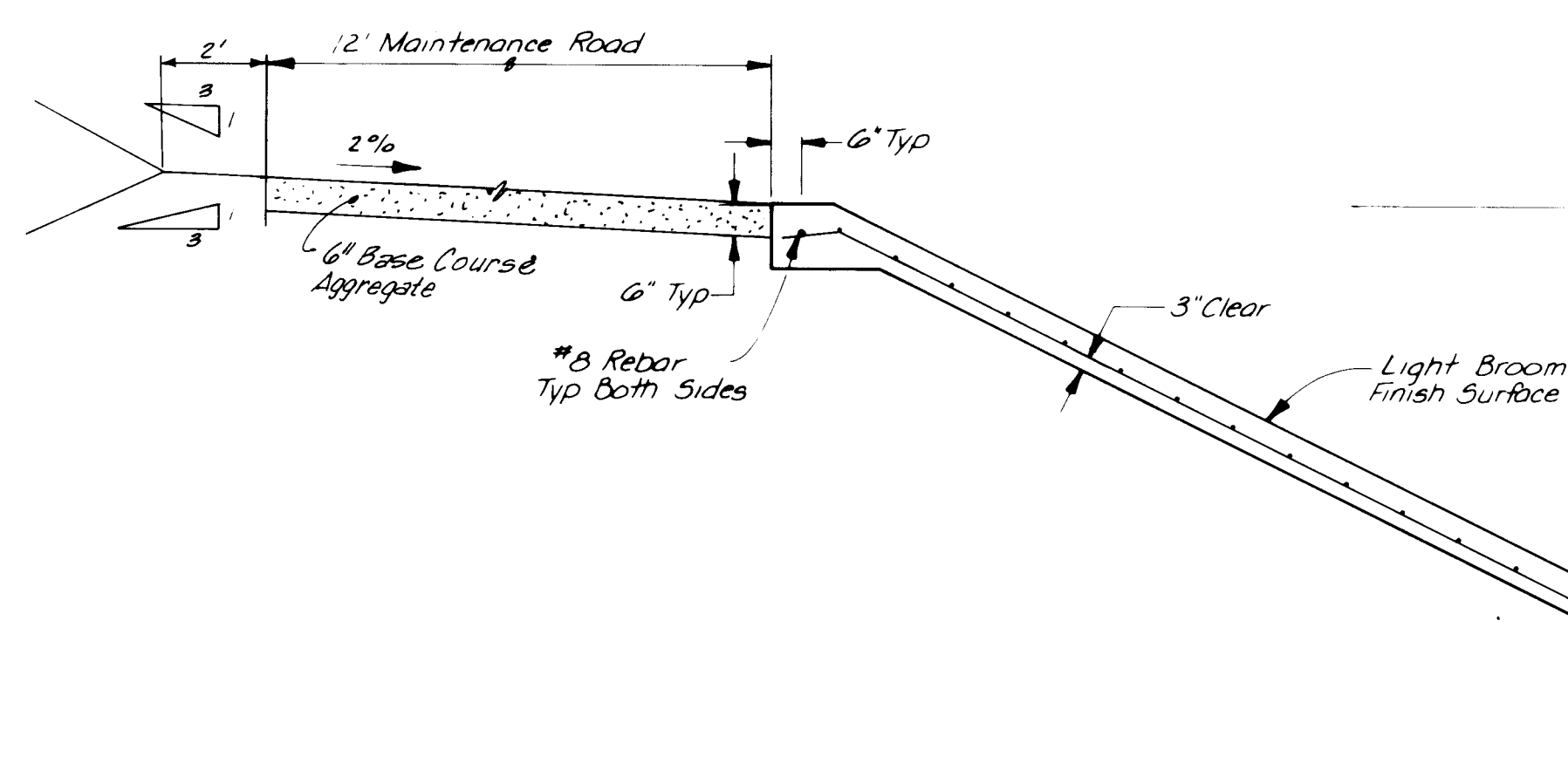


PLATE 1 SINGLE PLAN - PROFILE - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	
TITLE: STA. 29+00.00 TO STA. 40+14.64 BEAR ARROYO TRIBUTARY WYOMING BLVD. TO 250' WEST OF ESTRELLITA DEL NORTE			
APPROVALS	ENGINEER	DATE	APPROVALS
PROJECT NUMBER		1930	
DRAWING NO.		SHEET 8 OF 24	

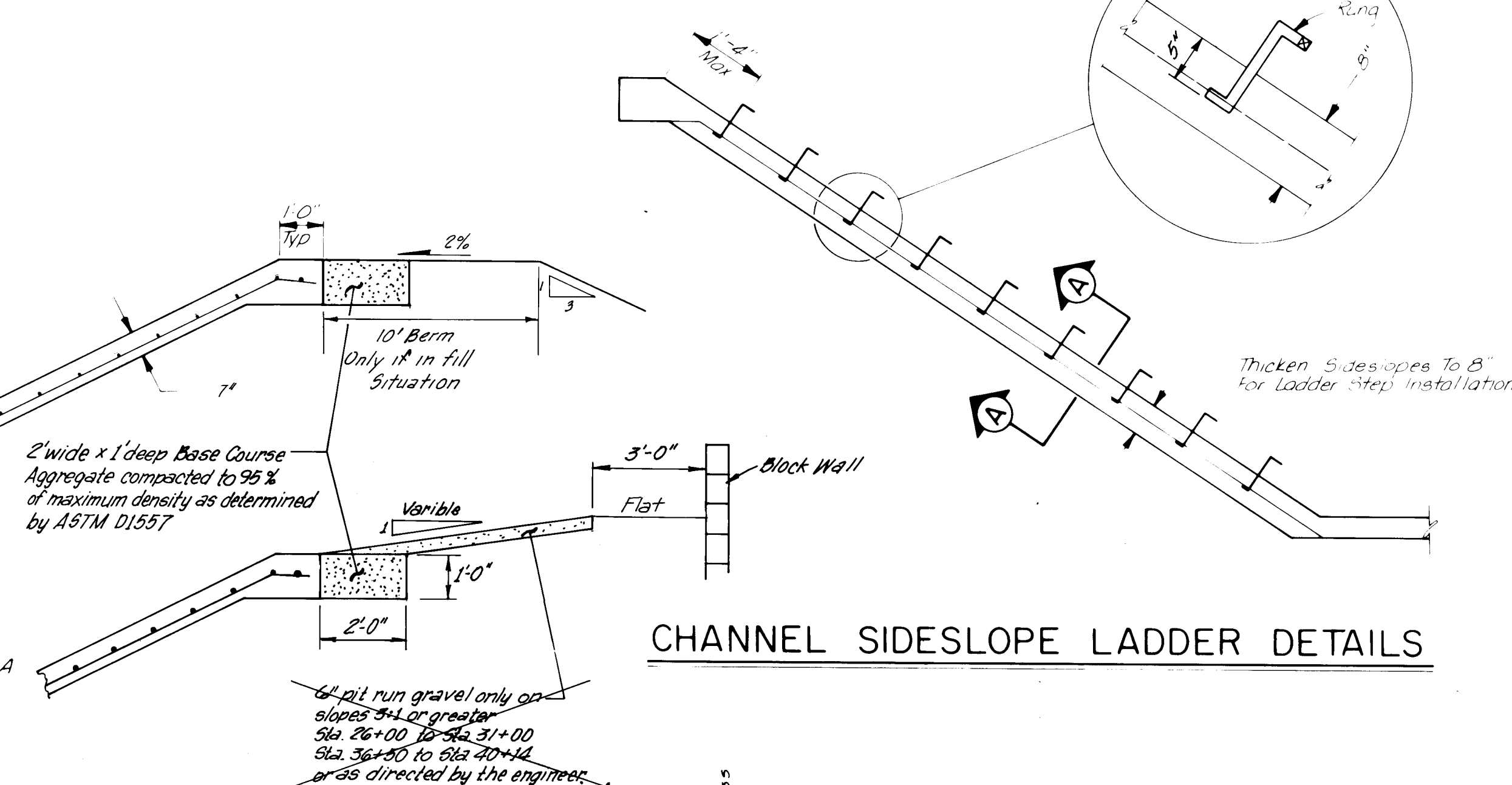
SURVEY INFORMATION				BENCH MARKS				AS-BUILT INFORMATION			
DATE	BY	NO.	W.O. NO.	DATE	BY	NO.	T.B.M. NO.	CONTRACTOR	DATE	BY	NO.
6-83	1	1		6-83	1	1	1	1	1	1	1
REFERENCES				BENCH MARKS				AS-BUILT INFORMATION			
MAP NO.	F-20-Z	EST. NO.	W.O. NO.	DATE	BY	NO.	T.B.M. NO.	CONTRACTOR	DATE	BY	NO.
REVISIONS				BENCH MARKS				AS-BUILT INFORMATION			
NO.	DATE	REMARKS	BY	DATE	BY	NO.	T.B.M. NO.	CONTRACTOR	DATE	BY	NO.



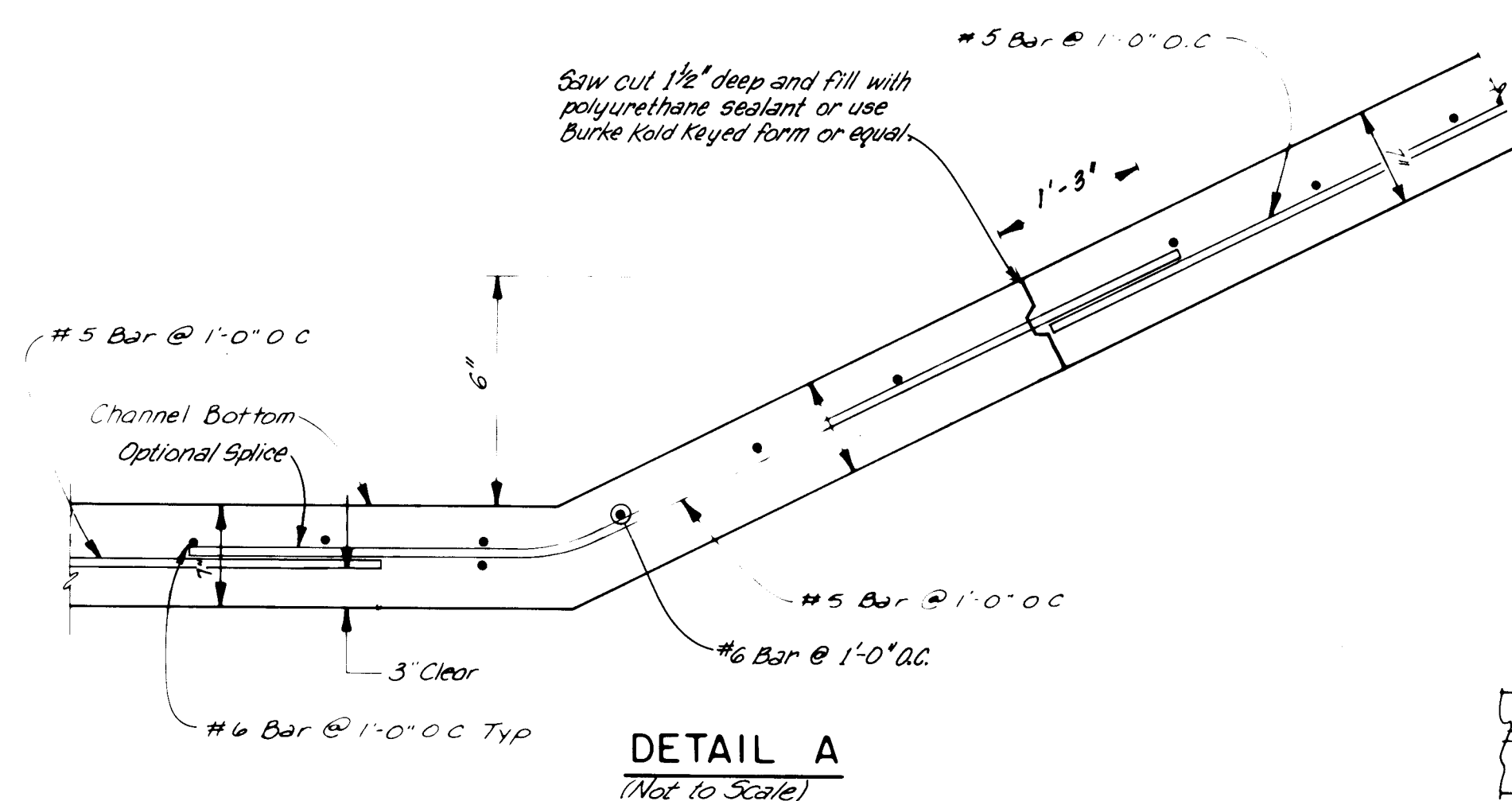
TYPICAL CHANNEL CROSS SECTION

NOTE: BOTTOM SLAB AND SIDE SLOPES TO BE REINFORCED WITH NO. 5 BARS @ 1'-0" O.C. TRANSVERSE AND NO. 6 BARS @ 1'-0" O.C. LONGITUDINAL

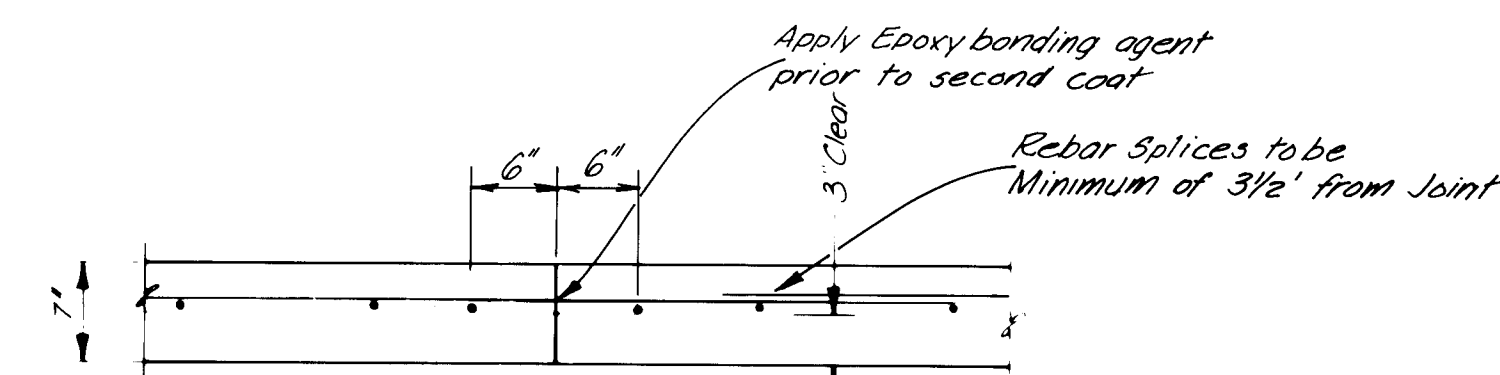
NOTE: Compact top 12" of earth to 95% of maximum density as determined by ASTM D1557 under all channel lining & maintenance road.



CHANNEL SIDESLOPE LADDER DETAILS

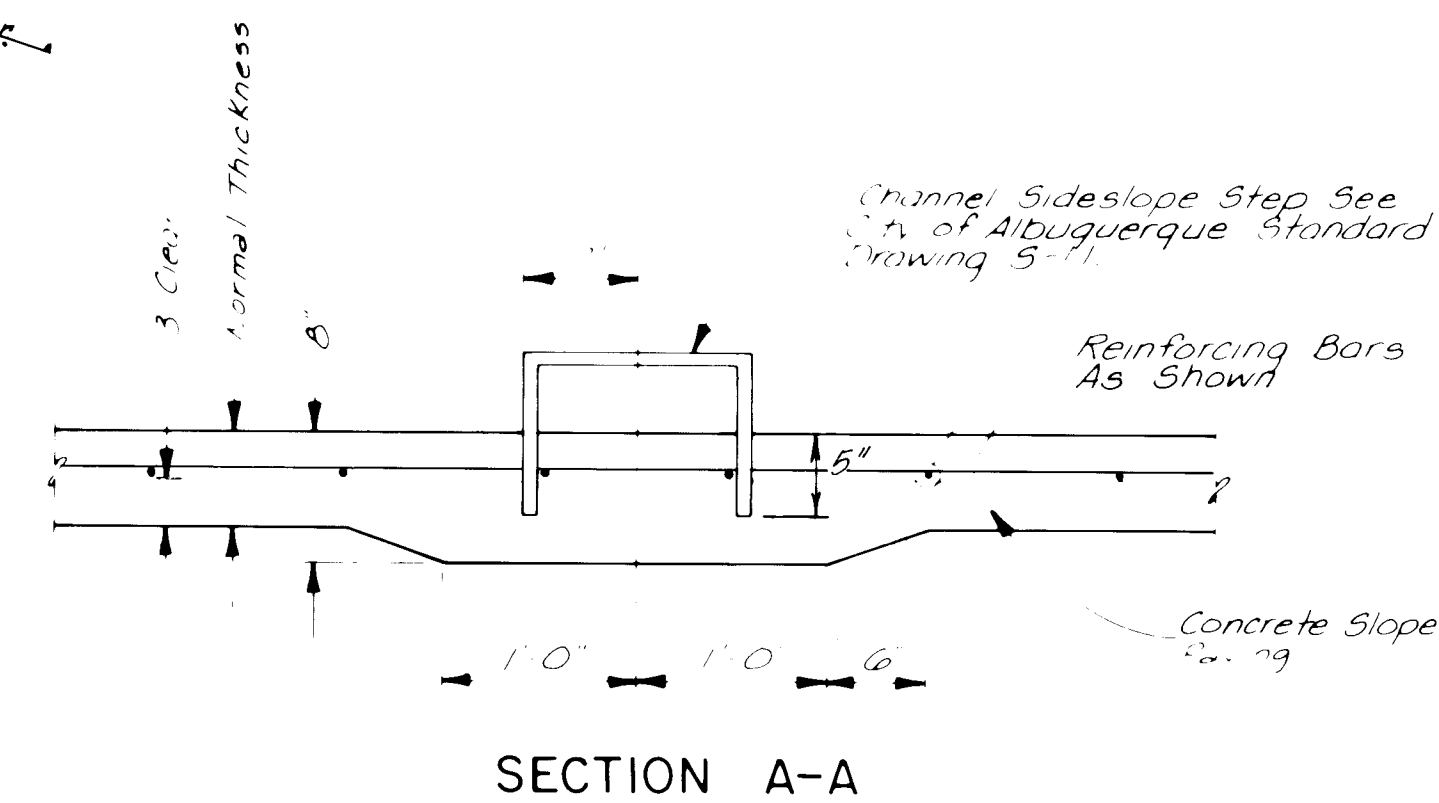


DETAIL A
(Not to Scale)

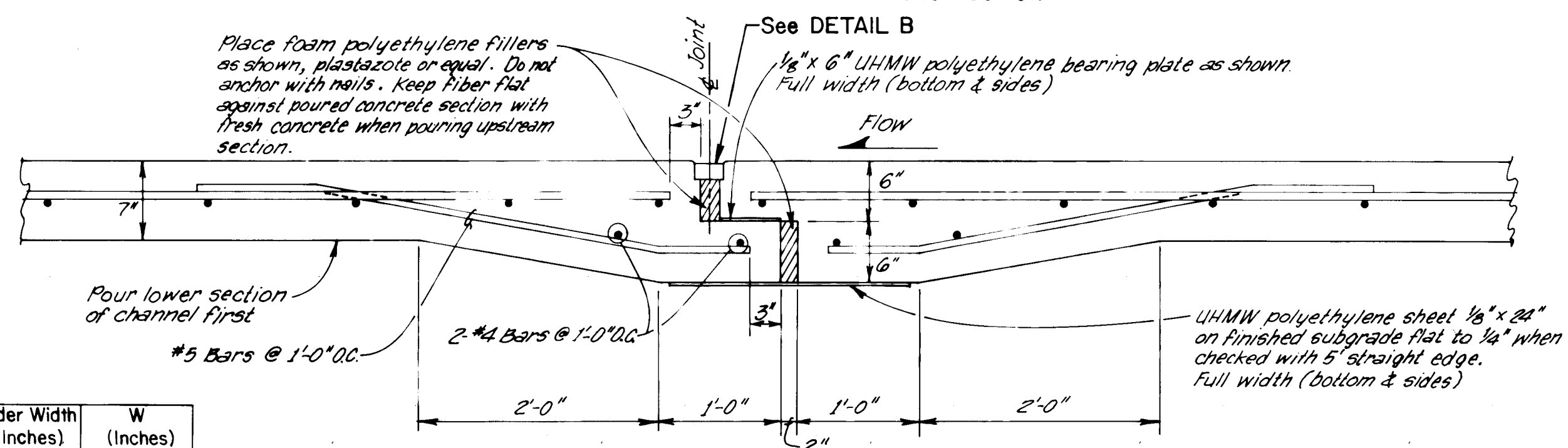


CONSTRUCTION JOINT DETAIL

AS REQUIRED BY CHANNEL CONSTRUCTION



SECTION A-A



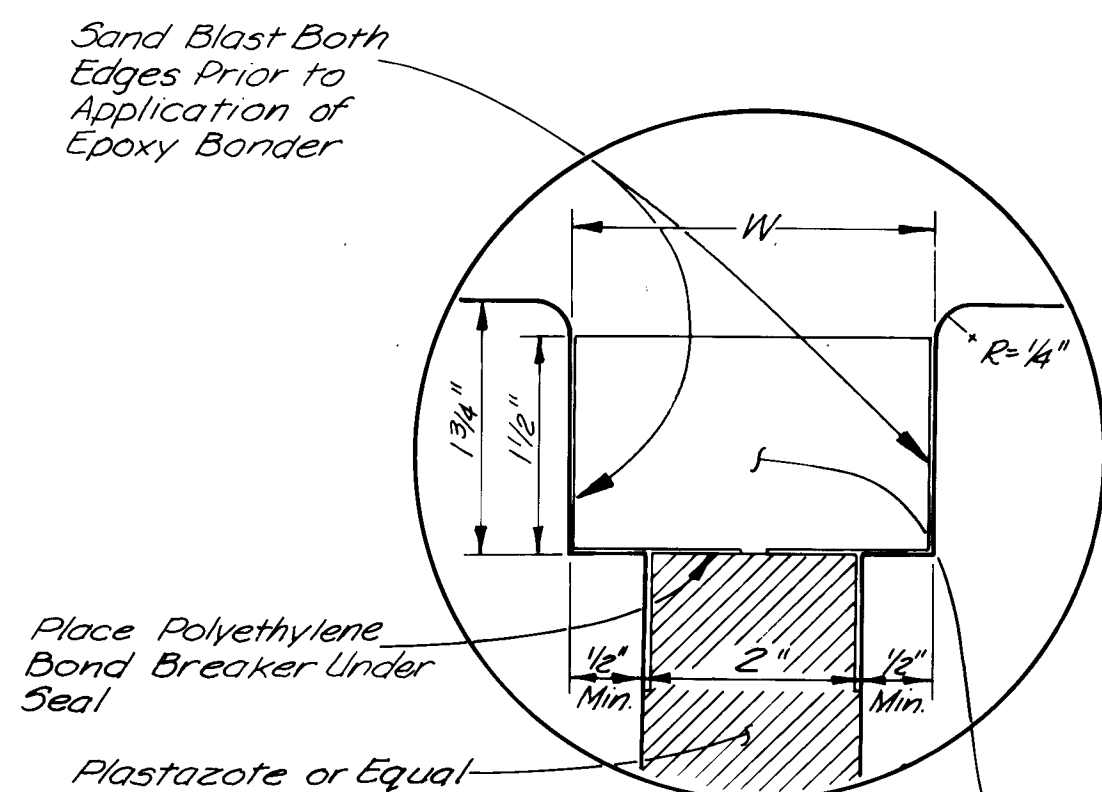
TYPICAL TRANSVERSE EXPANSION JOINT

STA. 5+70

WIDTH SCHEDULE

Average Daily Maximum Temperature (°F)	Order Width (Inches)	W (Inches)
90°	4	3
70°	4	3 1/4
50°	4	3 1/2

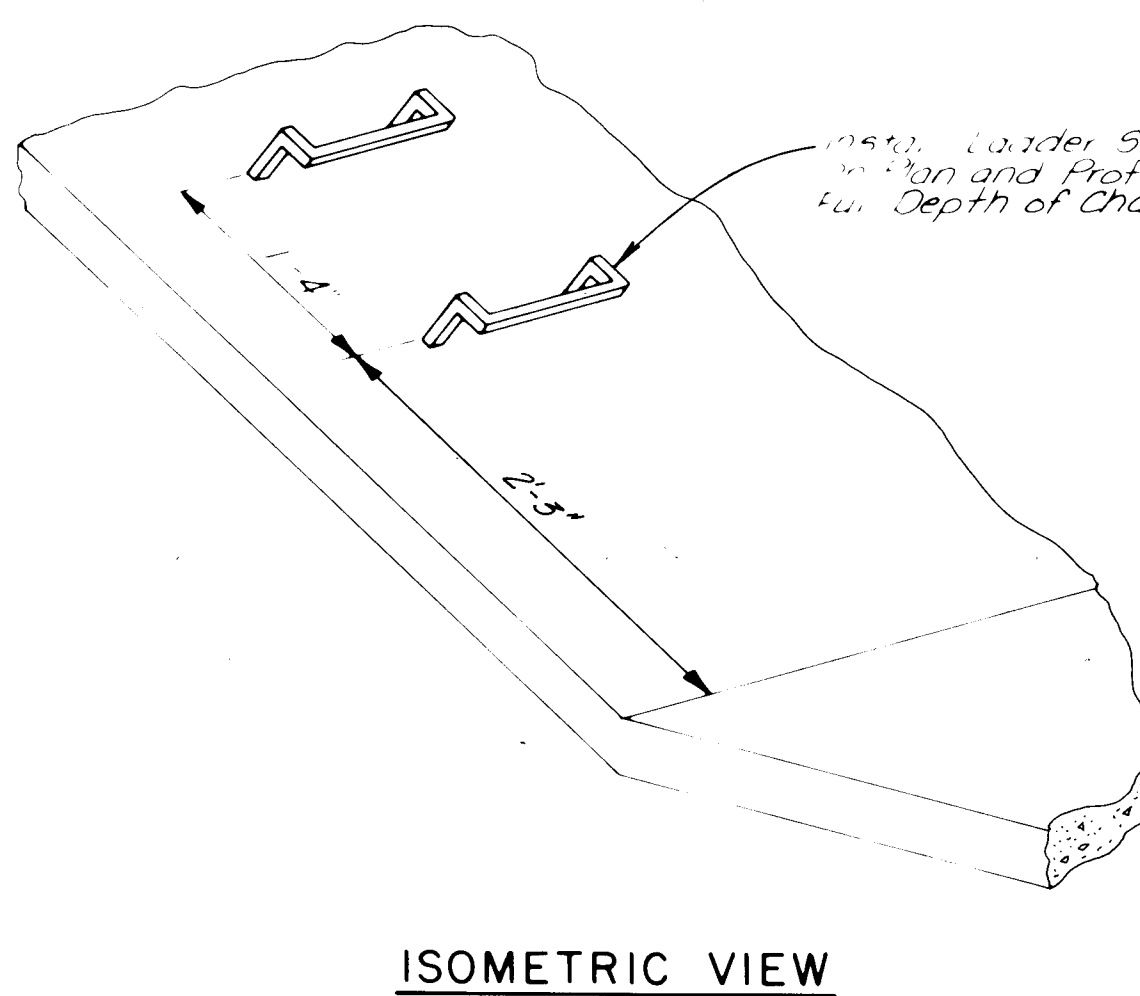
- Use this table to select proper dimensions.
- The Evaseal cannot be placed before the concrete has reached 80% of Design Strength.
- Width-W should be based on the ambient temperature at the time of Evaseal installation.
- Temperature in between should be interpolated.



DETAIL B

Apply 2 Component Epoxy Bonder To Both Concrete & Filler Material, Evapox Bonder #1 or Equal & Immediately Install Ethylene Vinyl Acetate Foam Sealant, Evaseal or Equal As Shown. (Follow Manufactures Instructions)

- NOTES:
1. Concrete shall be 3000 psi, 28 day strength with maximum aggregate size of 3/4" as stated in the specifications.
 2. All steel shall be Grade 60 deformed bars unless noted otherwise.
 3. Splices in rebar shall be 1'-0" or greater for No. 3 and No. 4 bars, 1'-3" for No. 5 bars, and 1'-8" for No. 6 bars.
 4. All steel spacings are given to the centerline of the bar.
 5. All exposed edges shall have a 1/8" chamfer.
 6. All rebar shall be supported on 3" continuous sand chairs perpendicular to & at a maximum spacing of 5'-0" along channel &.
 7. Place ladder steps as shown on plan and profile sheets on both sides of channel.
 8. Build expansion joints as shown on the plan and profile sheets.
 9. Longitudinal channel rebar to be spliced in a chevron or staggered pattern.



ISOMETRIC VIEW

26 1930985

RECORD DRAWINGS

DATE: 7/7/85

SCALE: NO SCALE

JOB NO. 1930

PREPARED UNDER THE DIRECTION OF

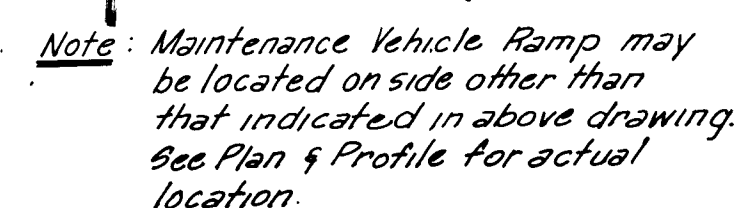
Paul P. Stein

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

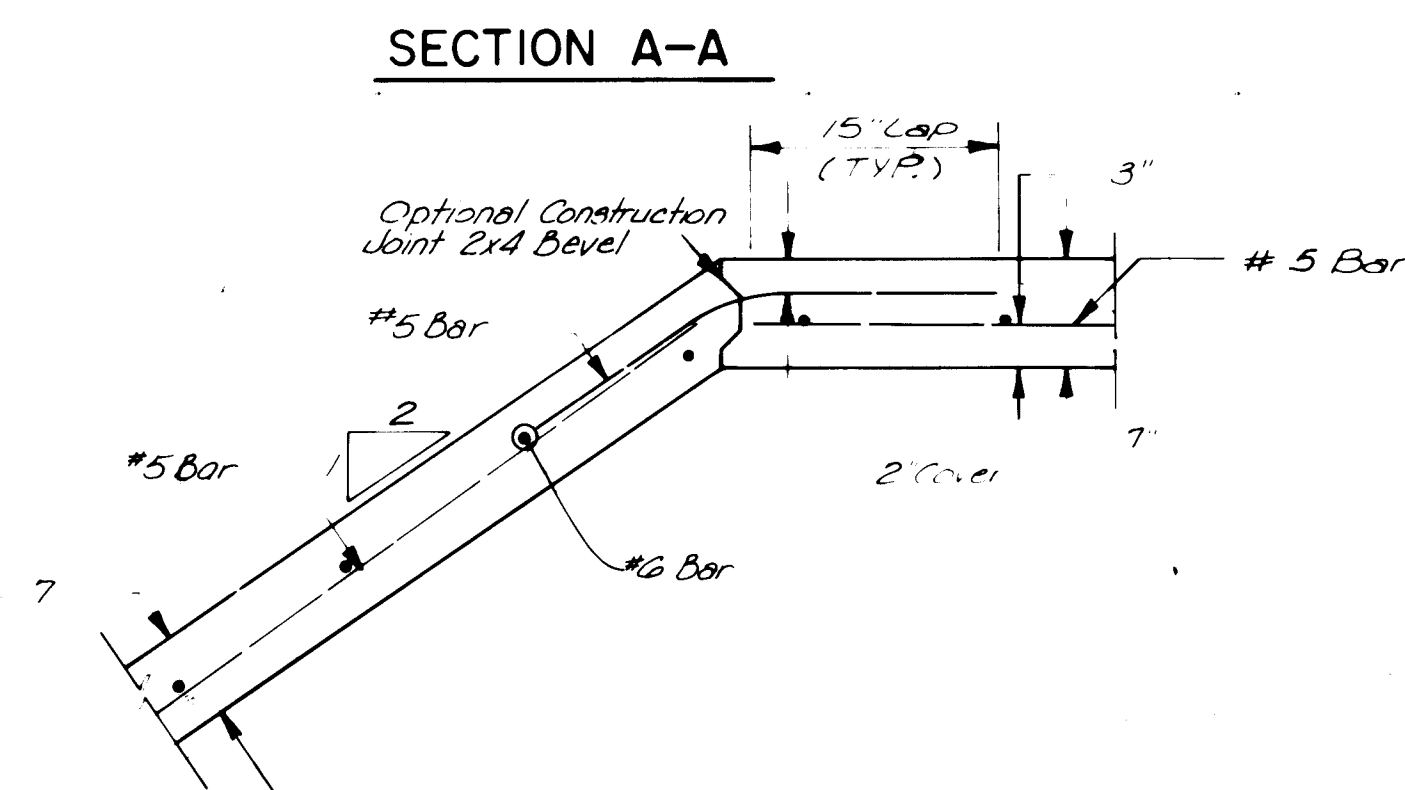
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: TYPICAL CHANNEL SECTIONS BEAR ARROYO TRIBUTARY WYOMING BLVD TO 250' WEST OF ESTRELLITA DEL NORTE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	ACE-Design	ACE-Hydrology	Liquid Waste	Water	
4/1/84	4/1/84	4/1/84	4/1/84	4/1/84	4/1/84
DRAWING NO.			SHEET 9 OF 24		



Technical drawing of a concrete drainage ditch cross-section. The ditch has a bottom width of 7 feet and a depth of 7 feet. The side slopes are 2:1. The ditch is reinforced with normal channel reinforcing. A 10-inch vehicle pump is shown at the bottom. A 6-inch base course and #8 bar continuous are shown on the right side. A maintenance road is shown on the right with a 2% slope. A note specifies compacting the top 12 inches of earth to 95% of maximum density. Dimensions include 12 feet for the maintenance road width and 2 feet for the base course width. Reinforcing bars are specified as #4 bars at 1'-0" O.C. longitudinally and #4 bars at 1'-0" O.C. transversely.

