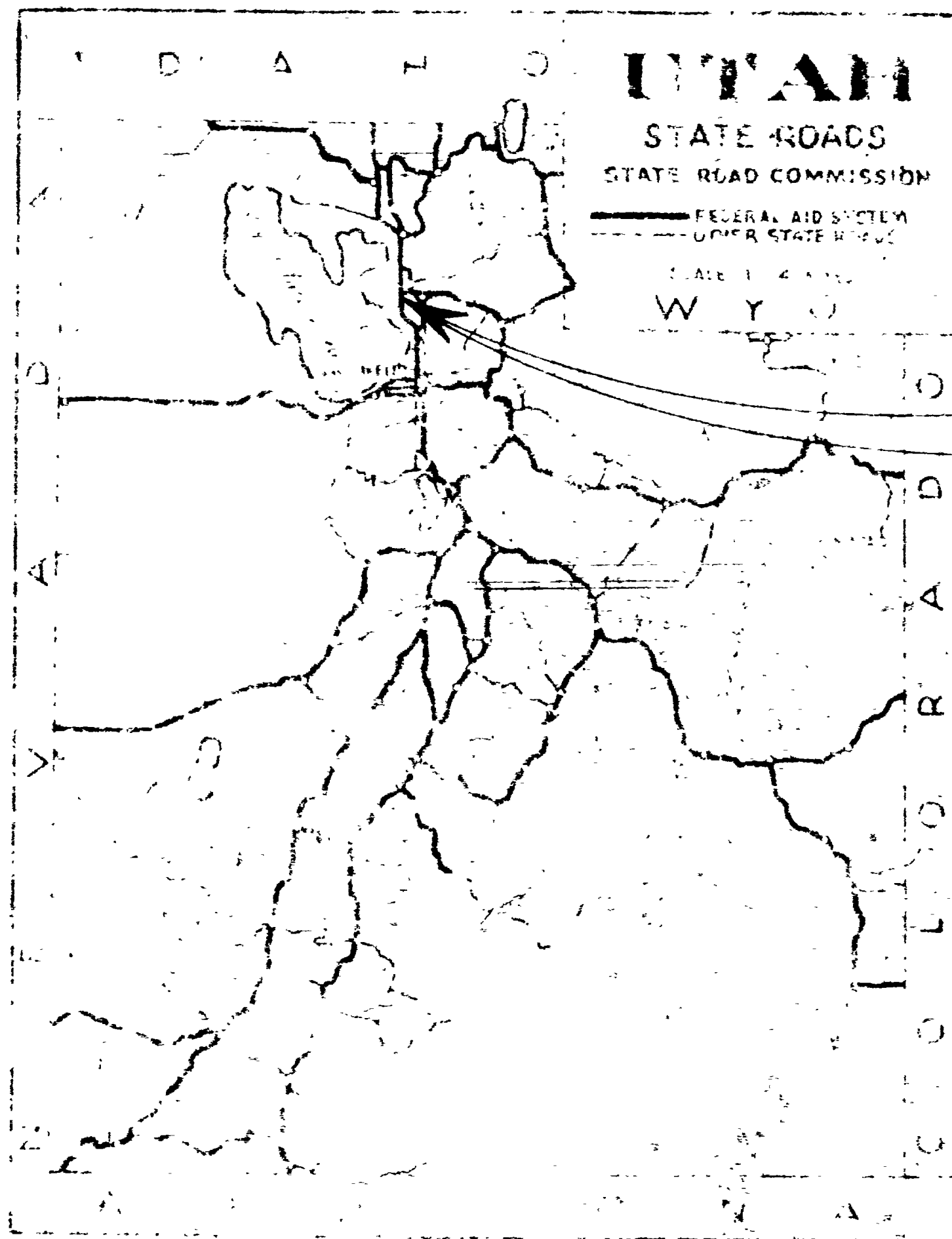


AS CONSTRUCTED PLAN

STATE OF UTAH STATE ROAD COMMISSION

UTAH STATE DEPARTMENT OF HIGHWAYS
1-15-7(41) 331
1-15-7(45) 332
1-15-8(12) 334
(FIRST CONTRACT)



I-15-7(41) 331
I-15-7(45) 332
I-15-8(12) 334

PLANS OF PROPOSED STATE ROAD

FEDERAL AID PROJECT

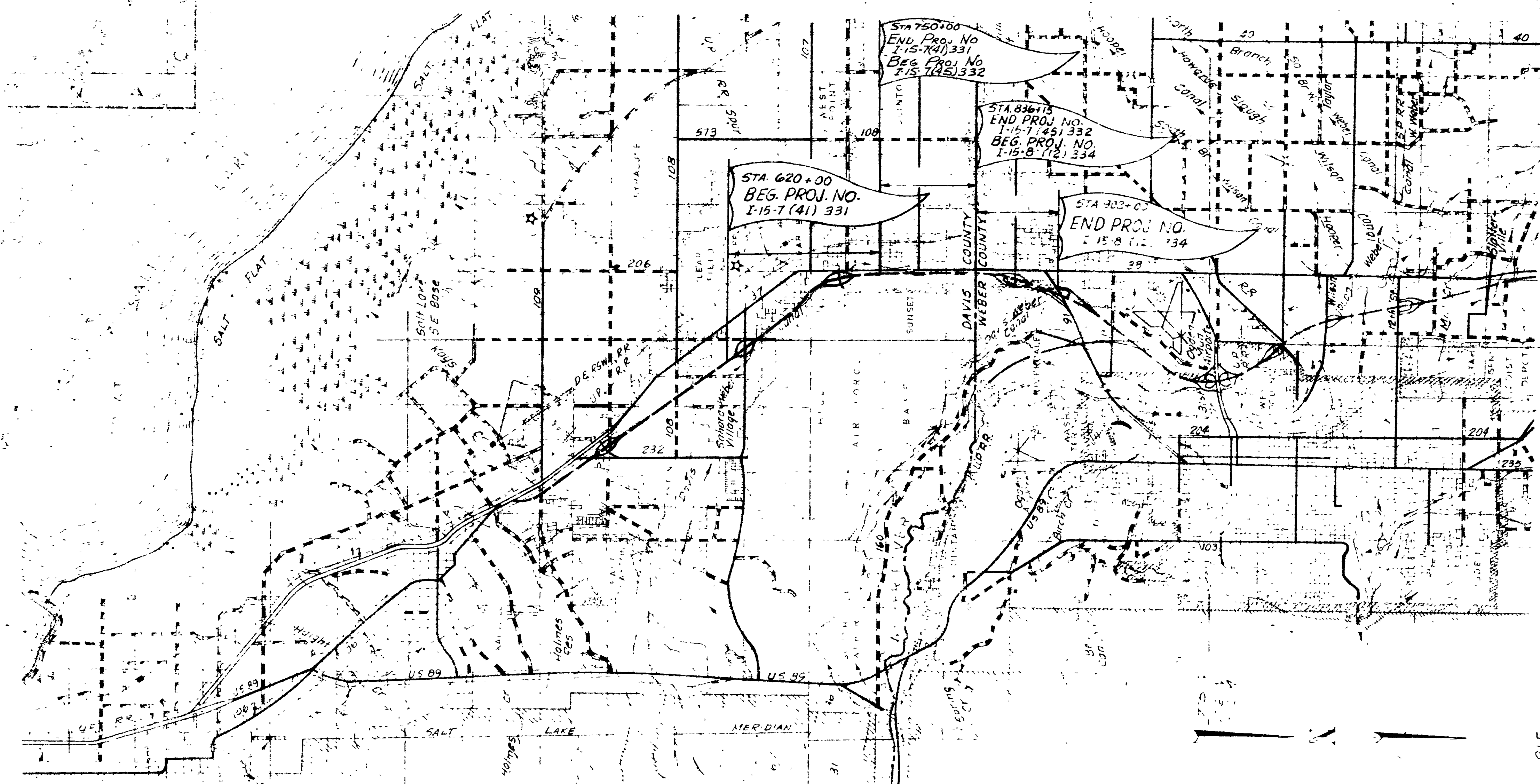
I-15-7 (41) 331
700 SO. ST. — WEST GATE HILL AIR FORCE BASE
DAVIS COUNTY

I-15-7 (45) 332
WEST GATE HILL AIR FORCE BASE — WEBER CO. LINE
DAVIS COUNTY

I-15-8 (12) 334
WEBER CO. LINE RIVERDALE ROAD
WEBER COUNTY

INDEX TO SHEETS

NO.	DESCRIPTION	NO.	NO.
1	TITLE SHEET		
2-10	TYPICAL SECTIONS		
3-34	SUMMARY SHEETS		
4-16	PLAN & PROFILE		
17	DETAIL OF MEASURING BOX		
18	STANDARD FOR MARSHALL FLUME		
19-20	DETAIL OF CONSTANT HEAD ORIFICE		
21-28	CONCRETE BOX	E 1340E41	660+10.5
29-37	CONCRETE BOX	E 1342E43	781+80
38-40	CONCRETE BOX "N" LINE	E 1345	81+62
41-42	CONCRETE BOX "V" LINE	E 1346	13+50
43-44	CONCRETE BOX	E 1347	648+75.0
45	CONCRETE BOX	E 1348	648+91
46-48	STANDARD HIGHWAY SIGNS	895-123	
49	STANDARD CONC. END SECT.	B-168-1	
50	CHAIN LINK FENCE	523	
51	CONSTRUCTION IDENT. SIGNS	504	
52	STANDARD FOR SUPERELEVATION	202	
53	DIVERSION BOX	V-785	884 E
54	CLEANOUT BOXES	V-777	
55	CLEANOUT BOX	V-776	889



UTAH STATE DEPARTMENT OF HIGHWAYS
RECOMMENDED FOR APPROVAL DEC. 1962
Blaine J. Kay
CHIEF DESIGN ENGINEER
RECOMMENDED FOR APPROVAL DEC. 1962
R. J. Ballard
DEPUTY DIRECTOR FOR ENGINEERING
APPROVED DEC. 1962
W. Taylor Burton
DIRECTOR OF HIGHWAYS

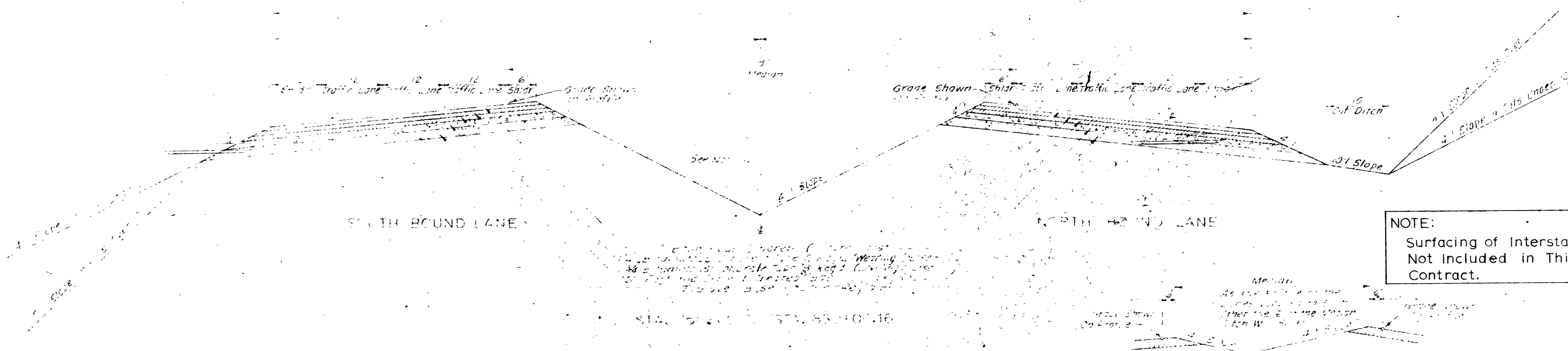
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

TYPICAL SECTIONS

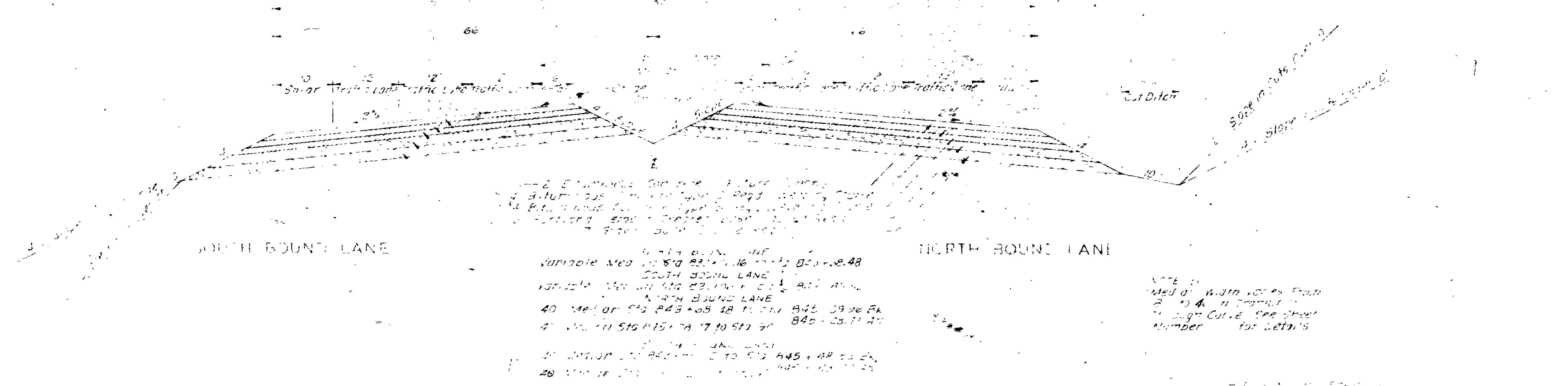
DATE: 7/15/31
 DRAWN BY: J. A. [unclear]
 CHECKED BY: [unclear]

FIRST CONTRACT

NO. 1



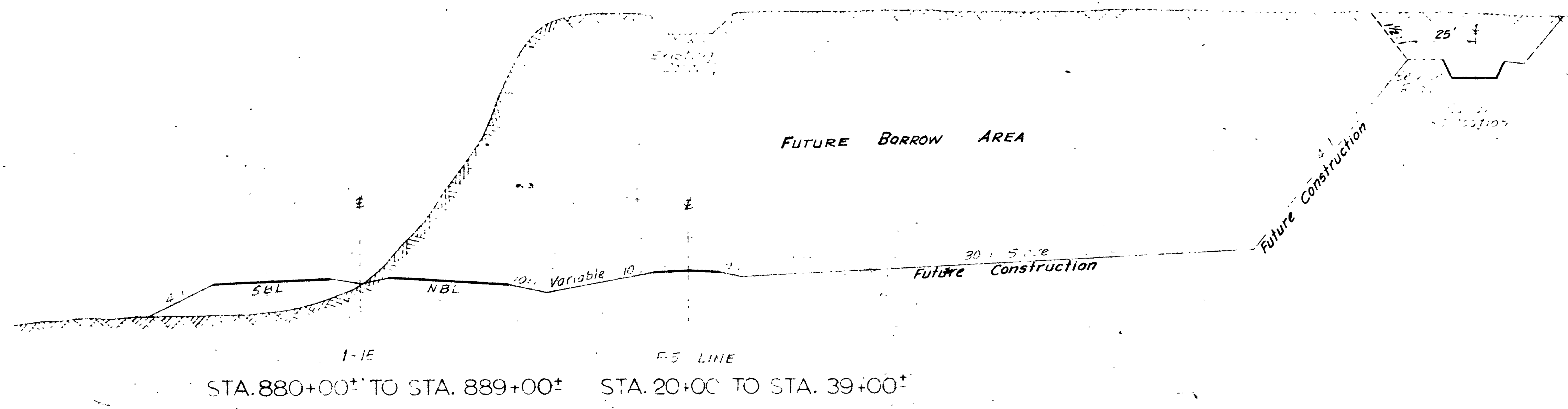
NO. 2



Variable Med. 10' 8" 22.16 16 22.16 8.48
 SOUTH BOUND LANE
 Variable Med. 10' 8" 22.16 16 22.16 8.48
 NORTH BOUND LANE
 40' Med. of 510 243 +05 18 11 511 9-16 39 26 EX
 41' Med. of 510 243 +05 18 11 511 9-16 39 26 EX
 39' Med. of 510 243 +05 18 11 511 9-16 39 26 EX
 28' Med. of 510 243 +05 18 11 511 9-16 39 26 EX

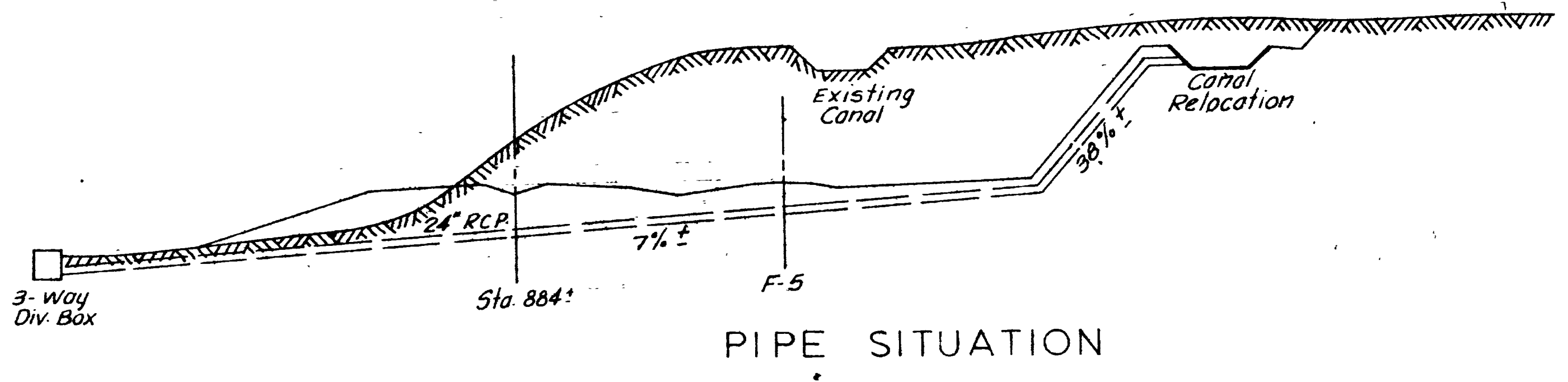
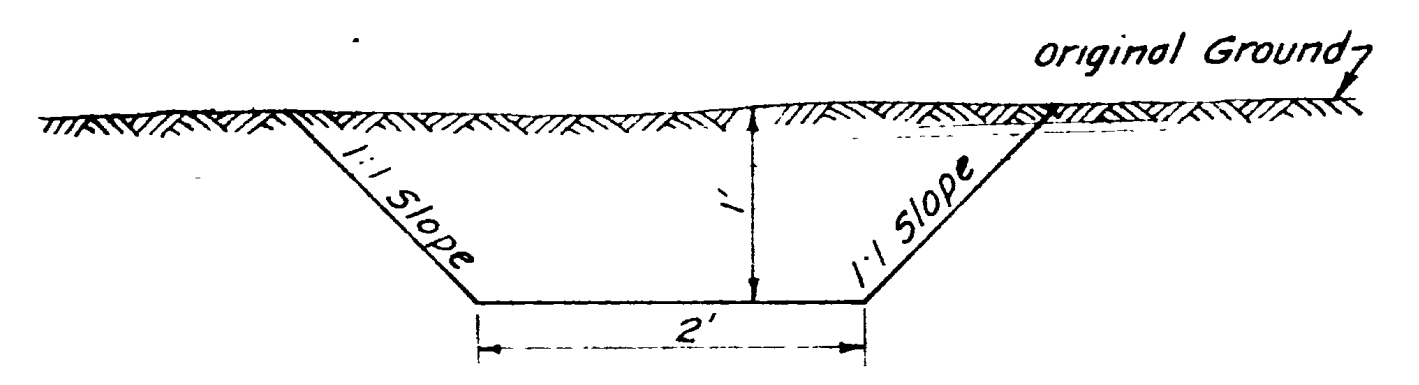
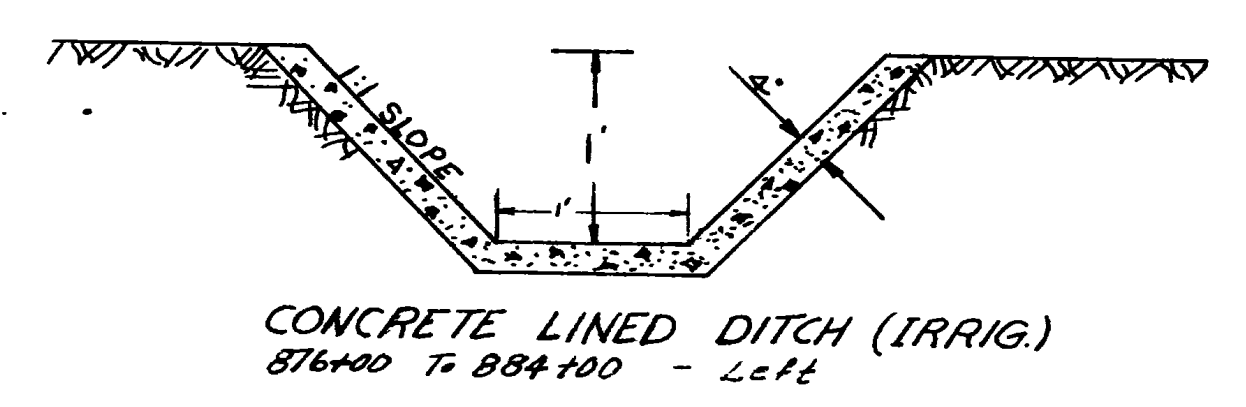
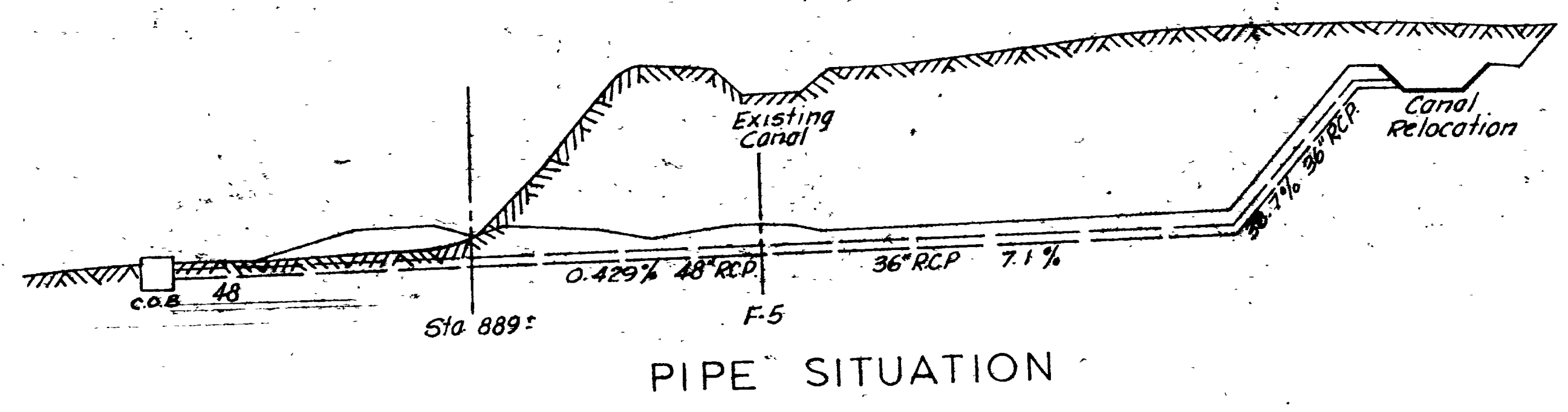
NOTE: Med. of 10' 8" 22.16 16 22.16 8.48
 2' 10" 4' 11' 22.16 16 22.16 8.48
 1' 10" 4' 11' 22.16 16 22.16 8.48
 Number for Details

REVISIONS
 DATE: 7/15/31
 BY: [unclear]

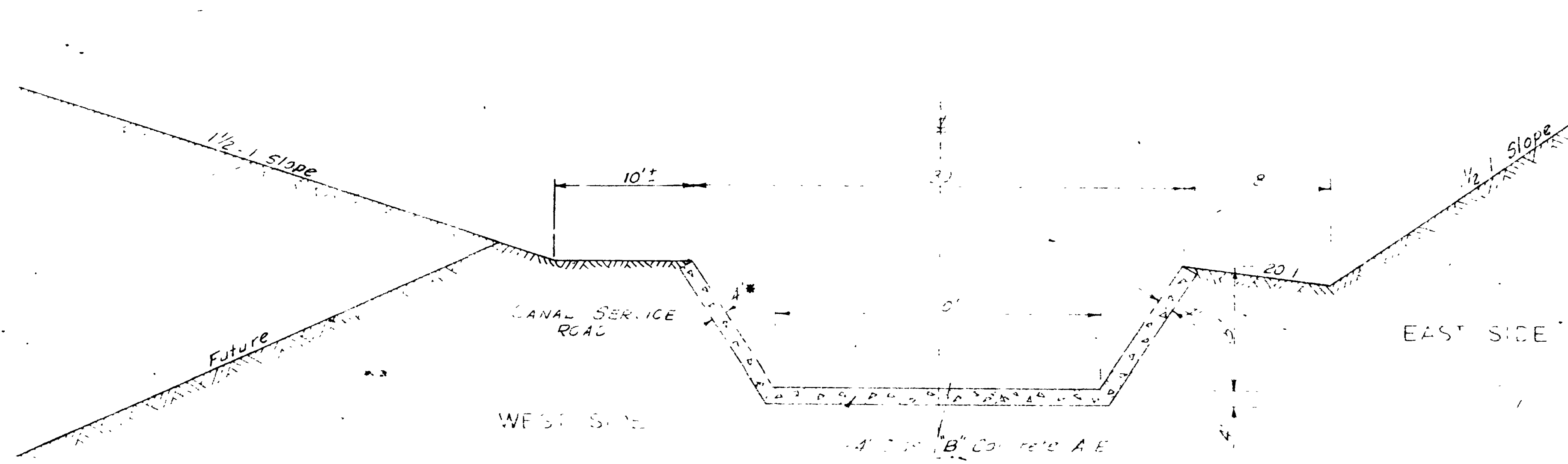


NOTE:
 Material Excavated From
 the Canal Relocation Area
 That is Suitable for Surfacing
 Will be Stockpiled as Directed
 By the Project Engineer.