NOTE:
See Trapezoidal Channel Details, Sheet 9,
for Channel Dimensions and Typical Channel
Sections

[illegible]

ISOMETRIC VIEW

[illegible][illegible]

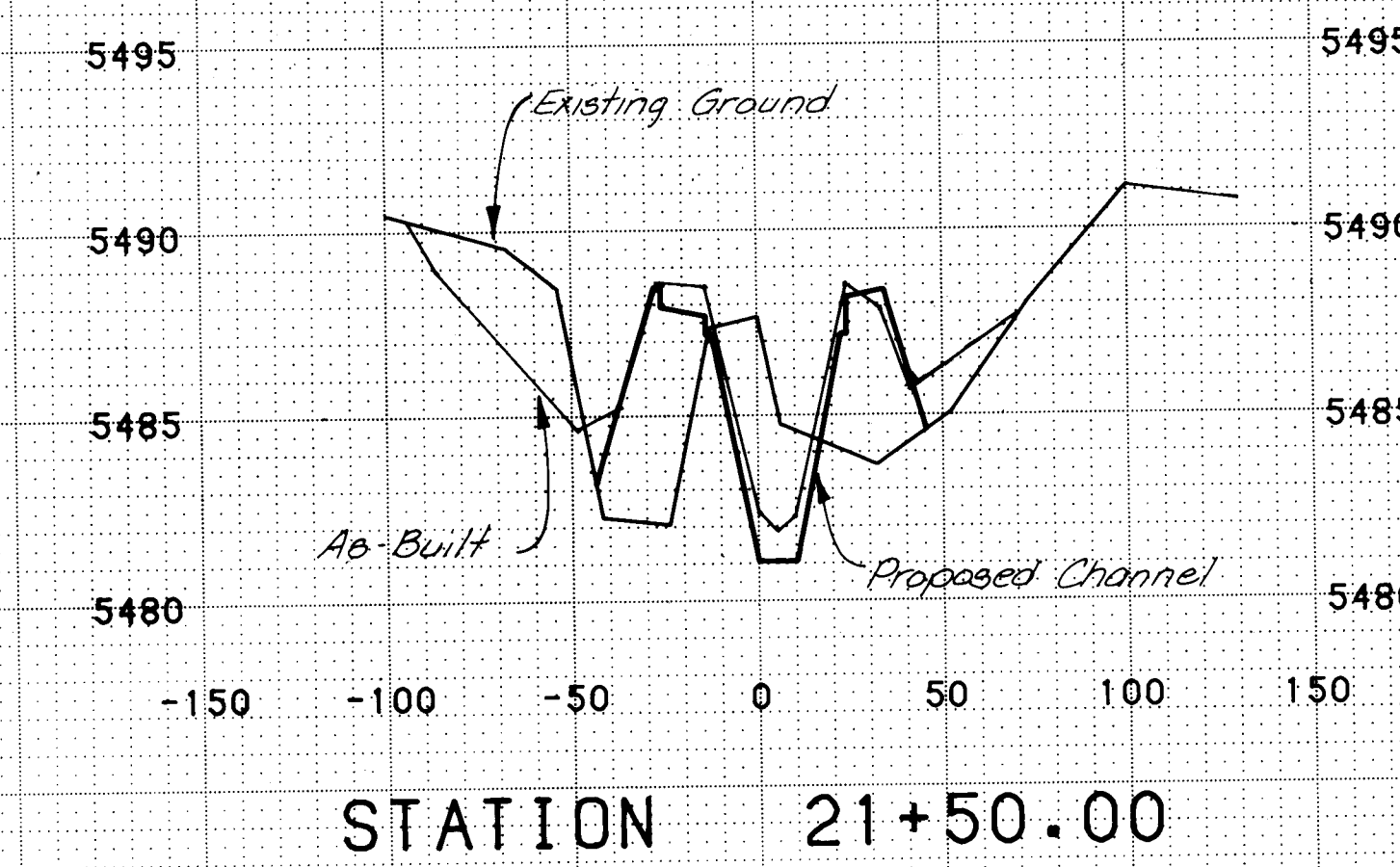
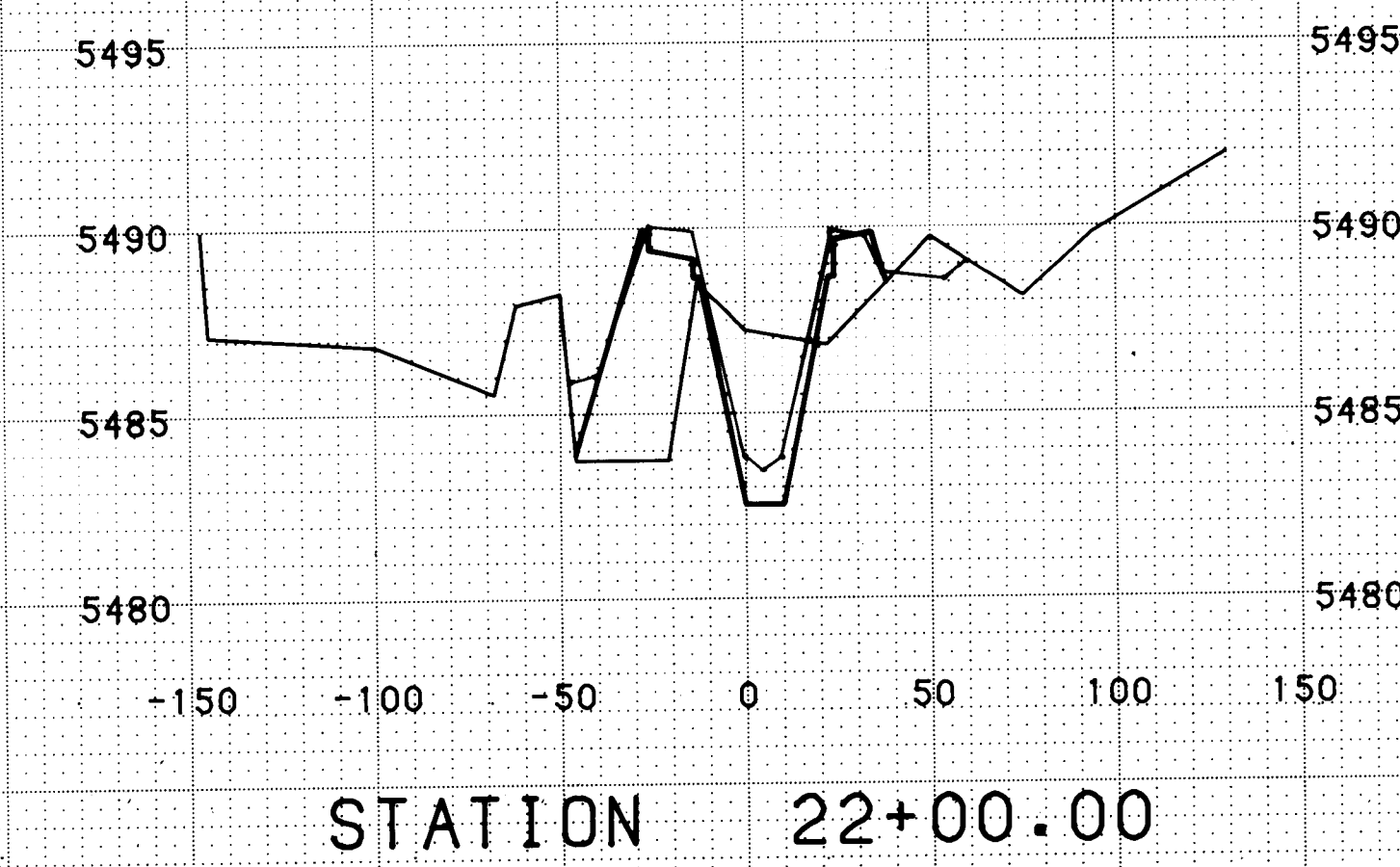
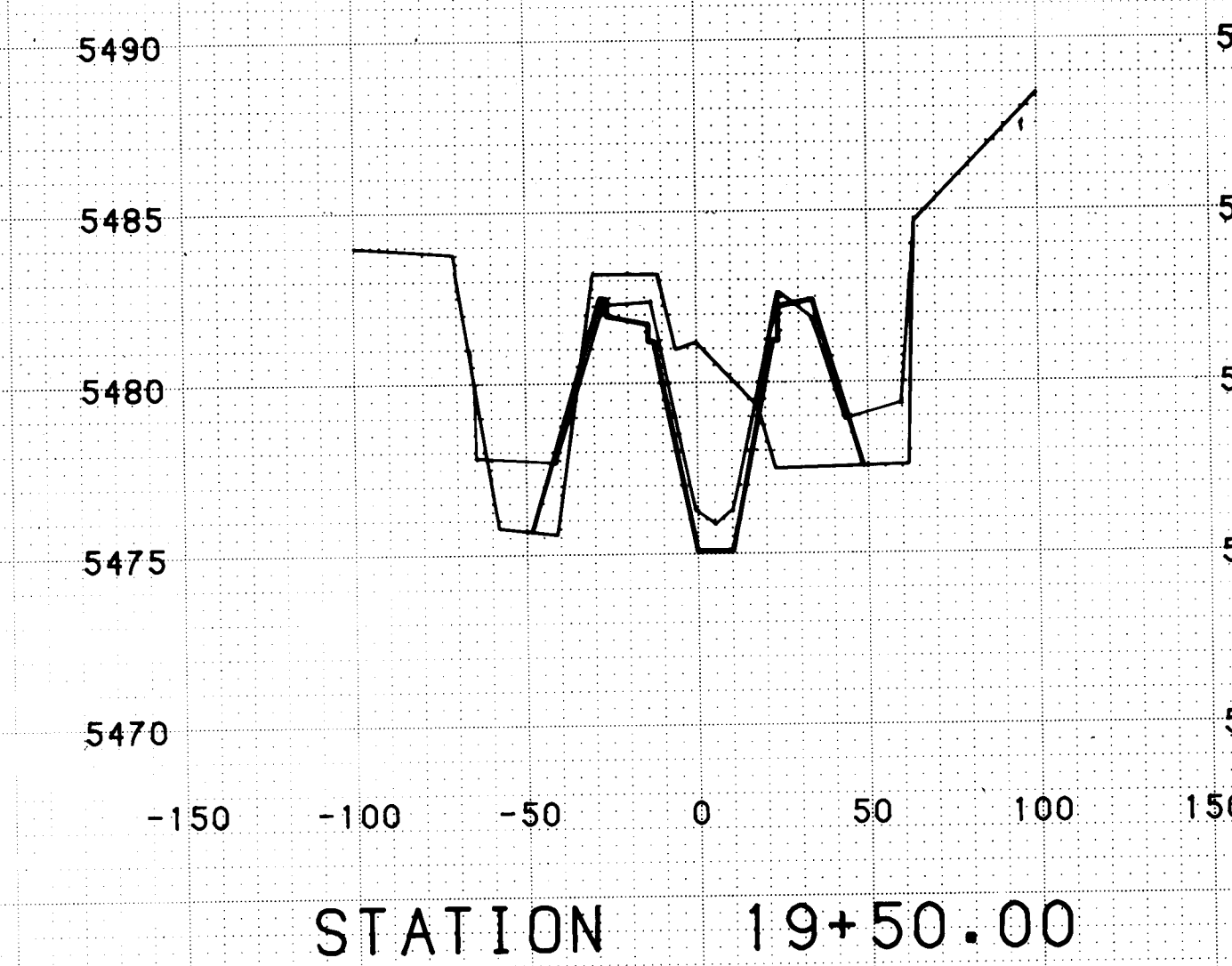
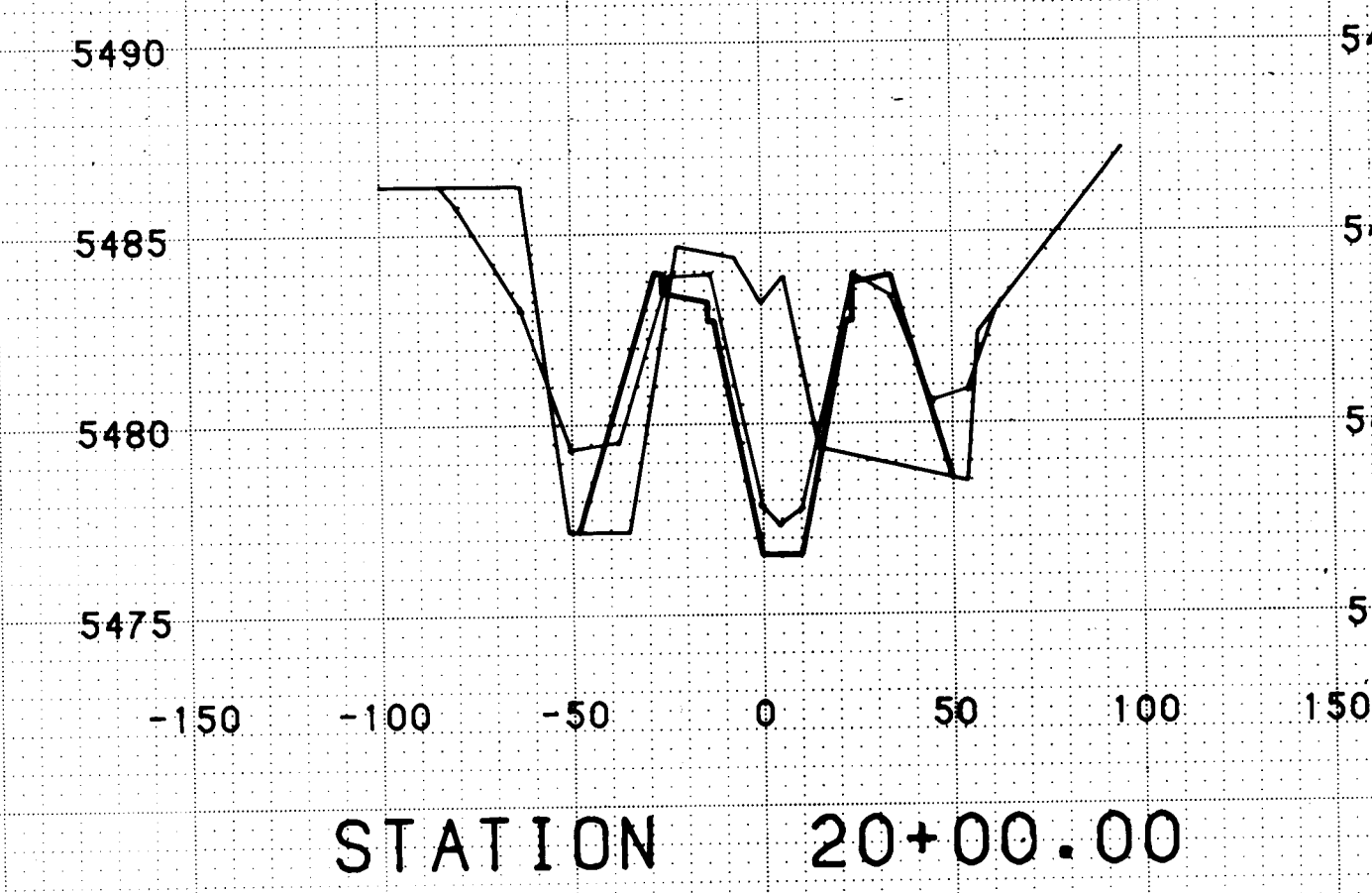
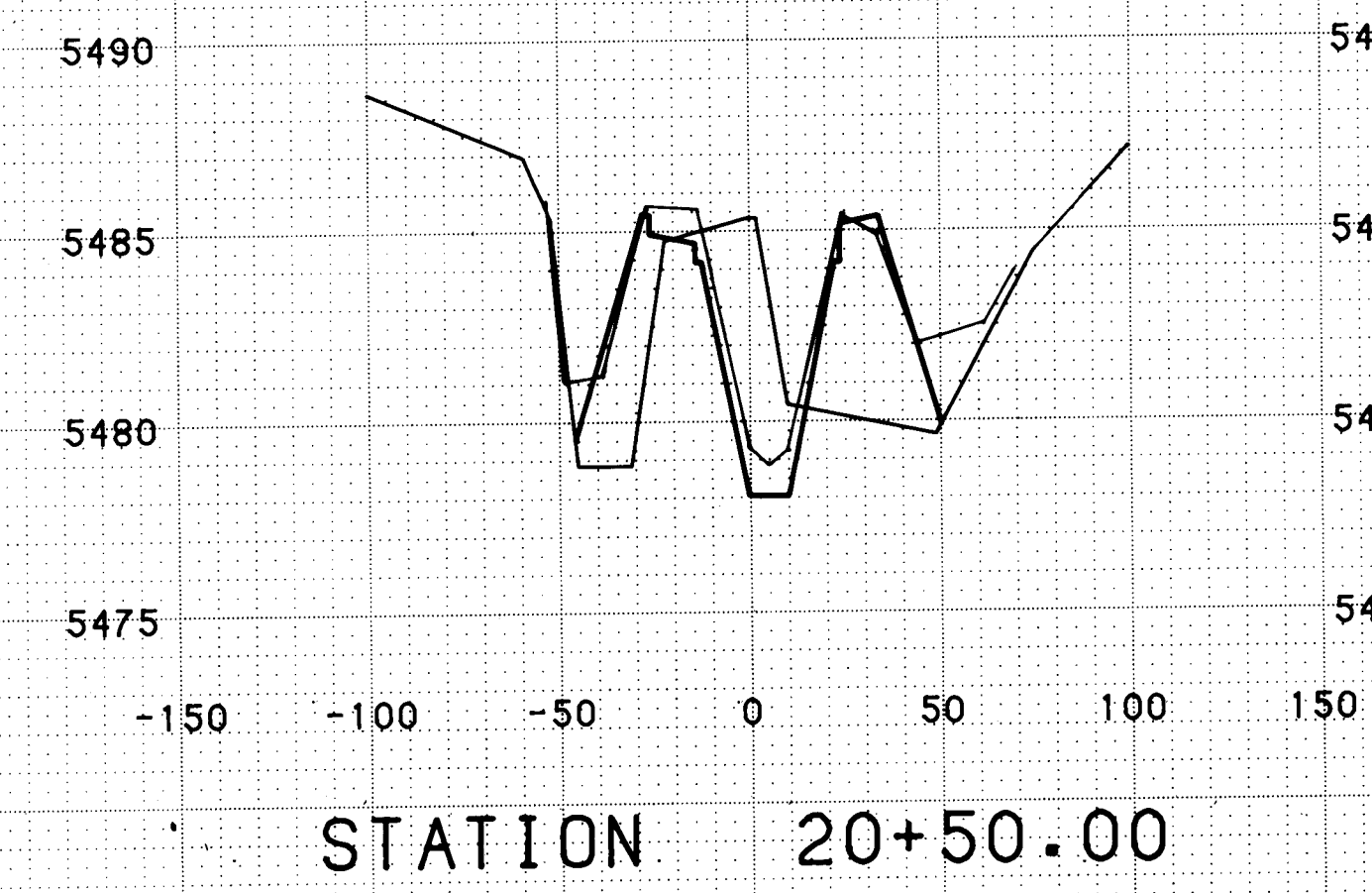
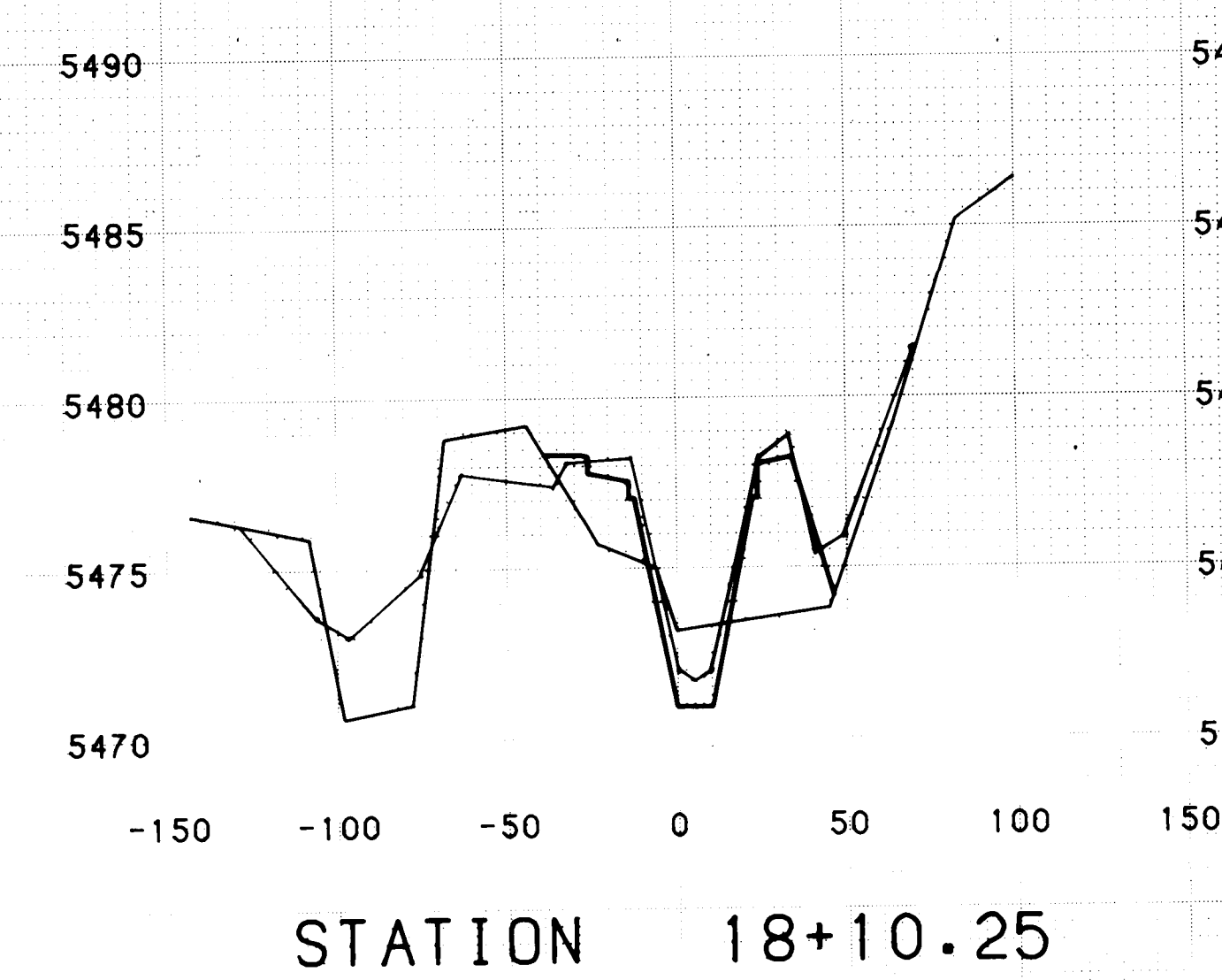
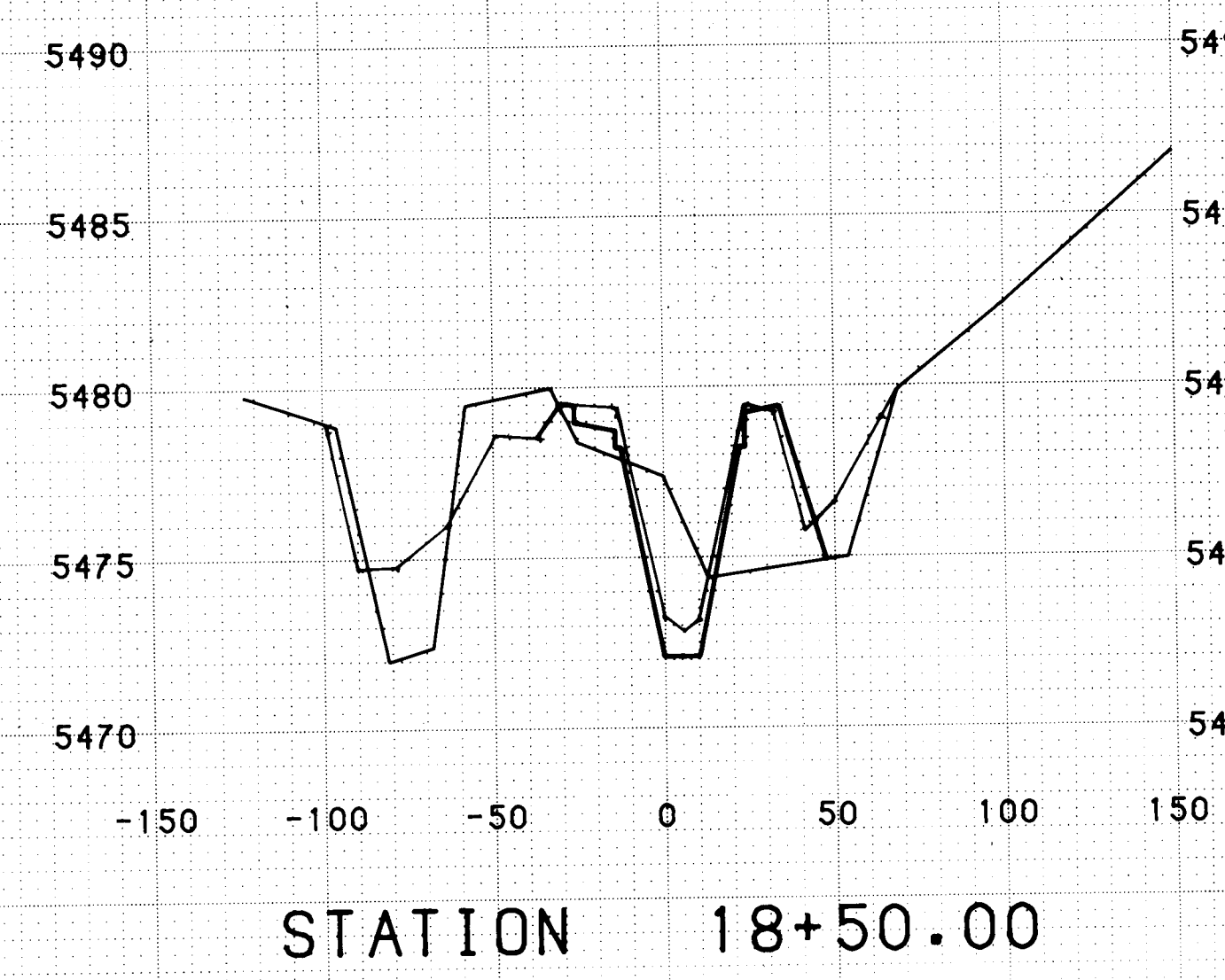
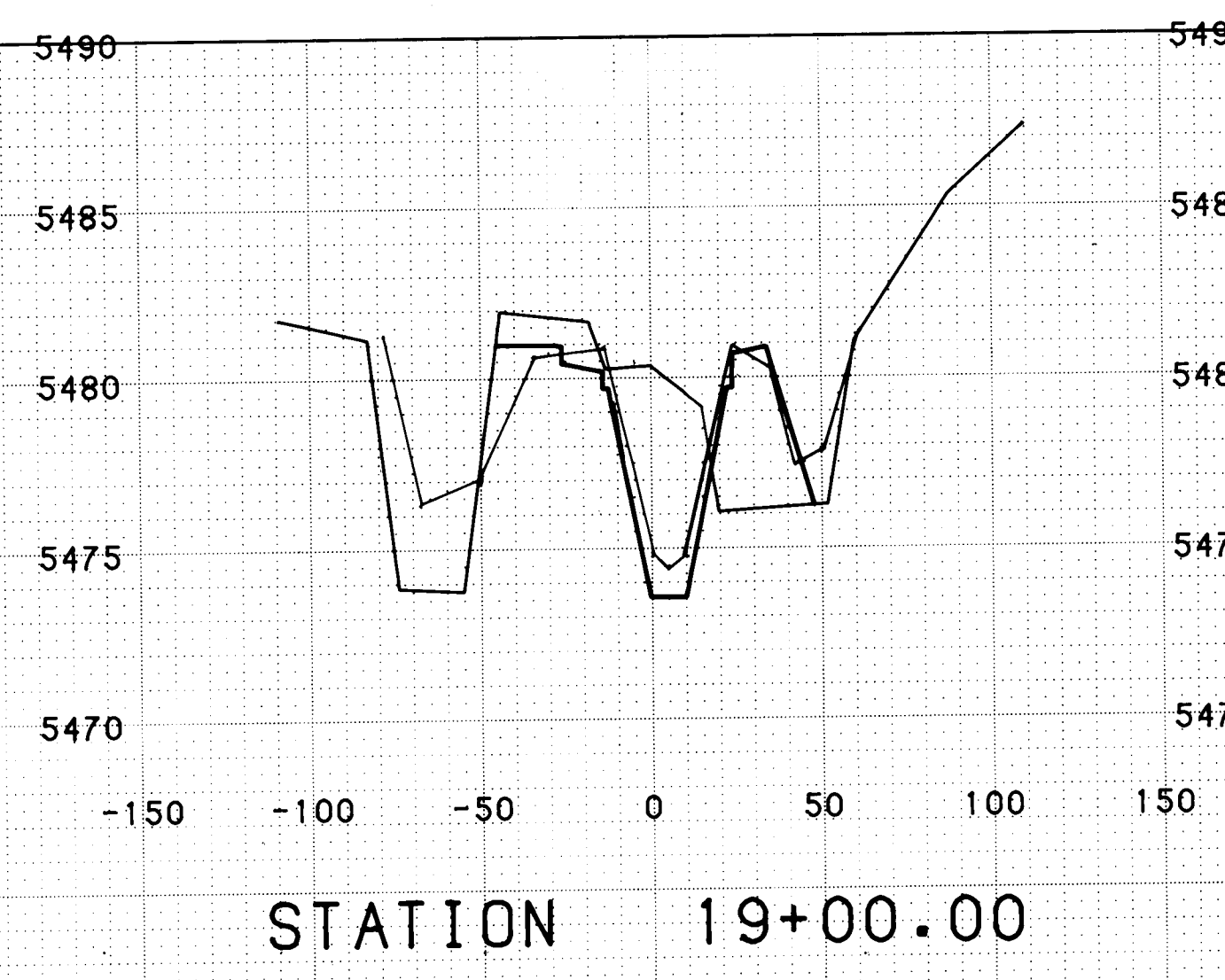
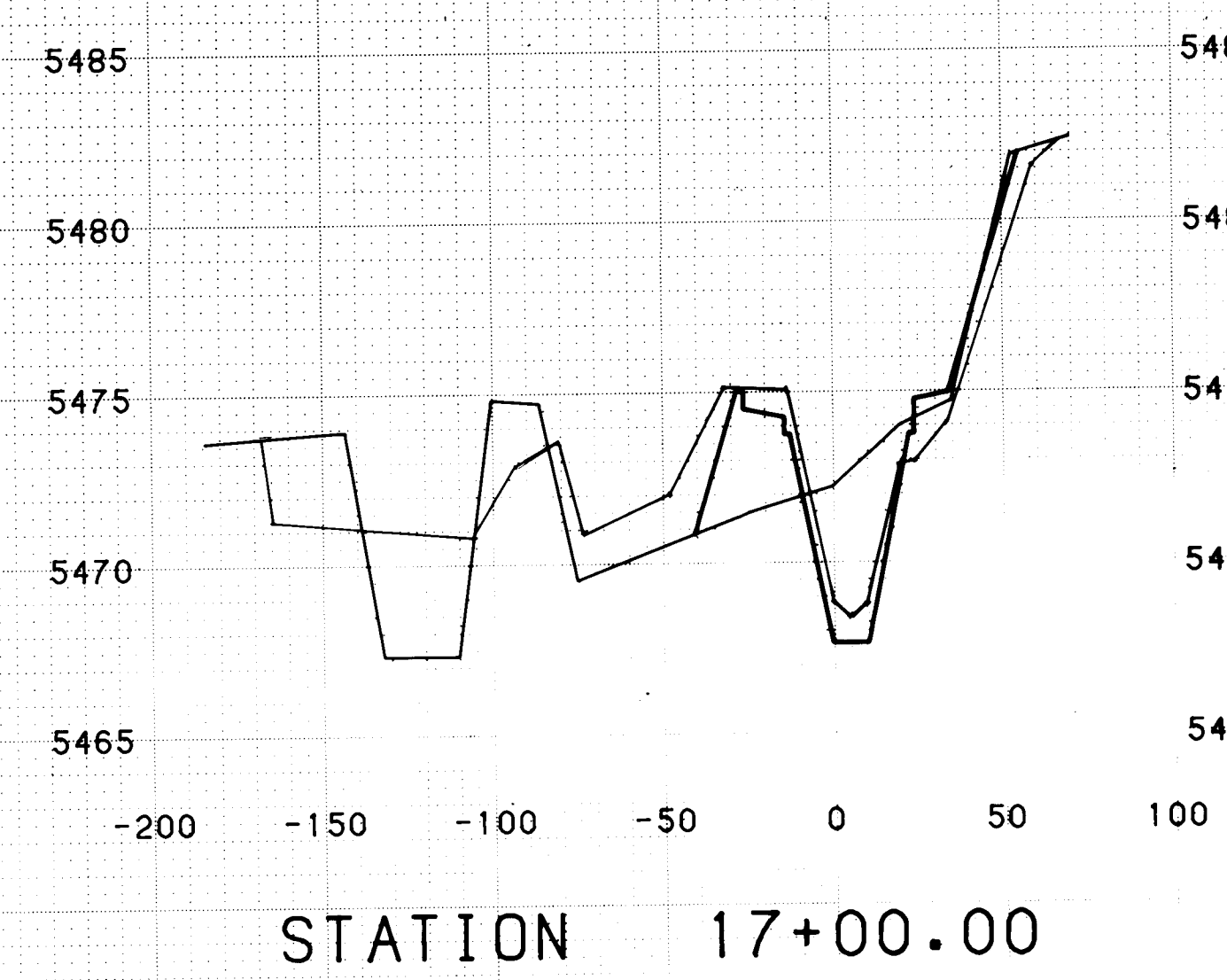
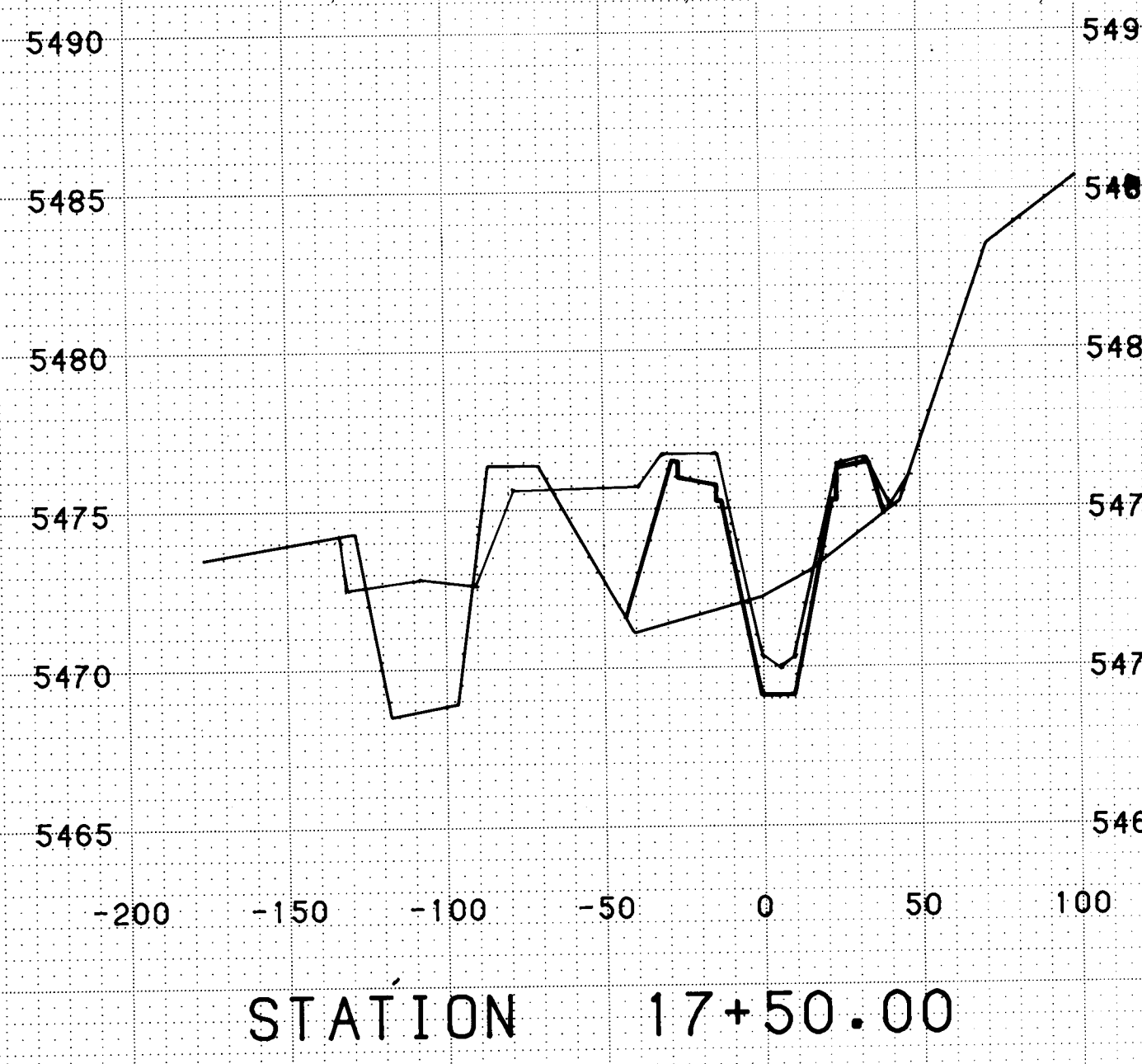
1	2	3	4	5	6	7	8	9	10	11	12
2	6		1	9	3	0	1	0	8	5	

RECORD DRAWINGS
DATE 7/9/85 wjt

PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION				
		TITLE MAINTENANCE VEHICLE RAMP DETAILS BEAR ARROYO TRIBUTARY WYOMING BLVD. TO 250' WEST OF ESTELLITH DEL NORTE				
<i>Frank R. Stein</i>	APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
	City Engineer	<i>C. D. [Signature]</i>		Liquid Waste		
	A.C.E.-Design			Traffic	<i>NA</i>	<i>4/5/84</i>
PROJECT NUMBER 1930	A.C.E.-Hydrology	<i>Jim Zerk</i>	<i>4/5/84</i>	Water R.D.	<i>W.P. [Signature]</i>	<i>4/5/84</i>
	<i>QA</i>	<i>AK Chan</i>	<i>4/5/84</i>			
DRAWING NO.				SHEET 10 OF 24		

DATE	
BY	
FINAL SURVEY	
NO. BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NO. BOOK	
NO.	



2 6 1 9 3 0 2 0 2 5

RECORD DRAWINGS
DATE 7/7/25

STA. 17+00.00 to STA. 22+00.00
BEAR ARROYO TRIBUTARY
PROJECT NO. 1930

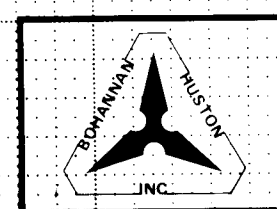
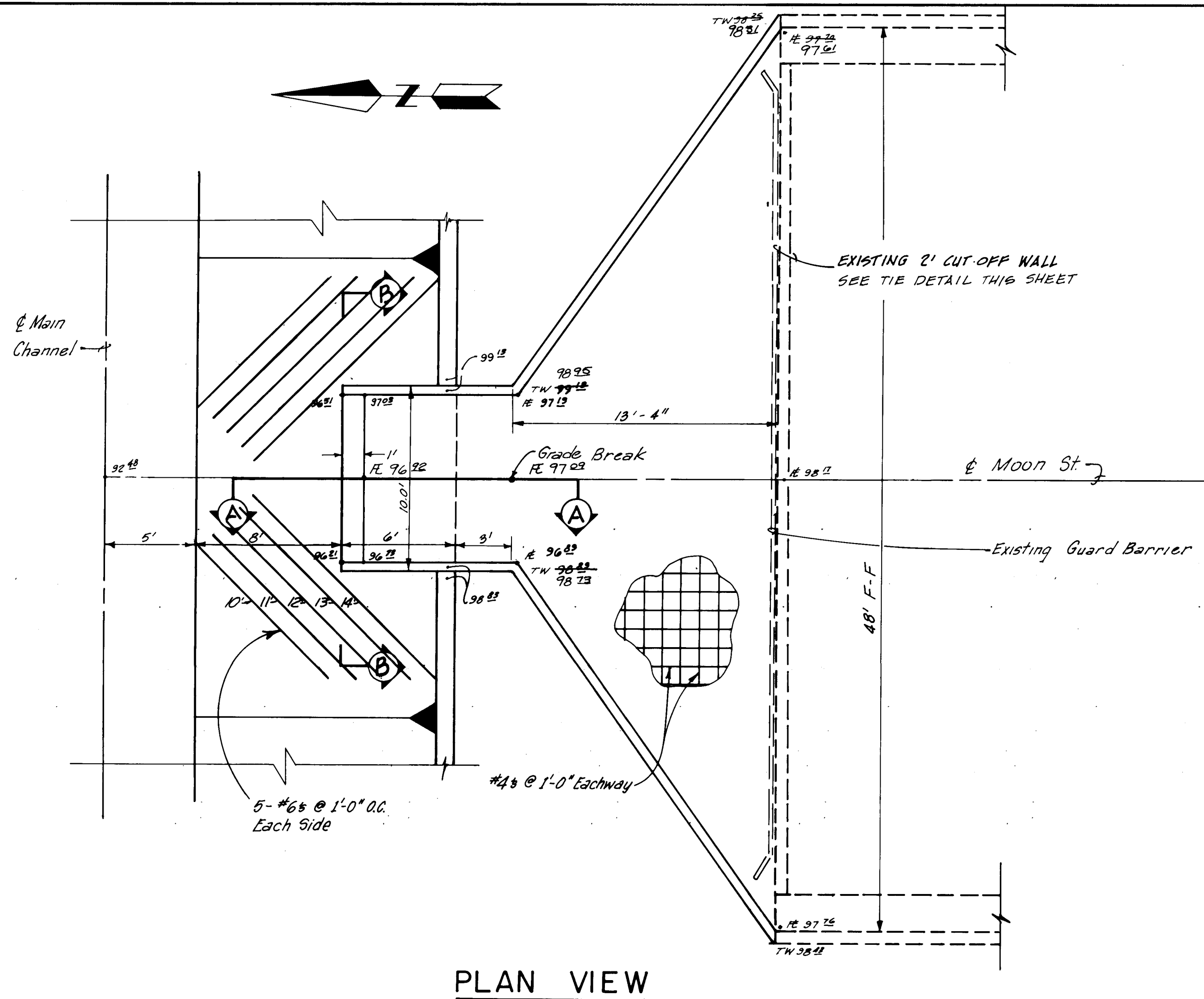
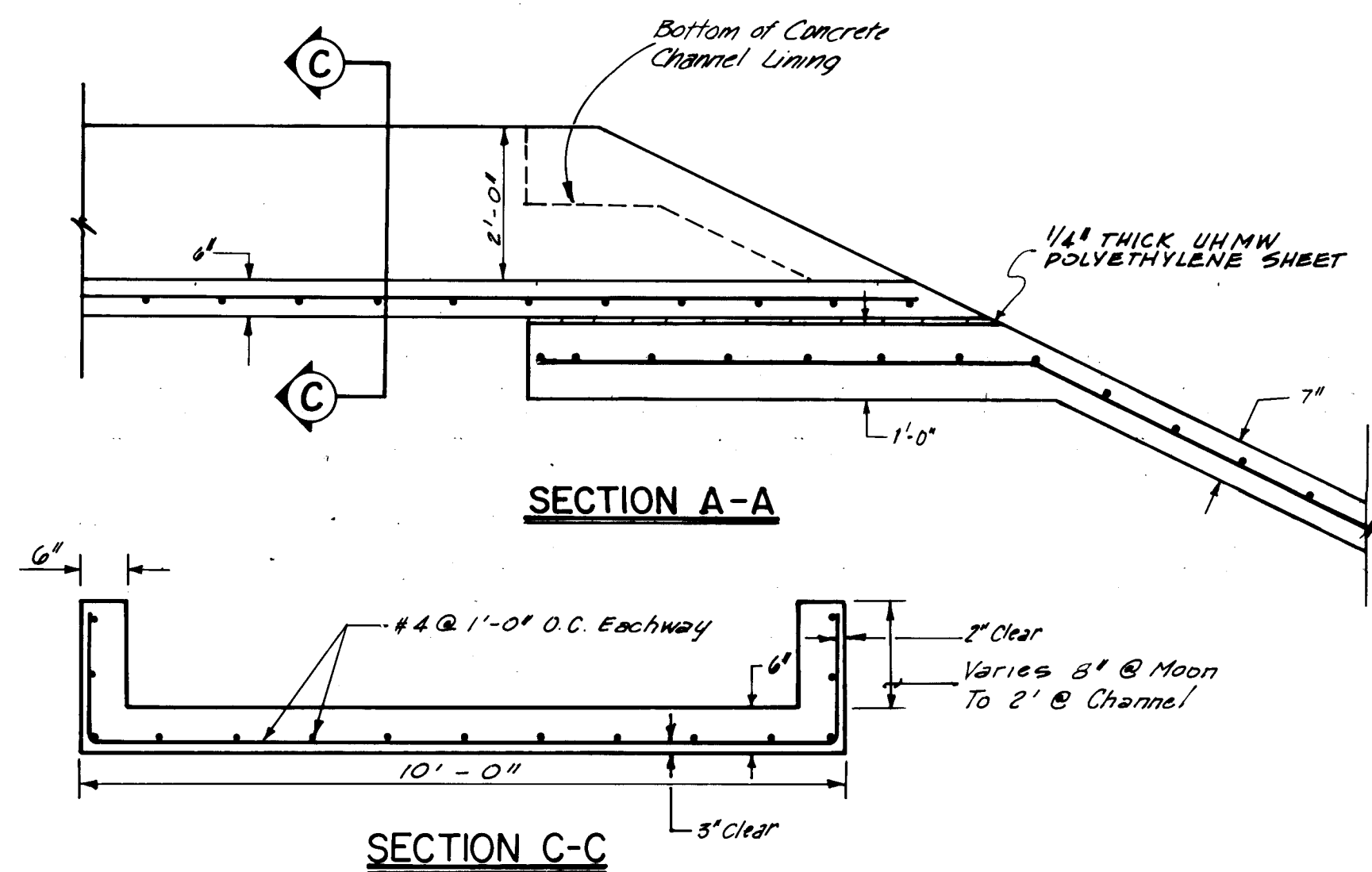


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.