TYPICAL SITUATION
 THROUGH BORROW AREA
 NORTHWEST CORNER OF
 HILL AIR FORCE BASE

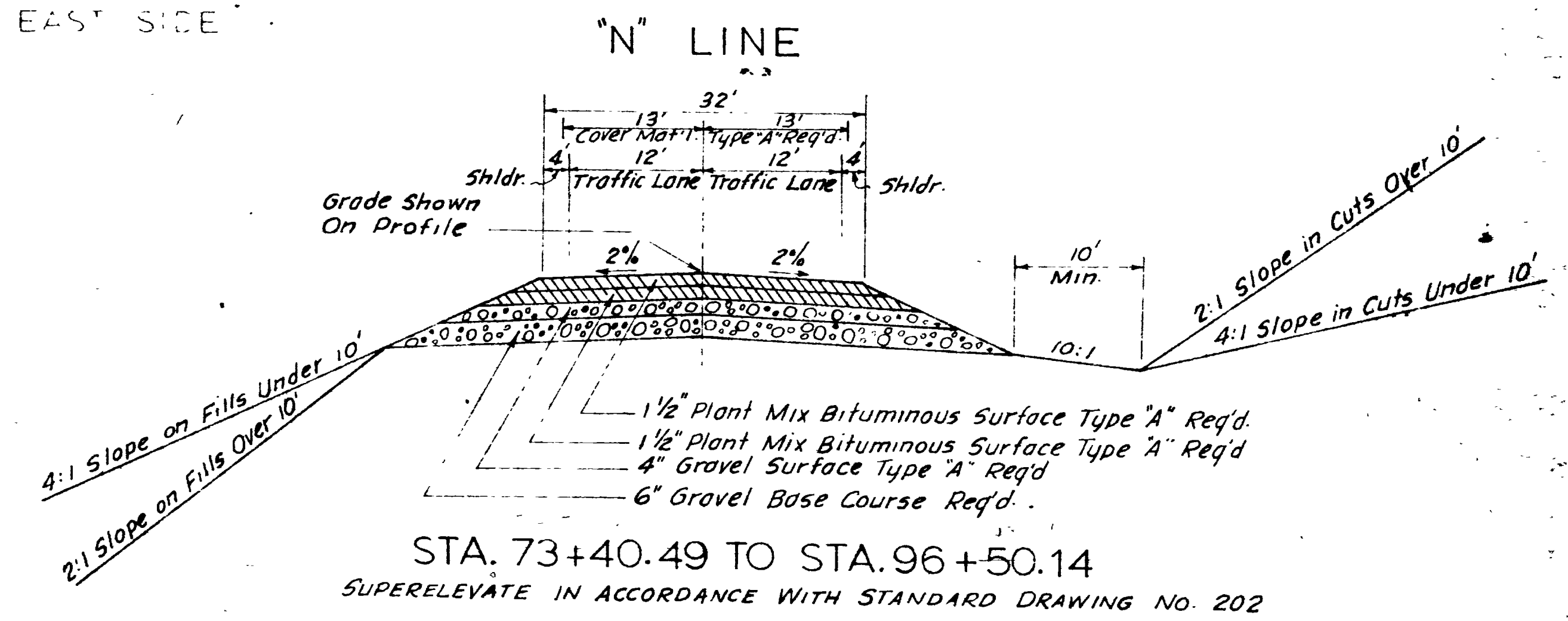


REVISIONS

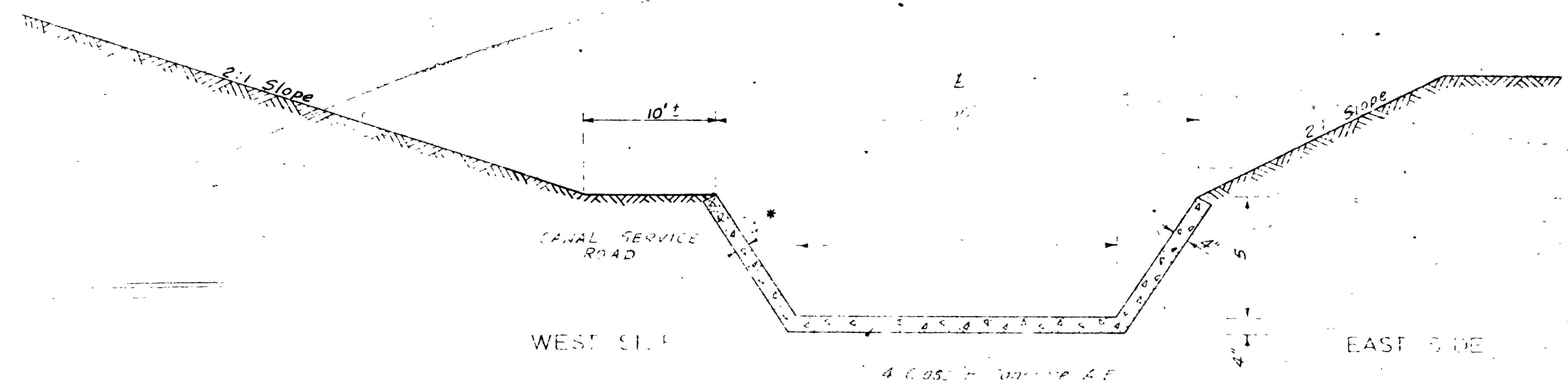


CROSS SECTION — DAVIS WEBER CANAL
STA. 10+00 TO STA. 35+66.58
NORTHWEST CORNER OF HILL FIELD
I-15-8 (12) 334

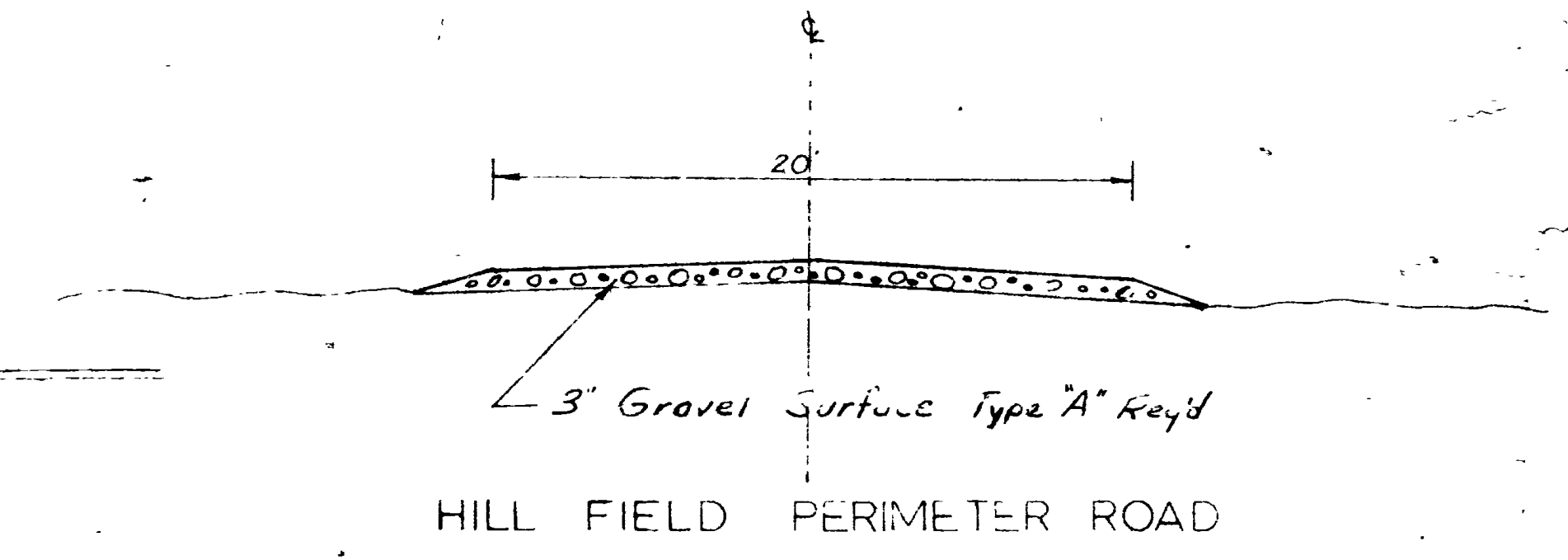
* NOTE:
If Connections are Made Under
Water (See Special Provisions) Place
#4 Bars in the Joints Between the
4" & 6" Concrete Sections as Directed
By the Project Engineer.



STA. 73+40.49 TO STA. 96+50.14
SUPERELEVATE IN ACCORDANCE WITH STANDARD DRAWING NO. 202



CROSS SECTION — DAVIS WEBER CANAL
STA. 10+00 TO STA. 24+14.27
I-15-7 (41) 331
STA. 10+00 TO STA. 66+19.96
I-15-7 (45) 332
I-15-8 (12) 334

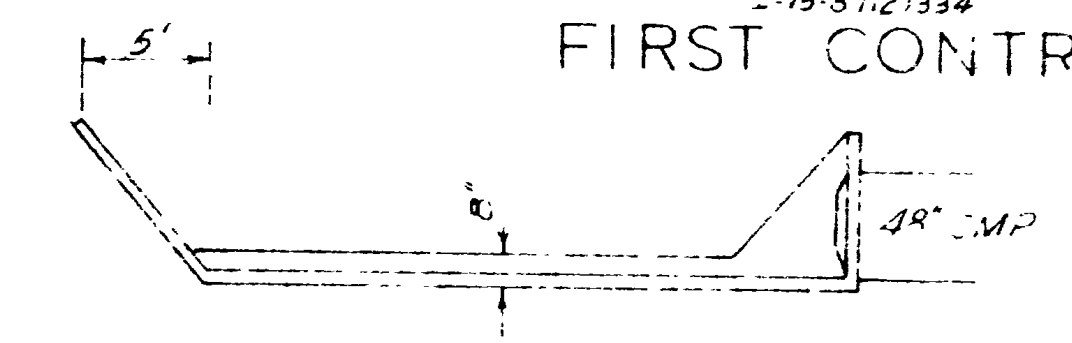


TYPICAL SECTIONS

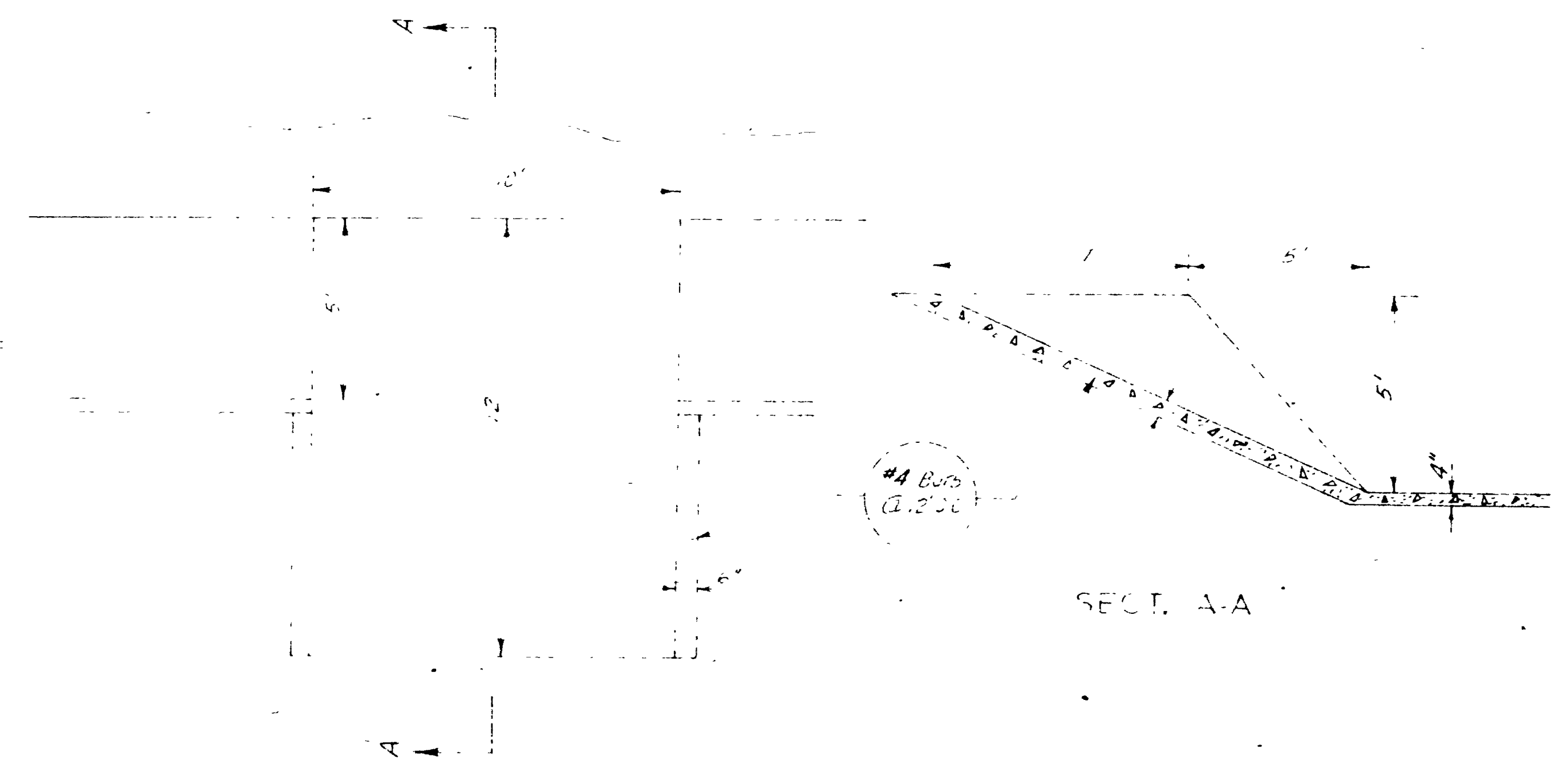
UTAH	UTAH	2-C
------	------	-----

2-15-71, 4/1337
2-15-71, 4/332
2-15-87, 2/334

FIRST CONTRACT



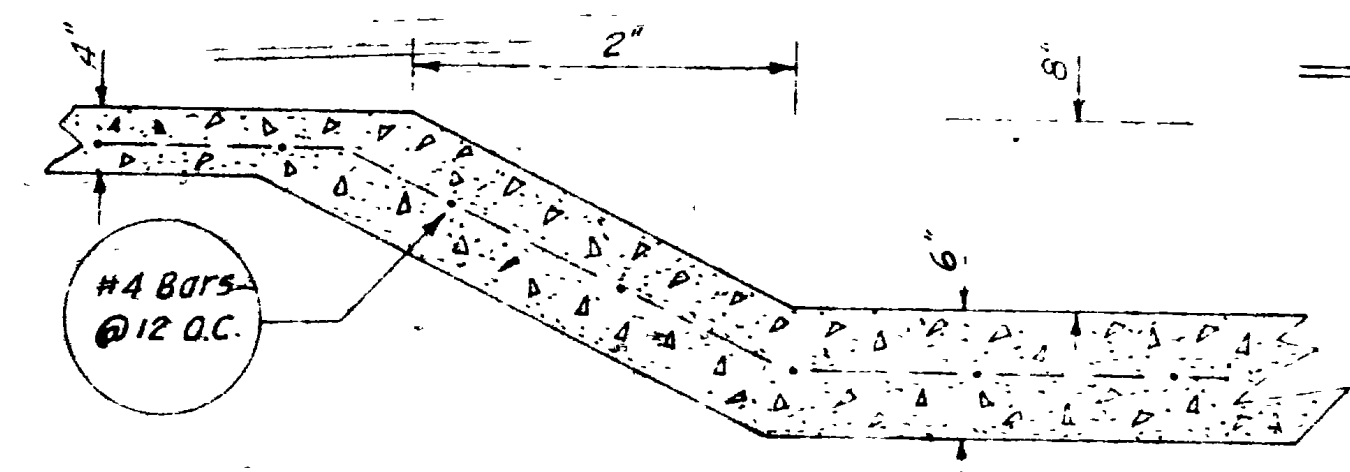
SECT. A-A



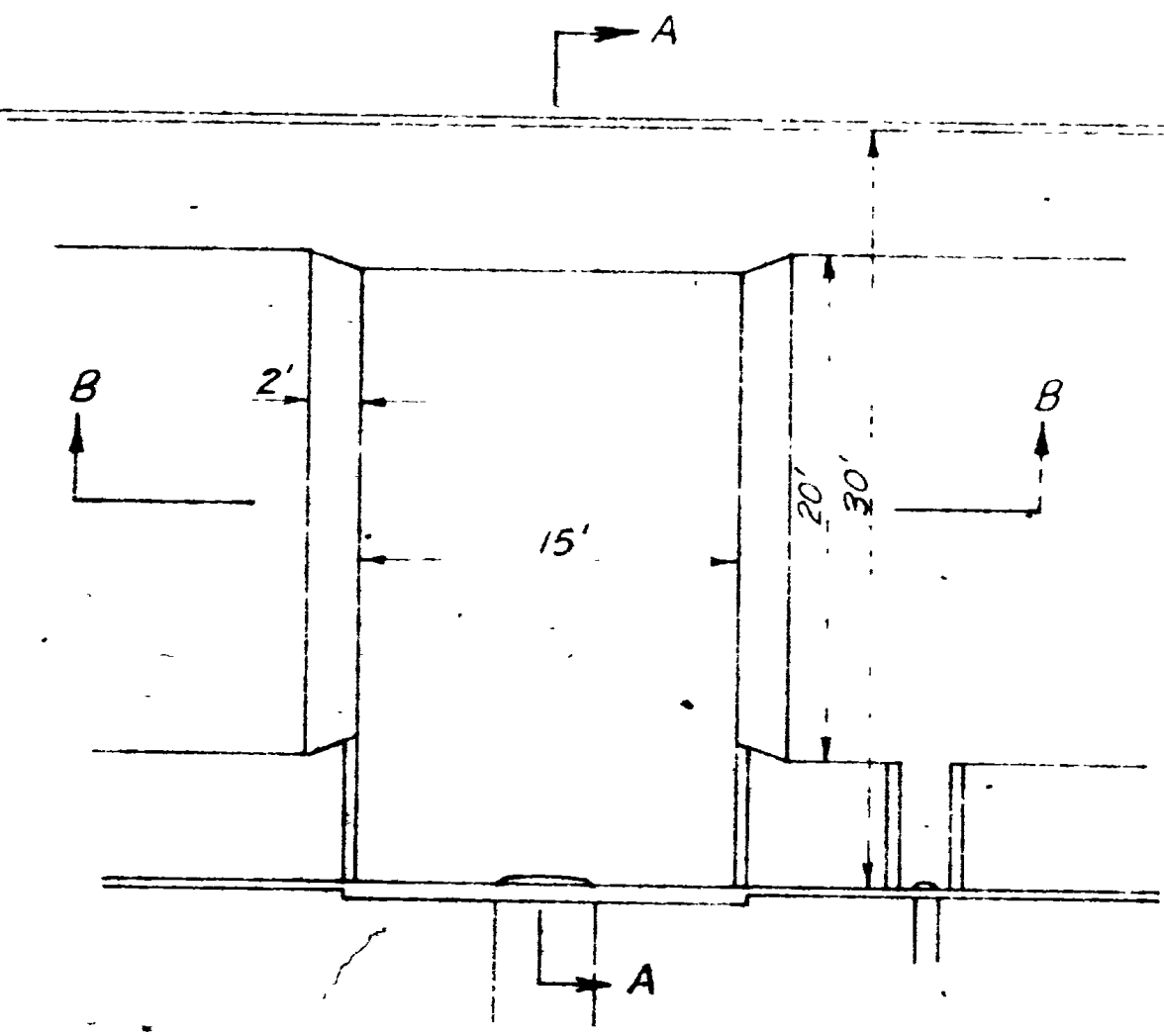
SECT. A-A

PLAN

MAINTENANCE EQUIPMENT CLEARANCE CRUISING
(SEE PLANS FOR LOCATION)

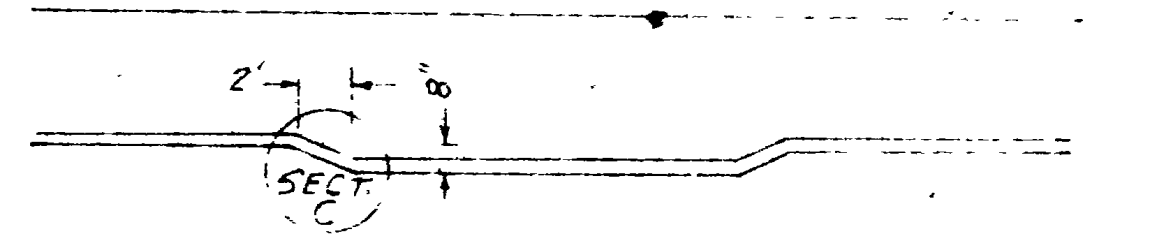


SECT. C



PLAN

STA. 648+9'
DEPRESSED IRRIGATION TURNOUT



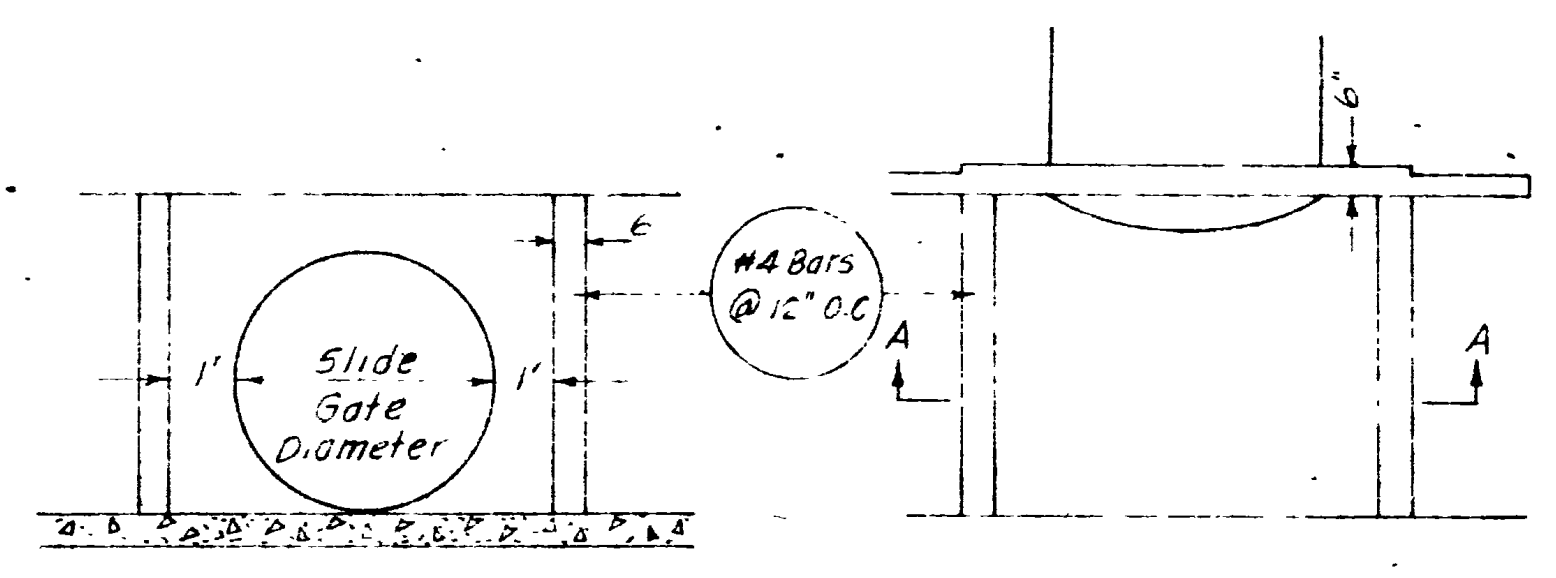
SECT. B-B



SECT. A-A

PLAN

STA. 604+1'
DEPRESSED IRRIGATION TURNOUT



SECT. A-A

PLAN

TYPICAL IRRIGATION TURNOUT
(SEE PLANS FOR LOCATION)

SUMMARY SHEET

SURFACING

LINE STA TO STA	TYPICAL SECTION NUMBER	LENGTH FEET	GRAVEL MATERIAL										BITUMINOUS MATERIAL																
			PLANT MIX BITUMINOUS TYPE "A"						COVER MATERIAL TYPE "C"		GRAVEL SURFACE TYPE "A"				GRAVEL BASE COURSE			RC-4 SEAL COAT		PENETRATION OIL TYPE 85-100		TACK COAT RC-1 OR RC-2		PRIME COAT MC-1 MC-2		BIT ADD. 1% RC-4			
			WEARING COURSE			LEVELING COURSE			W. TH	TONS	TYPE "A"			A.E. WIDTH	DEPTH	TONS	A.E. WIDTH	DEPTH	TONS	WIDTH	TONS	RATE OF APPLIC.	WEAR	LEVEL	WIDTH		TONS	WID	TONS
			AVE WIDTH	DEPTH	TONS	AVE WIDTH	DEPTH	TONS			AVE WIDTH	DEPTH	TONS																
I-15-7(41) 331 N-LINE 78+50.00 ~ 96+48.81		1,798.81	32.50'	1.5"	582.2	33.50'	1.5"	601.1	24'	30.3	35.33'	4"	1,662.7			38.66'	6"	2,284.8	24'	1.19	5%	27.60	27.82	36.50'	0.40		34.00'	9.54	3.80
N-LINE TEMP. CONNECTION 72+48.72 ~ 78+50.00		601.28	32.50'	1.5"	194.1	33.50'	1.5"	208.4	24'	9.8	35.33'	4"	498.5			38.66'	6"	700.0	24'	0.34	5%	5.12	5.21	36.50'	0.20	34.00'	4.40	1.92	
TOTAL					776.3			809.5		40.1			2,161.2					2,984.8		2.33		34.72	35.03		0.60		13.94	5.72	
USE					776.3			809.5		40.1			2,161.2					2,984.8		2.33		34.72	35.03		0.60		13.94	5.72	
I-15-8 (12) 334 RELOCATED PERIMETER RD.		2265.46									20'	3'	859.5																
TOTAL													859.5																
USE													859.5																
GRAND TOTAL					776.3			809.5		40.1			3,020.7					2,984.8		2.33		34.72	35.03		0.60		13.94	5.72	

LINEAR SUMMARY

PROJECT I-15-7(41) 331		PROJECT I-15-7(45) 332		PROJECT I-15-8 (12) 334	
STA. TO STA.	LENGTH	STA. TO STA.	LENGTH	STA. TO STA.	LENGTH
620+00 - 750+00	13,000	750+00 - 836+15	8615	836+15 - 902+00	6585
TOTAL LENGTH	13,000	TOTAL LENGTH	8615	TOTAL LENGTH	6585
MILES	2.462	MILES	1.632	MILES	1.247
CANAL 10+00 - 24+12.27	14,127	CANAL 9+85.37 - 36+20.00	5634.63	CANAL 9+74.56 - 35+67.37	2592.81
CANAL LENGTH FEET	14,127	CANAL LENGTH FEET	5634.63	CANAL LENGTH FEET	2592.81
MILES	0.268	MILES	1.066	MILES	0.491
MINUS STRUCTURES		MINUS STRUCT. 781+80	394.66		
STA 20+37.41 CANAL	35.78				
STA 660+10.13 I-15	74.48				
STRUCTURE TOTAL	110.26				
MILES	0.021				
TOTAL CANAL LENGTH	1302.01				
MILES	0.247				

MISCELLANEOUS

DESCRIPTION	UNIT	I-15-7 (41) 331		I-15-7 (45) 332		I-15-8 (12) 334		GRAND TOTAL
		TOTAL	USE	TOTAL	USE	TOTAL	USE	
Furnishing Const Signs	Lump	Lump	Lump	Lump	Lump	Lump	Lump	Lump
Removal of Trees	Each	32	32	27	27	60	60	119
Flagging	Man Hr	36.5	36.5			28.25	28.25	64.75
Rolling Pneumatic Tired Or Power Roller	Hour	27	27			5	5	32
Watering	M Gal	185.8	185.8	125.0	125.0	1017	1017	1327.8
Furnishing Water Equip.	Lump	Lump	Lump	Lump	Lump	Lump	Lump	Lump
Small Ditch Excavation	Cu.Yd.	262.4	262.4					262.4
Surface Ditches	Lin.Ft.					721	721	721
Demolition of Buildings	Each			12	12			12
Obliteration of Foundations	Each			13	13			13
Mechanical Tamping	Hrs.	362.5	362.5	340.5	340.5	158	158	861
Conc. End Sections	Each					2	2	2

SUMMARY OF ITEMS

DESCRIPTION	UNIT	I-15-7(41) 331		I-15-7(45) 332		I-15-8(12) 334		TOTAL QUANTITY
		TOTAL	USE	TOTAL	USE	TOTAL	USE	
Furnishing Construction Signs	Lump	Lump	Lump	Lump	Lump	Lump	Lump	Lump
Removal of Trees	Each	32	32	27	27	60	60	119
Flagging	Man Hr	36.5	36.5			28.25	28.25	64.75
Unclass. Rowy Exc. Placed on Emb.	Cu.Yd.	19,953.8	7,800.0	96,887	126,640.8			
Excavation For Structures Unclass.	Cu.Yd.	3253.1	486.02	1917.5	10,030.8			
Mechanical Tamping	Hr	362.5	340.5	158	861			
Rolling Pneum. Tired or Power Roller	Hr	27.0		5	32			
Watering	M.Gal.	185.8	125.0	1017	1327.8			
Furnishing Water Equipment	Lump	Lump	Lump	Lump	Lump	Lump	Lump	Lump
6" Chain Link Fence	Lin.Ft.					2070	2070	2070
Rem. & Resetting 6" Chain Link Fence	Lin.Ft.	800	3000.0					3800
18" Reinforced Concrete Pipe	Lin.Ft.			1012.0	300	1312		
24" Reinforced Concrete Pipe	Lin.Ft.	996	1652.0		1658	4306		
36" Reinforced Concrete Pipe	Lin.Ft.				362	362		
48" Reinforced Concrete Pipe	Lin.Ft.				1102	1102		
48"x21" Corr Metal Pipe Arch	Lin.Ft.				366	366		
50"x31" Corr Metal Pipe Arch	Lin.Ft.				410	410		
8" Metal Slide Gate	Each		3		2	5		
12" Metal Slide Gate	Each		3		3	11		
18" Metal Slide Gate	Each				1	1		
24" Metal Slide Gate	Each				1	1		
24"x18" Metal Slide Gate	Each					0		
30"x24" Metal Slide Gate	Each				1	1		
48" Metal Slide Gate	Each		2			3		
24" Rein Concrete End Sections	Each				2	2		
4" Welded Steel Pipe	Lin.Ft.			840	2046	2886		
Gravel Base Course	Ton	2984.75				2984.75		
Bit. Material Type MC-1 or MC-2	Ton	13.94				13.94		
Bit. Material Type RC-1 or RC-2	Ton	0.60				0.60		
Gravel Surface Type "A"	Ton	2161.2			859.5	3020.7		
Bit. Material Type 85-100 Penet.	Ton	78.75				78.75		
Plant Mix Bit Surface Type "A"	Ton	1,527.77				1,527.77		
Bit. Material Type RC-4	Ton	2,326.5				2,326.5		
Cover Material Type "C"	Ton	40.1				40.1		
Bit Additive - Comm. Grade	Gal.	5.72				5.72		
Small Ditch Excavation	Cu.Yd.	262.4				262.4		
Surface Ditches	Lin.Ft.				721.0	721.0		
Demolition of Buildings	Lump	Lump	Lump	Lump	Lump	Lump	Lump	Lump
Reinforcing Steel	Lb.	16,364.7	4752.0	3612	24,727.7			
Structural Steel	Lb.	4,028.0	7828.0	3045	14,901			
Concrete Class "A" A.E.	Cu.Yd.	141.84	473	78.58	261.02			
Concrete Class "B" A.E.	Cu.Yd.	445.85	2257.78	1112.62	3916.45			
Unclass. Rowy Exc. (Stockpile)	Cu.Yd.		84,944.0	169,535				
Class "A" Overhaul	Sta Yd.			655,461	655,461			
Class "B" Overhaul	Sta Yd.			1,359	1,359			
48" Metal Parshall Flume	Each	2			2			
12" Concrete Pipe			508		2564.5	3072.5		
24" RCP Class IV					280.0	280.0		

REMOVE & RESET EXISTING 6" CHAIN LINK FENCE

PROJECT I-15-7(45) 332			
STA. TO STA.	LIN FT.	RT	
800+00 ~ 830+00	3000	RT.	
PROJECT I-15-7(41) 331			
East of 1000 E. St. South of 450 So. St. m Clearfield	800		
TOTAL	3800		

R/W FENCE

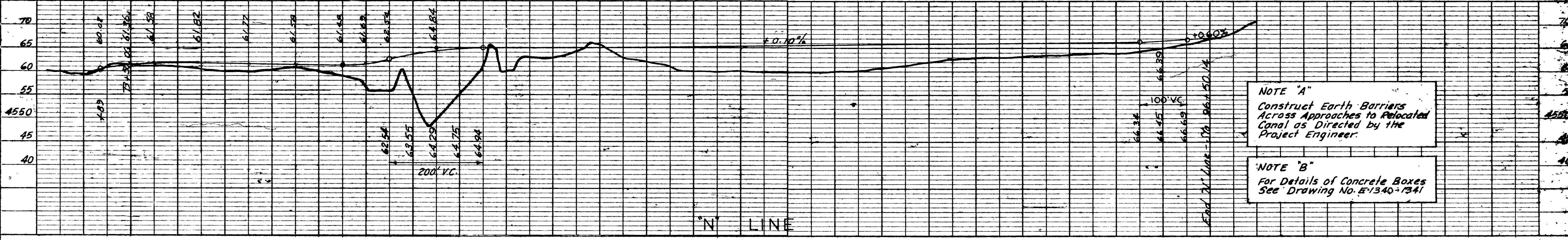
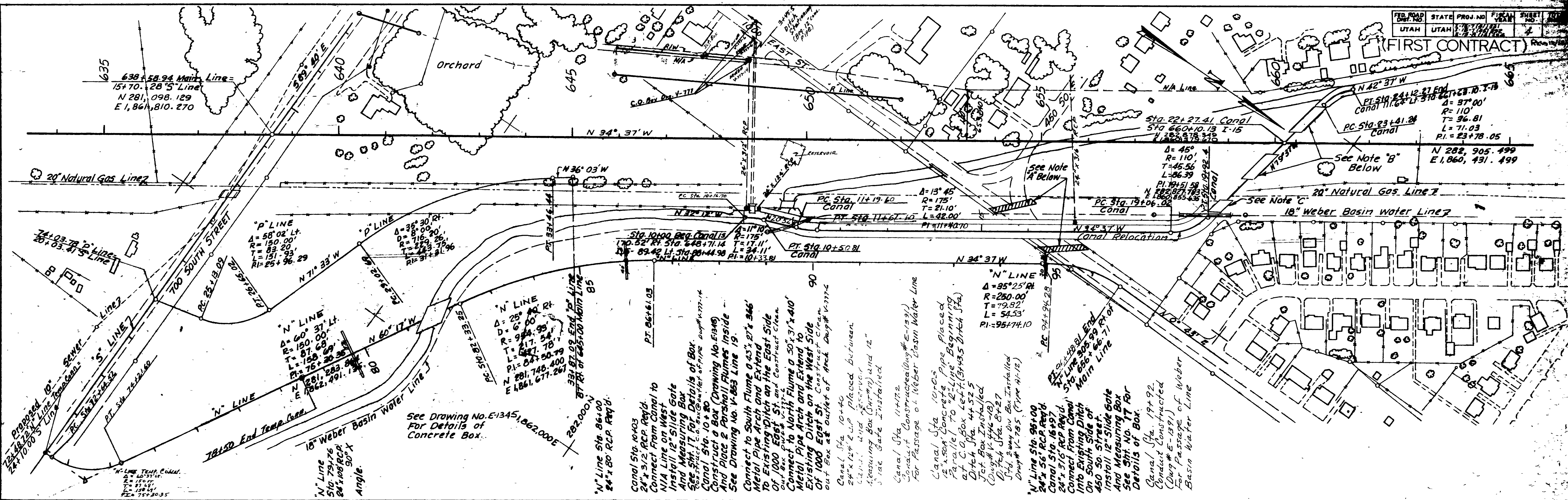
PROJECT I-15-7(41) 331			
PROJECT STA TO STA	LT	RT	
I-15-8 (12) 334 HILL FIELD PERIMETER 1070000 TO 32+65			2070
TOTAL			2070
USE			2070

EARTHWORK

PROJECT NO. STA. TO STA.	EMB CU YDS.	EMB X 1-2 FACTOR CU YDS.	EXC. CU YDS.	OVERHAUL		REMARKS
				CLASS "A"	CLASS "B"	
I-15-7(41) 331 72+69.00 - 96+47.86	12,343.3	14,811.96	2,876.8			Exc Used For Regd Emb on N-Line and I-15 Between Sta. 657-660
CANAL RELOCATION 10+00 - 24+12.27			9,150.0			
N LINE SIDE BORROW			7827.0			
TOTAL	12,343.3	14,811.96	19,953.8			
I-15-7 (45) 332 CANAL RELOCATION 10+00 - 36+40.77			94,371			Place Exc. on Interstate NB Lane
TOTAL			94,371			
USE			94,371			
I-15-8 (12) 334 CANAL RELOCATION 10+00 - 35+65.58	5508	6610	181,851	655,461	1359	Haul to CM 873 + 70 BUILD Fill From Sta 873 + 30.8 to Sta 885 + 00. Stock Pile Grad.
TOTAL	5508	6610	181,851	655,461	1359	
USE			181,851	655,461	1359	
GRAND TOTAL	17,851.3	21,421.96	296,175.8	655,461	1359	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED CHECKED	
	BY OF WAY CHECKED	
	NO	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHK'D.	
	NO	



GENERAL NOTE:
 This Contract Covers the Required Relocation of the Davis-Weber Canal And All Required Structures and Connections, The Complete Construction of the "N" Line From 700 South to 1000 East Street Including Drainage & Surfacing, and The Excavation and Placing of Embankment For a Structure Fill North of 5600 So. Street In Roy.