PLAN VIEW

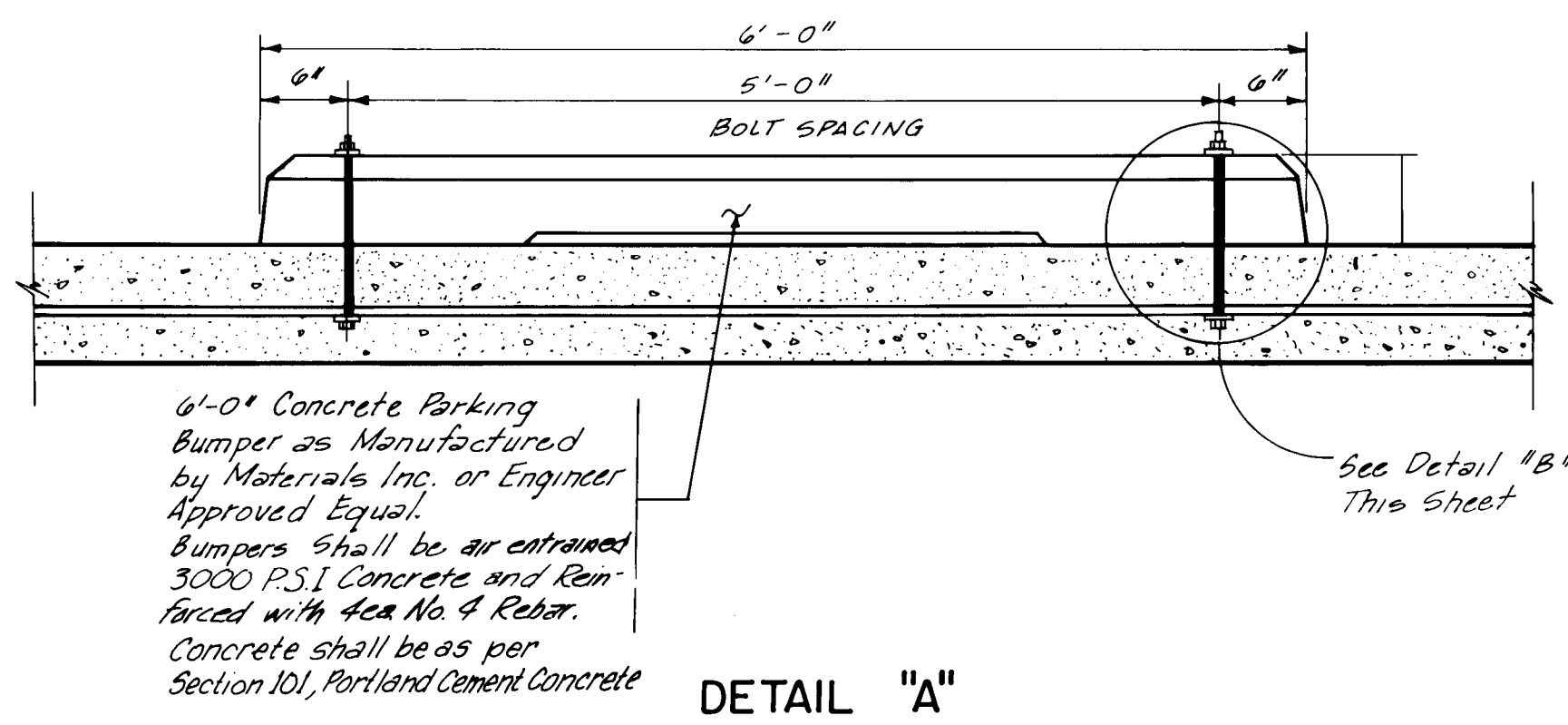
Note: All exposed edges shall have 3/4" chamfer



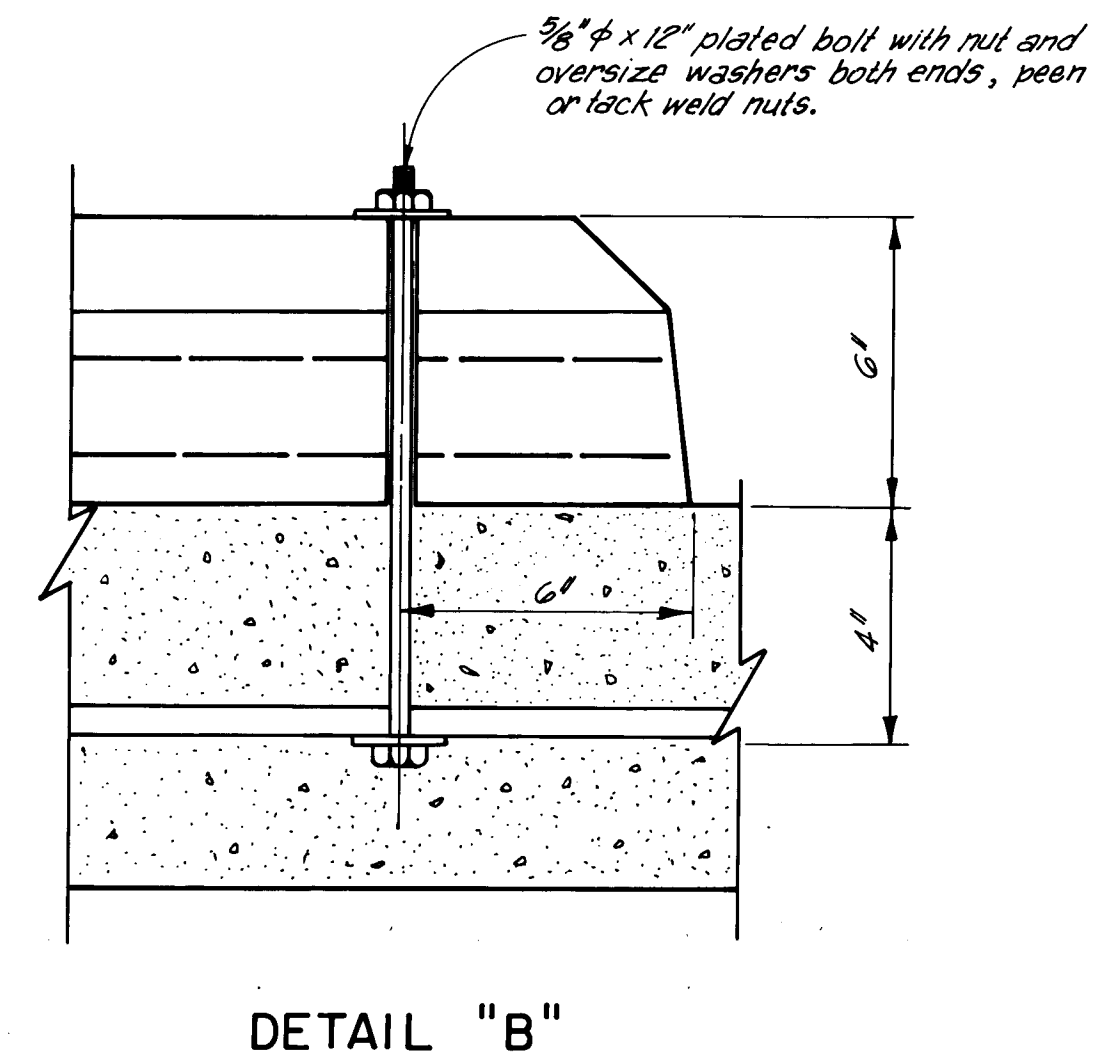
SECTION A-A

SECTION C-C

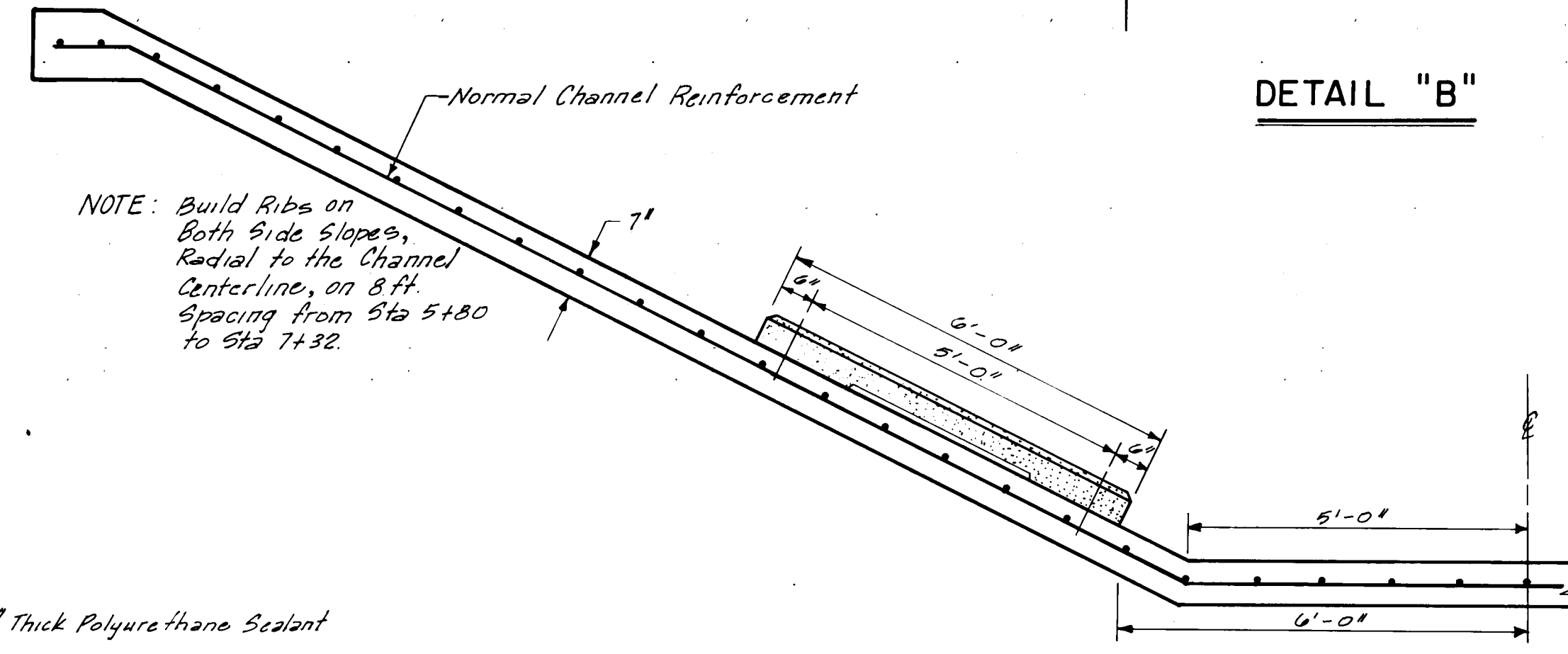
DETAILS FOR RUNDOWN AT SOUTH SIDE OF MOON



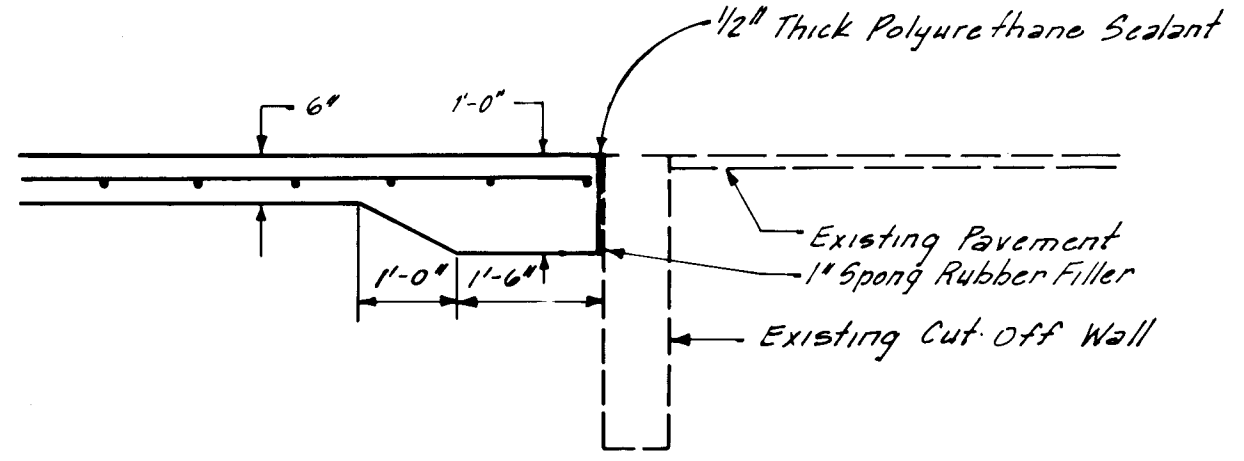
DETAIL "A"



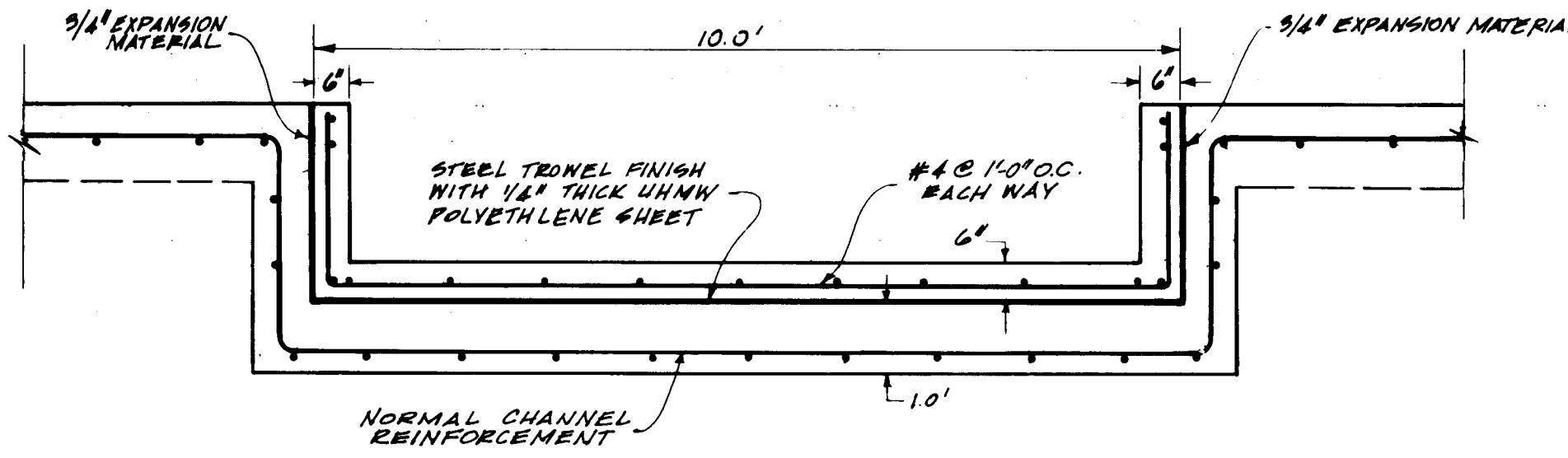
DETAIL "B"



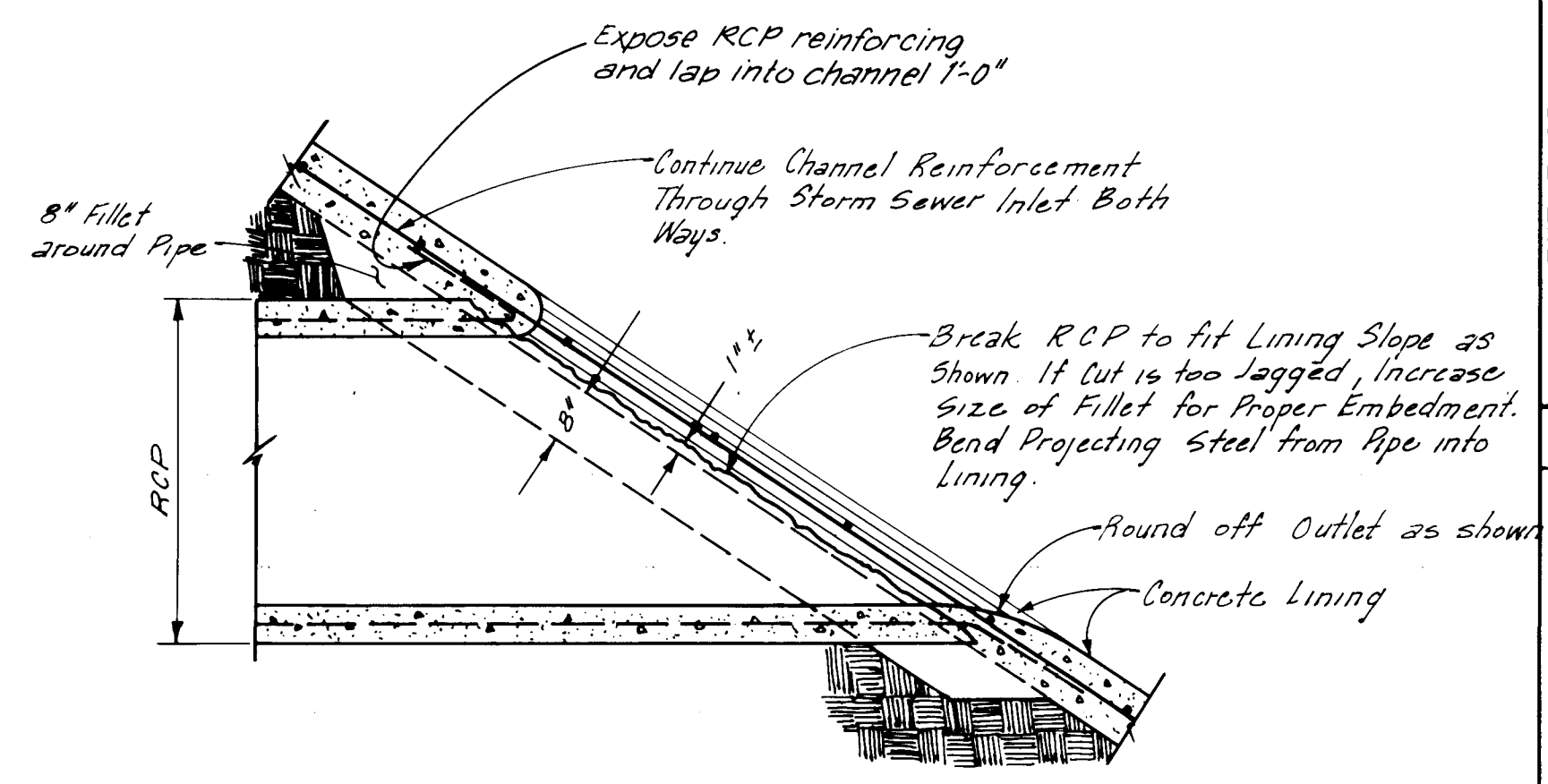
RIB DETAILS



TIE TO EXISTING CUT-OFF WALL



SECTION B-B



STORM SEWER INLET AT CHANNEL LINING

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

RECORD DRAWINGS
DATE 7/9/85

SCALE:
NO SCALE

PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	
TITLE: CHANNEL SIDE ENTRANCE DETAILS BEAR ARROYO TRIBUTARY WYOMING BLVD. TO 250' WEST OF ESTRELLITA DEL NORTE		DESIGNED BY WLV DATE 11-83 DRAWN BY NJR DATE 11-83 CHECKED BY WLV DATE 11-83	
APPROVALS	ENGINEER	DATE	APPROVALS
	WLV	11/83	WLV
PROJECT NUMBER		1930	
DRAWING NO.		SHEET 11 OF 24	



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

RECORD DRAWINGS
DATE 7/9/95 mty



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE	RUNDOWN DETAILS BEAR ARROYO TRIBUTARY
-------	--

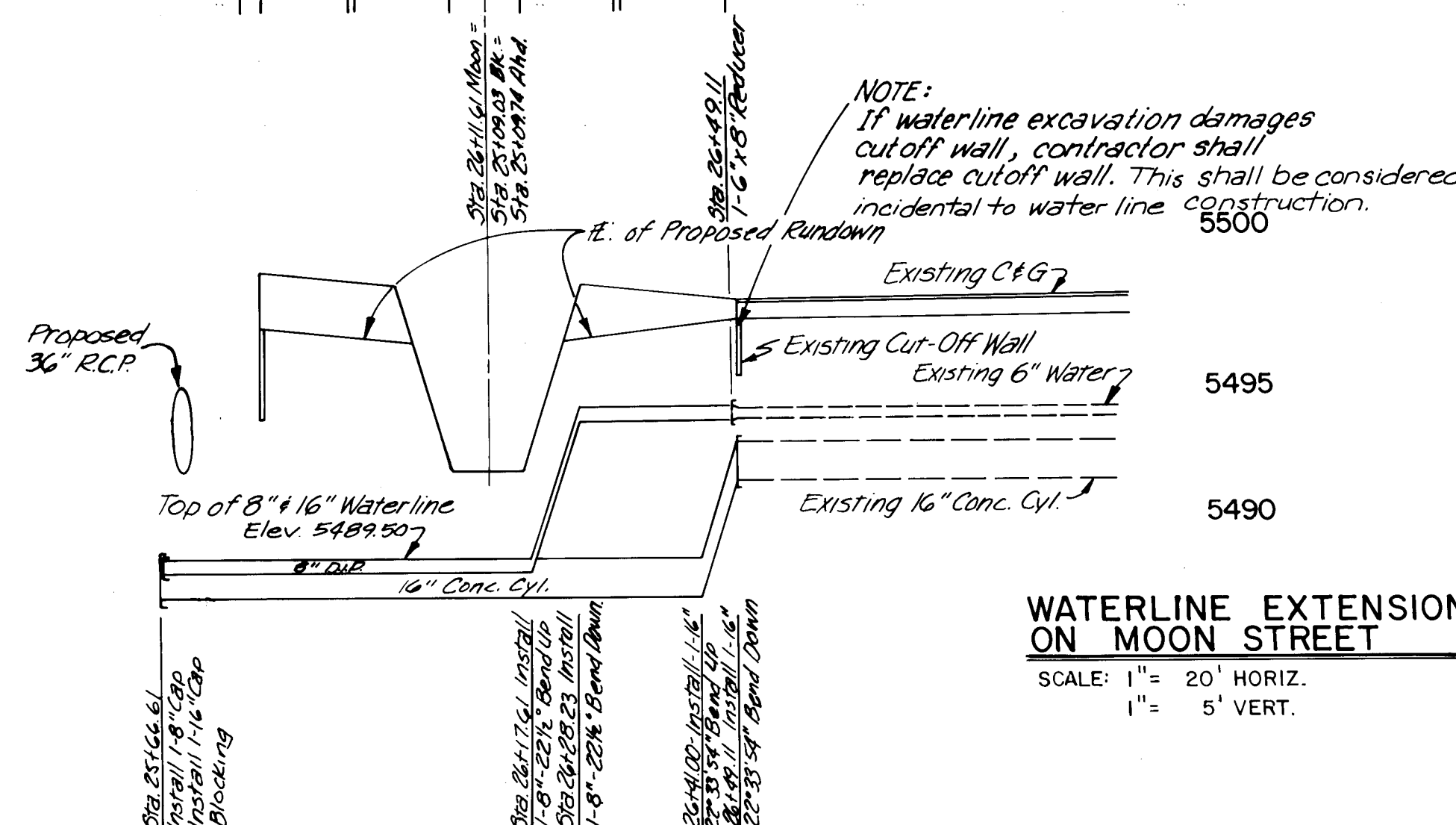
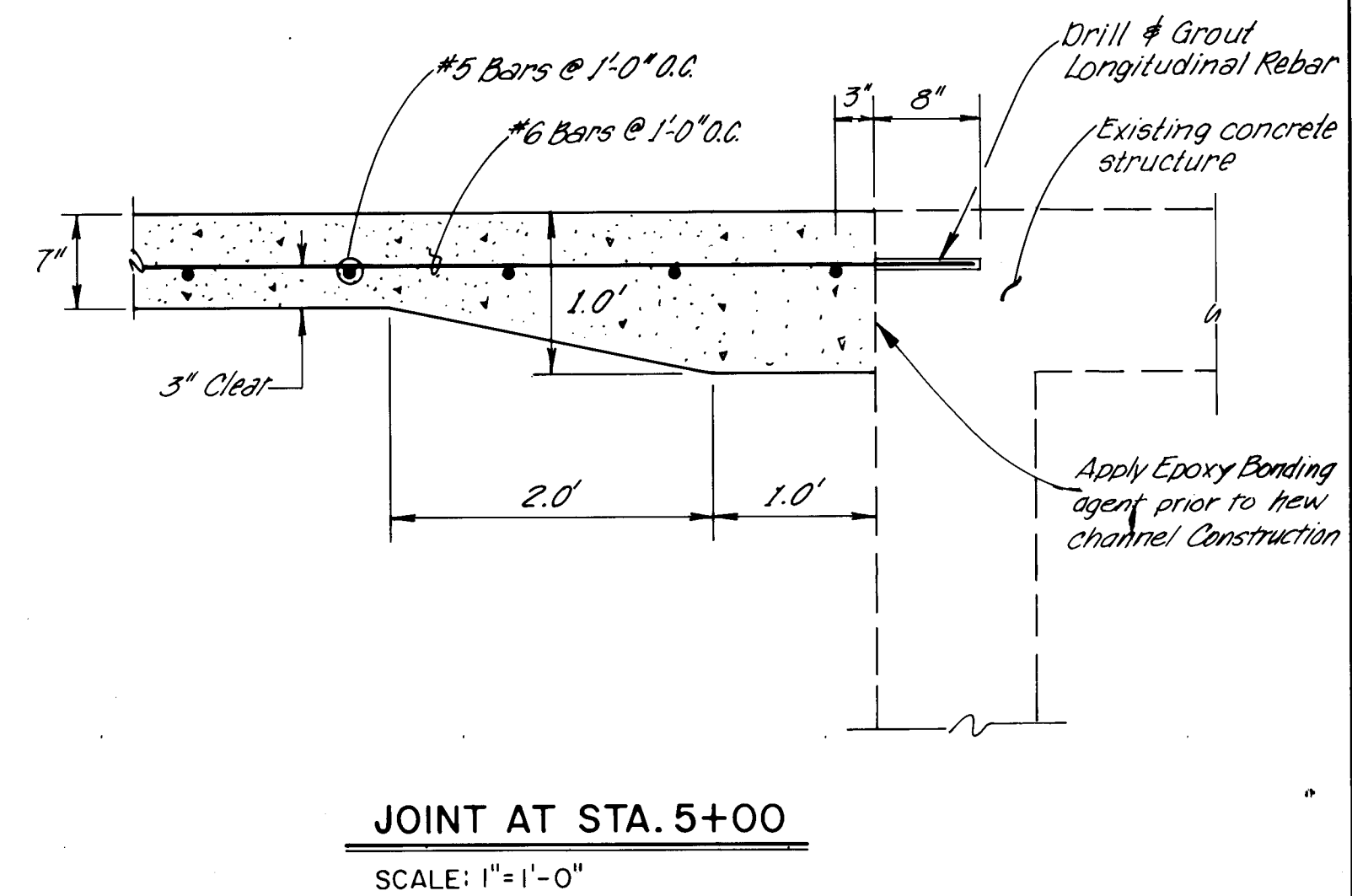
WYOMING BLVD. TO 250' WEST OF ESTRELLITA DEL NORTE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

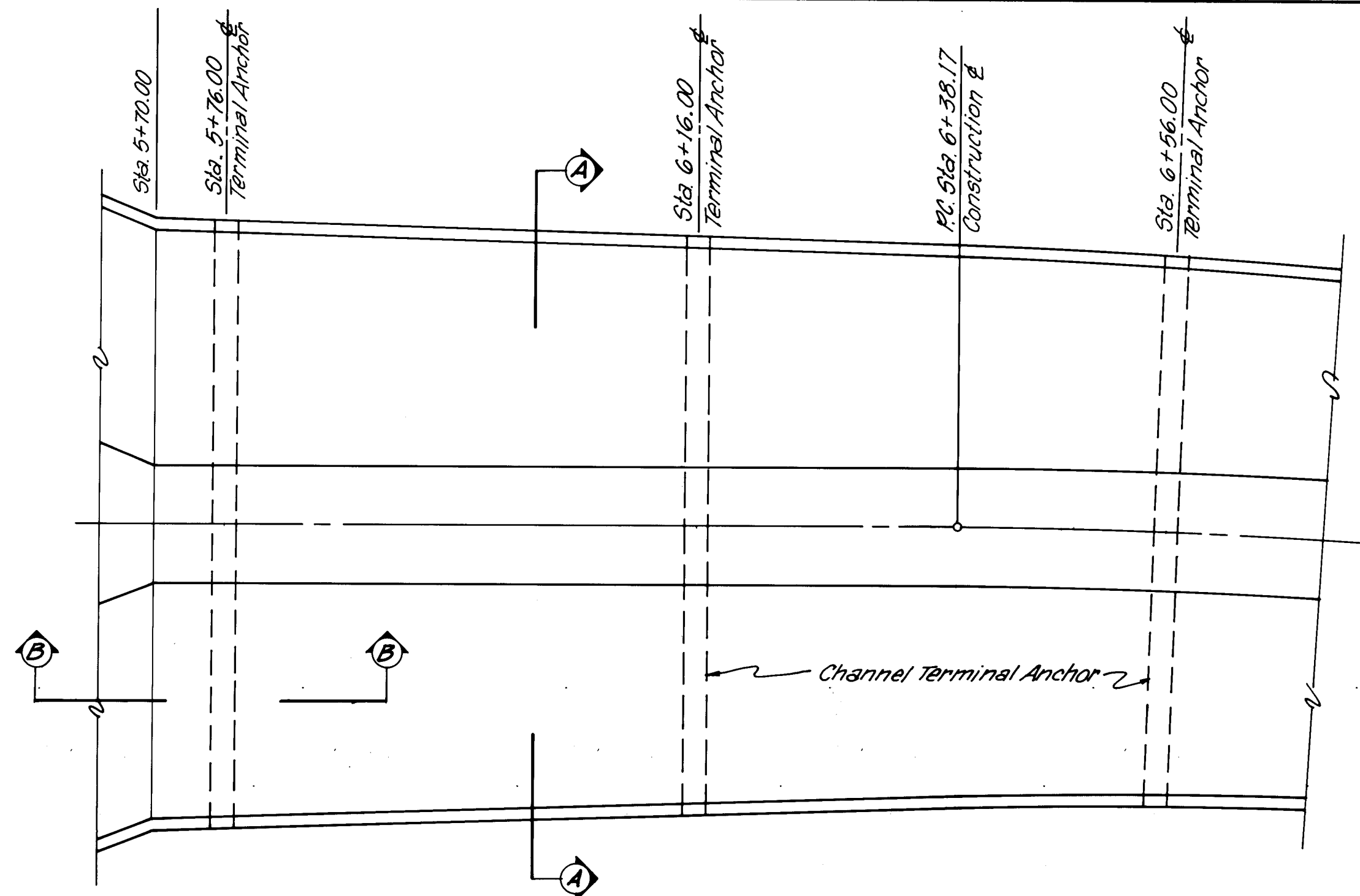
City Engineer	<i>[Signature]</i>	Liquid Waste		
ACE-Design		Traffic	NA	4/5

DN	ACE-Hydrology	Jim Frit	4/5/04	Water R.D.	W/F NA	4.5
	QA	4/5/04				

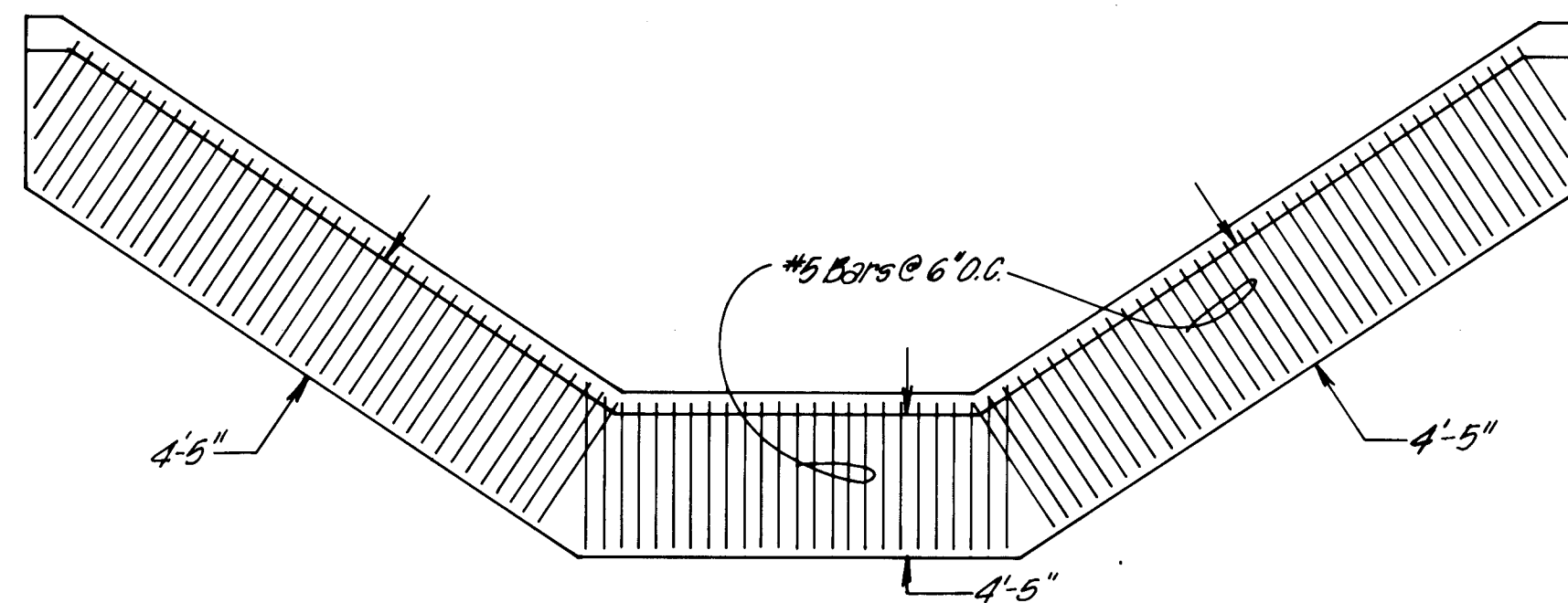
DRAWING NO.	SHEET 12 OF 24
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JOB NO. 31670