NOTE "A"
 Construct Earth Barriers Across Approaches to Relocated Canal as Directed by the Project Engineer.

NOTE "B"
 For Details of Concrete Boxes See Drawing No. E-1340-1341

NOTE "C"
 For Details of Concrete Box See Drawing No. E-1341

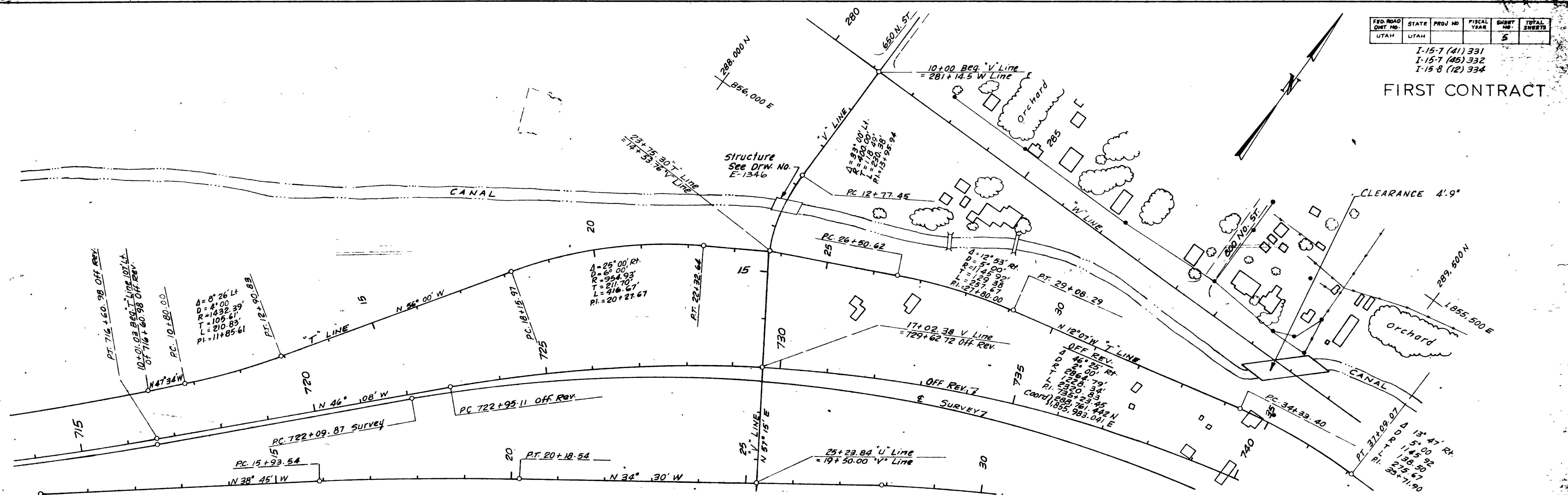
CANAL RELOCATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH			5	

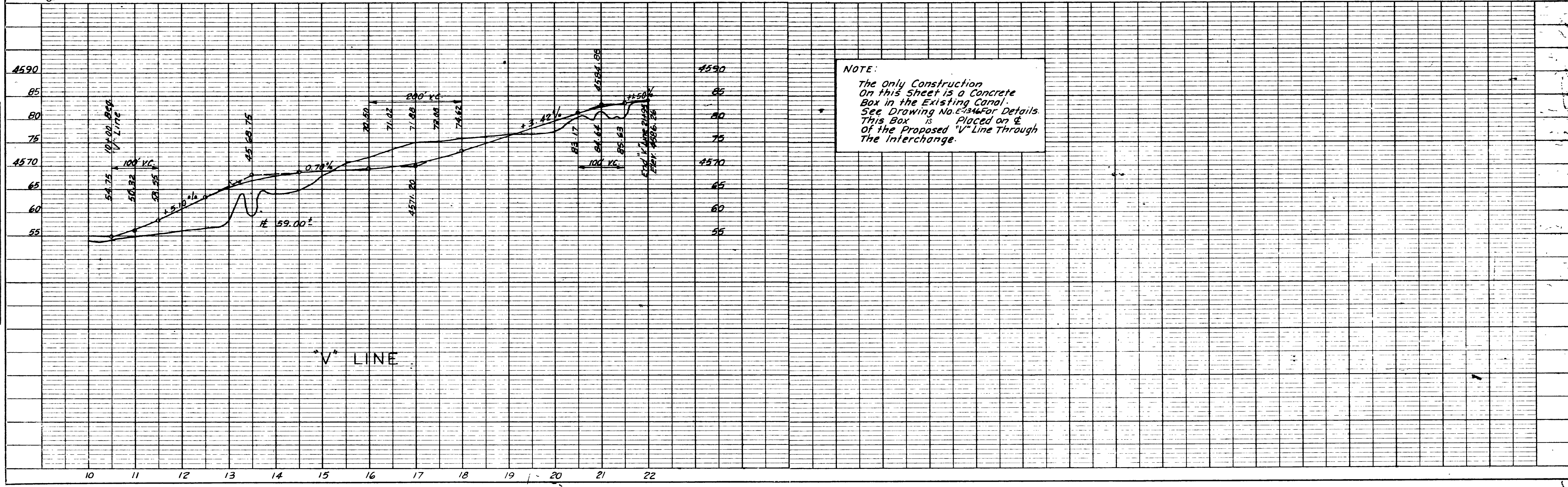
I-15-7 (41) 331
 I-15-7 (45) 332
 I-15-8 (12) 334

FIRST CONTRACT

PLAN	DATE	BY
SURVEYED PLANS CHECKED NOTE BOOK NO.		



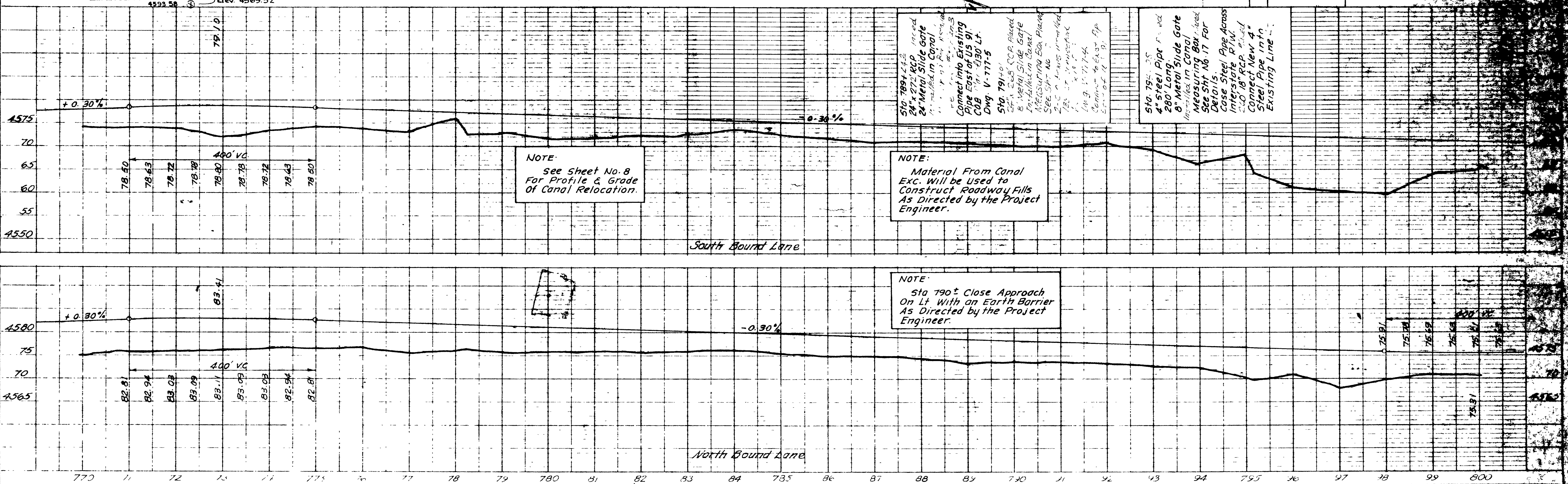
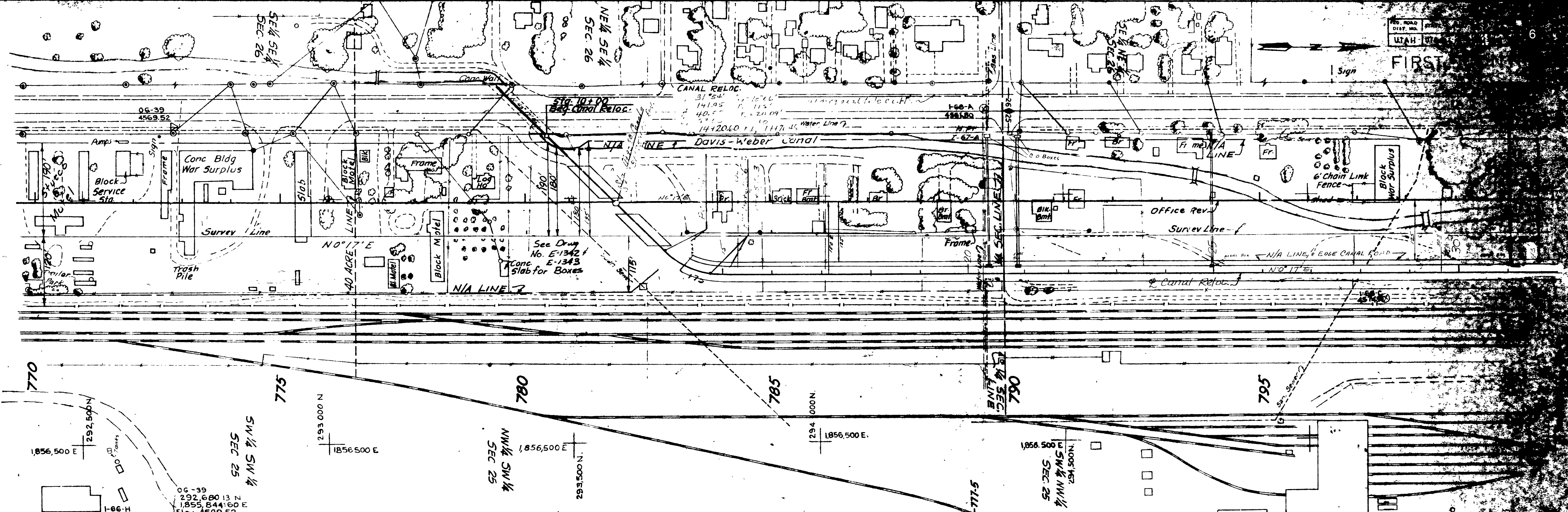
PROFILE	DATE	BY
SURVEYED PLANS CHECKED NOTE BOOK NO.		



NOTE:
 The only Construction
 on this Sheet is a Concrete
 Box in the Existing Canal.
 See Drawing No. E-1346 For Details.
 This Box is Placed on &
 of the Proposed "V" Line Through
 The Interchange.

DATE: 1/26/67
 BY: F.J. Stephens, Jr.
 SURVEYED, PLOTTED, ALIGNED, CHECKED, NOTE BOOK, REVISIONS, etc.
 PLAN NO. 10

DATE: 1/26/67
 BY: F.J. Stephens, Jr.
 SURVEYED, PLOTTED, ALIGNED, CHECKED, NOTE BOOK, REVISIONS, etc.
 PROFILE NO. 10



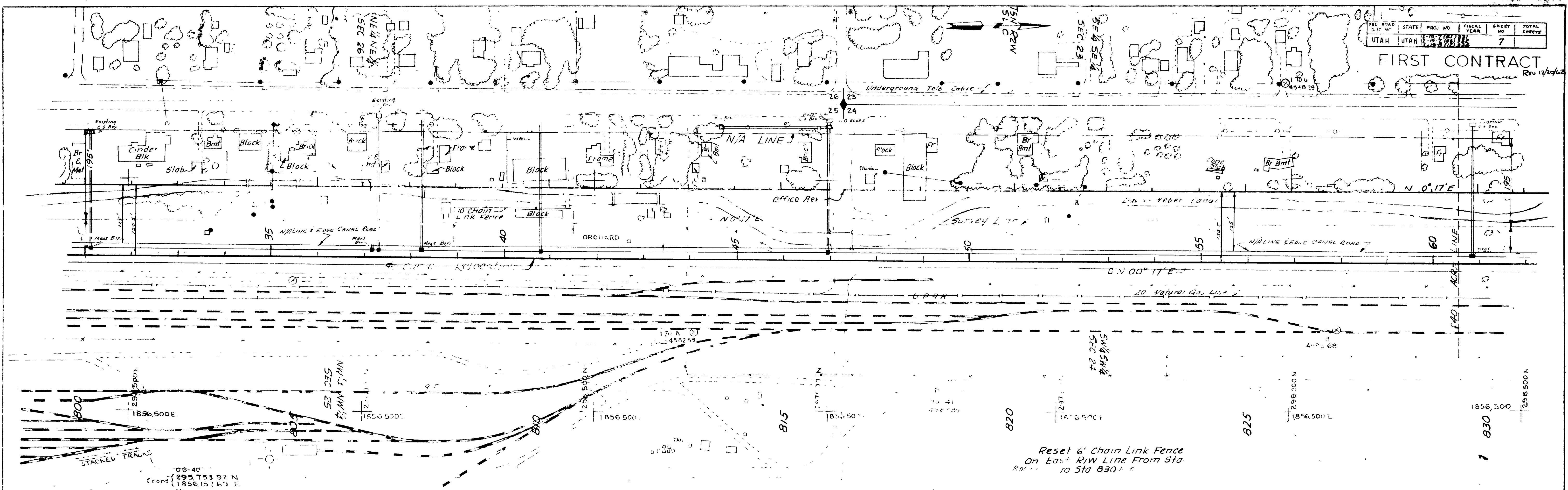
NOTE:
 see Sheet No. 8
 For Profile & Grade
 Of Canal Relocation.

NOTE:
 Material From Canal
 Exc. Will be Used to
 Construct Roadway Fills
 As Directed by the Project
 Engineer.

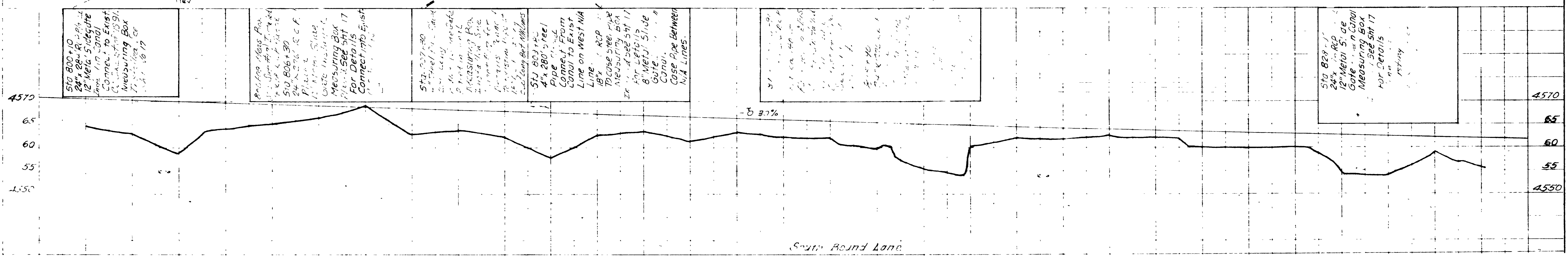
NOTE:
 Sta 790 ± Close Approach
 On Lt. With an Earth Barrier
 As Directed by the Project
 Engineer.