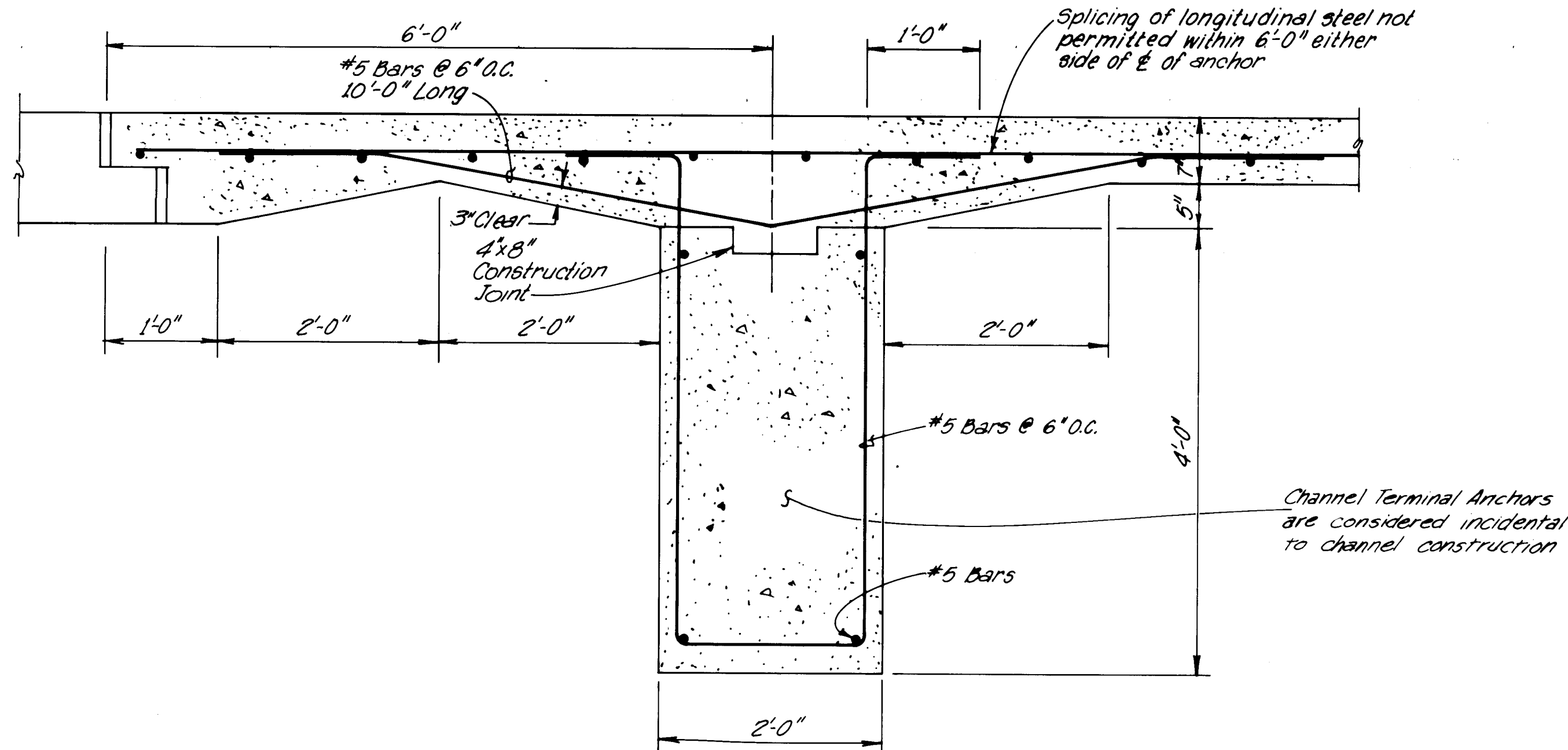
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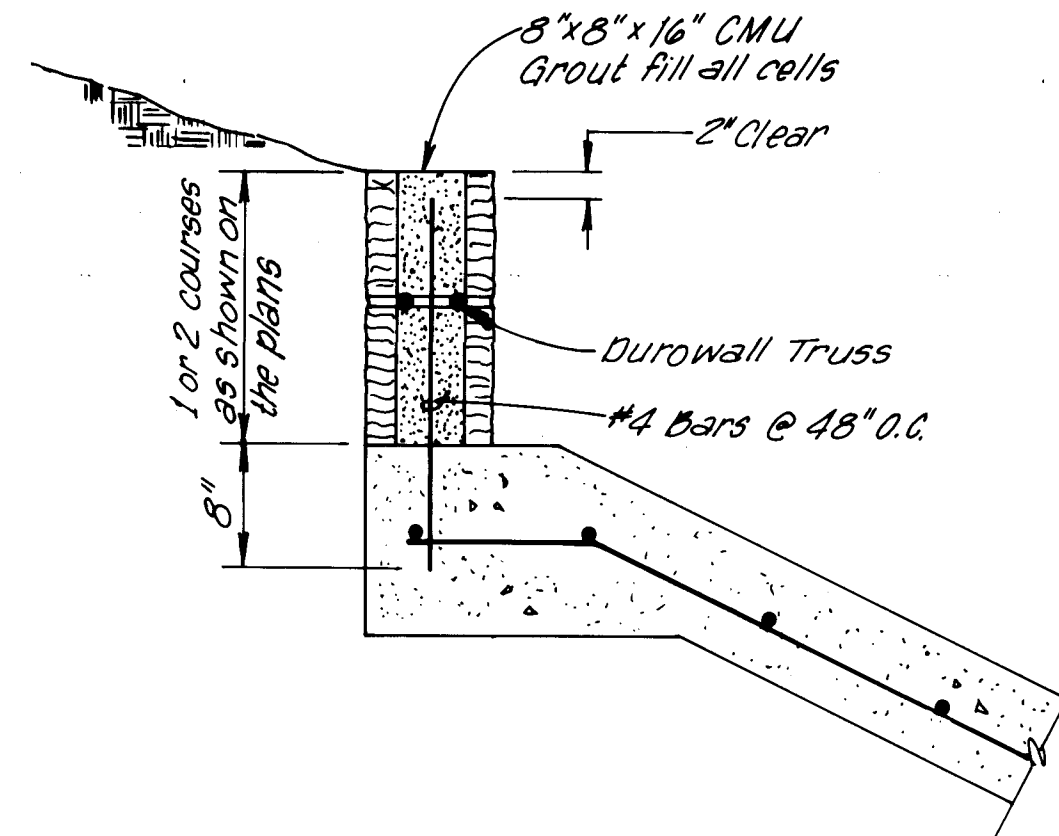
PLAN VIEW
SCALE: 1"=10'



SECTION A-A
CHANNEL TERMINAL ANCHOR
SCALE: 1"=5'



SECTION B-B
SCALE: 1"=1'

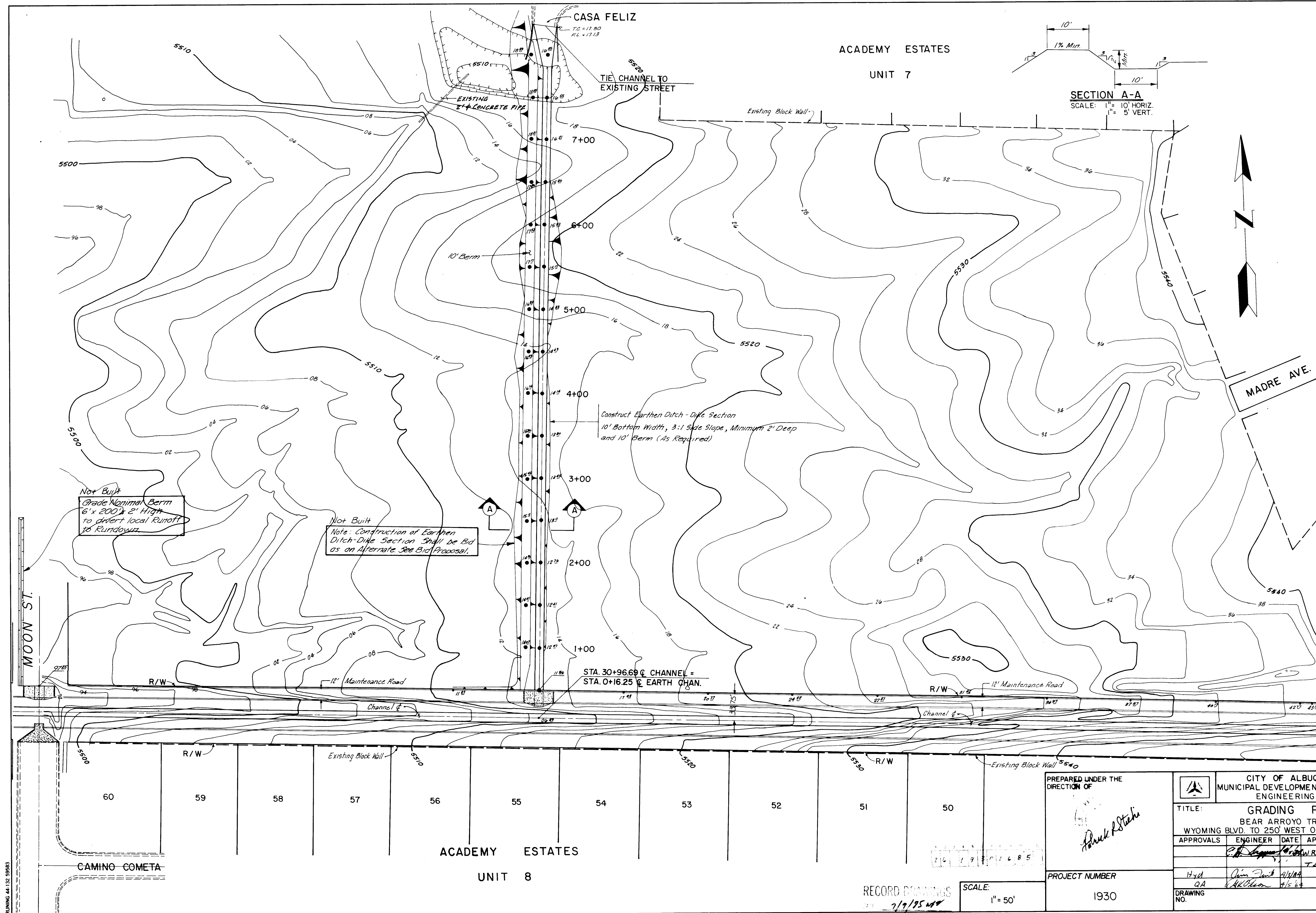


GROUT FILLED MASONRY BLOCK
RETAINING WALL DETAIL
SCALE: 1"=1'

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

RECORD DRAWINGS
DATE 7/9/95

PREPARED UNDER THE DIRECTION OF <i>Patrick K. Steinhilber</i>			CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION		
TITLE: MISCELLANEOUS DETAILS BEAR ARROYO TRIBUTARY WYOMING BLVD. TO 250' WEST OF ESTRELLITA DEL NORTE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
	<i>[Signature]</i>	7/9/95		<i>[Signature]</i>	7/9/95
PROJECT NUMBER 1930			DRAWING NO. 14		
SCALE: AS SHOWN			SHEET 14 OF 24		



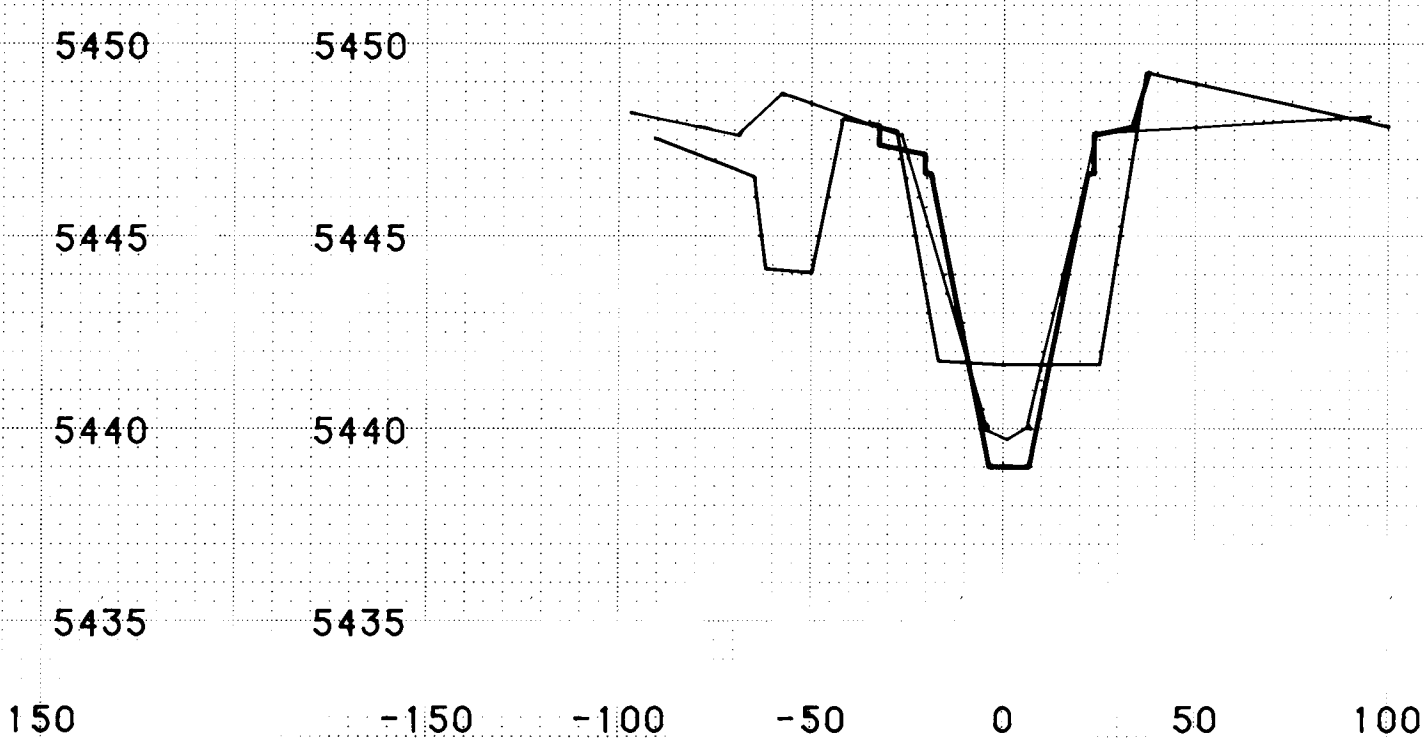
AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				REFERENCES				REVISIONS			
CONTRACTOR	DATE	INSPECTOR	DATE	T.B.M. NO. 1 - FND.	Top of S.E. Headwall	T.B.M. NO. 2 - FND.	At Top of Curb N.E.	NO.	BY	DATE	EST. NO.	MAP NO. F-20-Z	NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE
STAKED BY	DATE	ACCEPTANCE BY	DATE	C.B.C. on Wyoming - Elevation 5445.72 (Painted Blue)		Return Moon St. & Camino Cometa. South of Arroyo												NJR	11-83
VERIFIED BY	DATE	VERIFICATION BY	DATE	T.B.M. NO. 3 - FND.	Headwall at Discharge	Station. East Side of Estrellita Del Norte. North												HCS	11-83
MICRO-FILM INFORMATION																			
RECORDED BY	DATE																		
NO.	NO.																		

DATE	
BY	
SURVEYED	
PLOTTED	
NOTED	
AREAS CHECKED	
FINAL SURVEY	
NO.	

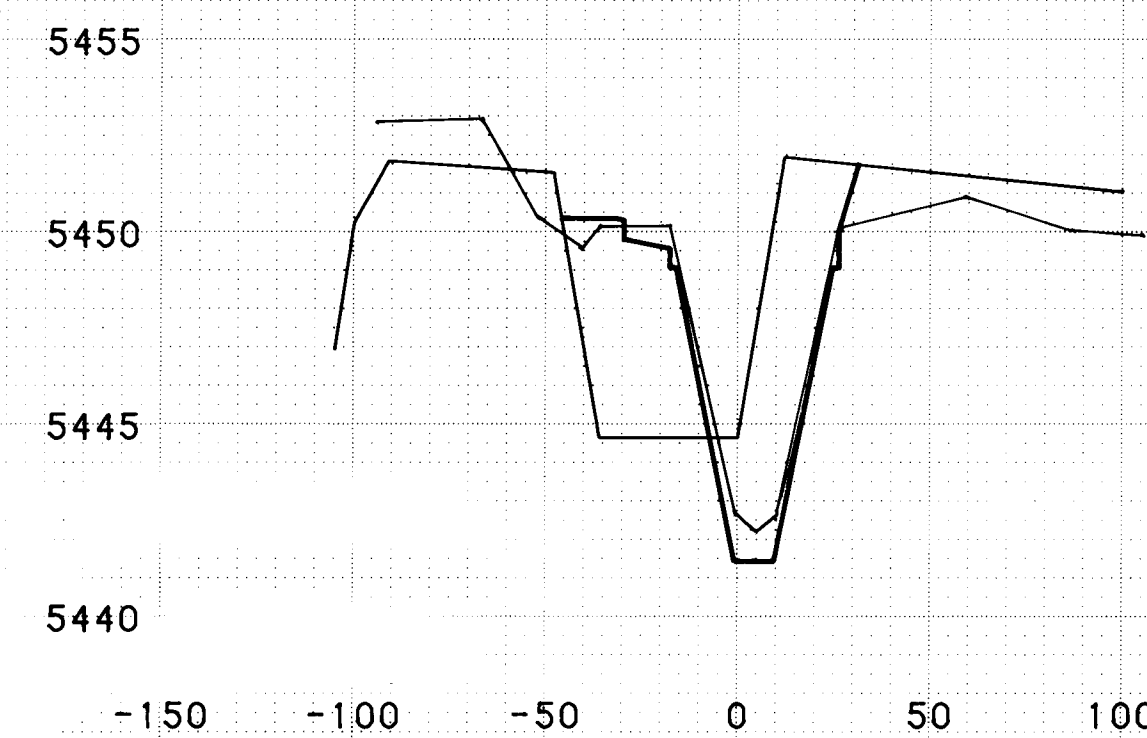
DATE	
BY	
SURVEYED	
PLOTTED	
NOTED	
AREAS CHECKED	
ORIGINAL SURVEY	
NO.	



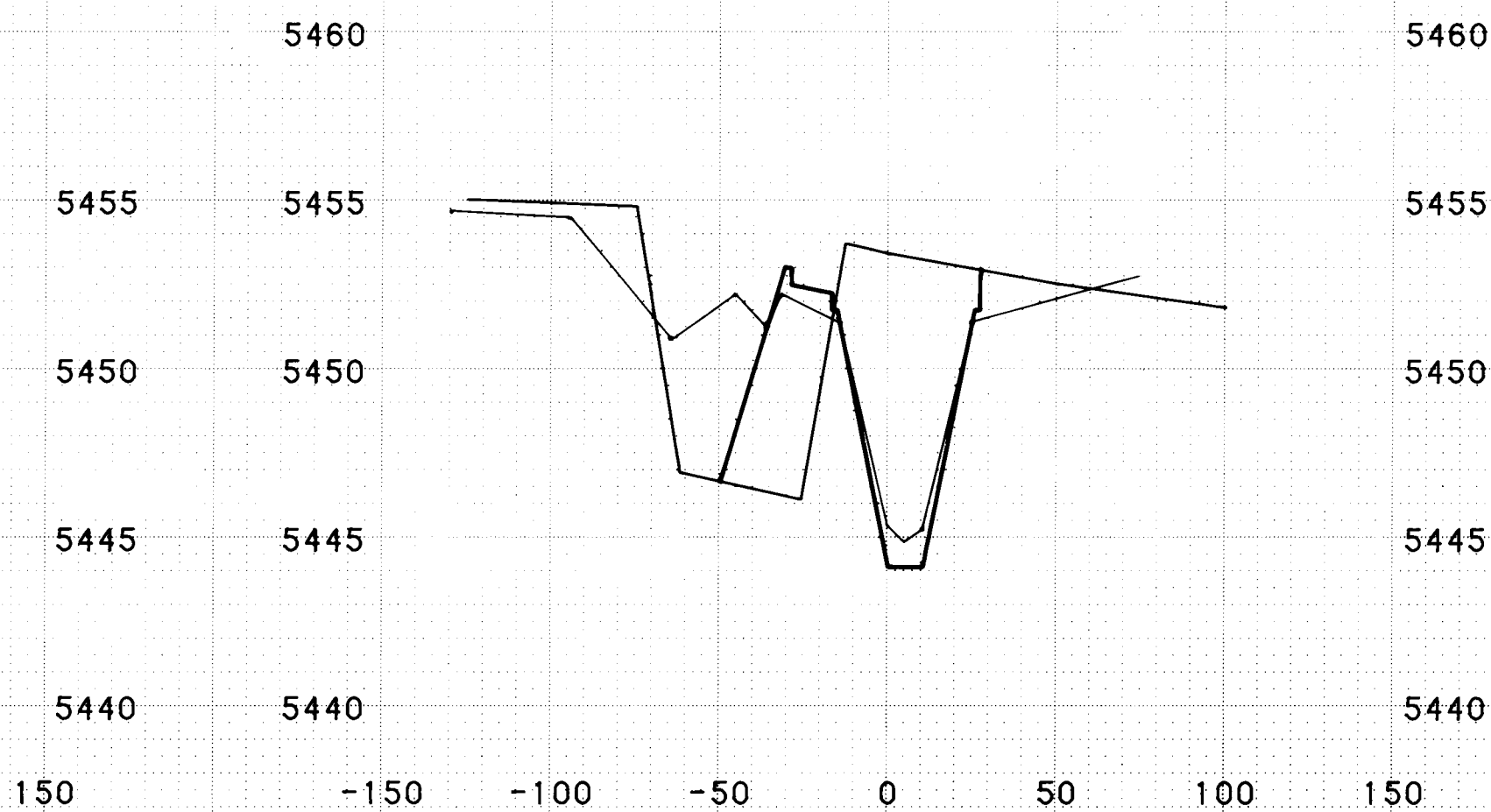
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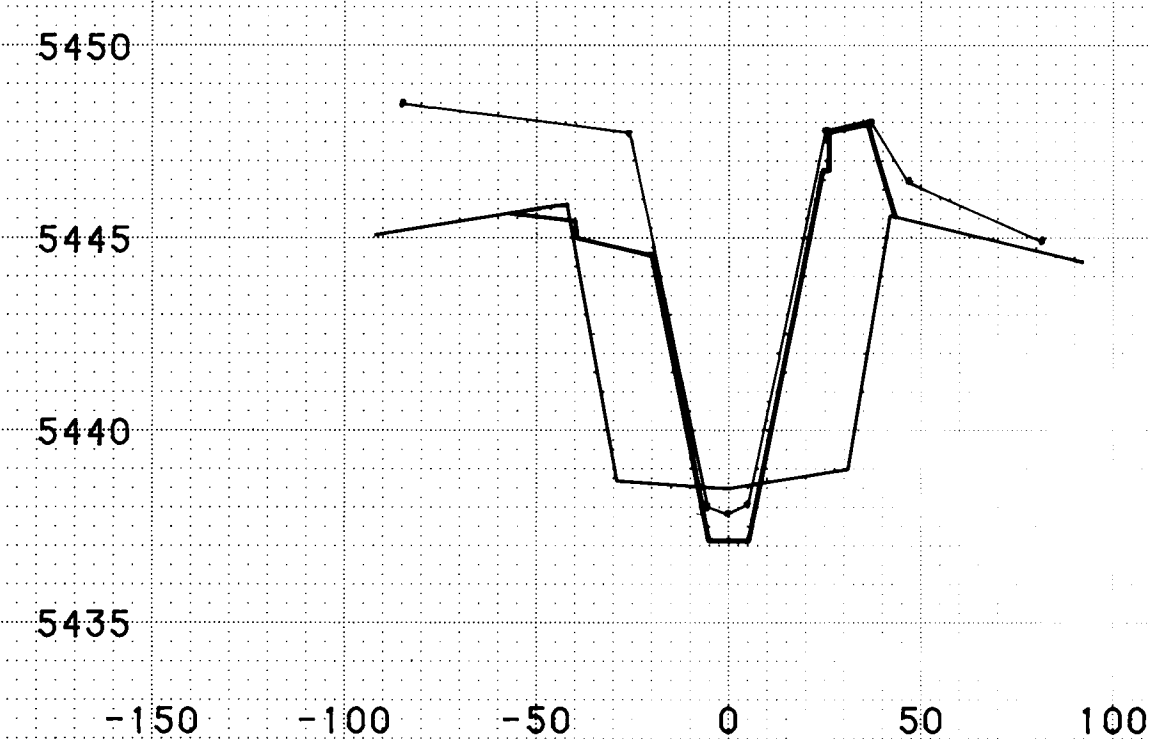
STATION 7+00.00



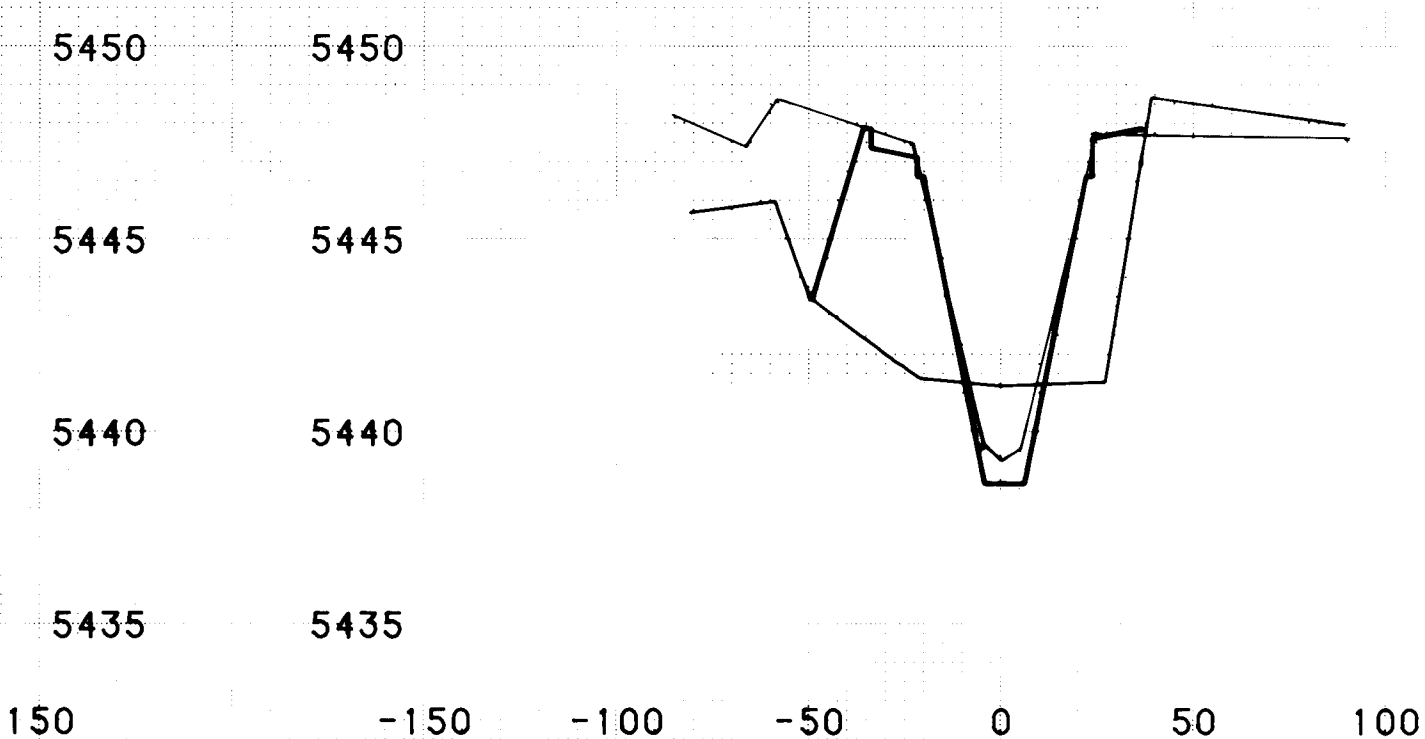
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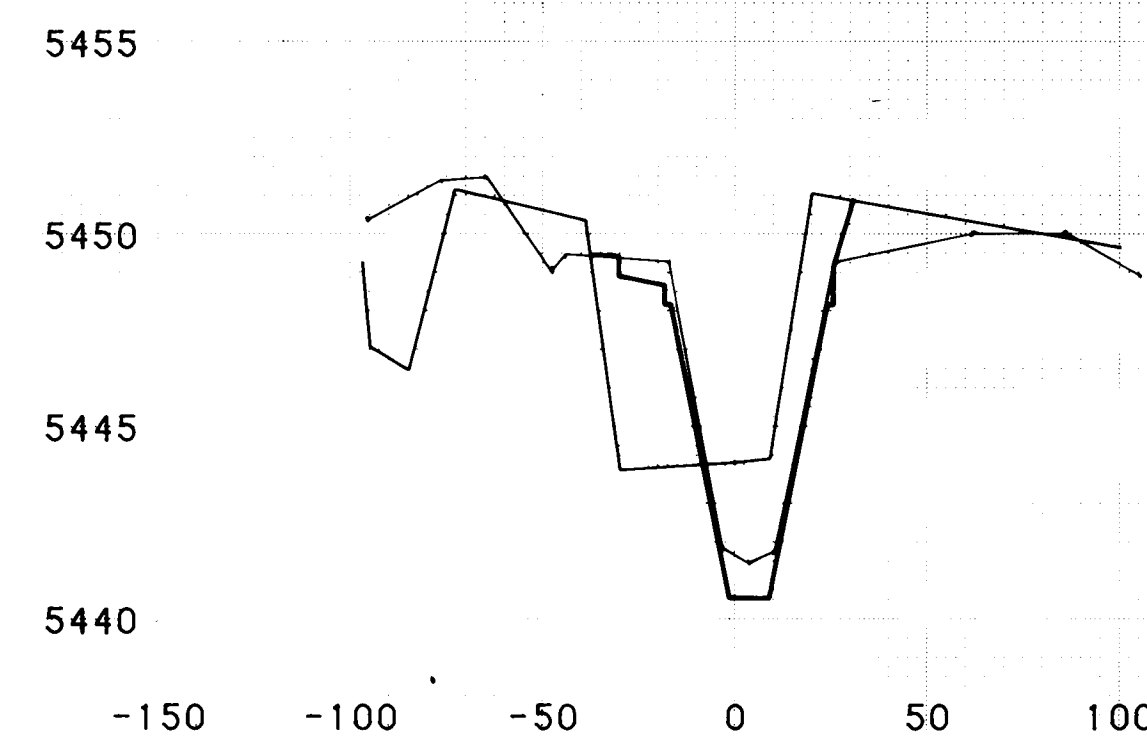
STATION 9+19.98



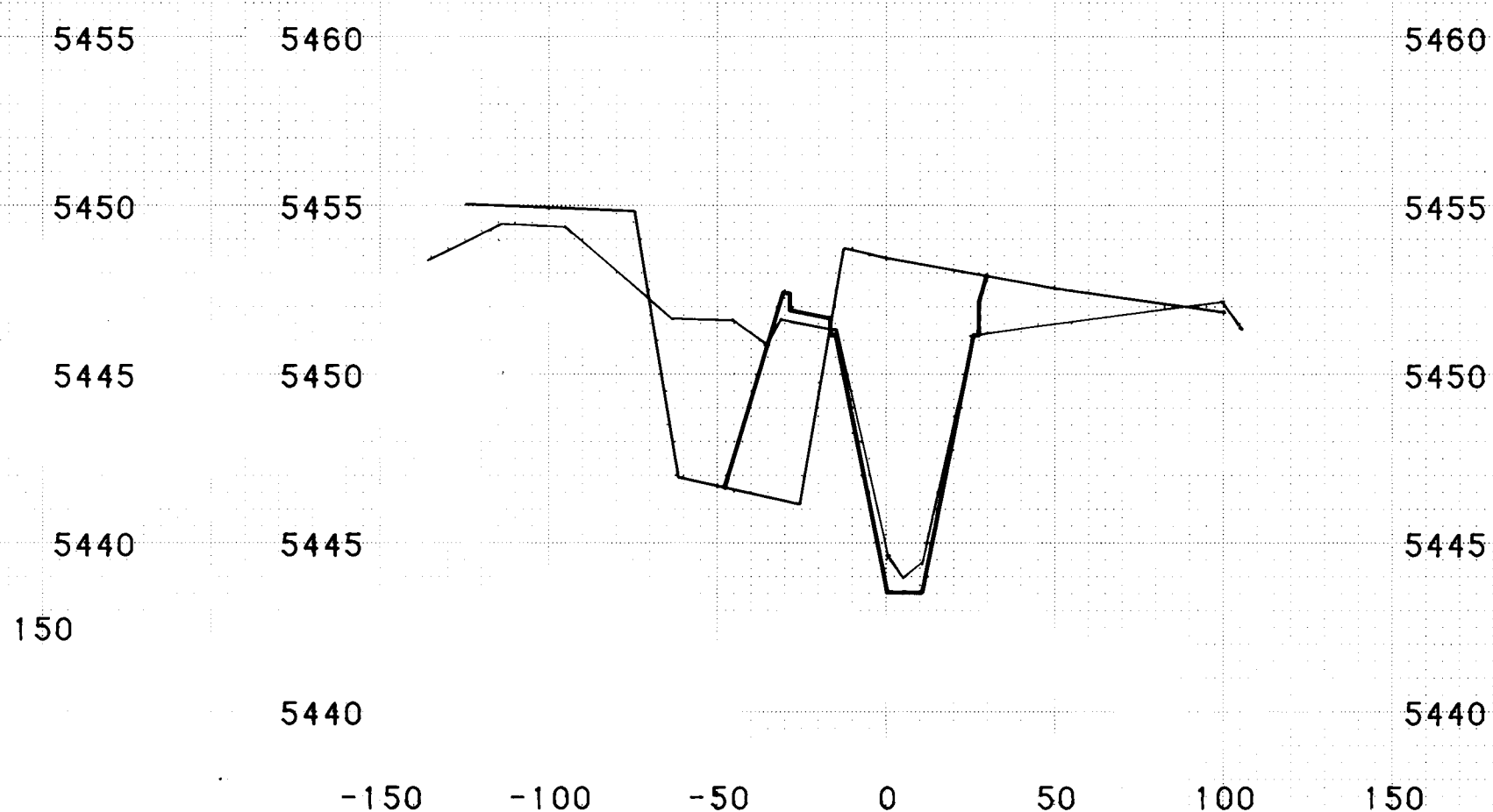
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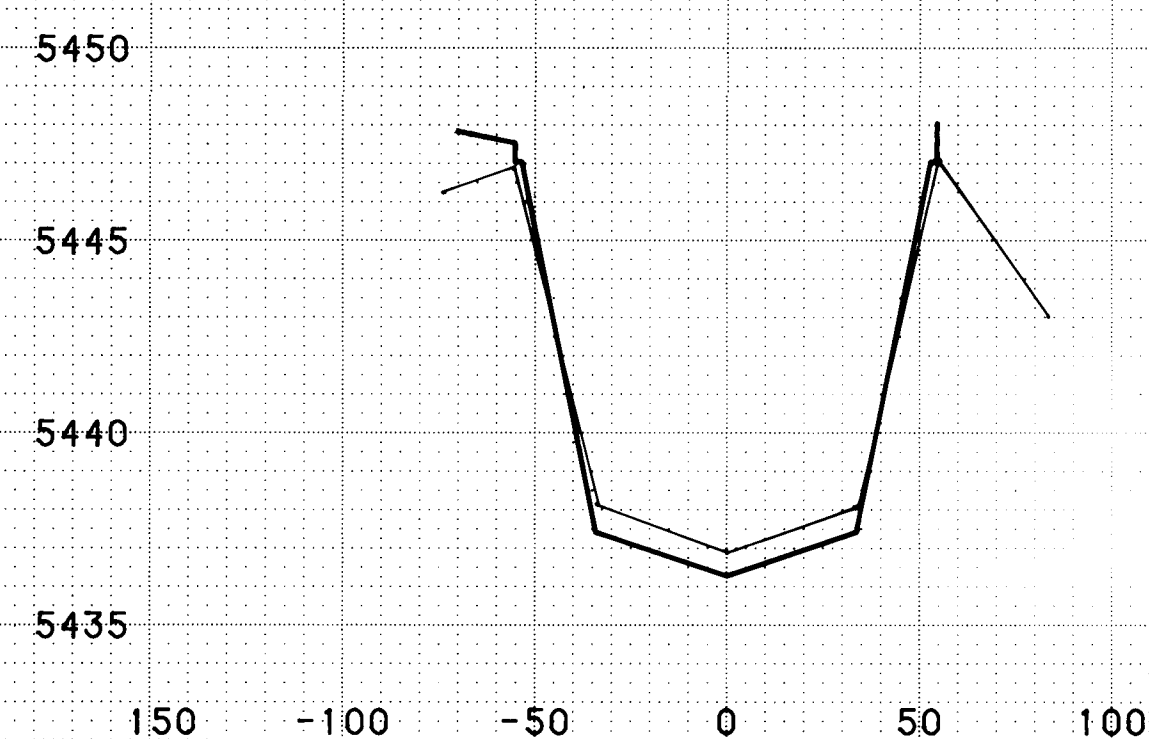
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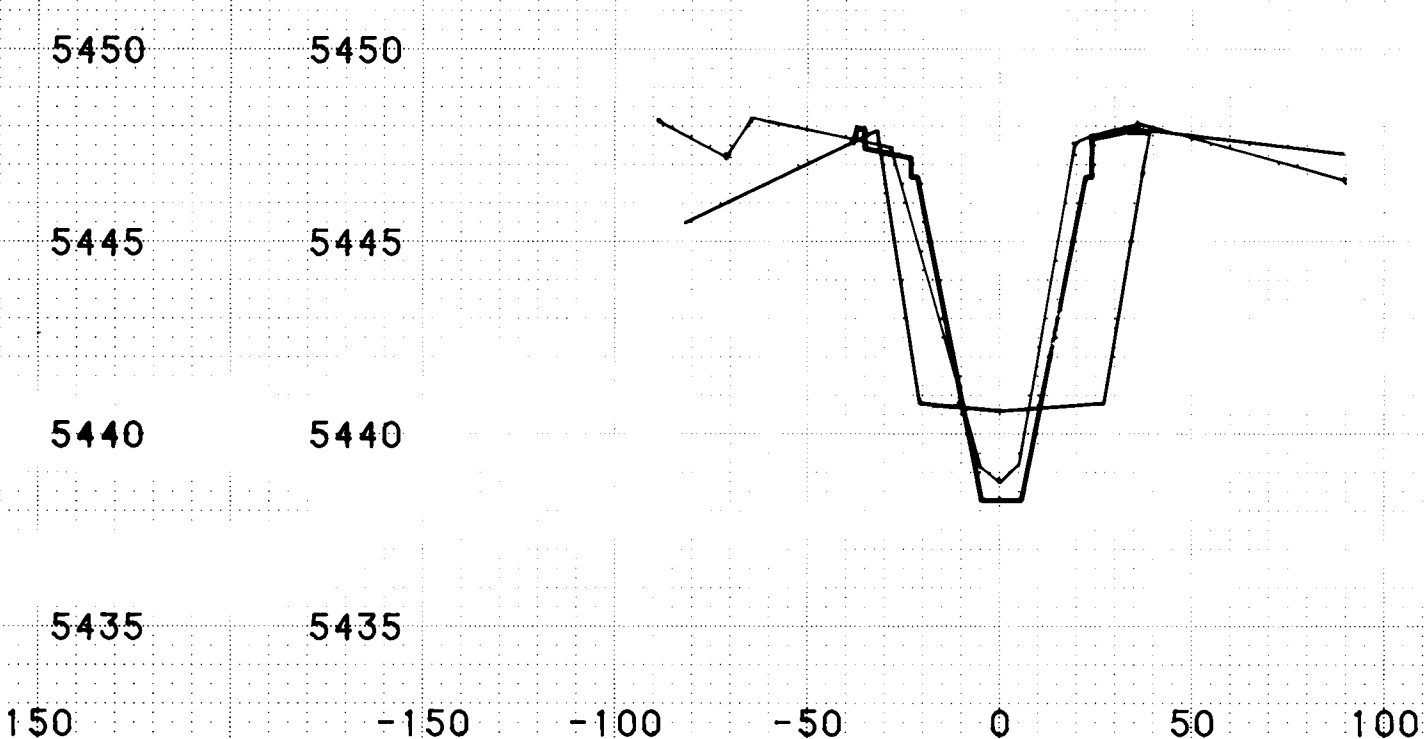
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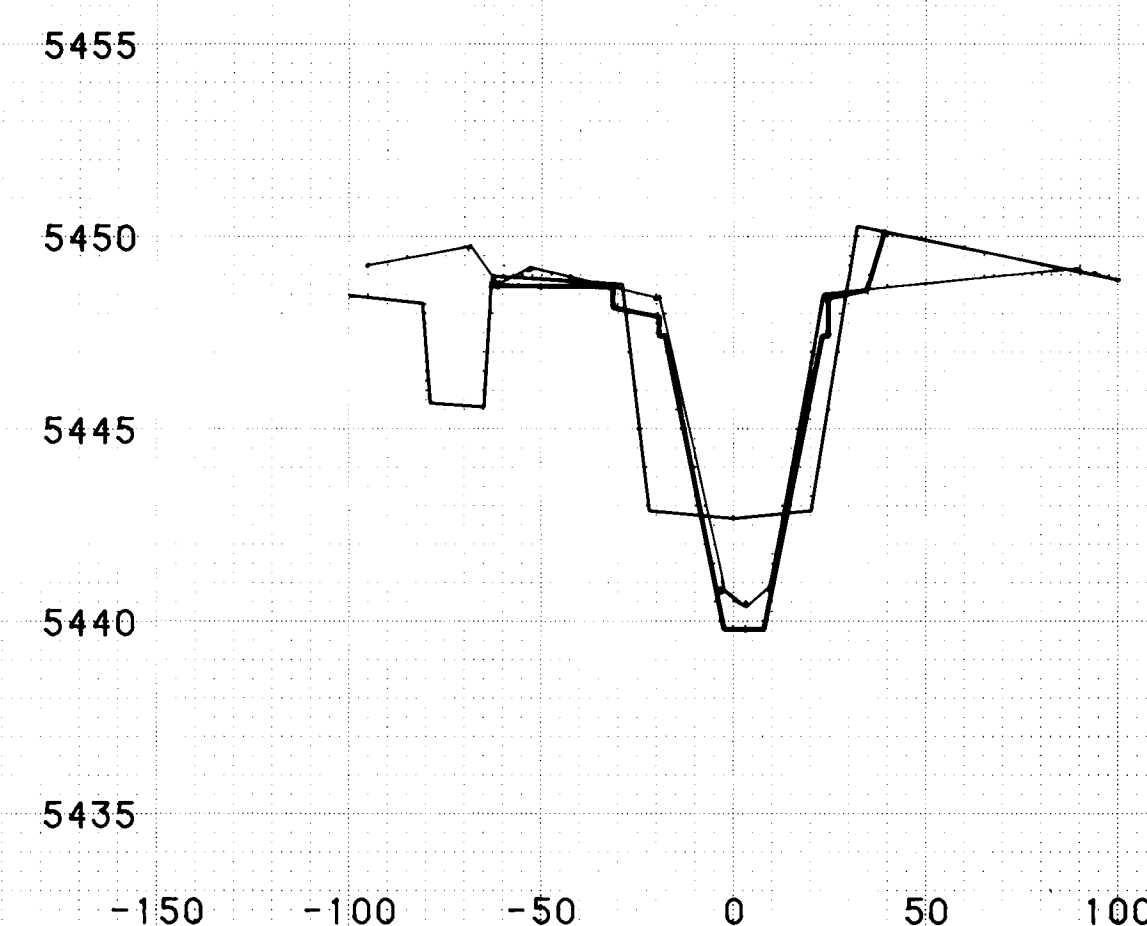
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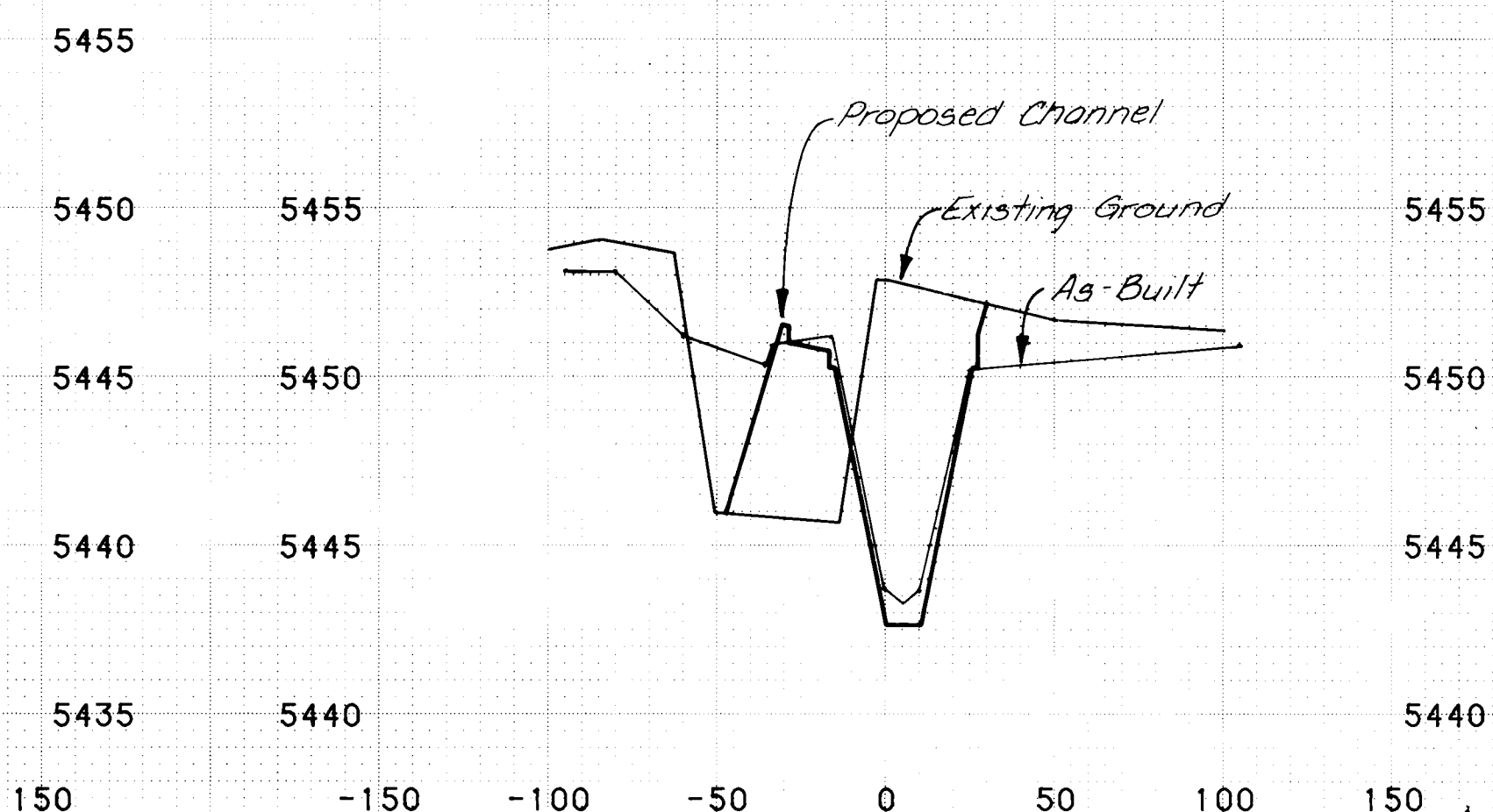
STATION 5+00.00