Sta. 789+24.2
 24" x 27" RCP placed
 24" Metal Slide Gate
 installed in Canal
 Connect into Existing
 Pipe East of US 91
 COB Sta. 7130 Lt.
 Dwg. V-777-5
 Sta. 791+00
 24" x 24" RCP placed
 8" Metal Slide Gate
 installed in Canal
 Measuring Box placed
 SEE SH-16
 24" x 24" frames installed
 Sta. 791+00
 10' g. 12" x 12" Pipe
 Center to Existing Pipe
 Sta. 791+00

Sta. 792+05
 4" steel pipe placed
 280' Long
 8" Metal Slide Gate
 installed in Canal
 Measuring Box placed
 See Sht. No. 17 For
 Details
 Case Steel Pipe Across
 Interstate P.W.
 24" x 24" RCP placed
 Connect New 4"
 Steel Pipe into
 Existing Line

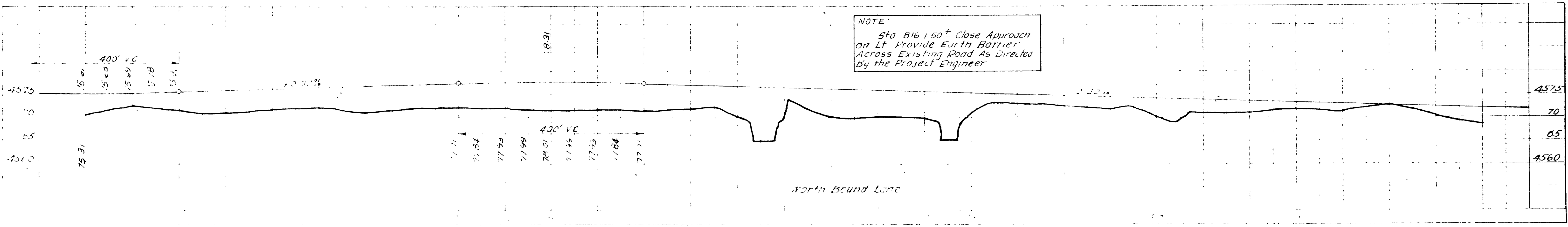


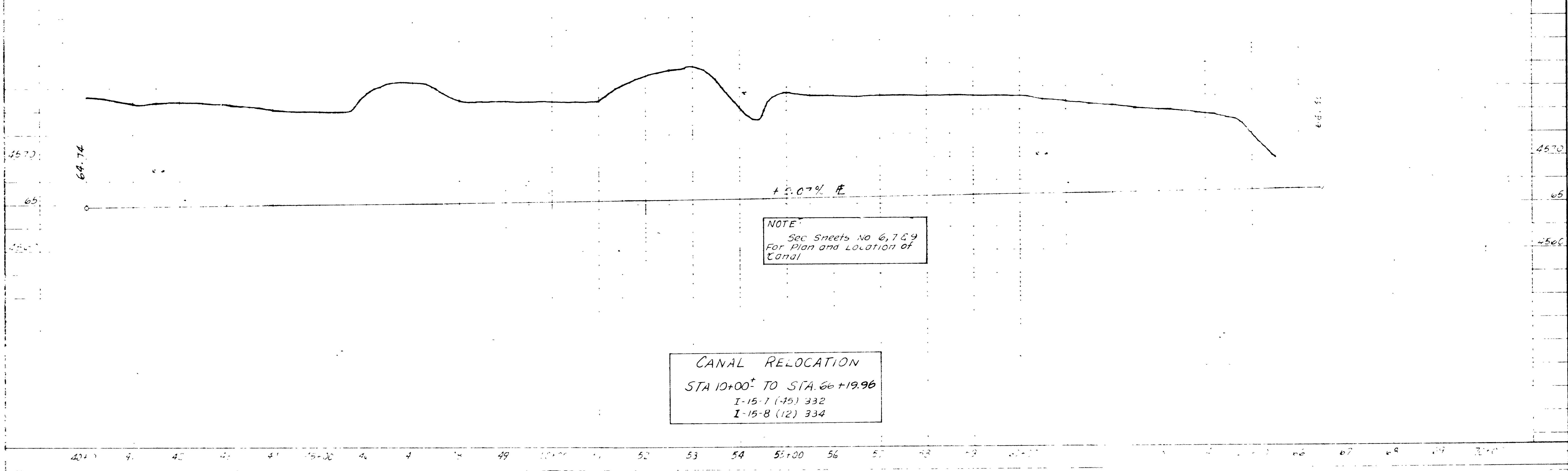
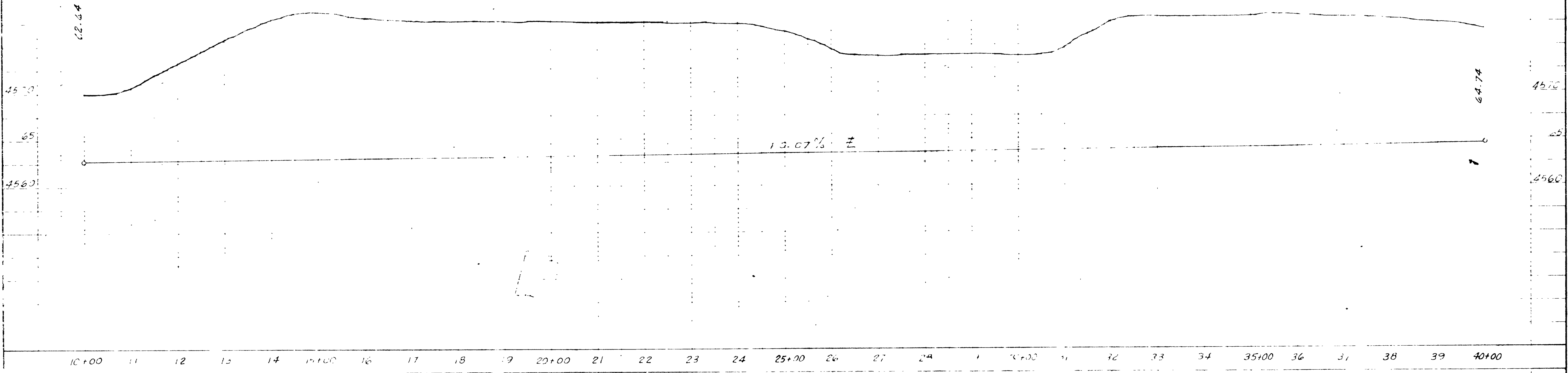
Reset 6' Chain Link Fence
On East RIW Line From Sta.
800 to Sta 830 f.p.



- Sta 800+10
24" Metal Slide Gate
12" Metal Slide Gate
1" in Canal
Connect to Existing
Canal
Measuring Box
See Sht 17
- Profile Mass Rev.
See Sht 17
Sta 806+30
24" Metal Slide Gate
12" Metal Slide Gate
Measuring Box
See Sht 17
Connect to Existing
Canal
- Sta 807+30
24" Metal Slide Gate
12" Metal Slide Gate
Measuring Box
See Sht 17
Connect to Existing
Canal
- Sta 809+10
4" x 280' Steel
Pipe
Connect From
Canal to Existing
Line on West N/A
Line
18" RCP
To Case Pipe
Measuring Box
See Sht 17
For Details
8" Metal Slide
Gate
Canal
Case Pipe Between
N/A Lines.
- Sta 828+10
24" Metal Slide Gate
12" Metal Slide Gate
Measuring Box
See Sht 17
For Details

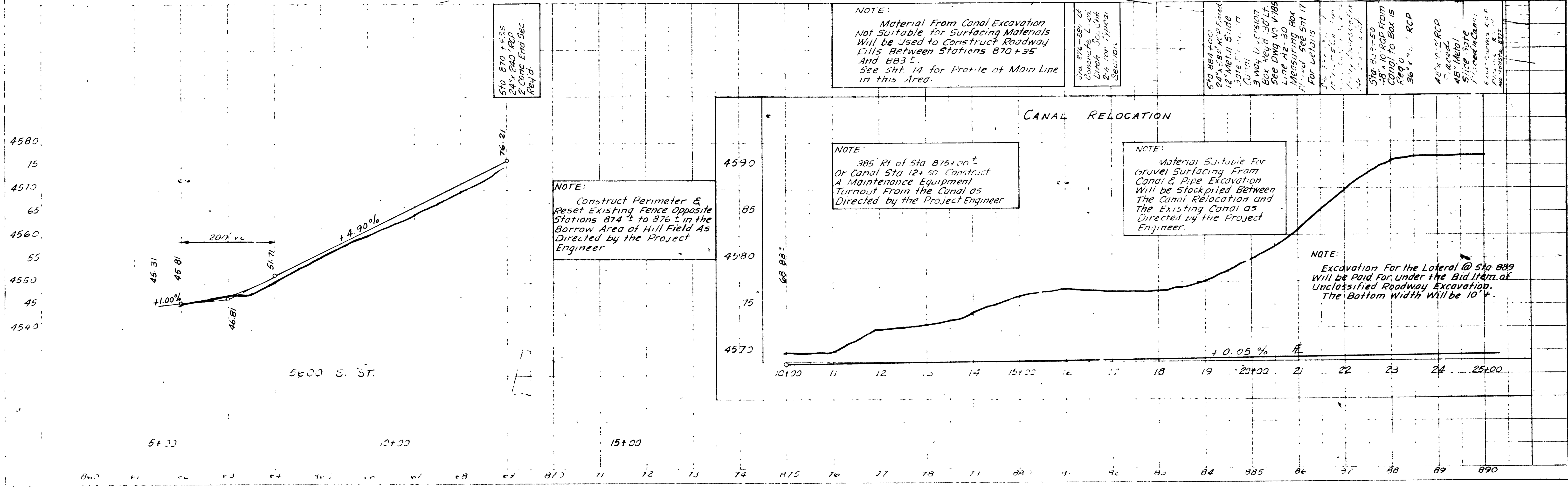
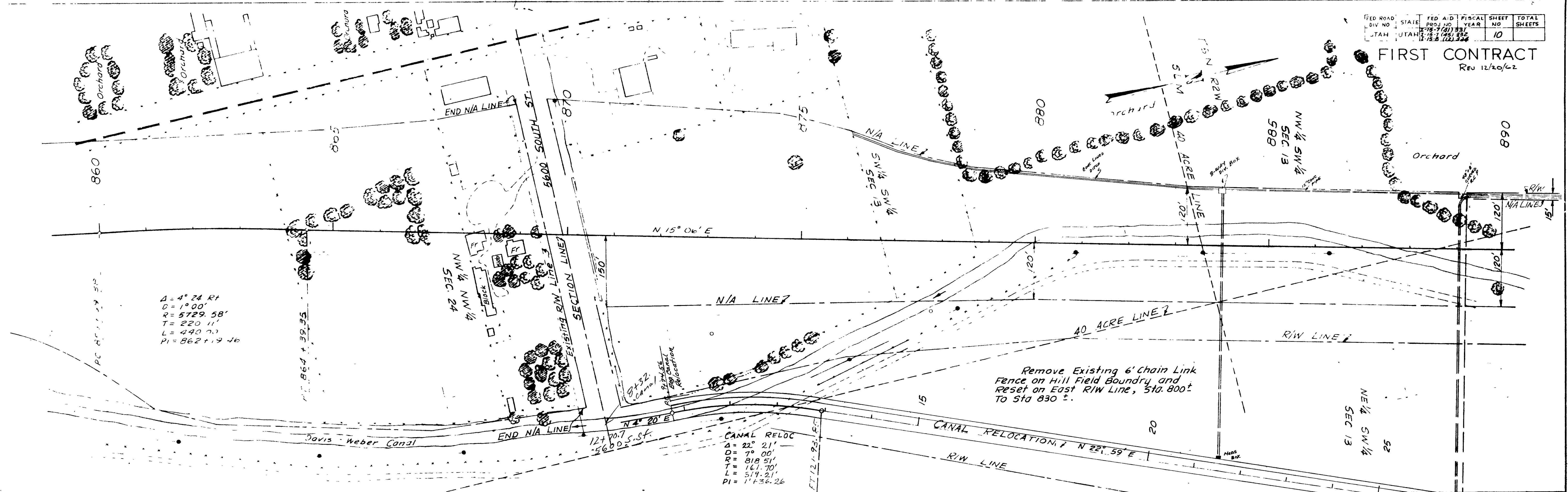
NOTE:
Sta 816+50± Close Approach
on Lt Provide Earth Barrier
Across Existing Road As Directed
By the Project Engineer

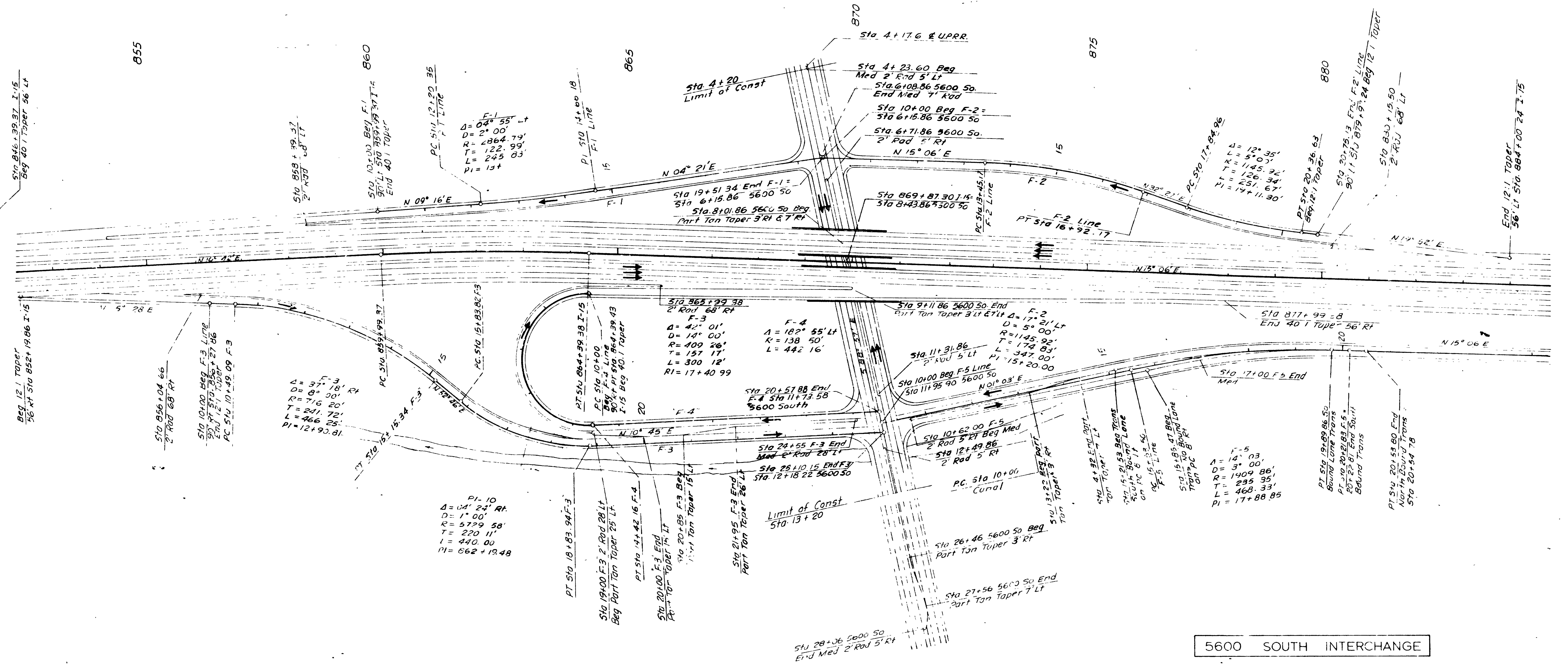
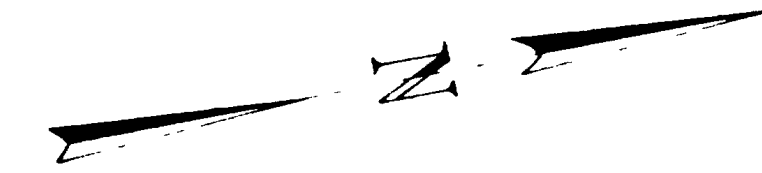