STATION 6+50.00



STATION 7+50.00



STATION 8+69.98

216 19301785

RECORD DRAWING
DATE 7/7/25

STA. 5+00.00 to STA. 9+19.98
BEAR ARROYO TRIBUTARY
PROJECT NO. 1930

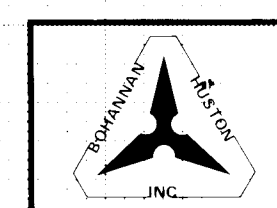
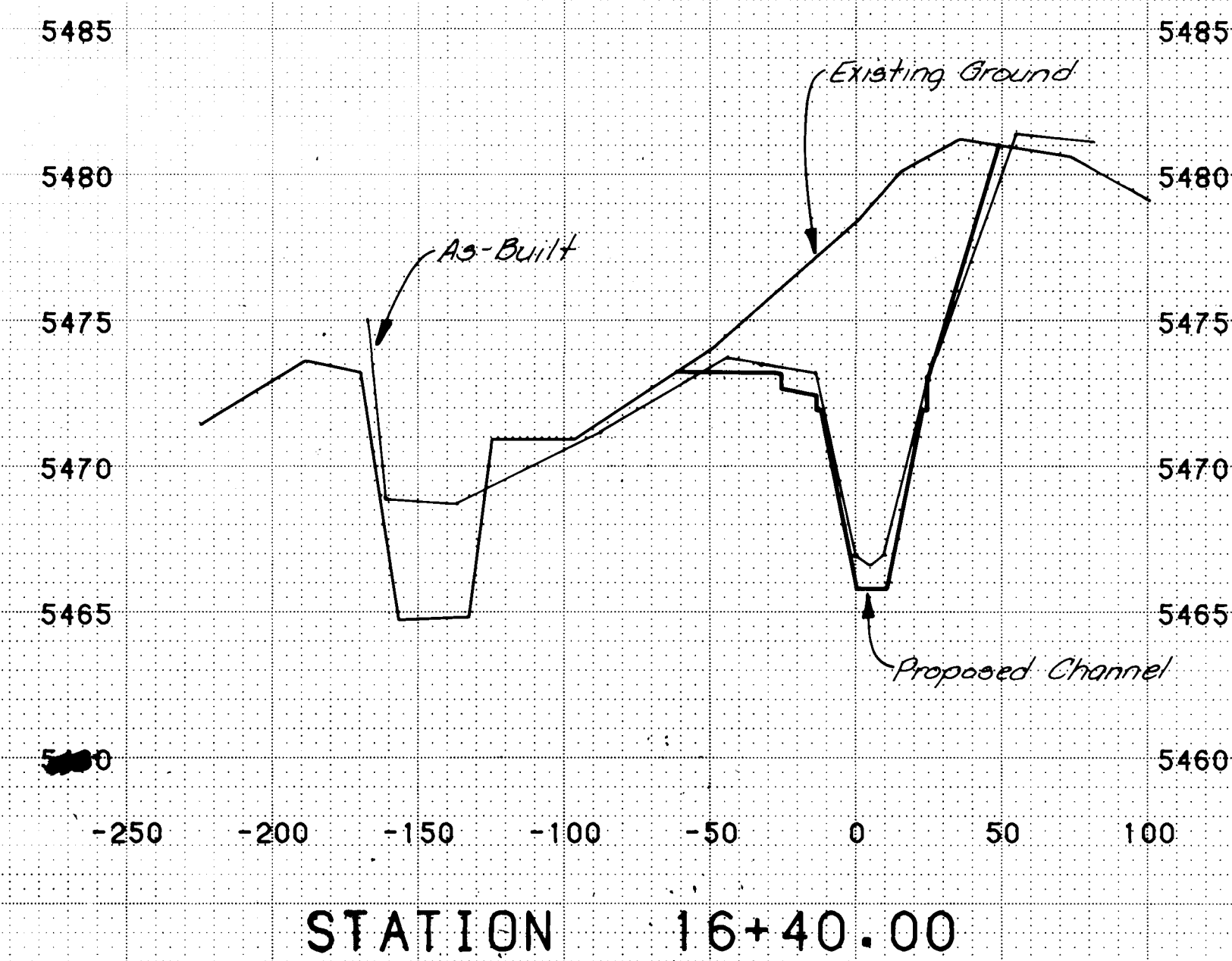
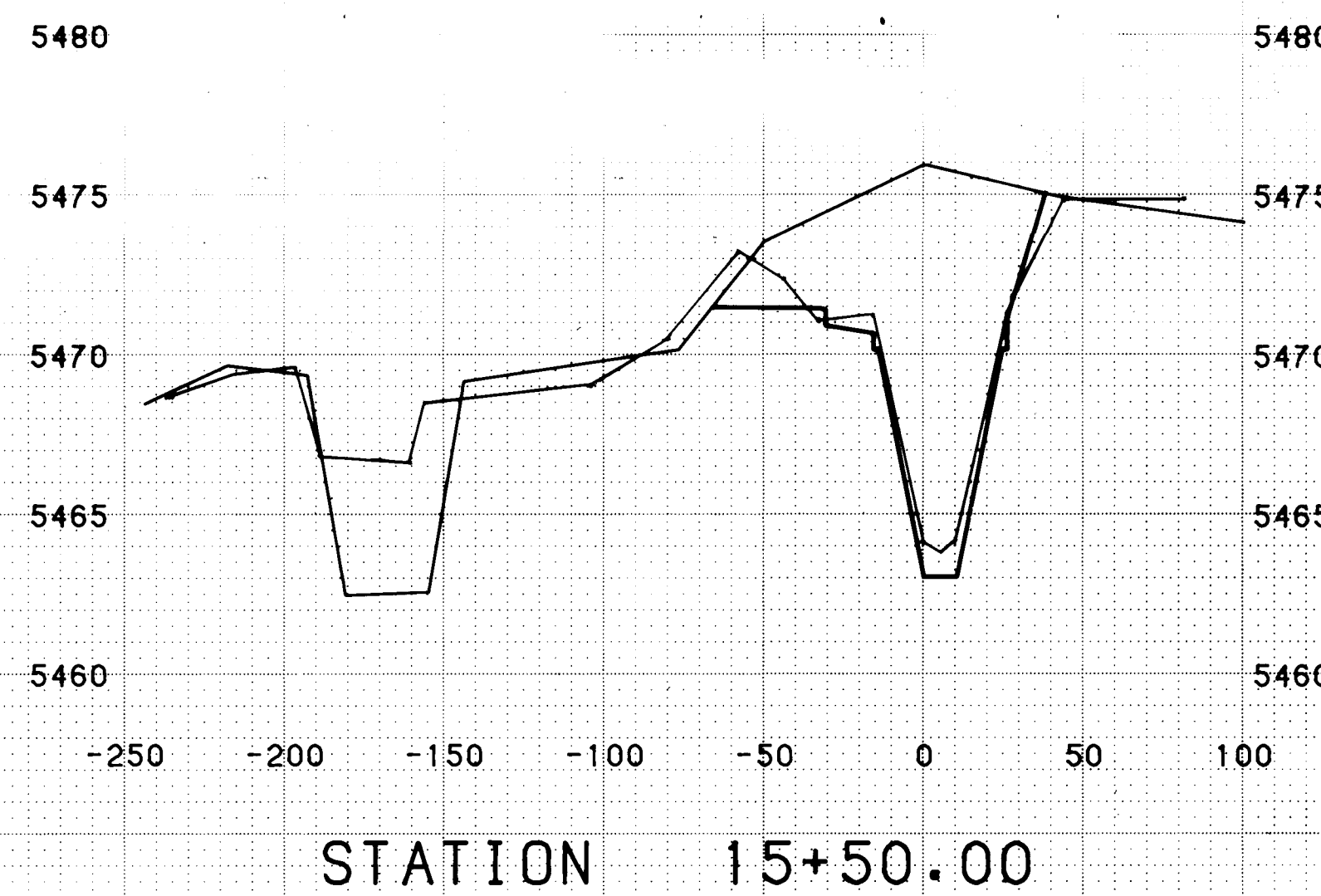
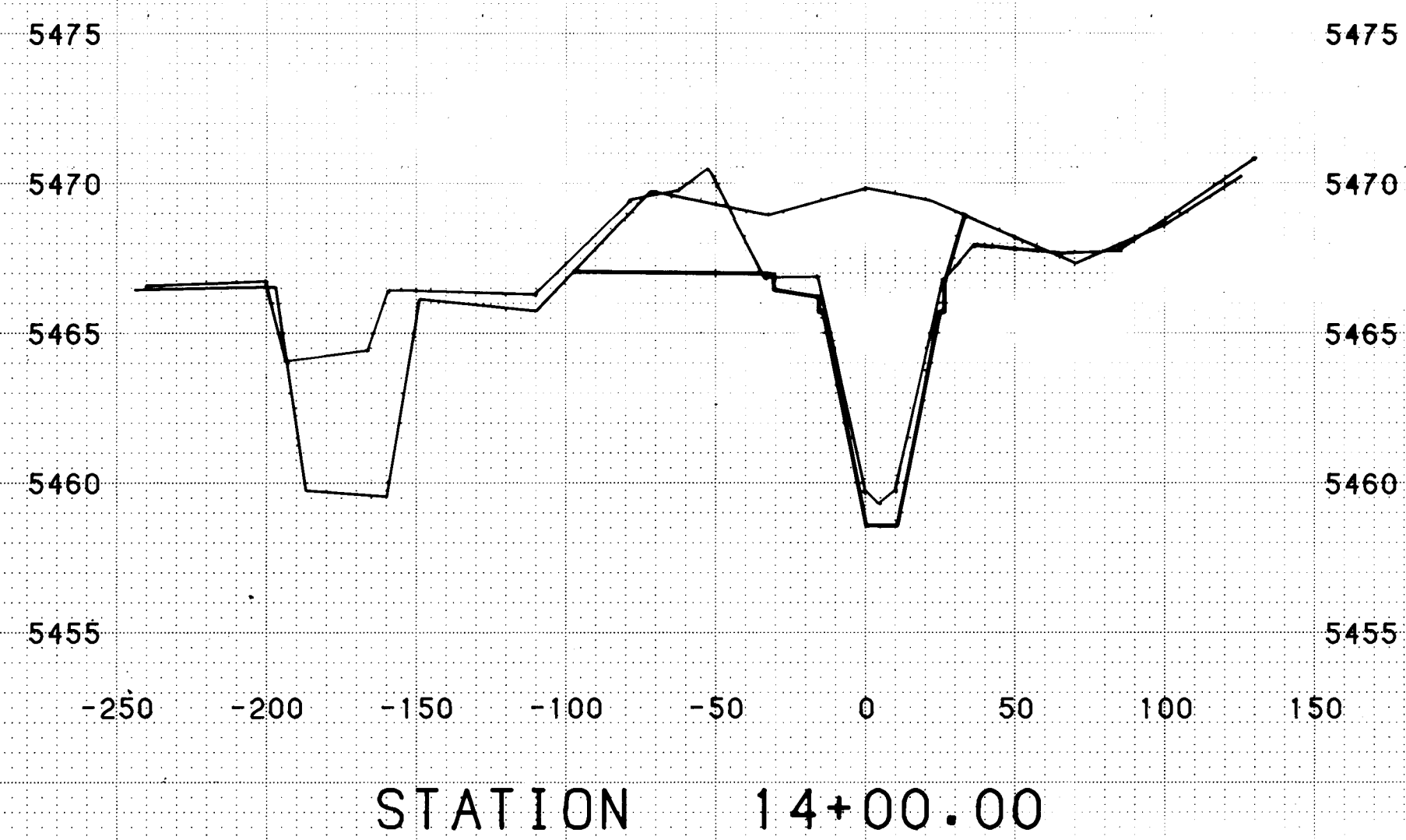
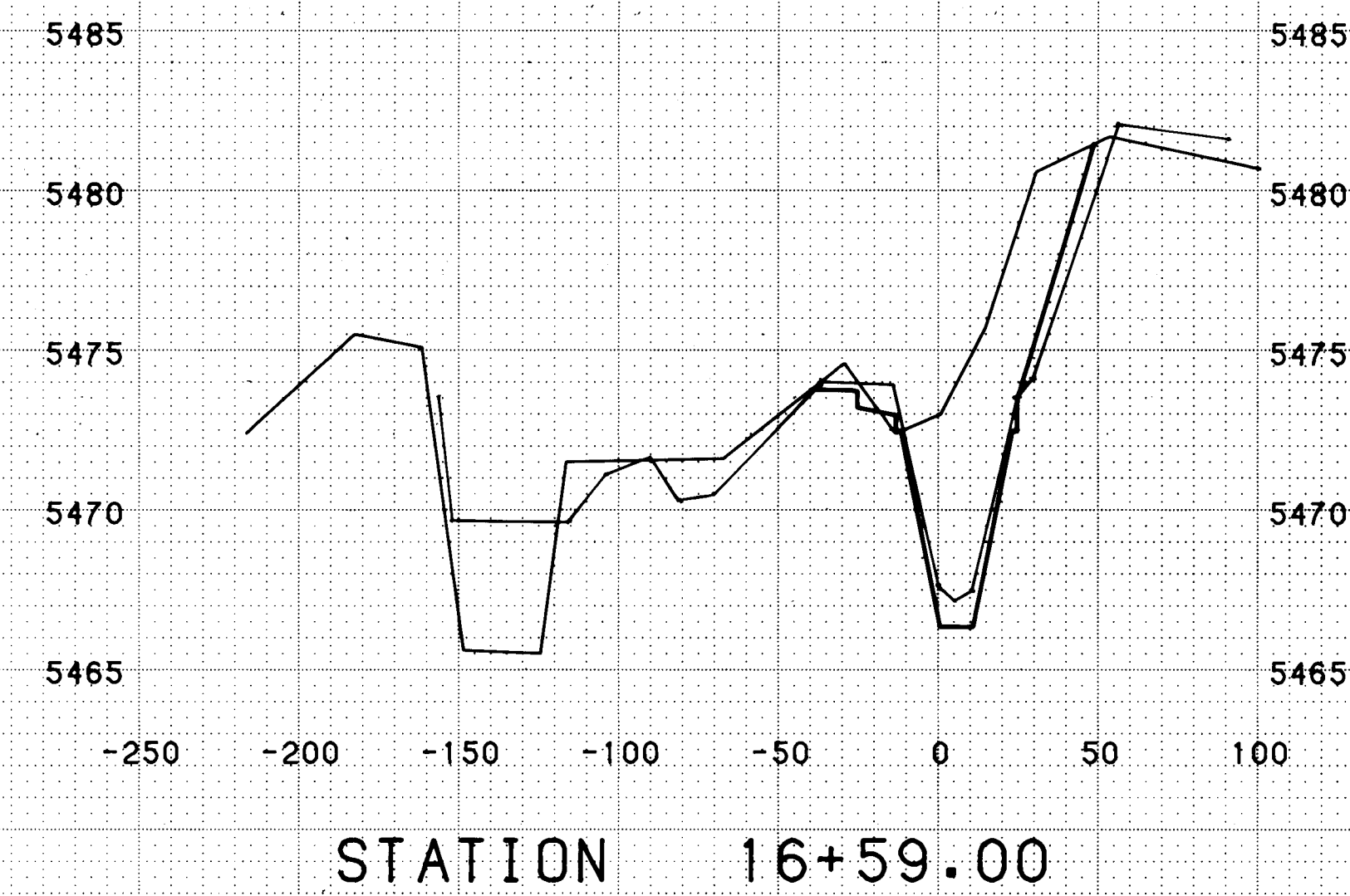
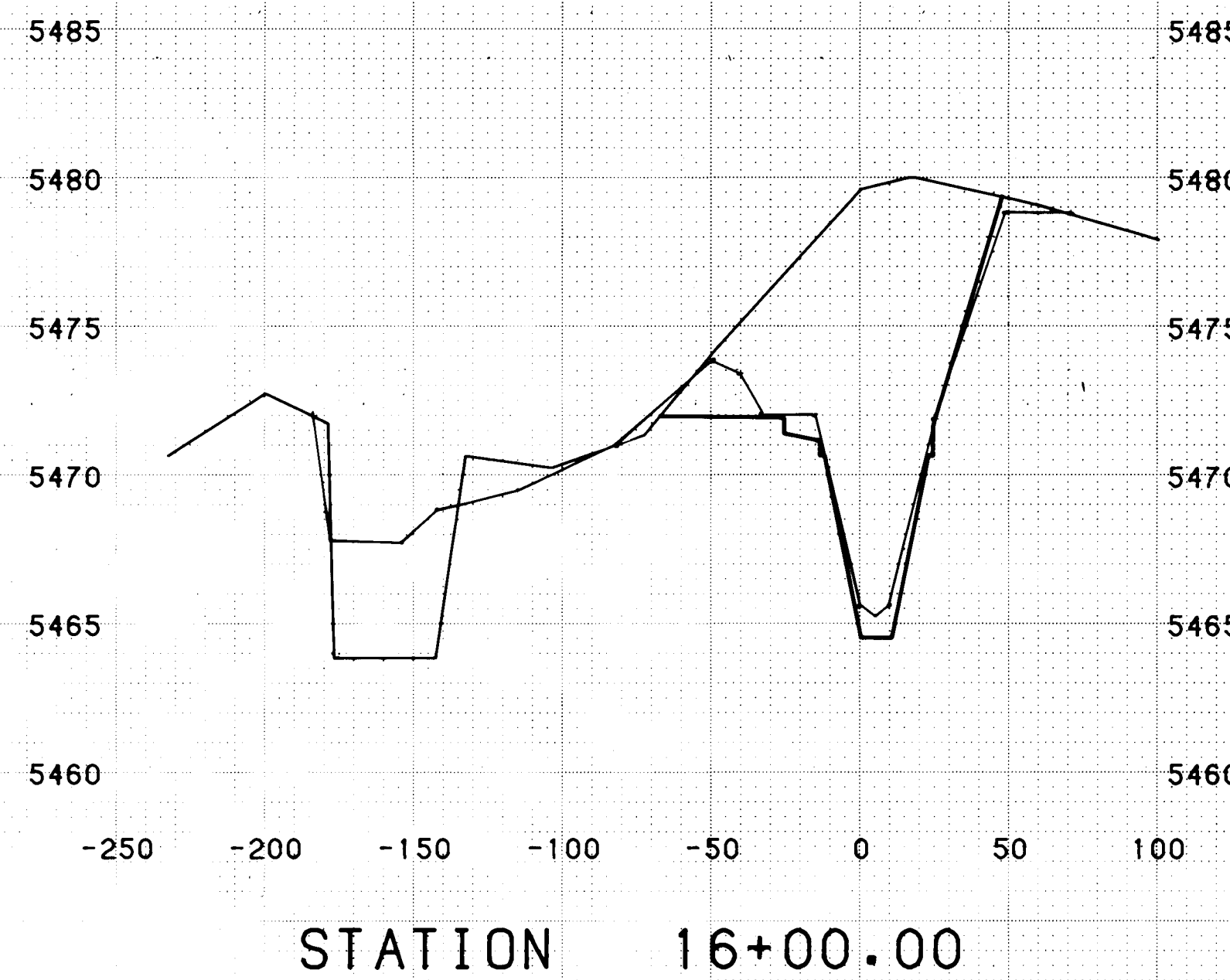
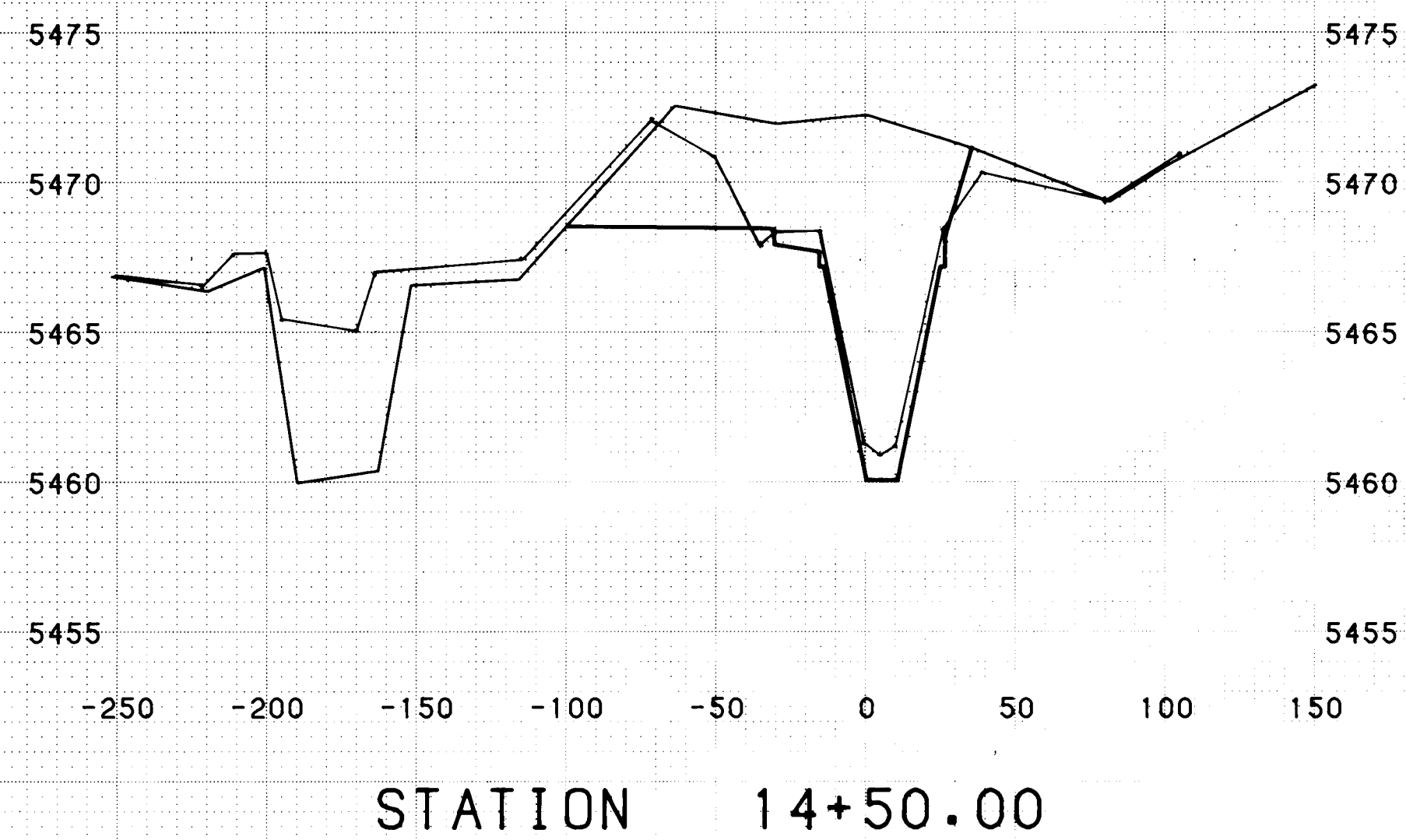
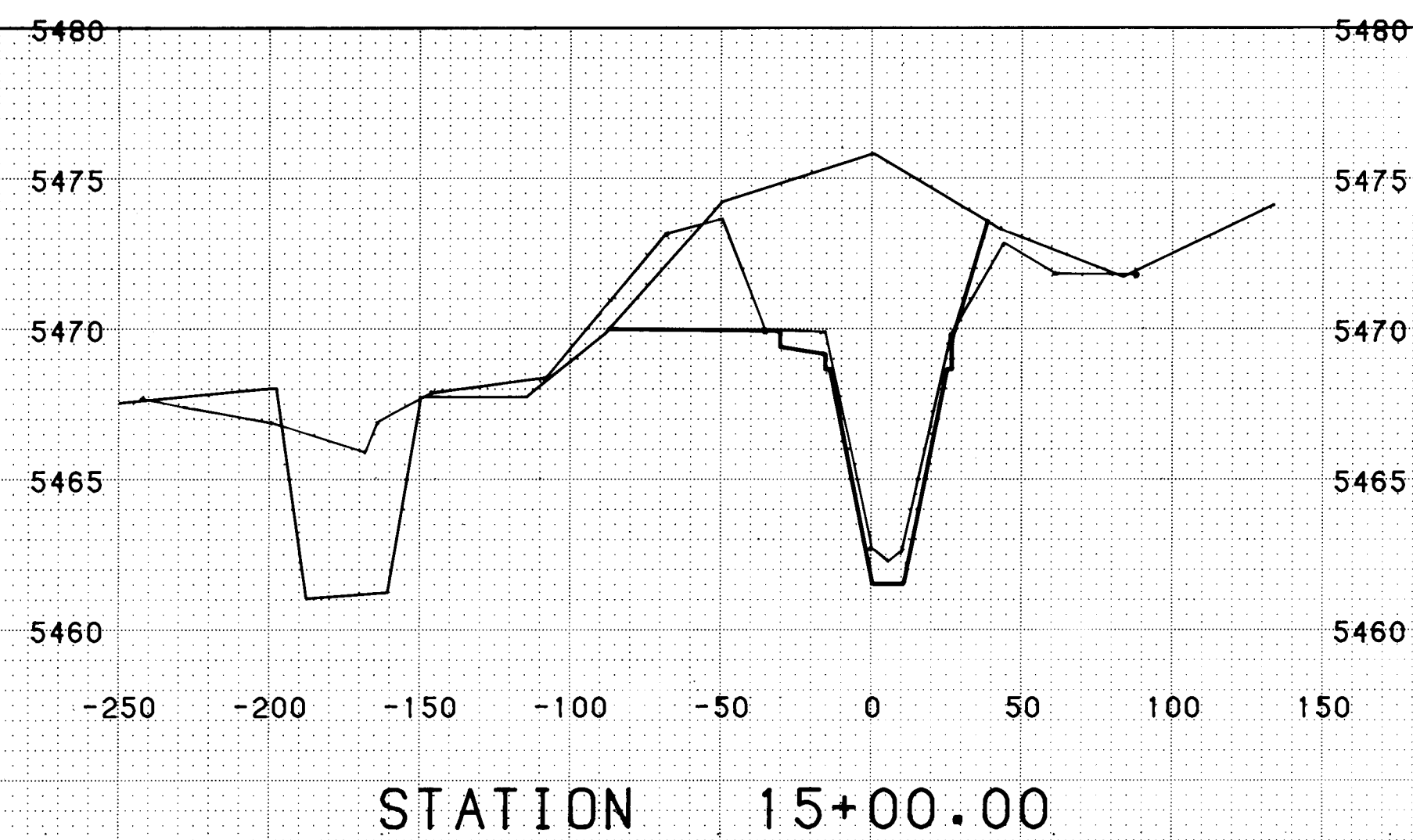


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	AREAS CHECKED	



1 2 3 4 5 6 7 8 9 10 11 12
26 19301985

RECORD DRAWINGS
DATE 7/7/85

STA. 14+00.00 to STA. 16+59.00
BEAR ARROYO TRIBUTARY

PROJECT NO. 1930

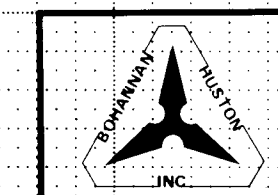
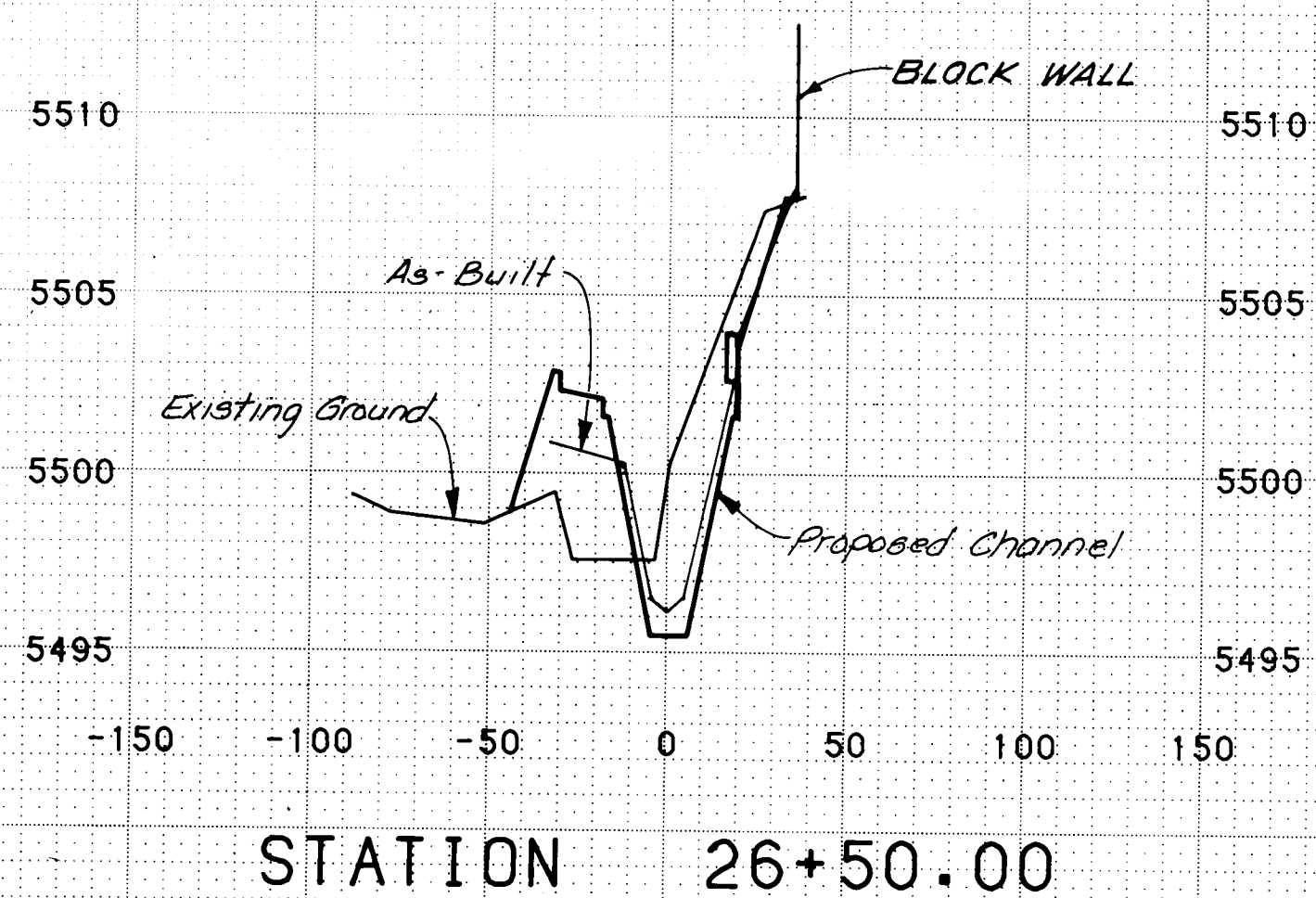
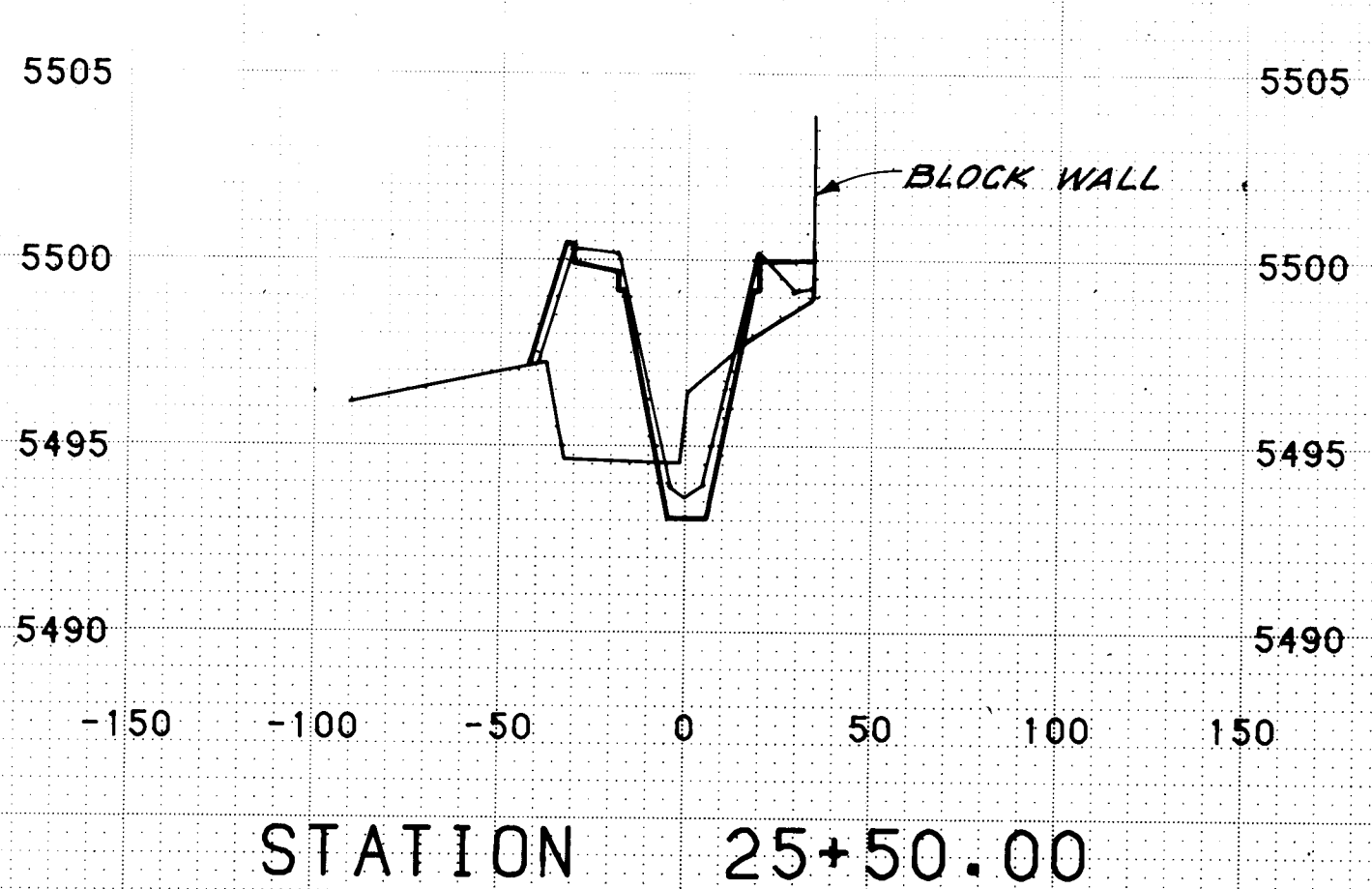
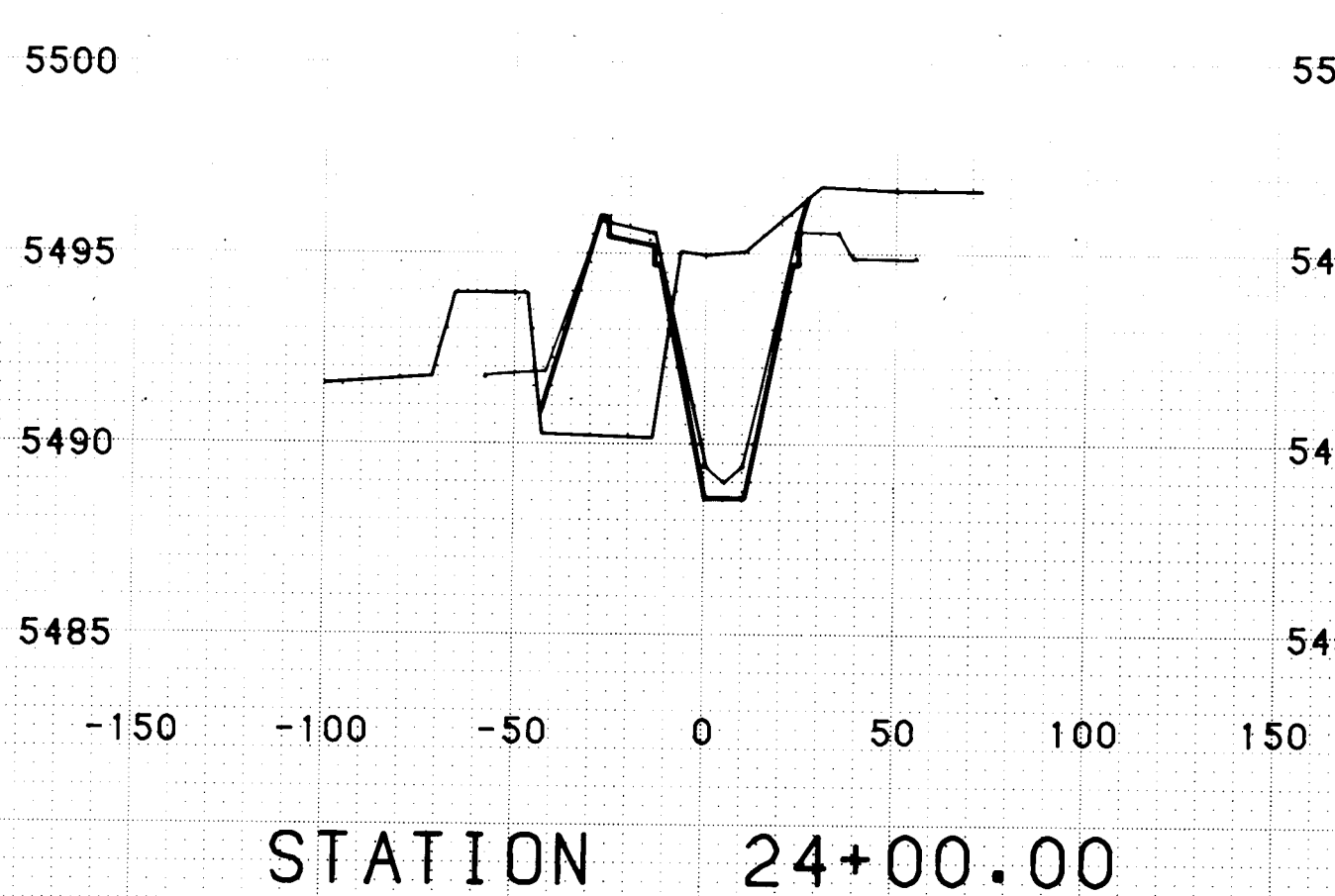
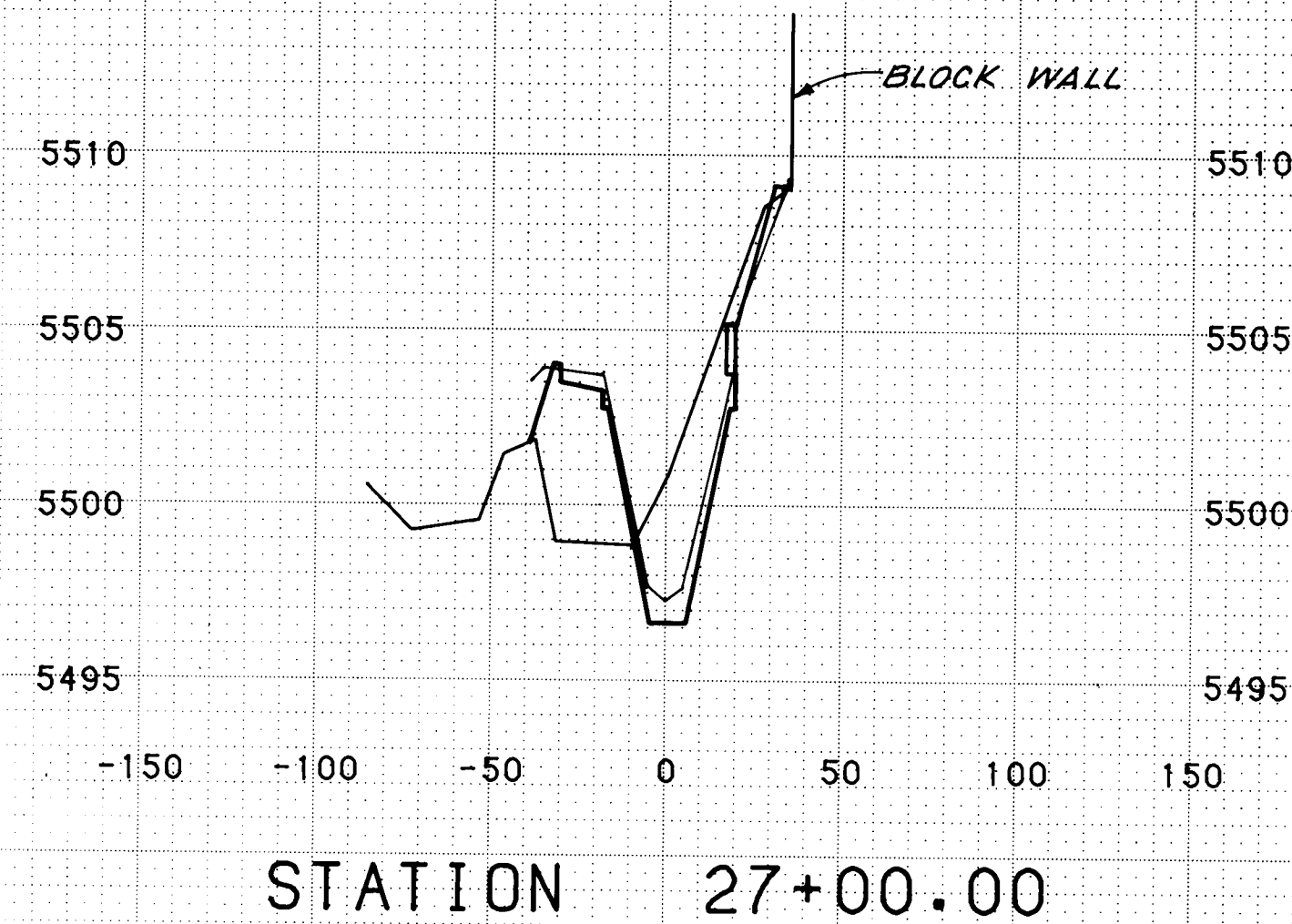
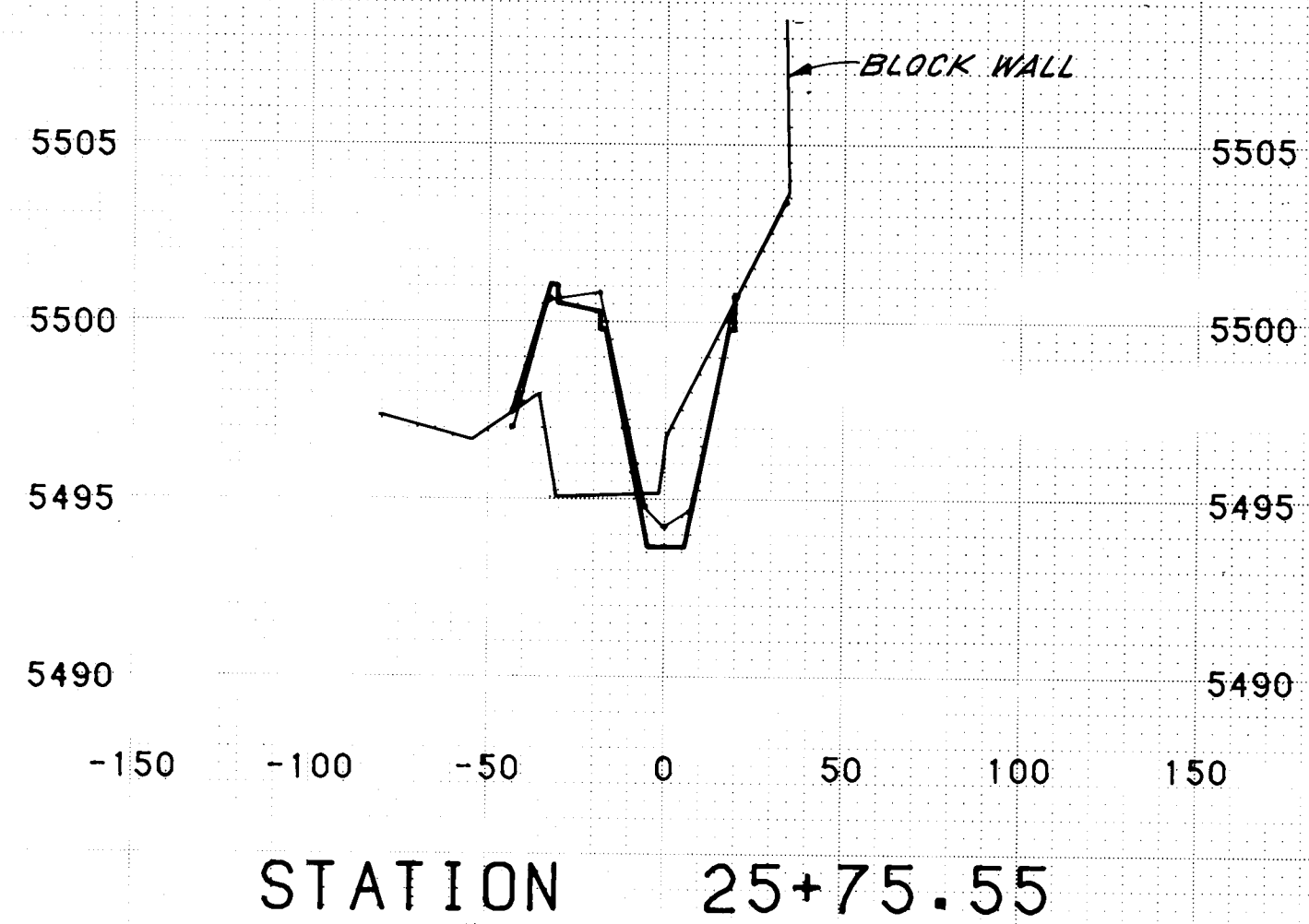
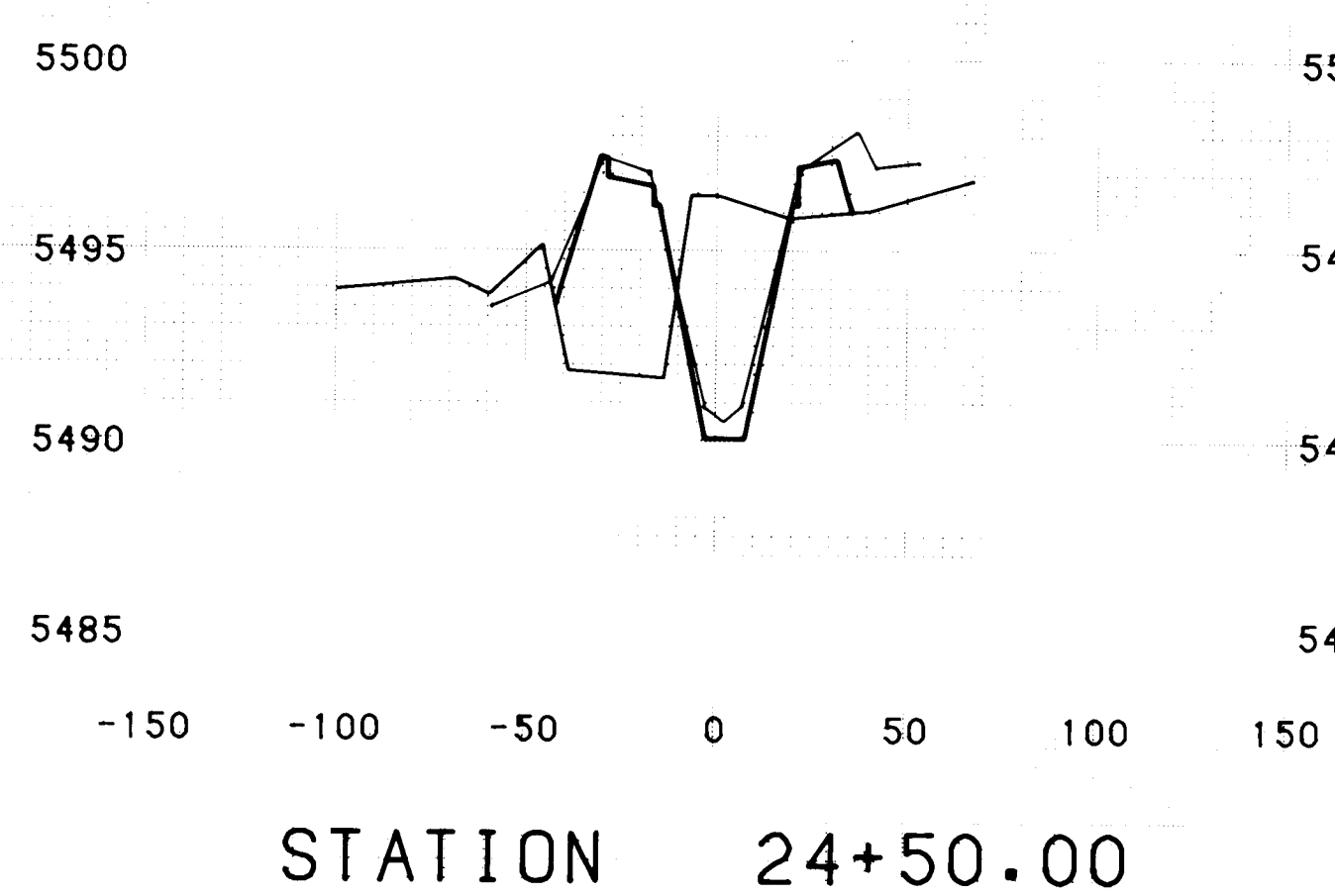
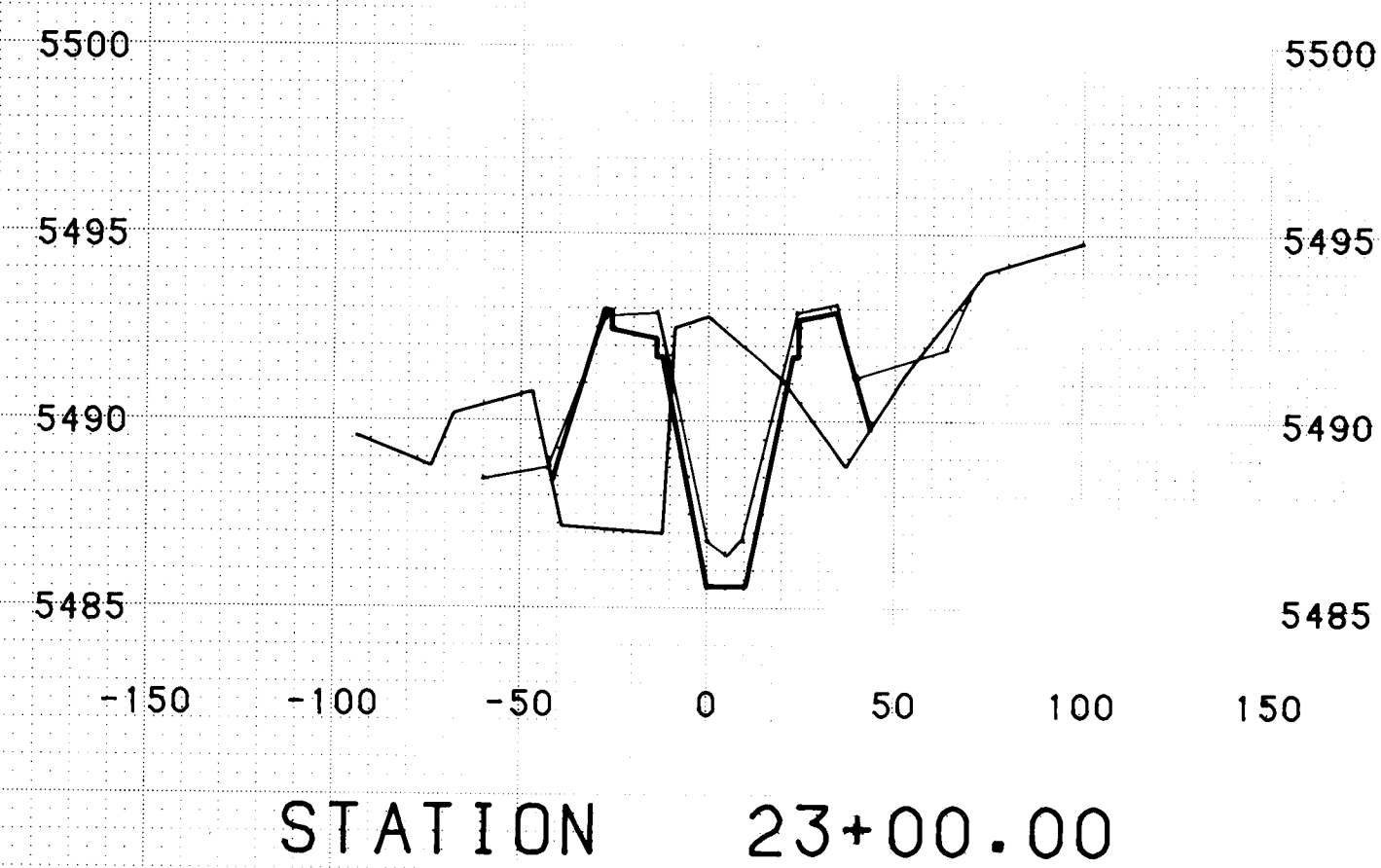
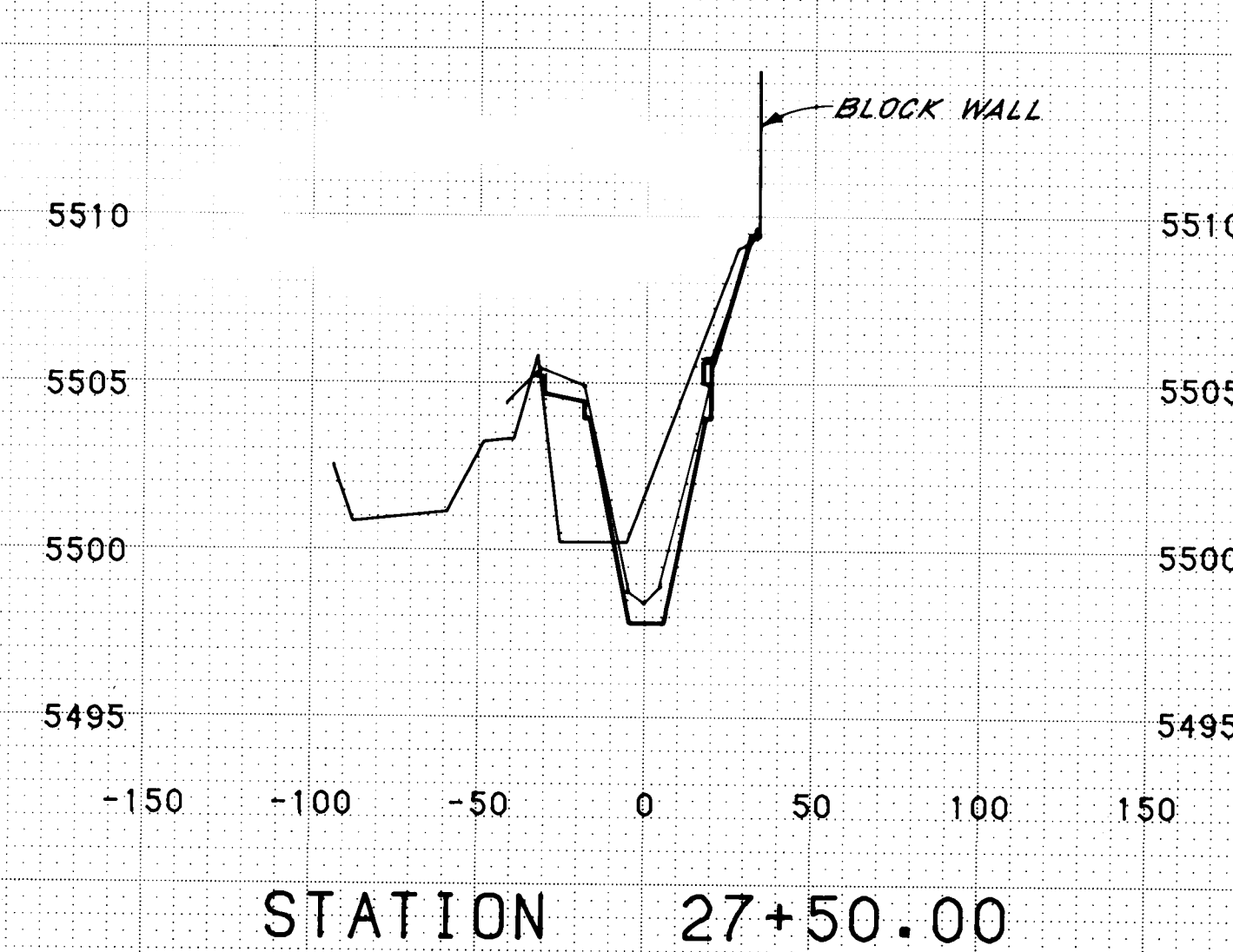
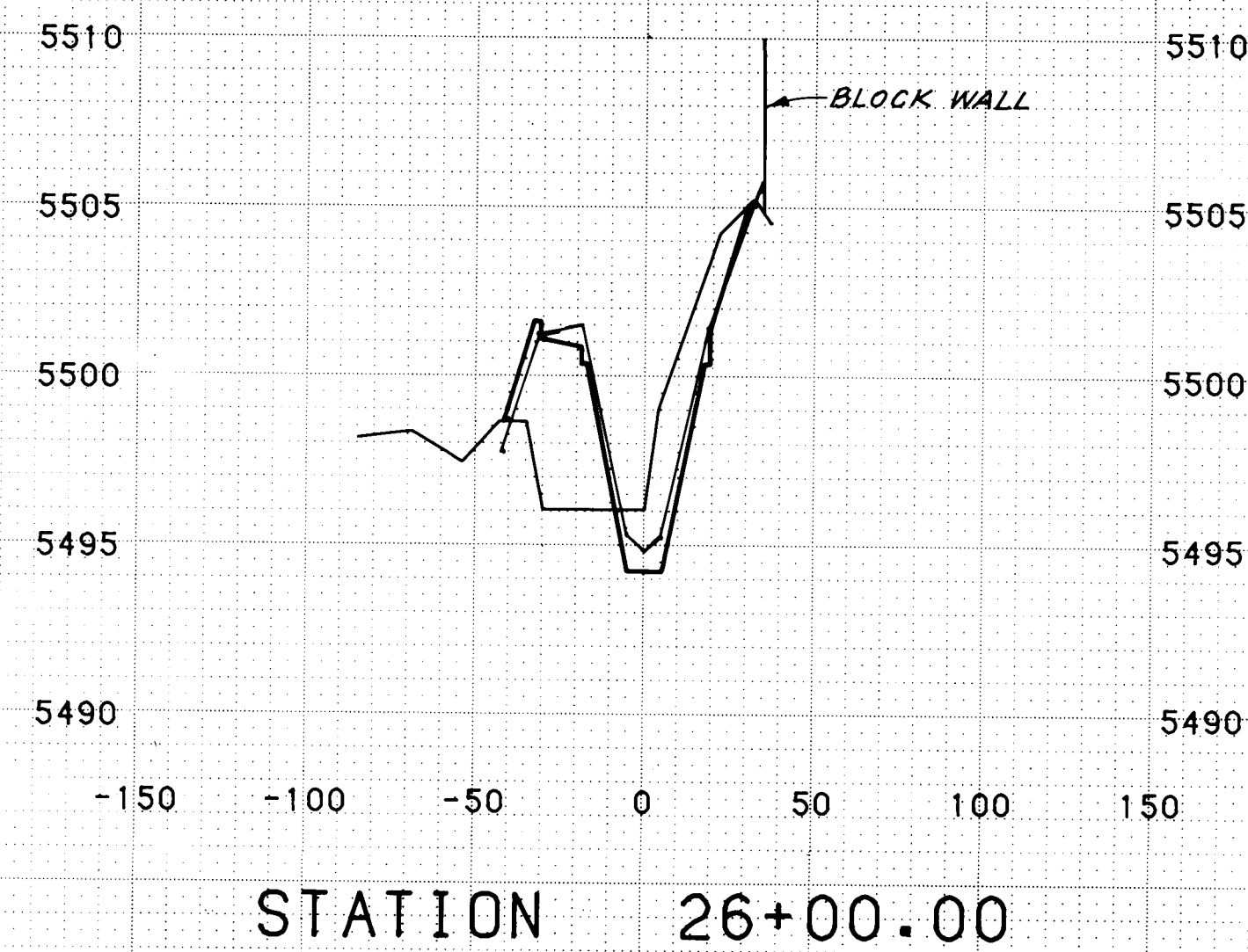
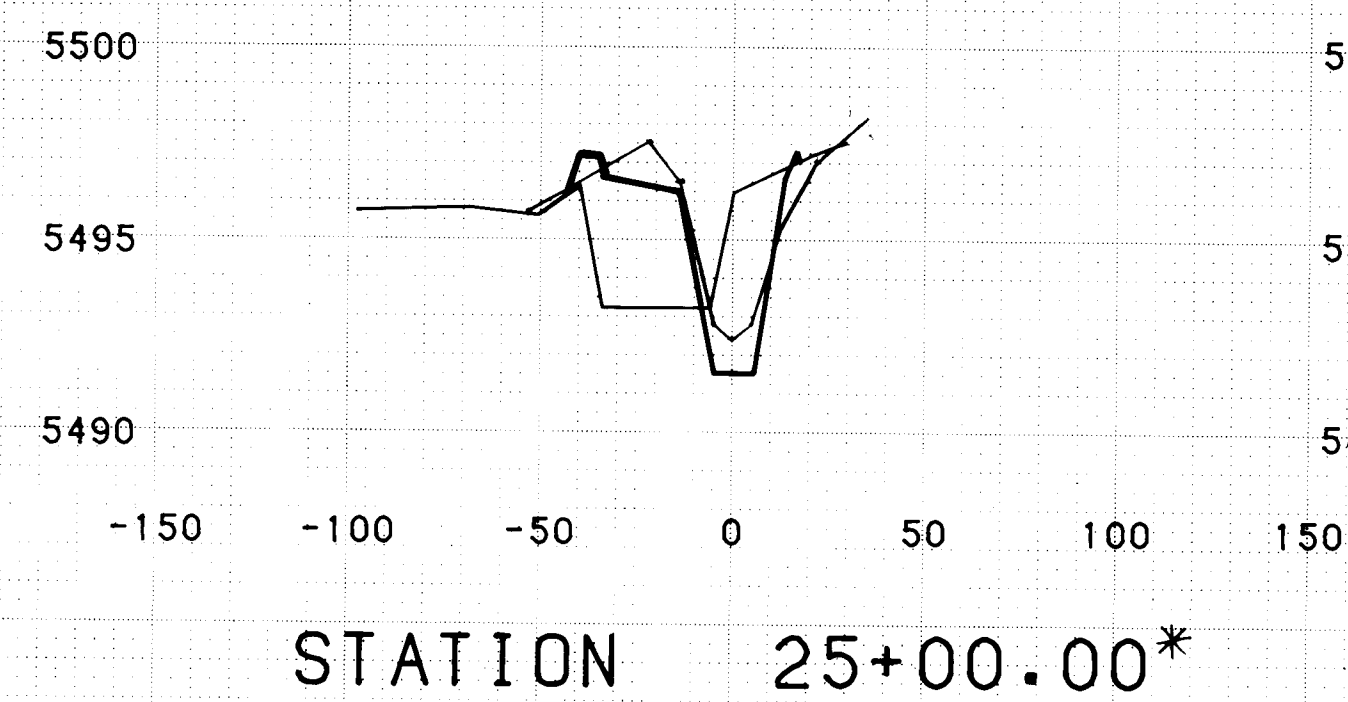
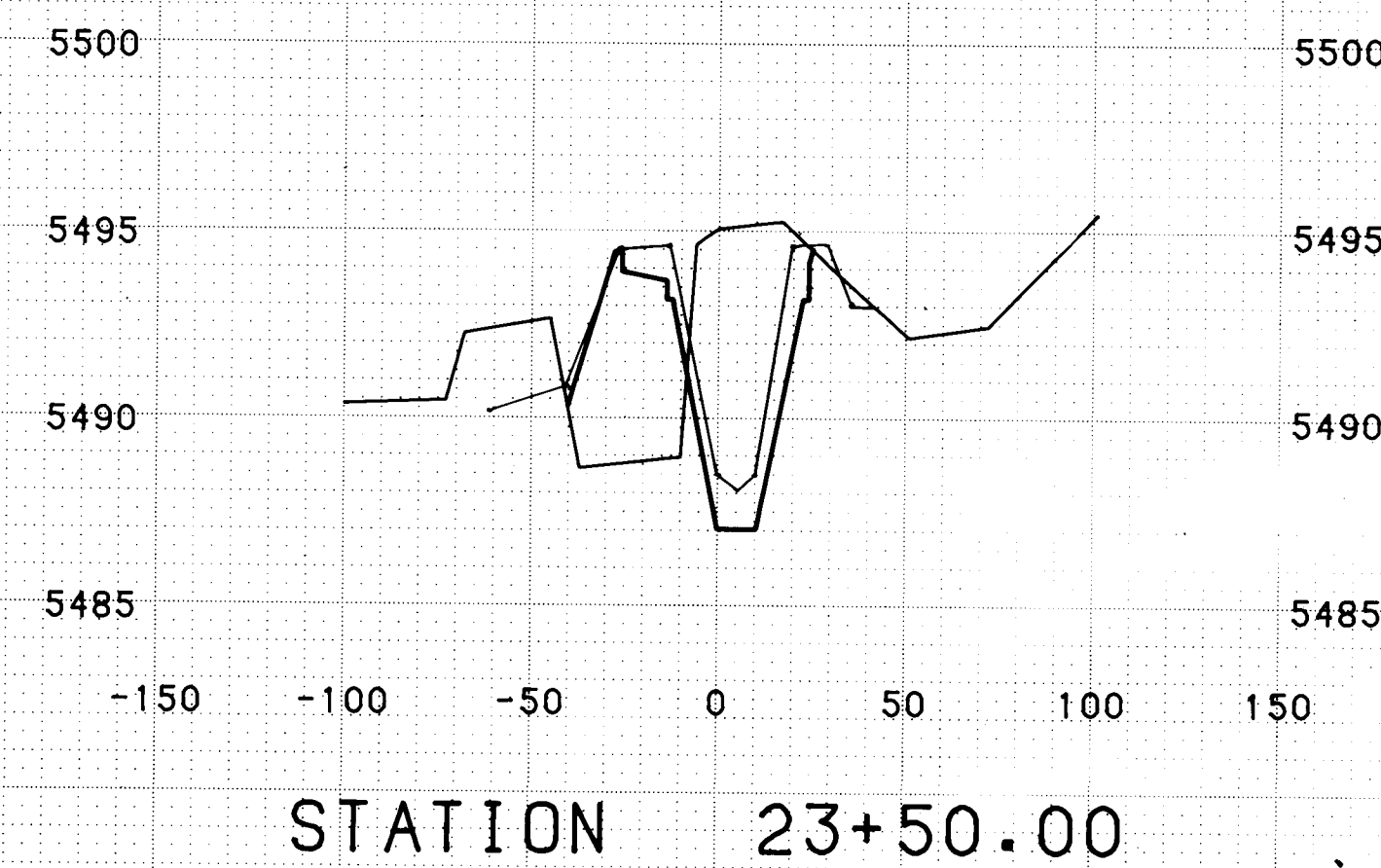


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

DATE	
BY	
SURVEY	
PLOTTED	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEY	
PLOTTED	
NOTE BOOK	
NO.	



26 19 30 21 8 5

RECORD DRAWINGS
DATE 7/9/85

STA. 22+50.00 to STA. 27+50.00
BEAR ARROYO TRIBUTARY
PROJECT NO. 1930

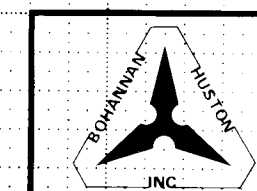
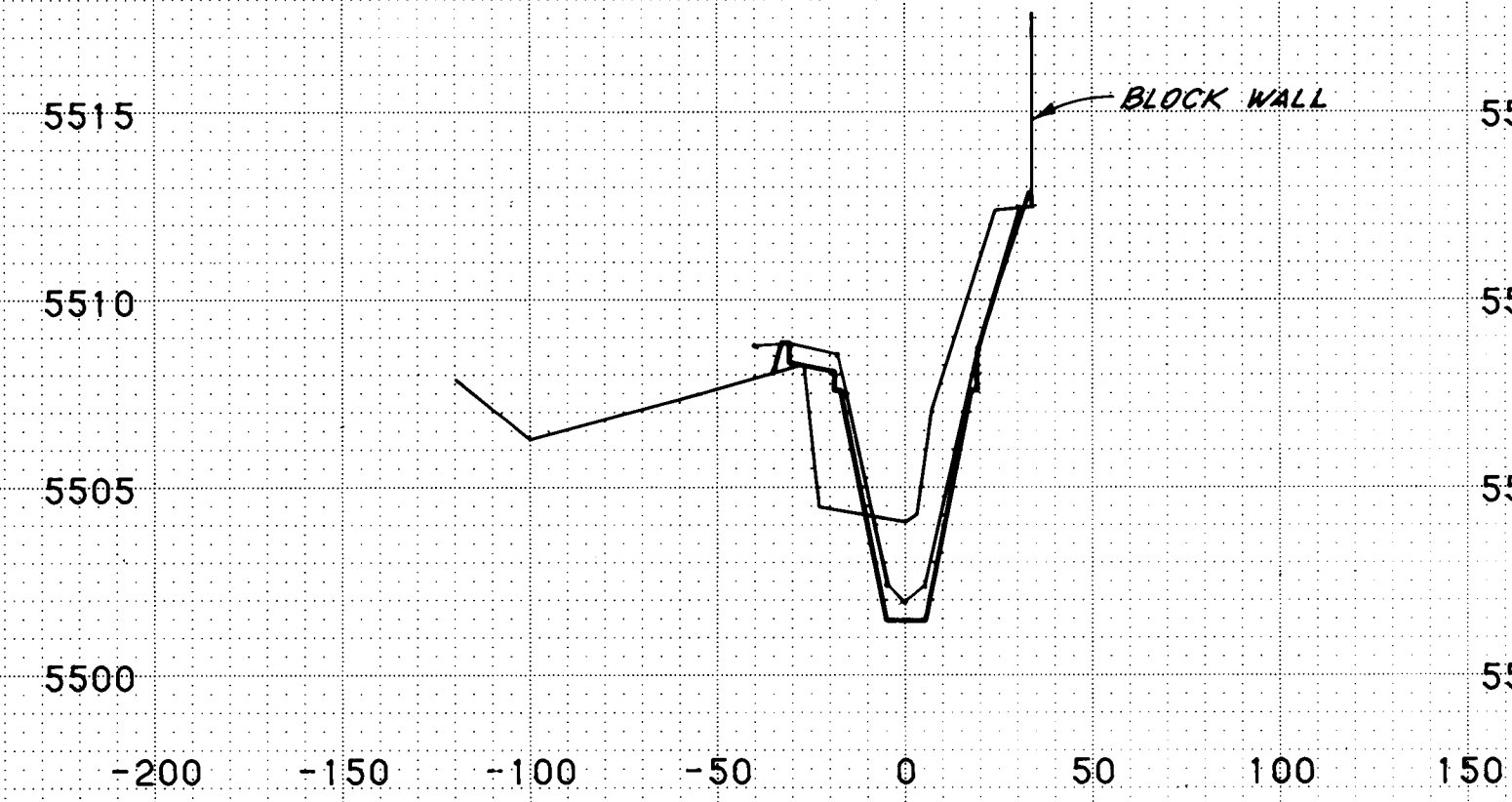


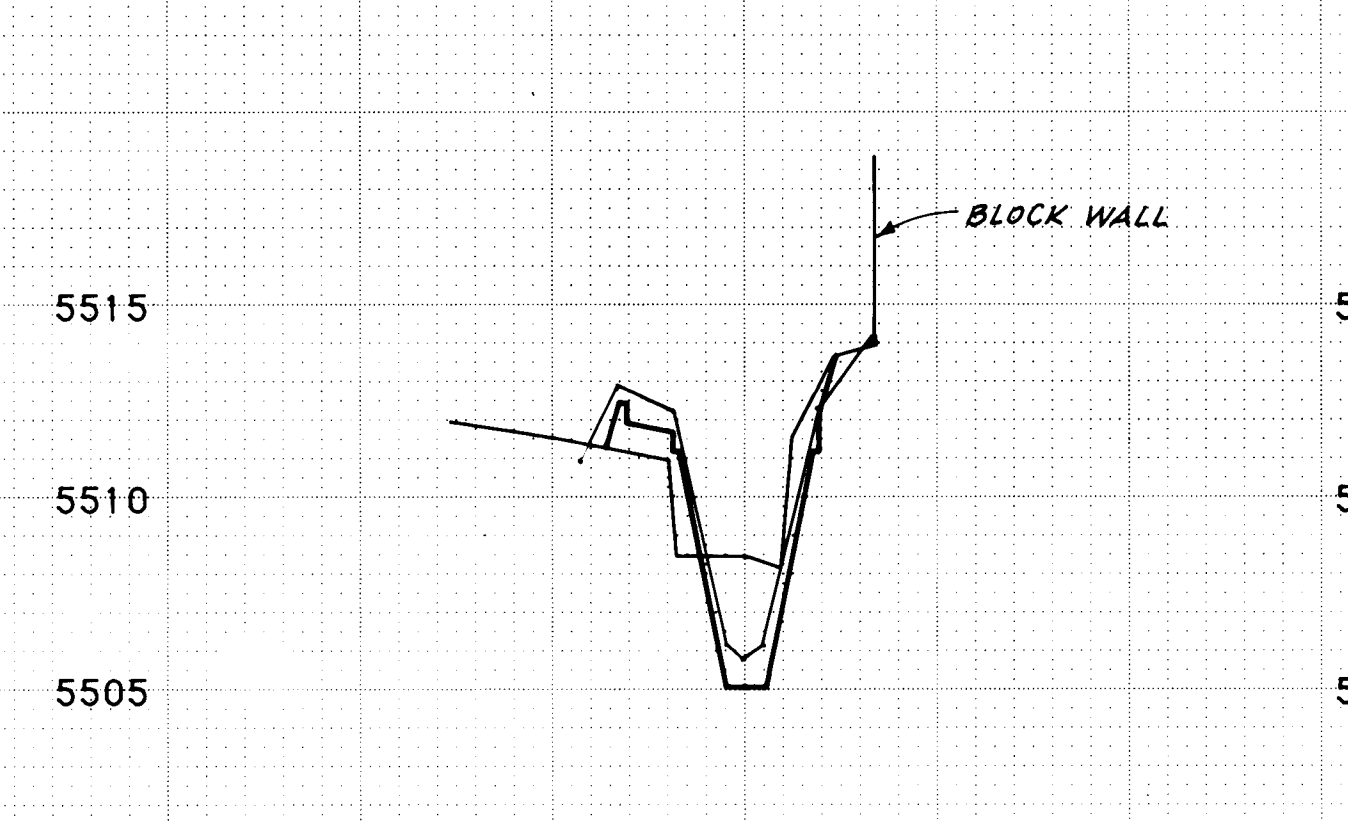
PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

FINAL	BY	DATE
SURVEY		
NOTE BOOK		
NO.		