NOTE:
 See Sheets No 6, 7 & 9
 For Plan and Location of
 Canal

CANAL RELOCATION
 STA 10+00⁺ TO STA. 66+19.96
 I-15-7 (45) 332
 I-15-8 (12) 334





865

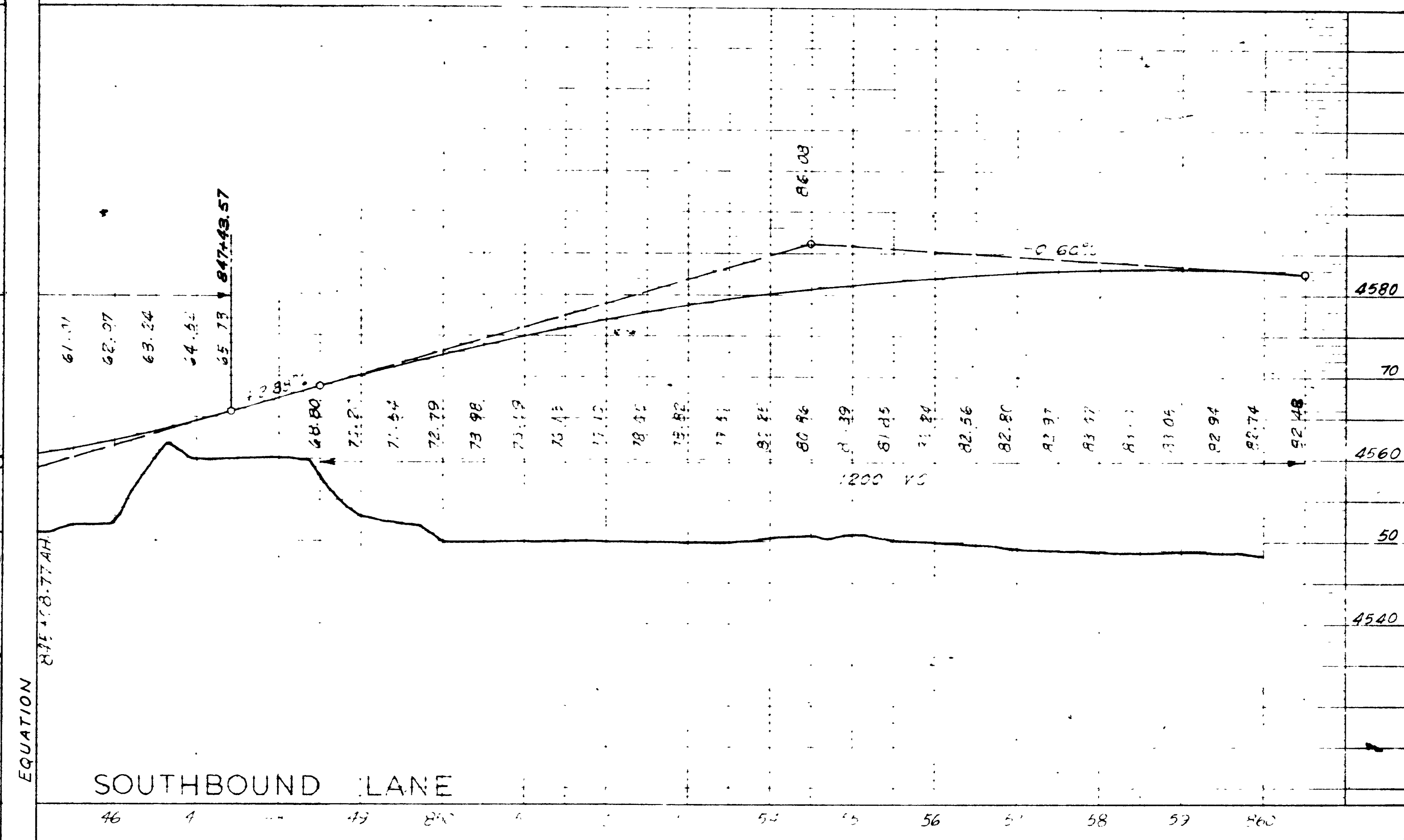
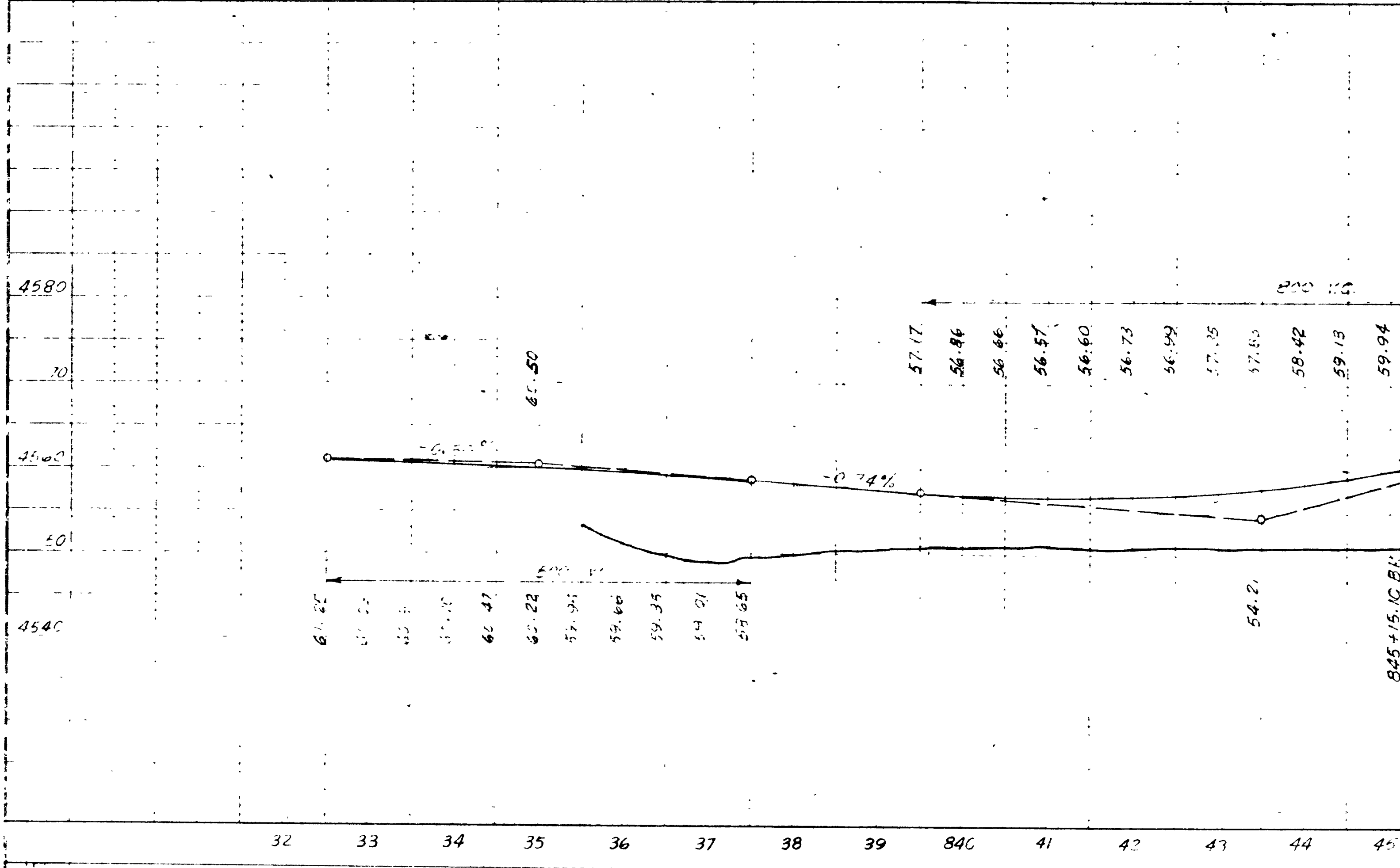
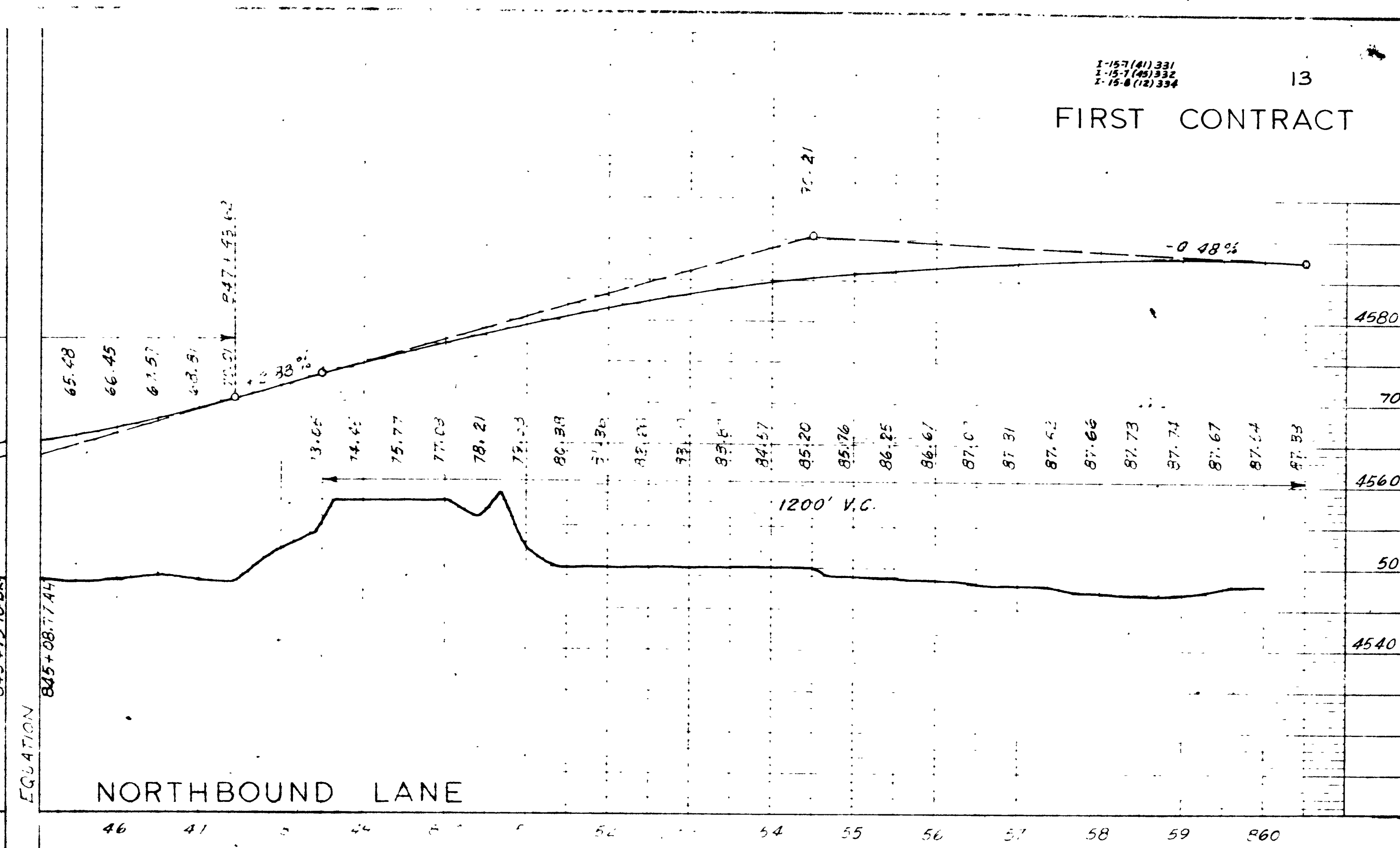
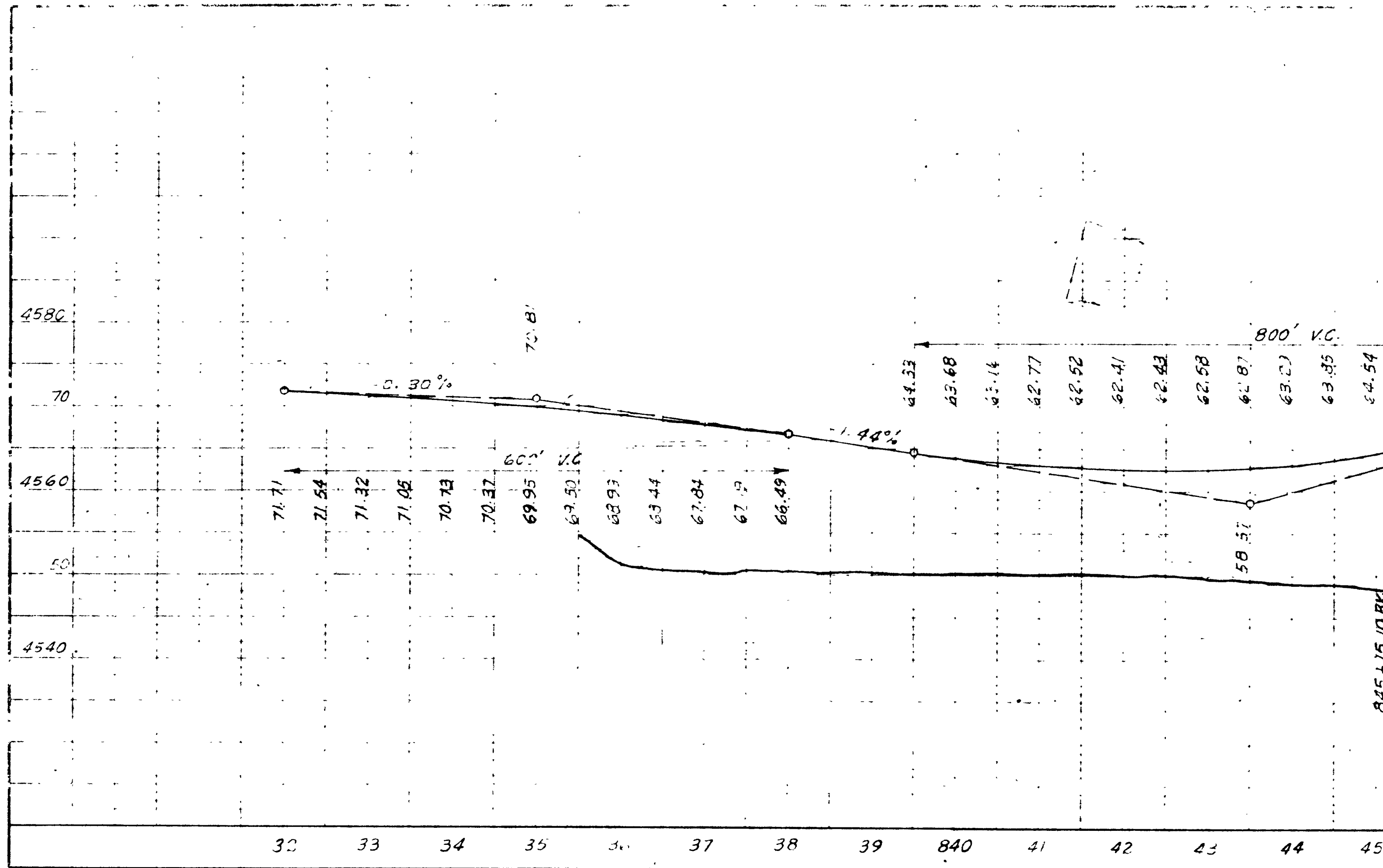
870