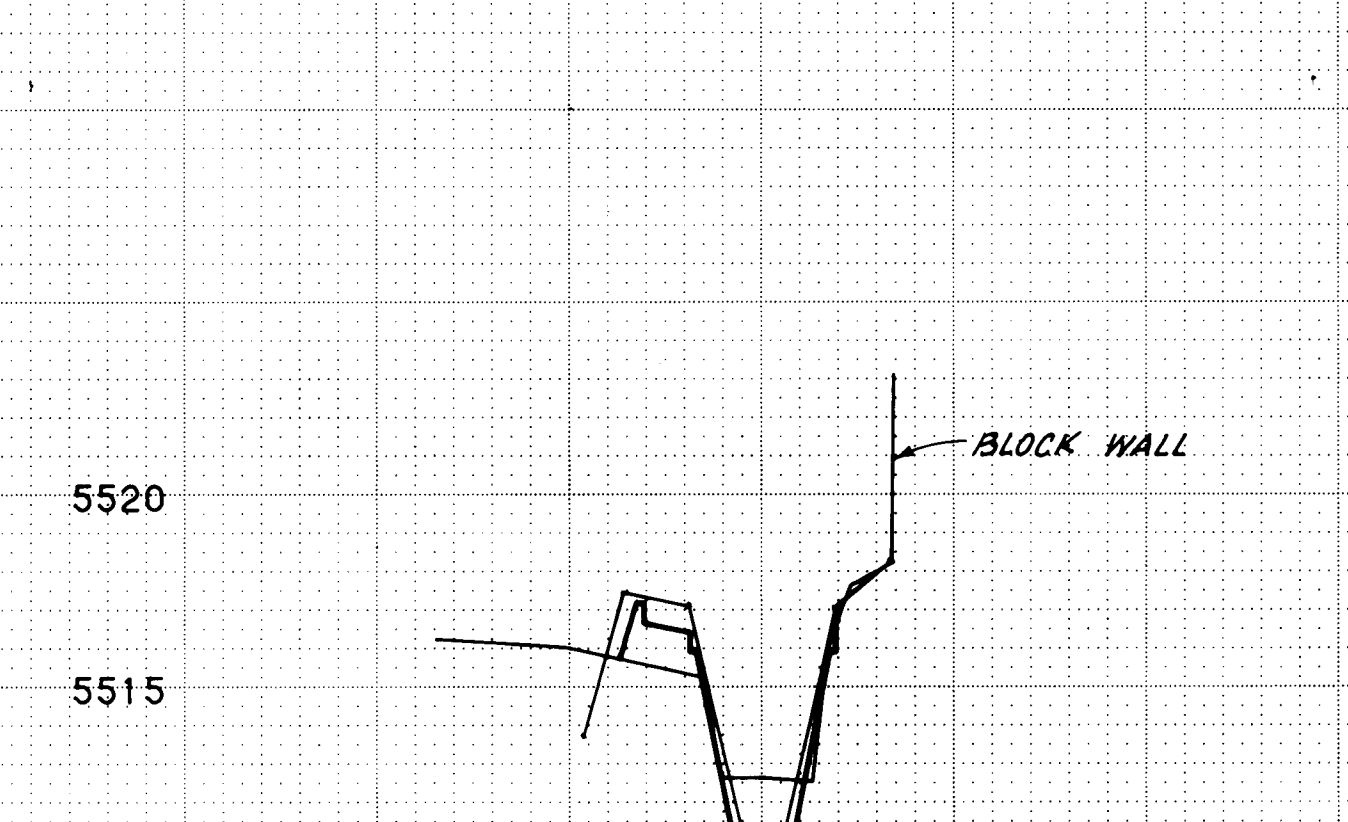
ORIGINAL	BY	DATE
SURVEY		
NOTE BOOK		
NO.		



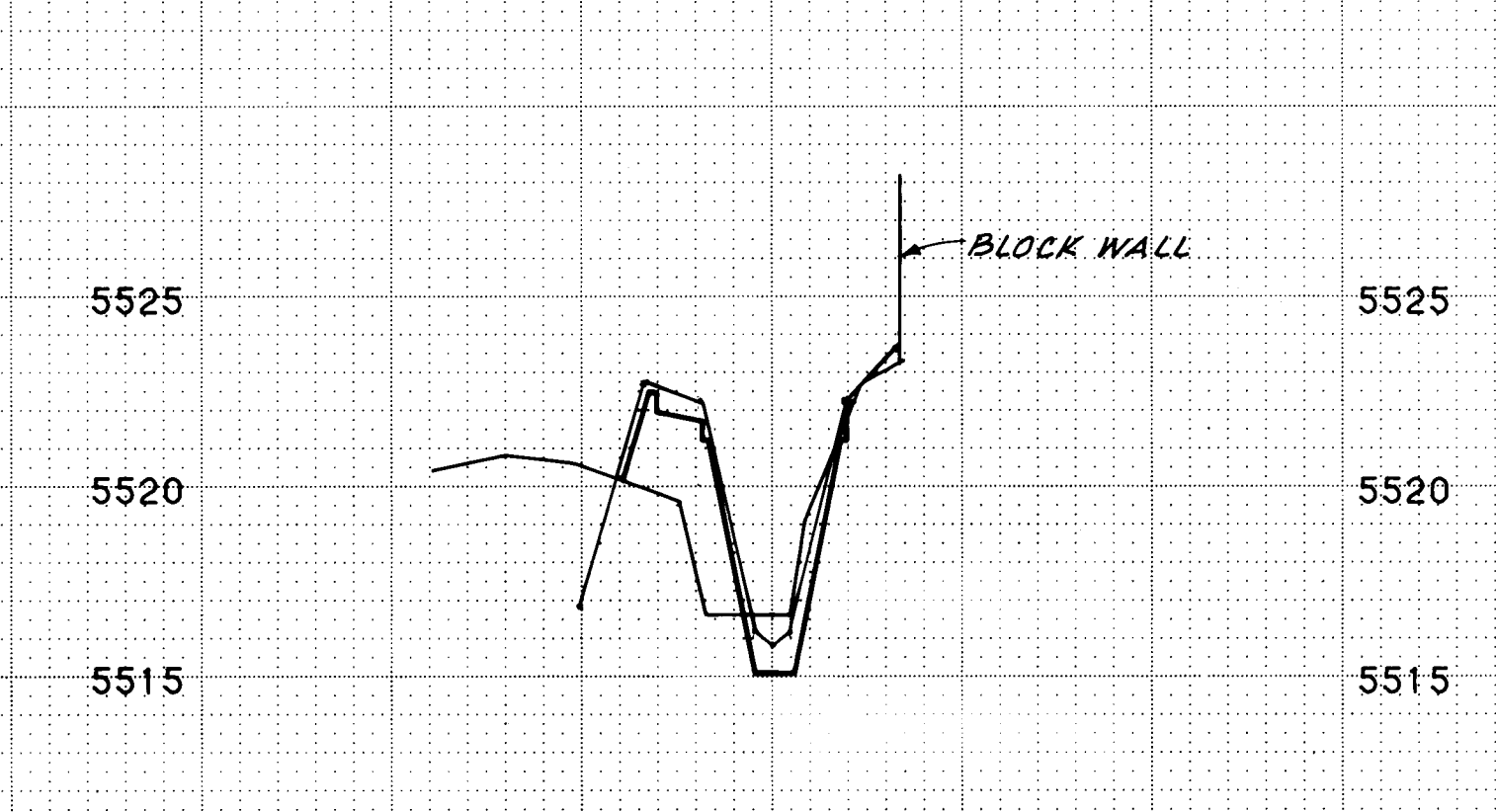
STATION 29+00.00



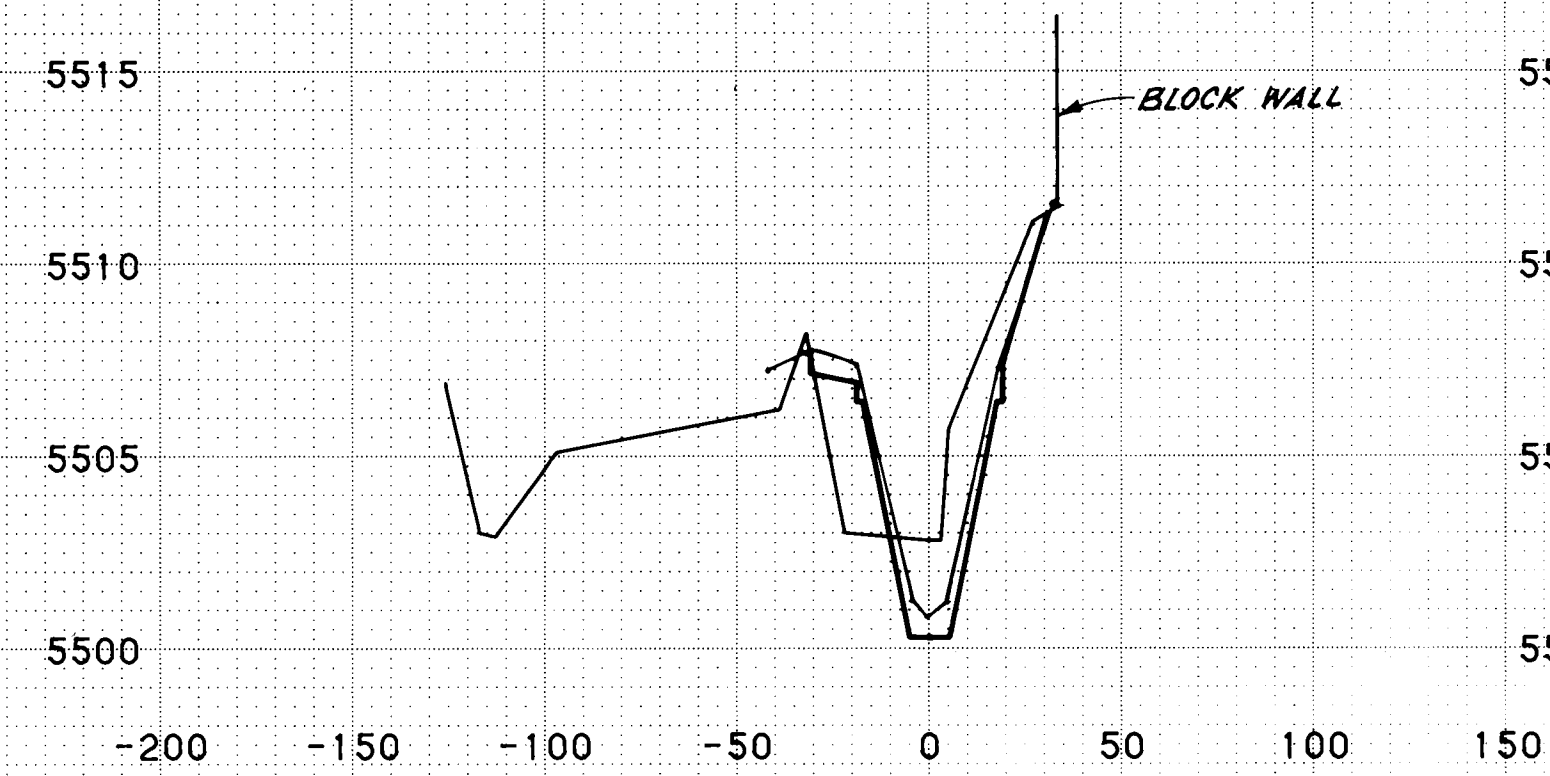
STATION 30+50.00



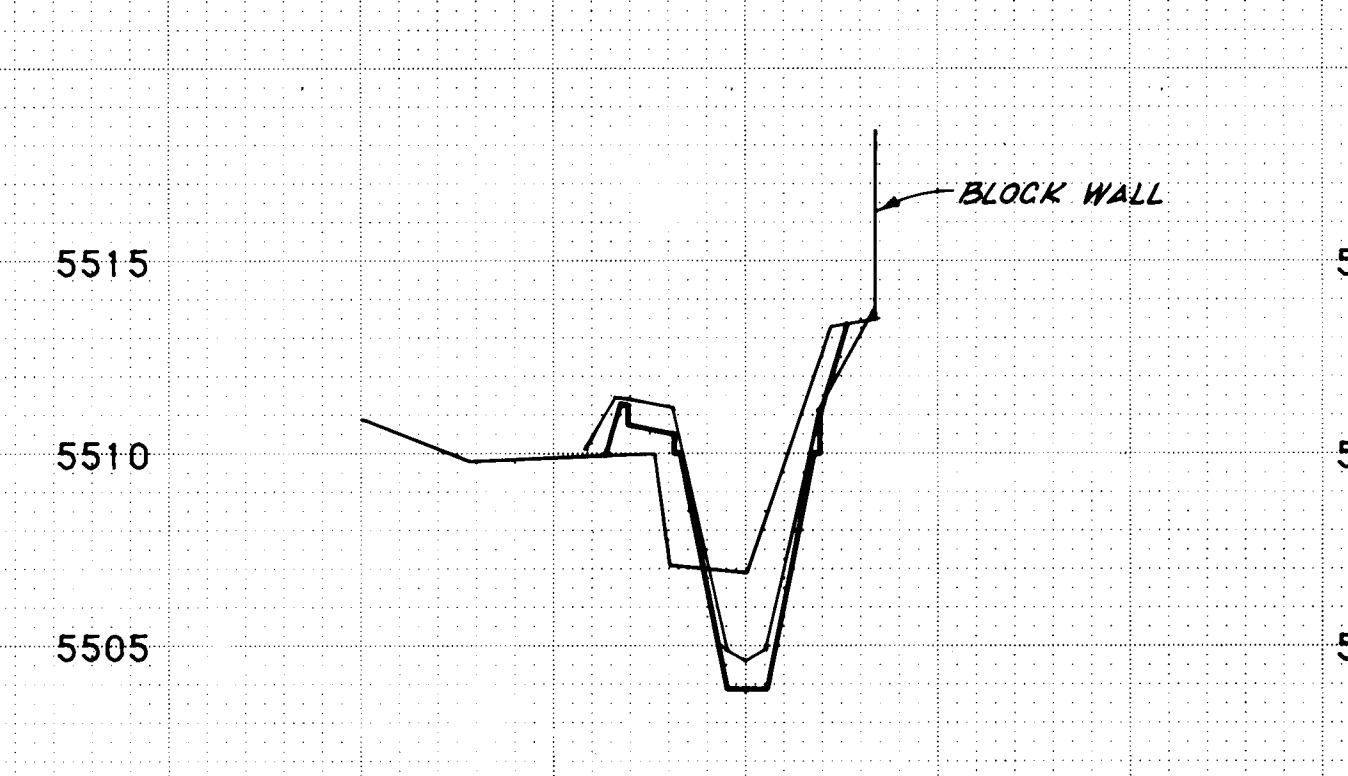
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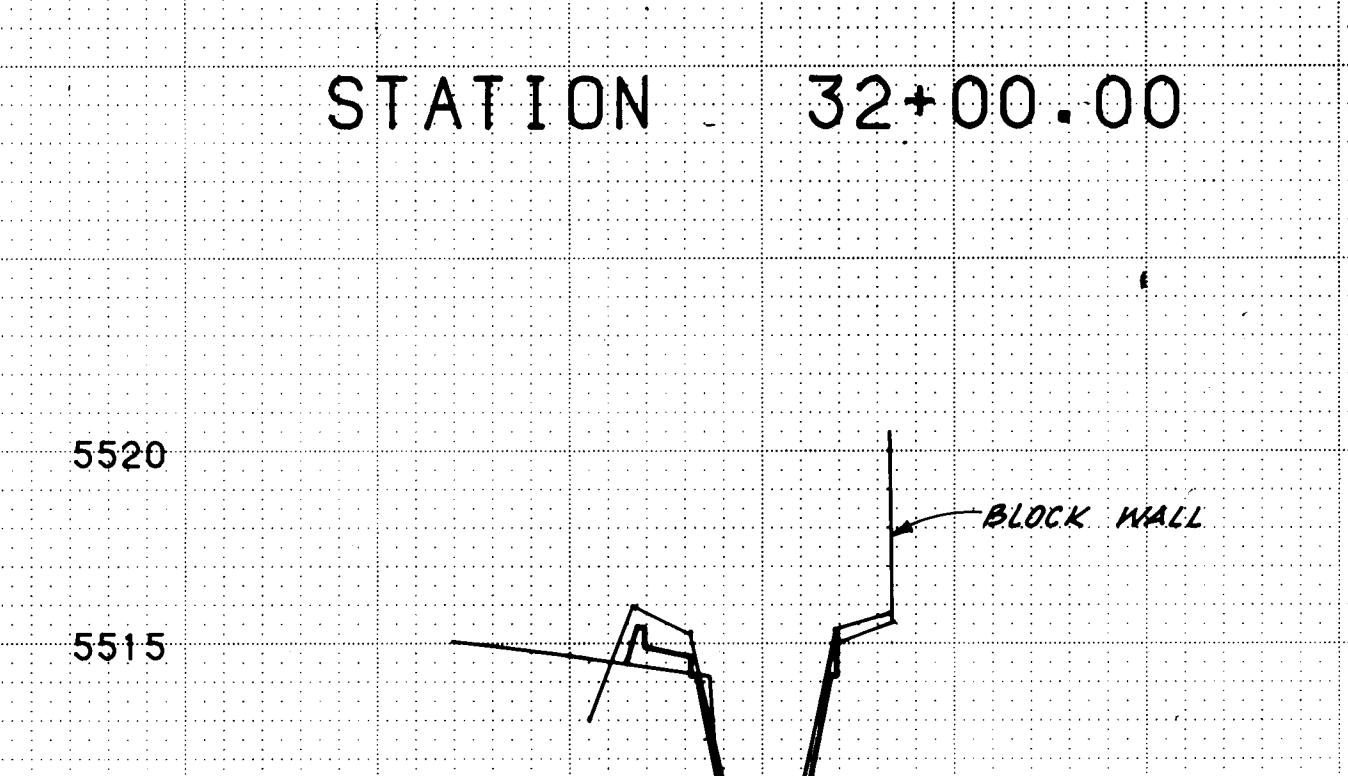
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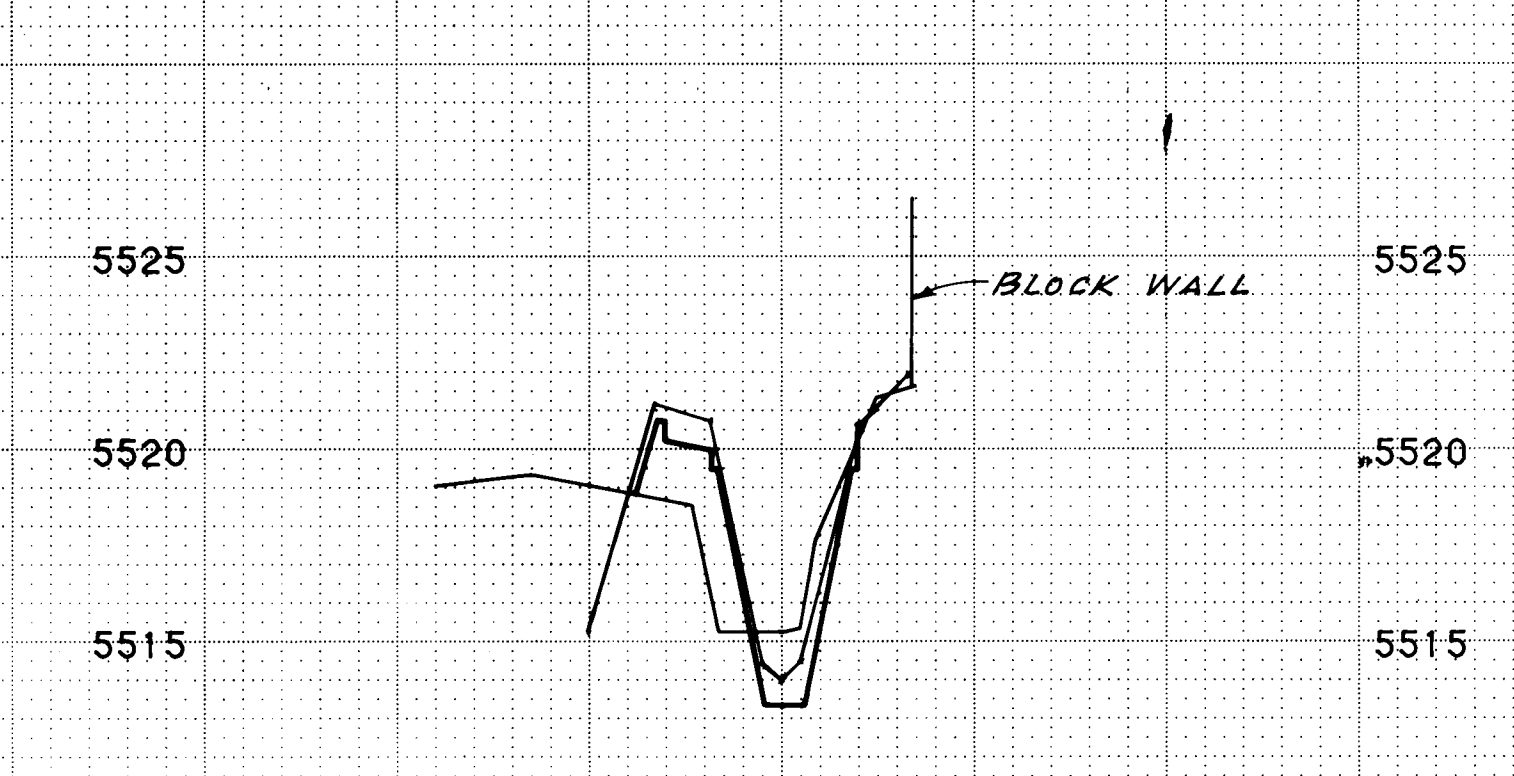
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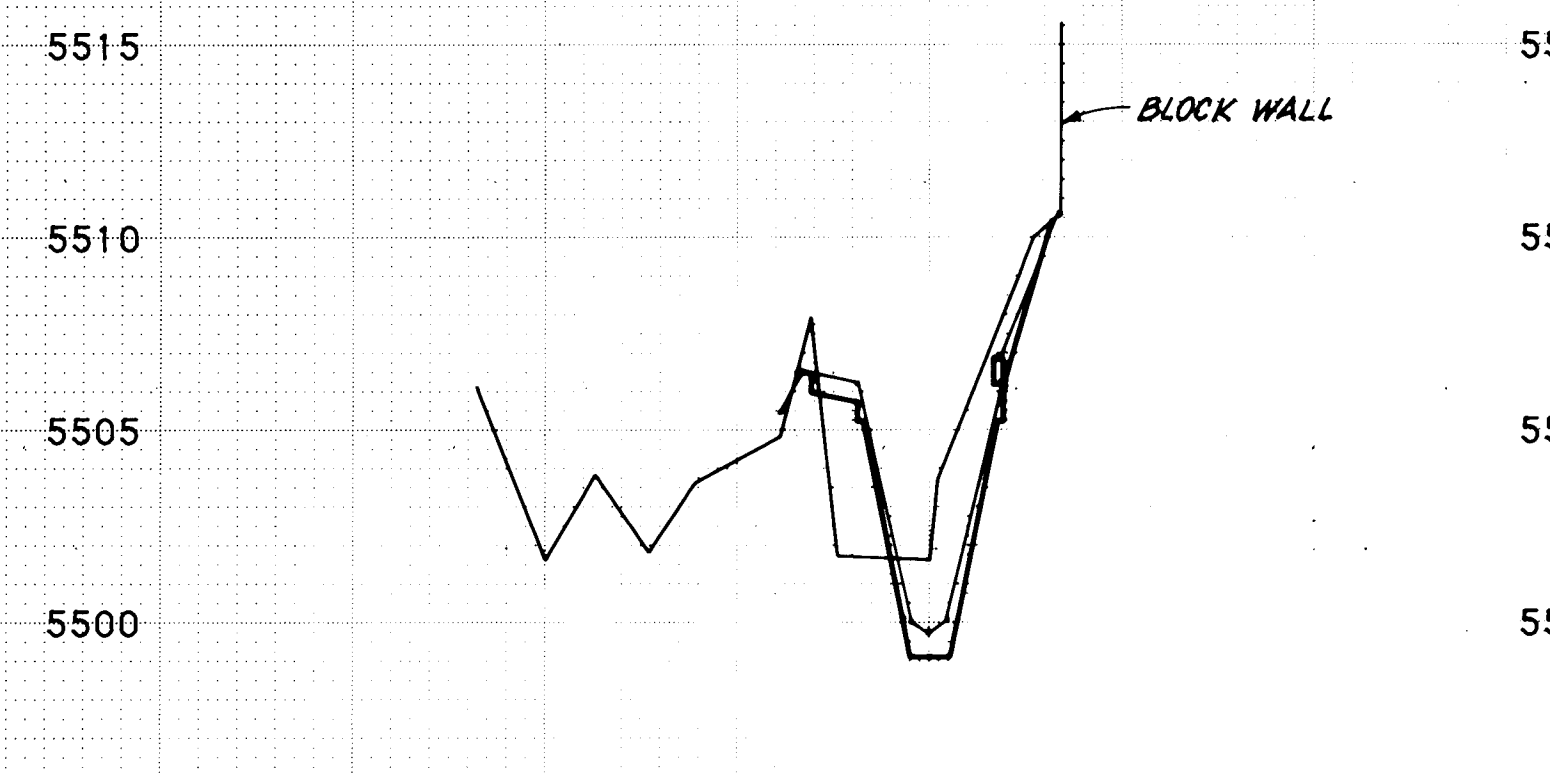
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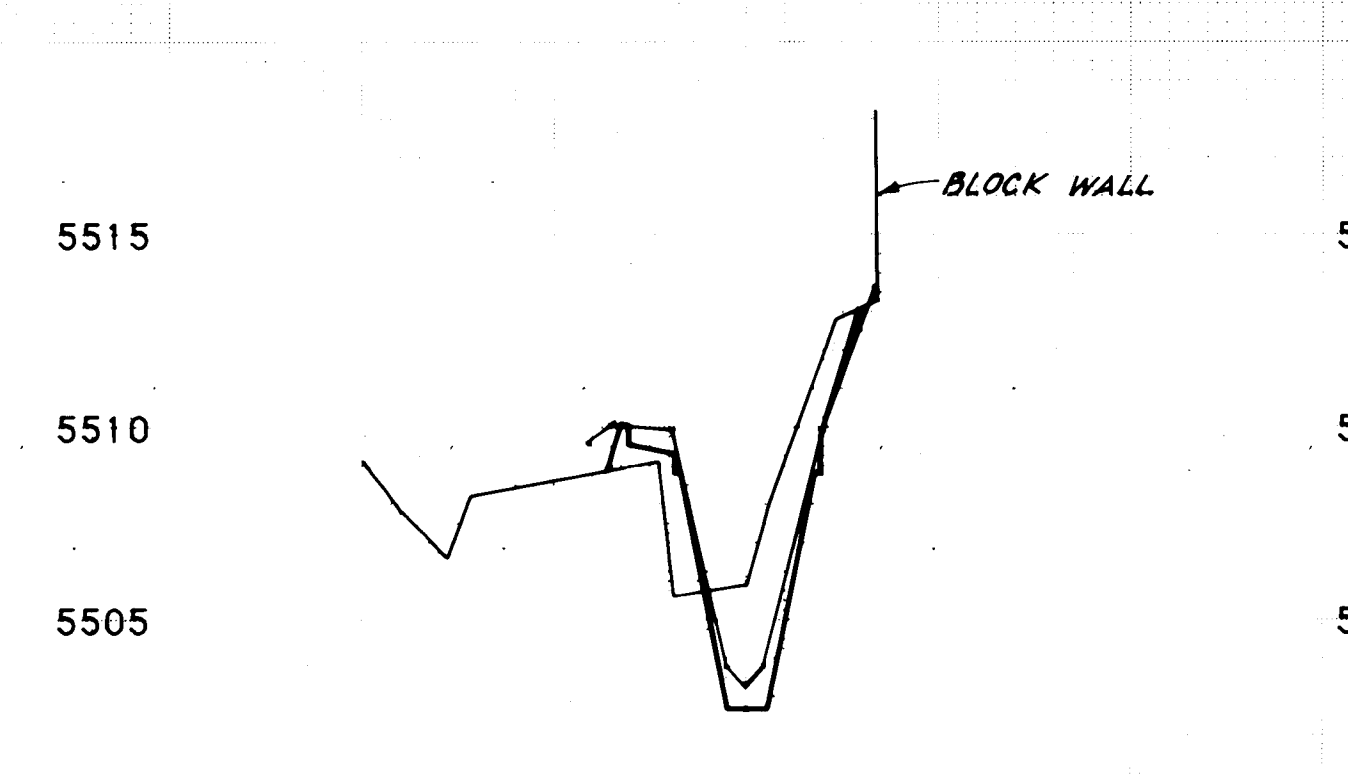
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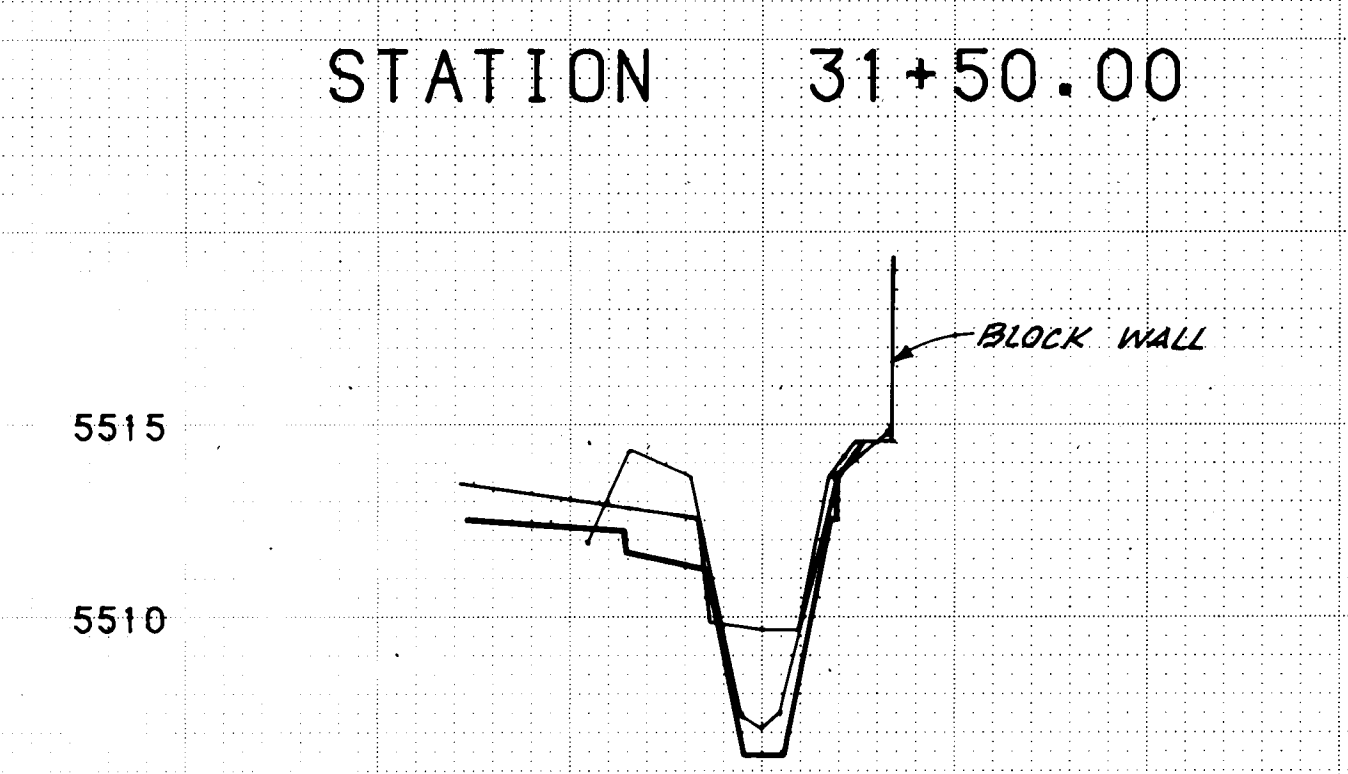
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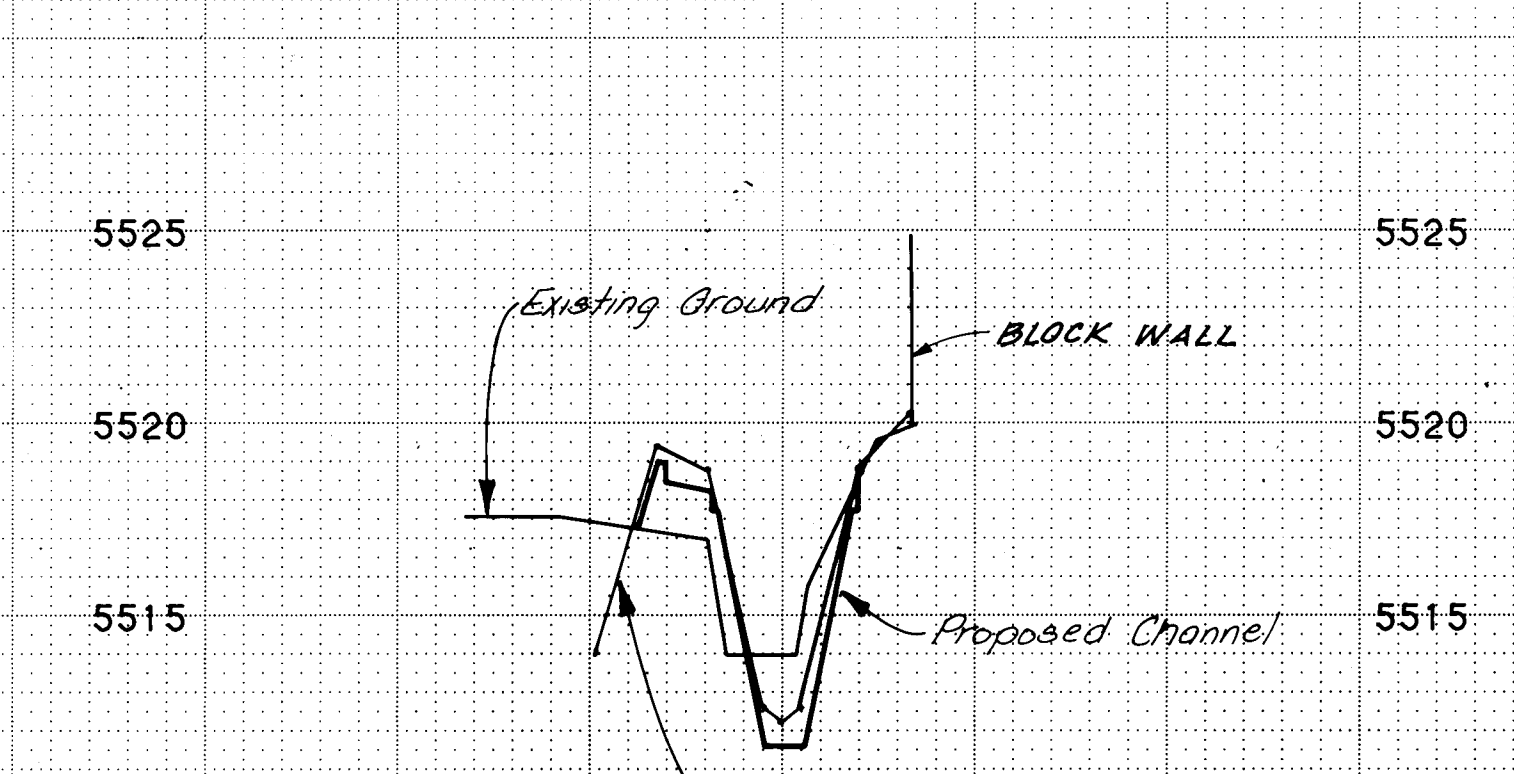
STATION 28+00.00



STATION 29+50.00



STATION 31+00.00



STATION 32+50.00

2 3 4 5 6 7 8 9 10 11
26 19302285

RECORD DRAWINGS
DATE 7/9/85

STA. 28+00.00 to STA. 33+50.00
BEAR ARROYO TRIBUTARY

PROJECT NO. 1930

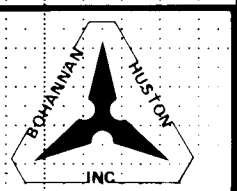
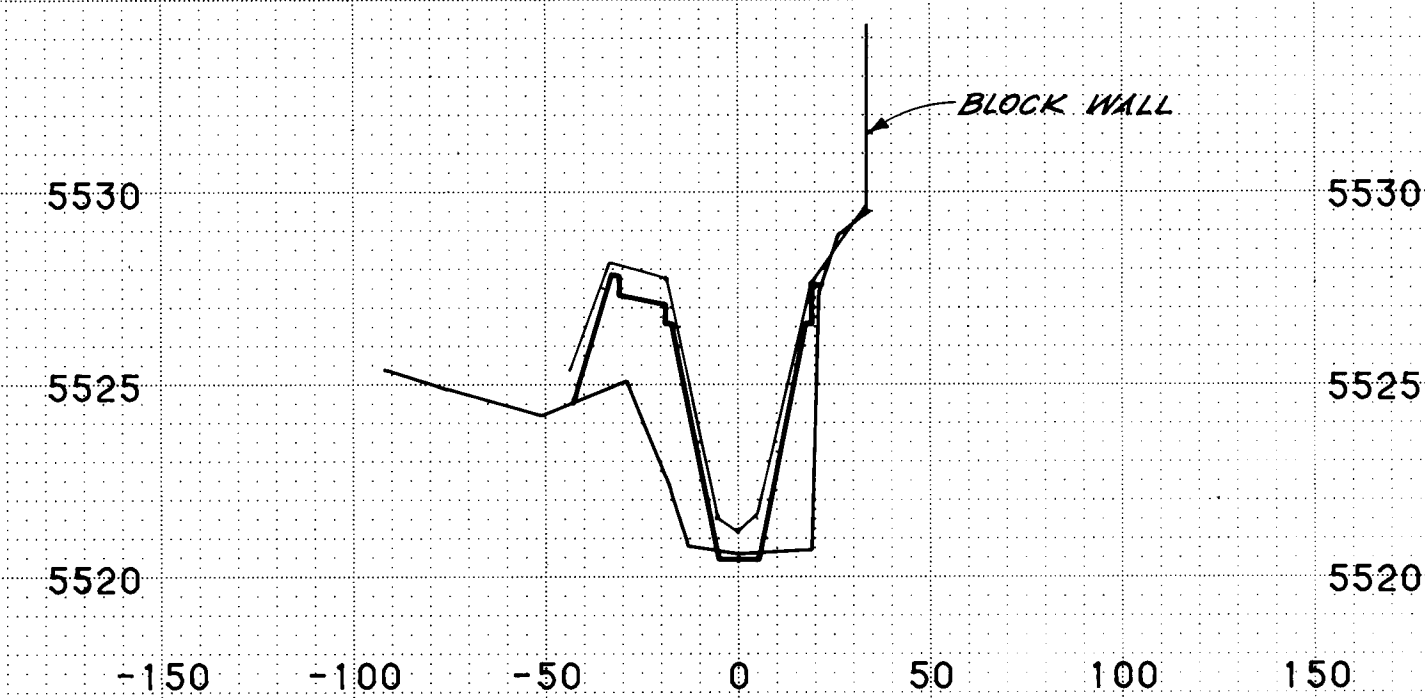


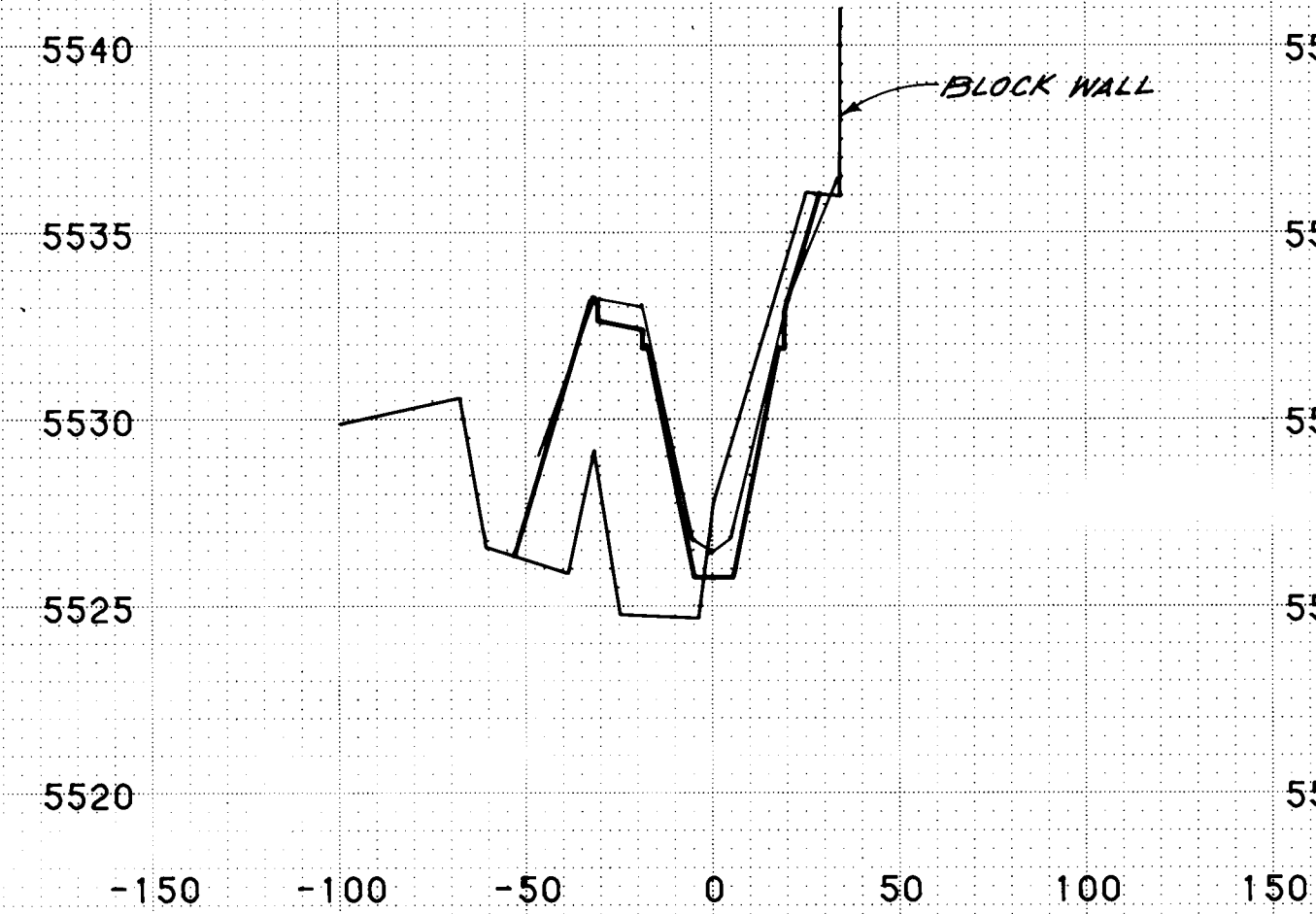
PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

DATE	
BY	
DESIGNED	
PLOTTED	
TEMPLATE	
NOTES	
AREAS CHECKED	
FINAL SURVEY	
NO.	

DATE	
BY	
DESIGNED	
PLOTTED	
TEMPLATE	
NOTES	
AREAS CHECKED	
ORIGINAL SURVEY	
NO.	



STATION 35+00.00



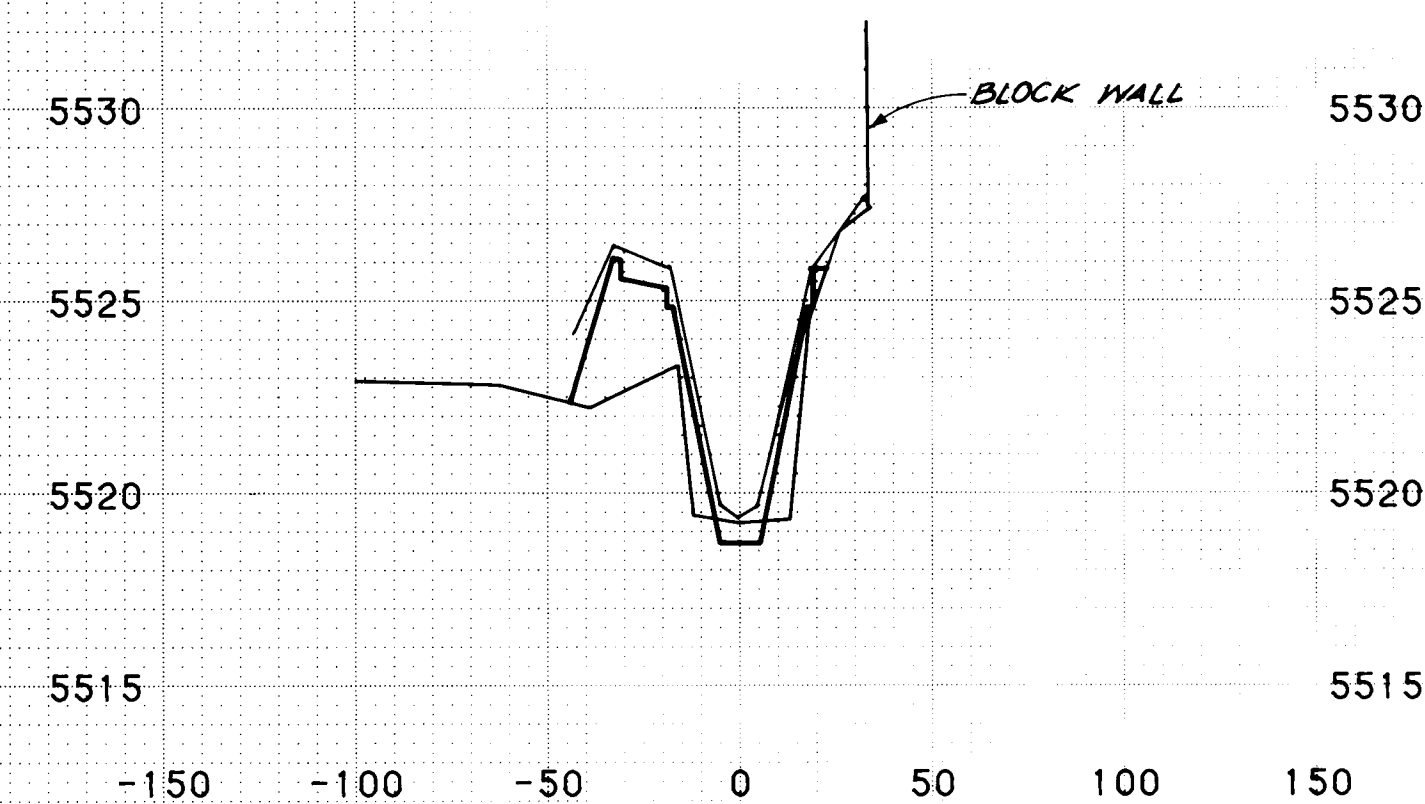
STATION 36+50.00



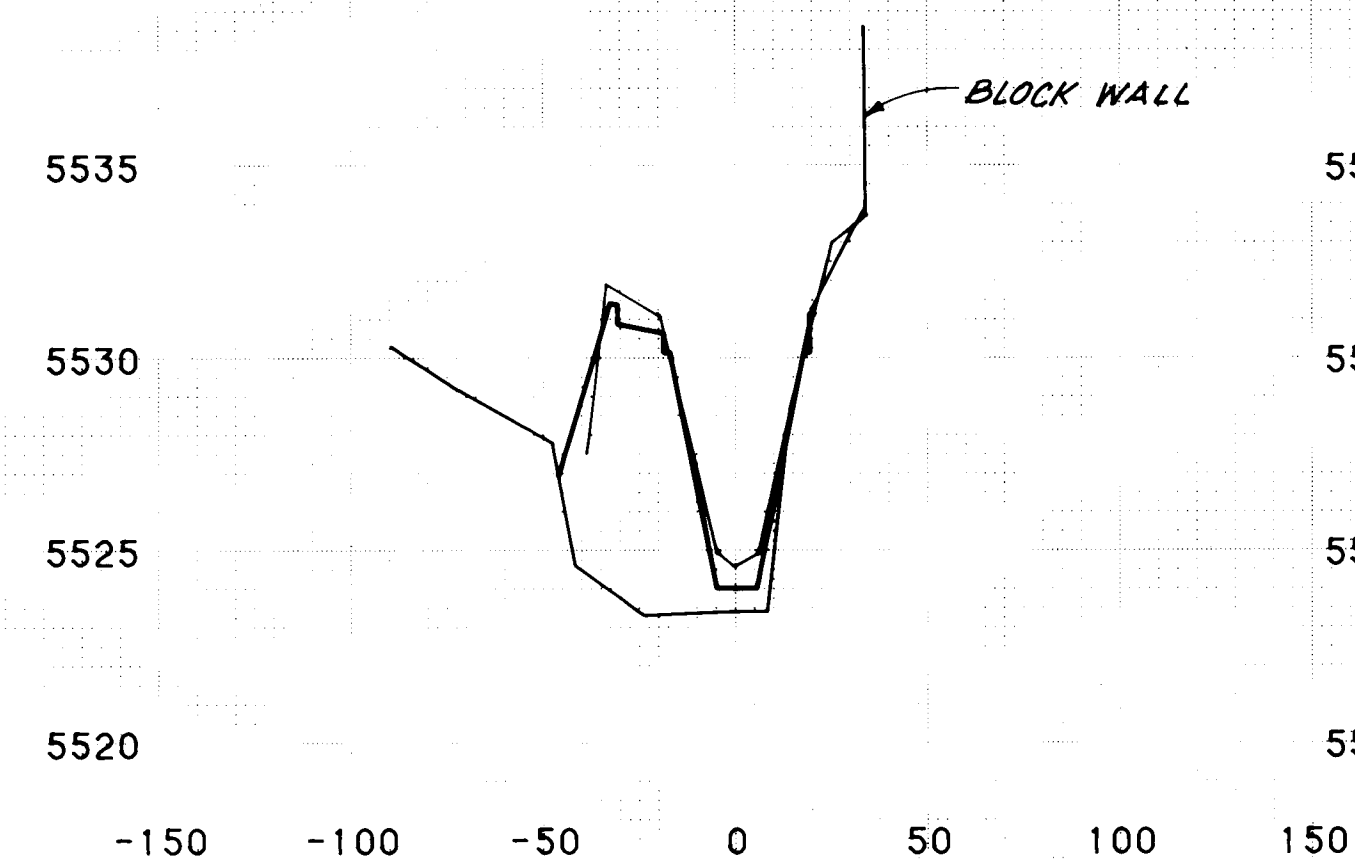
STATION 38+00.00



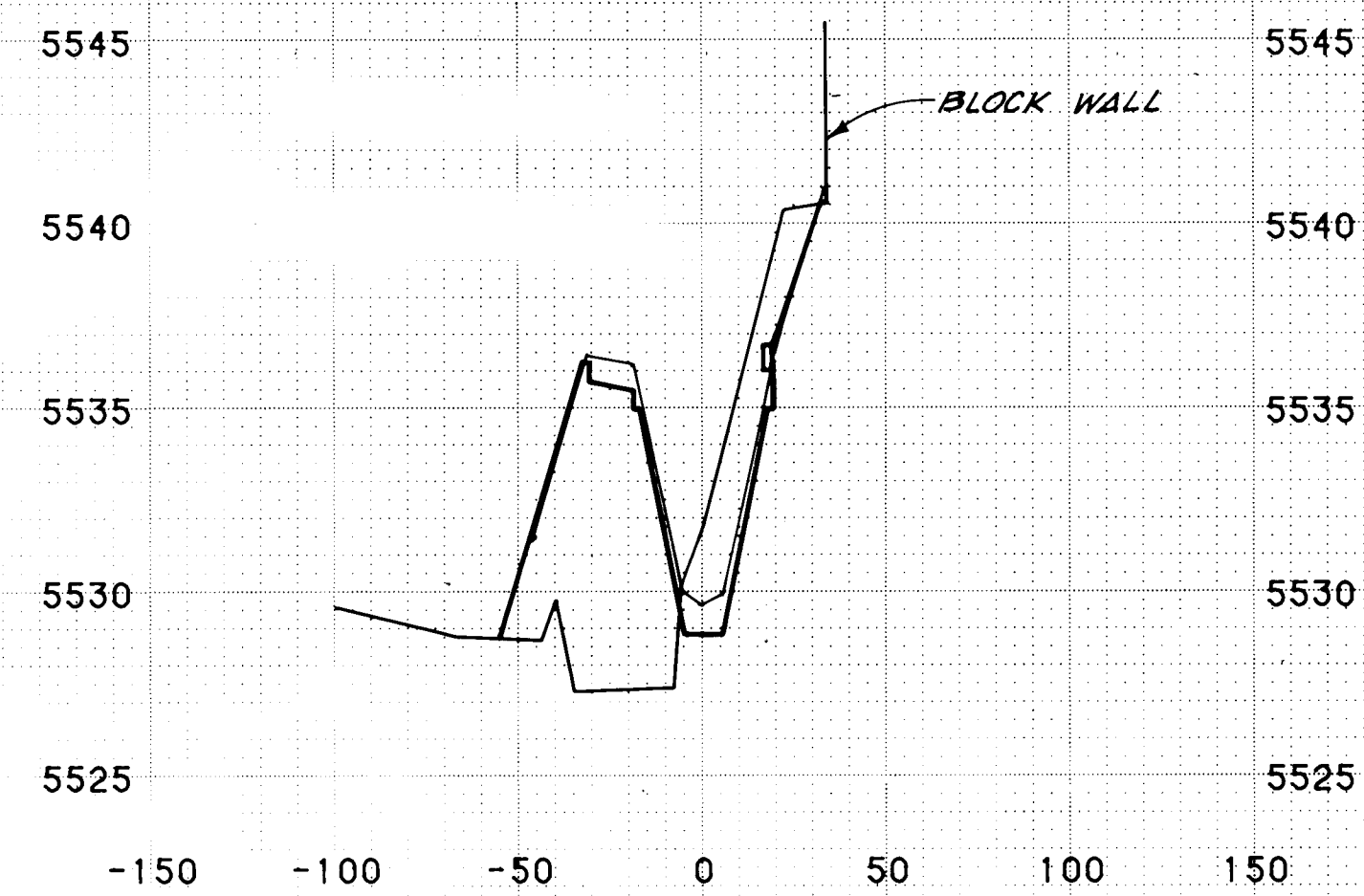
STATION 39+50.00



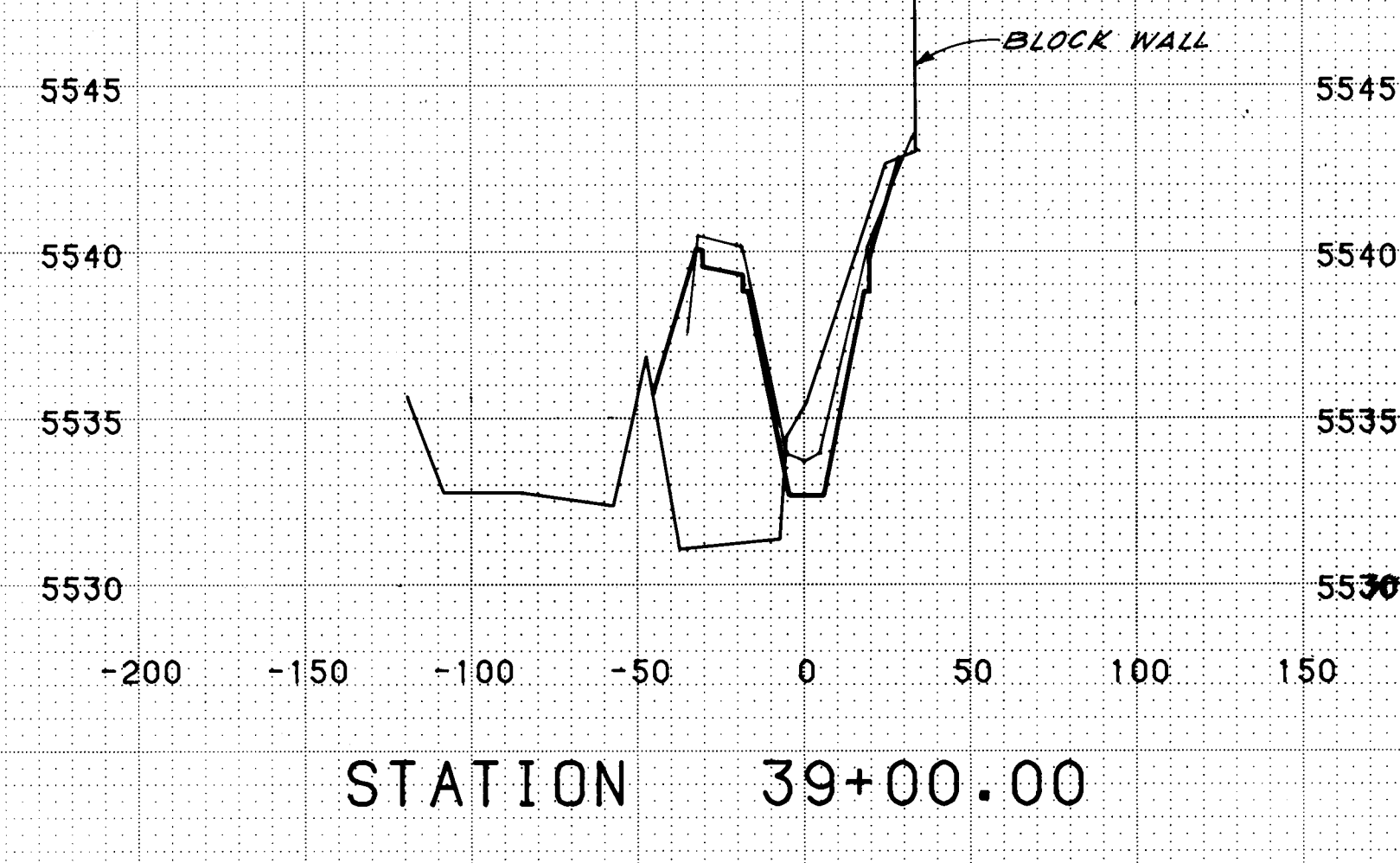
STATION 34+50.00



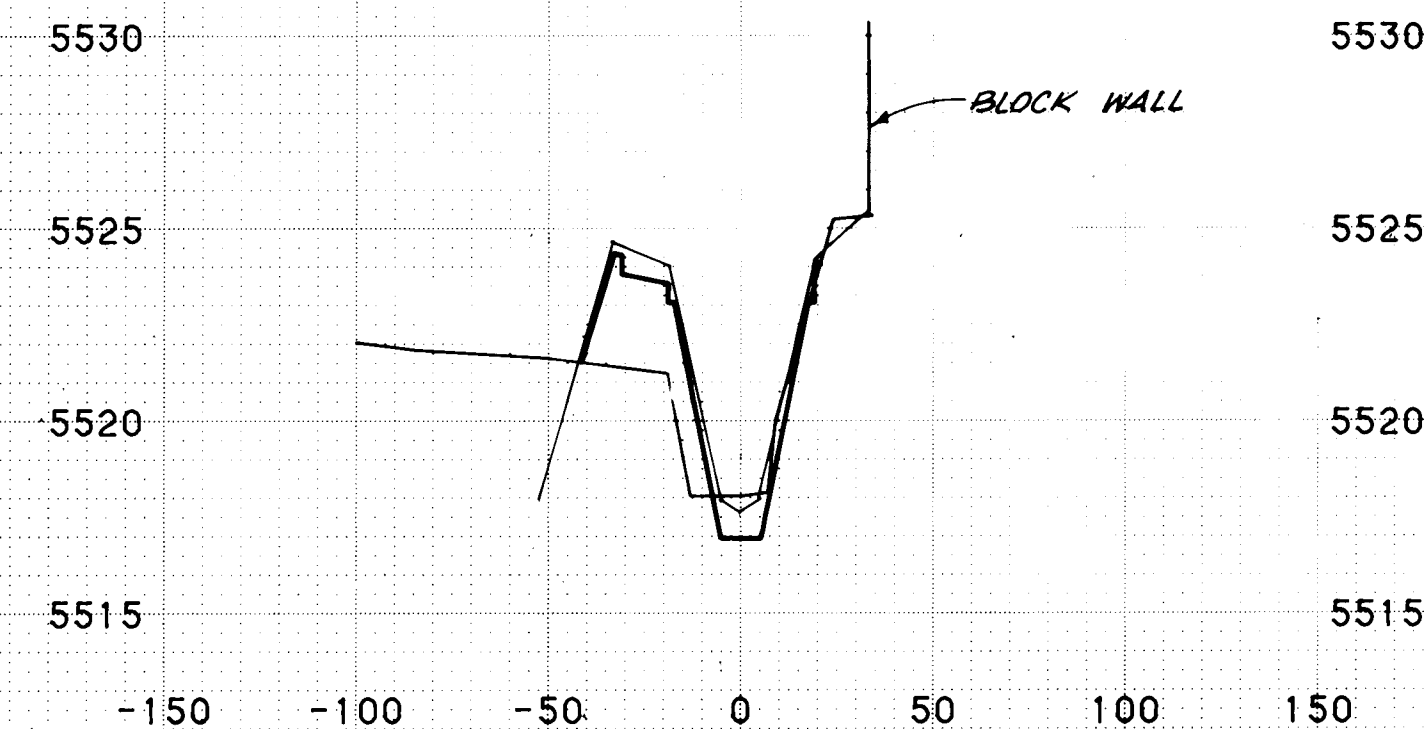
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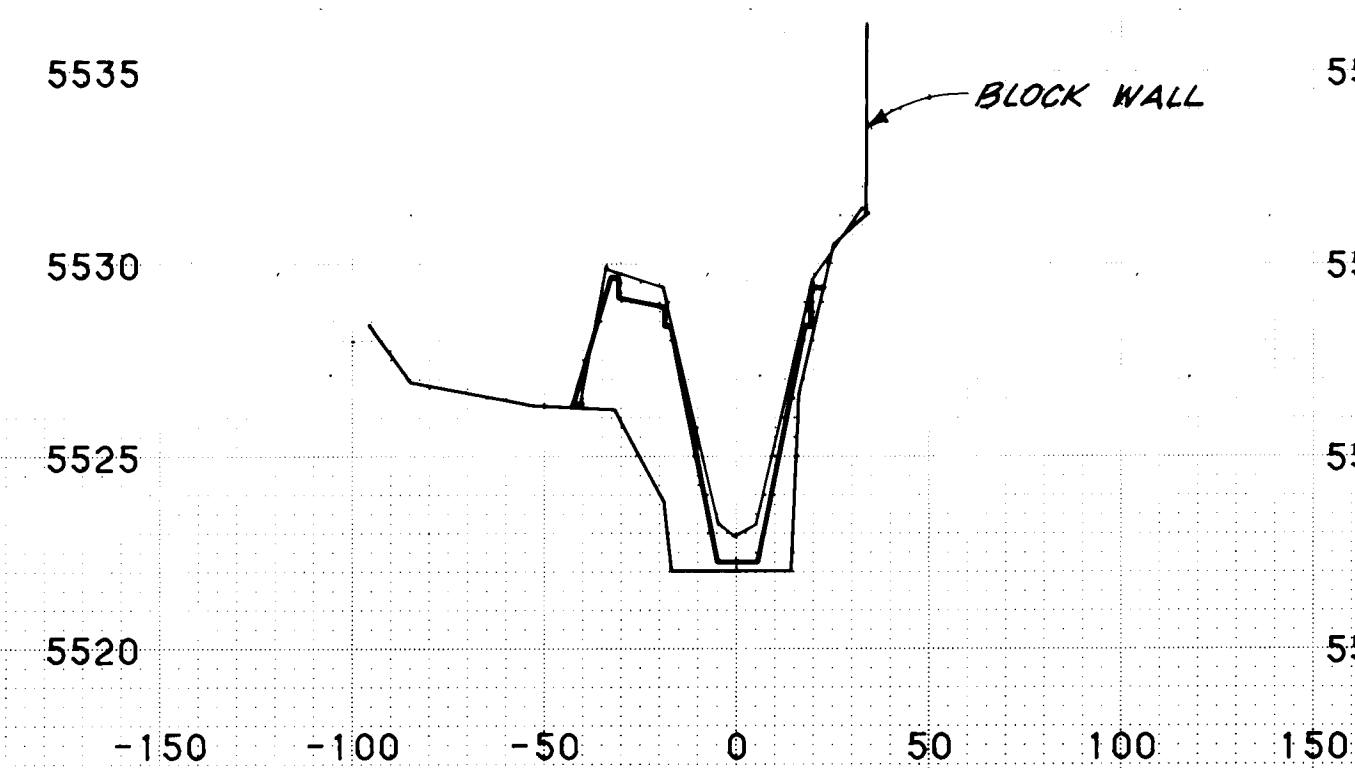
STATION 37+50.00



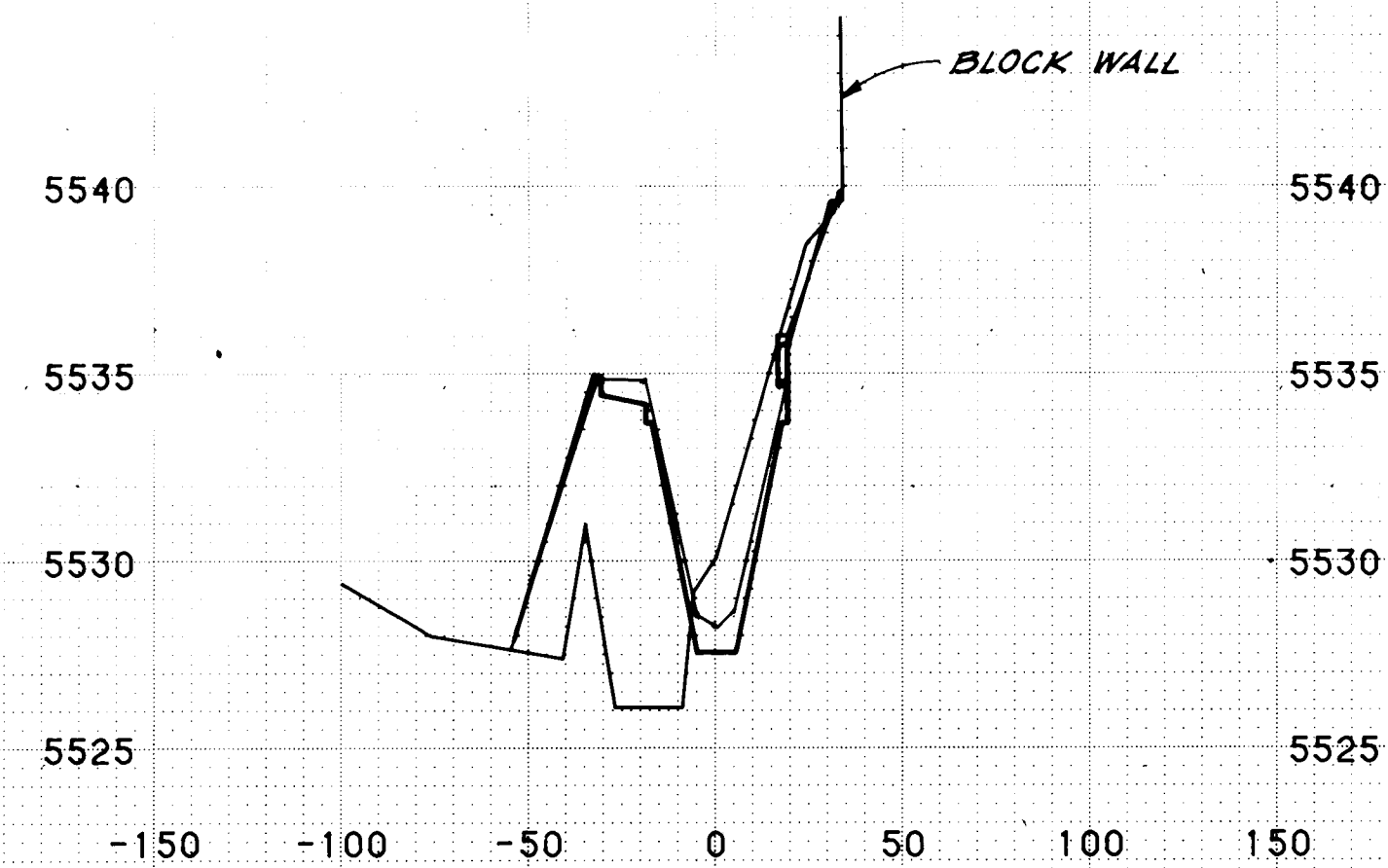
STATION 39+00.00



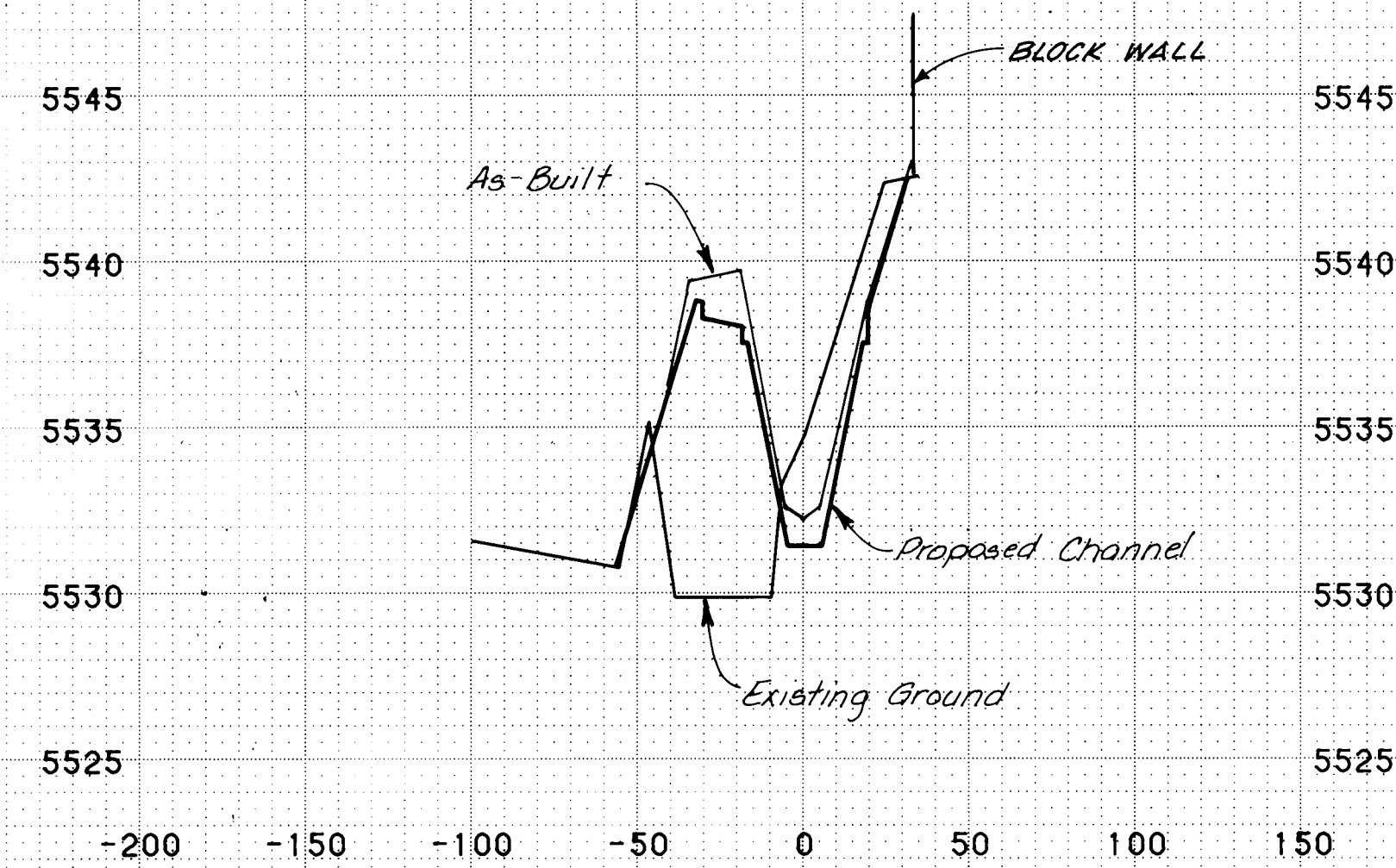
STATION 34+00.00



STATION 35+50.00



STATION 37+00.00



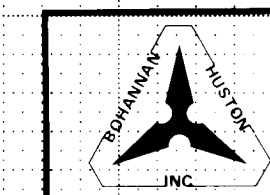
STATION 38+50.00

2 6 1 9 3 0 2 3 8 5 1

RECORD DRAWINGS
DATE 7/10/85 WJR

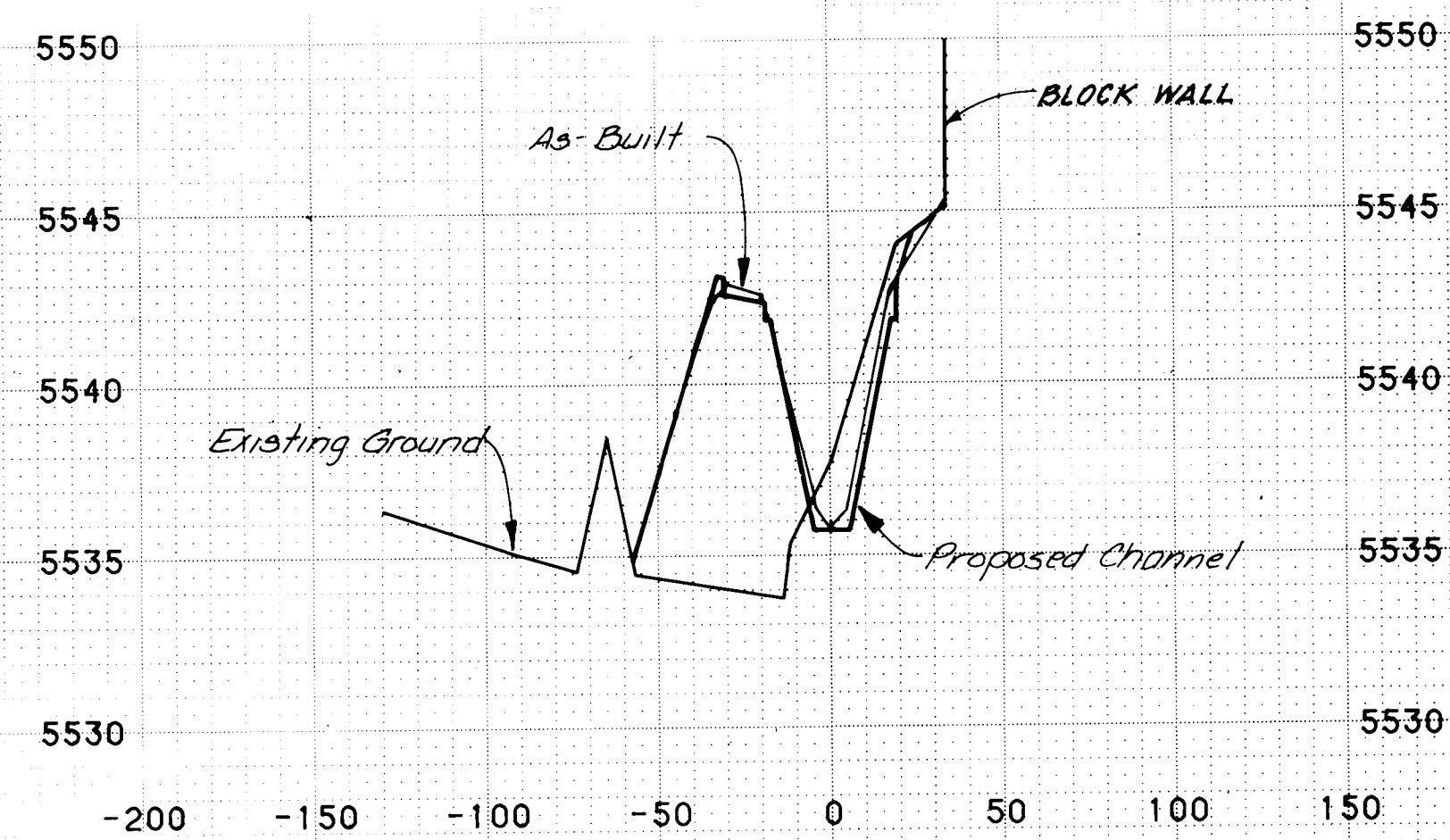
STA. 34+00.00 to STA. 39+50.00
BEAR ARROYO TRIBUTARY

PROJECT NO. 1930



FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	AREAS CHECKED	



STATION 40+14.64

DATE 7/9/85

26119302485

STA. 40+14.64
BEAR ARROYO TRIBUTARY

PROJECT NO. 1930

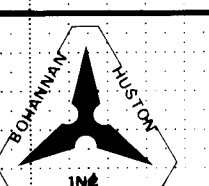


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.