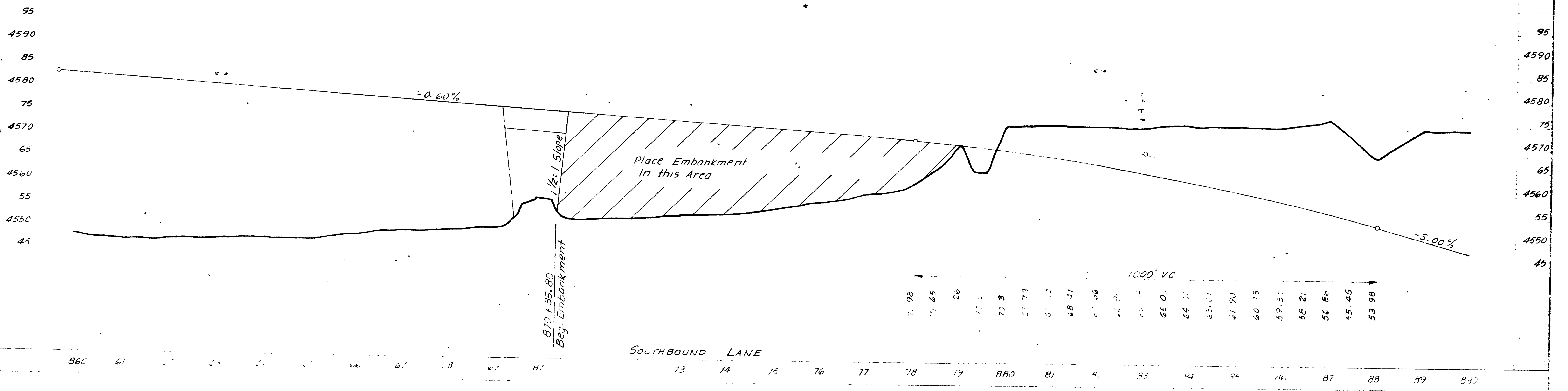
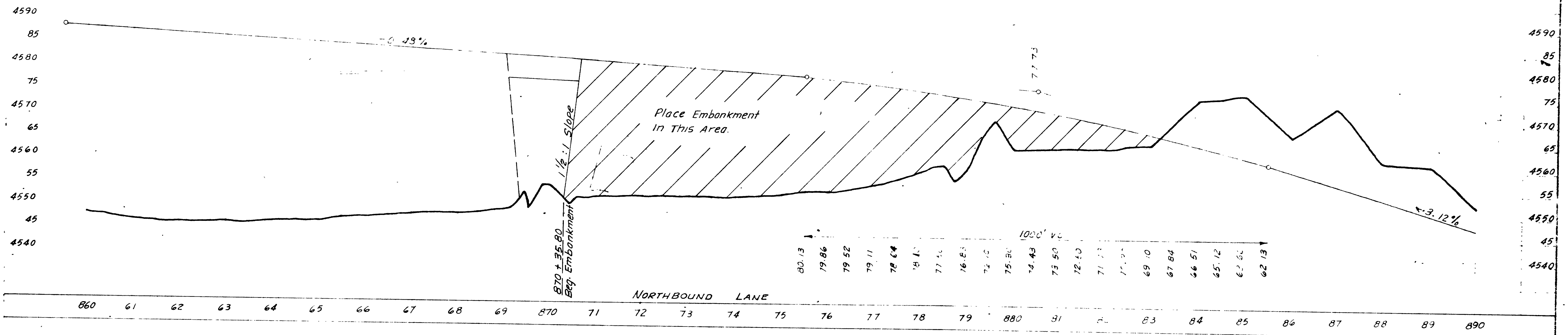
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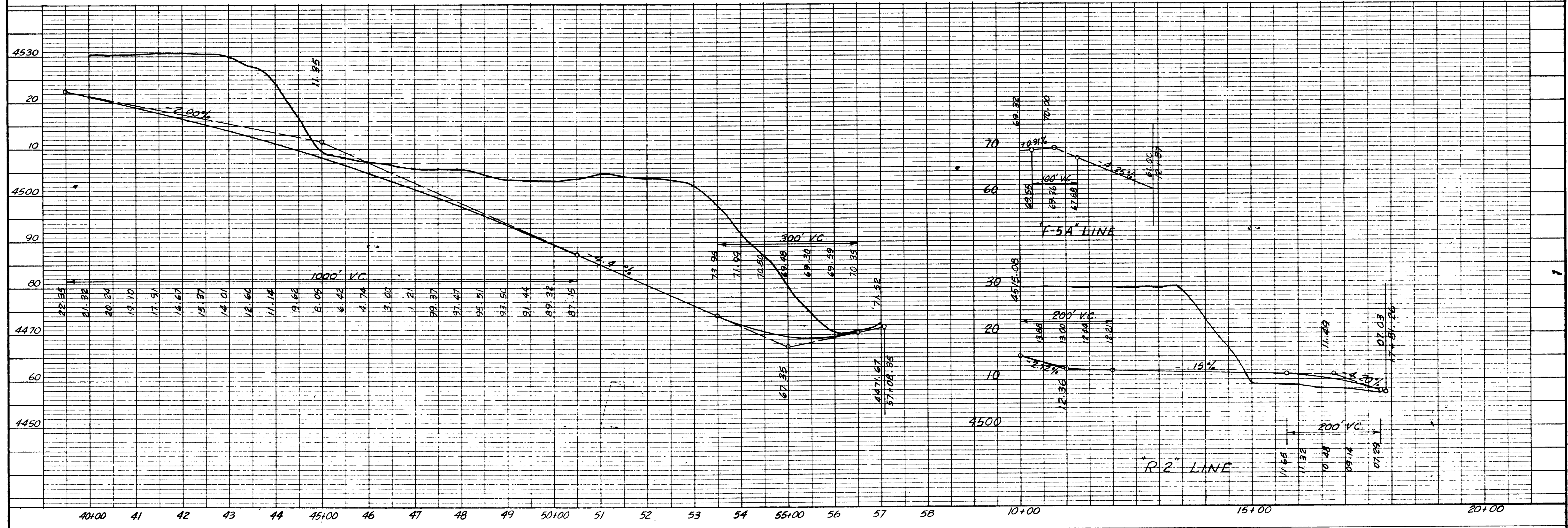
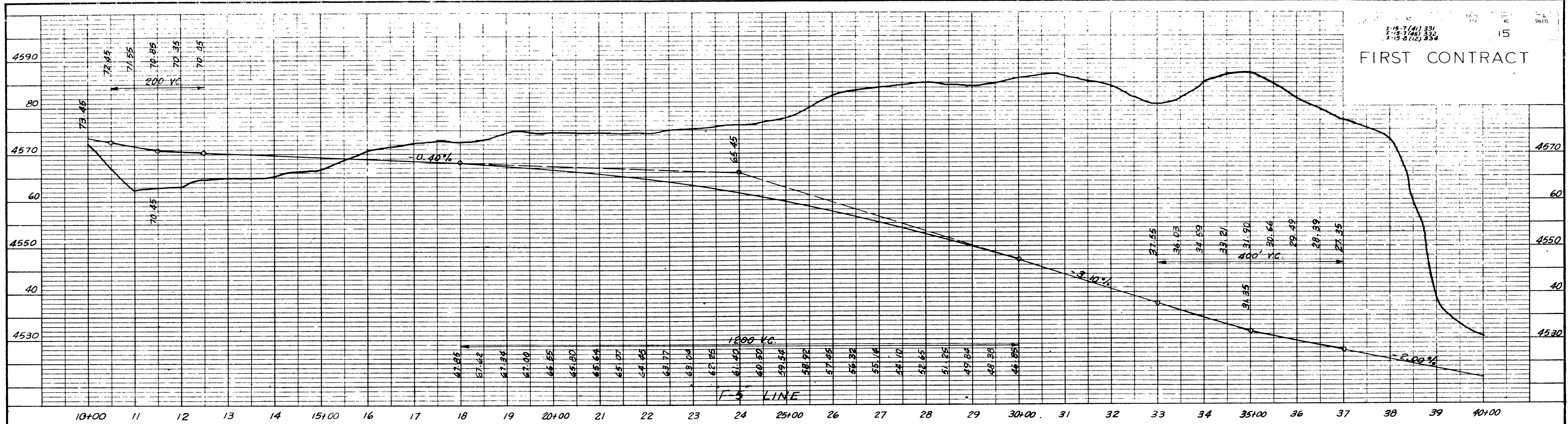
880

885

5600 SOUTH INTERCHANGE

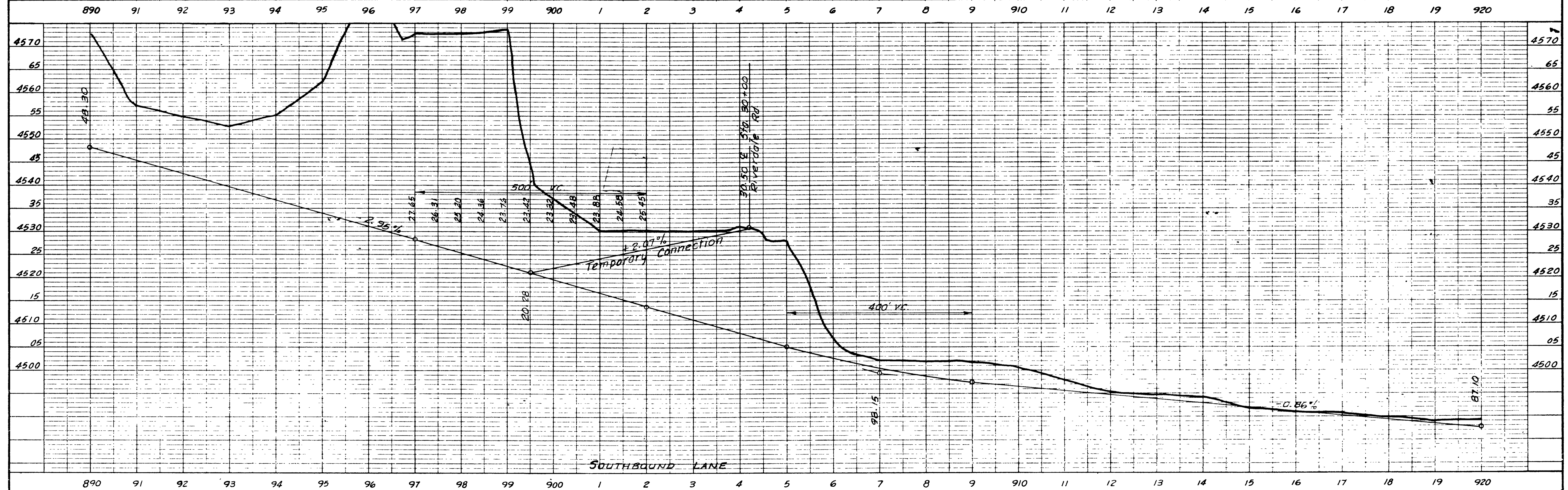
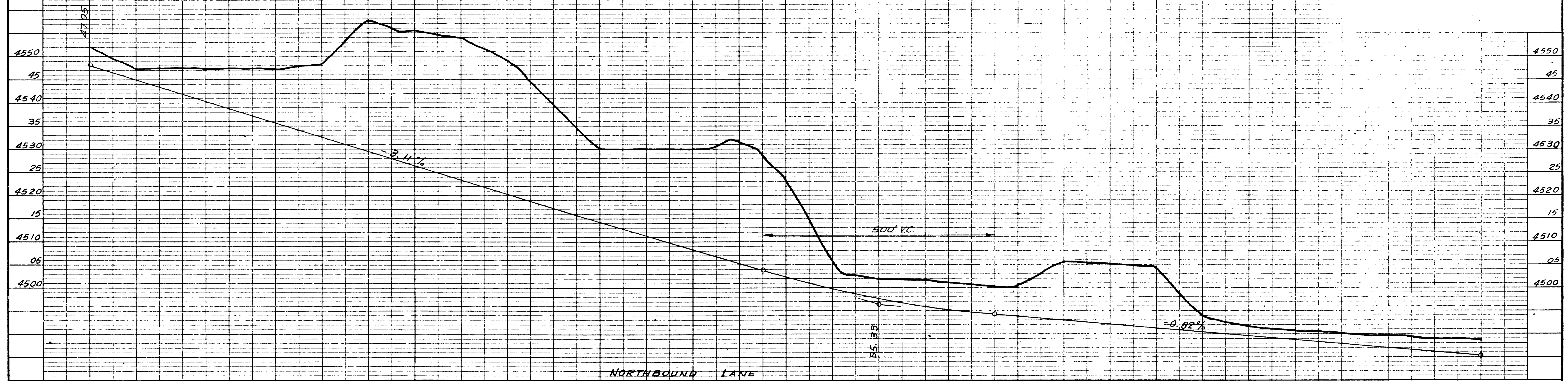






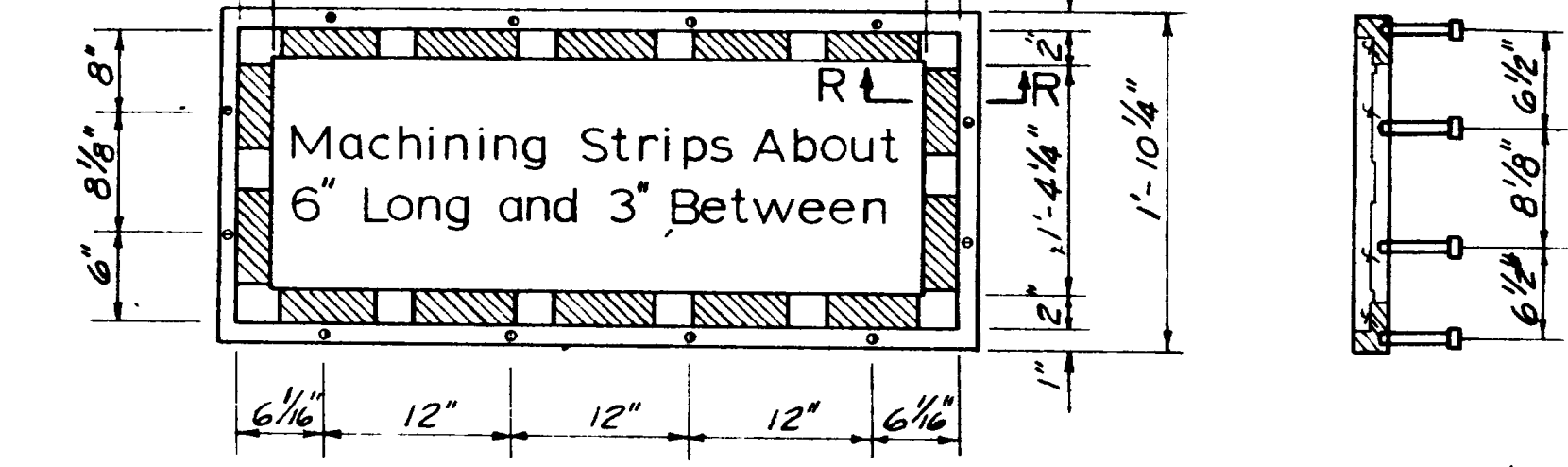
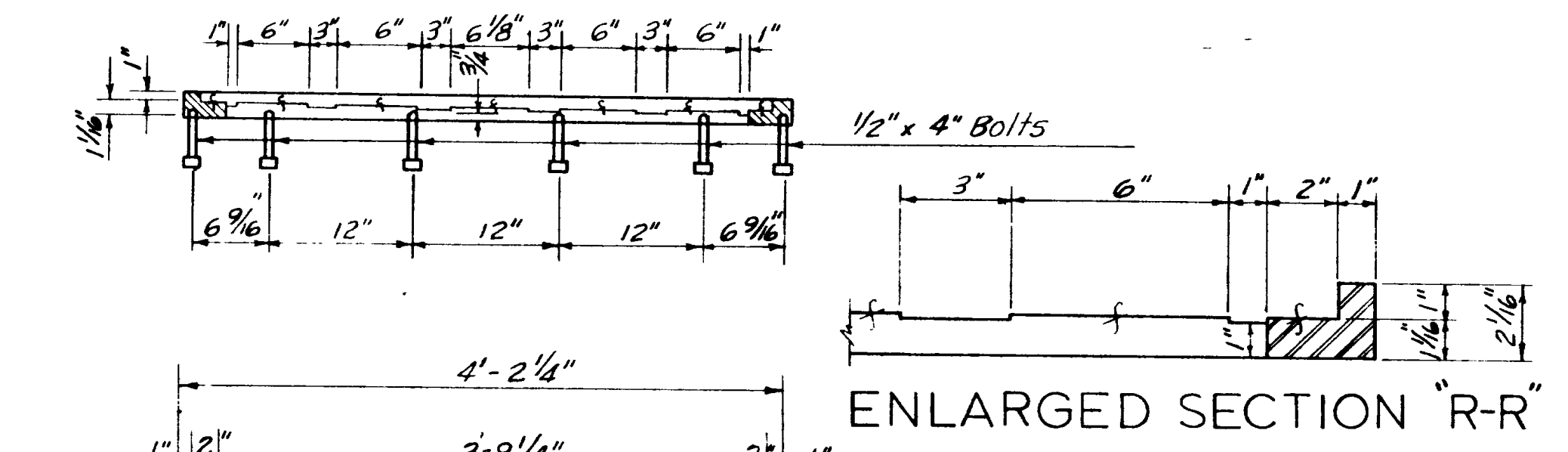
Yds
Emb
Sta

FIRST CONTRACT

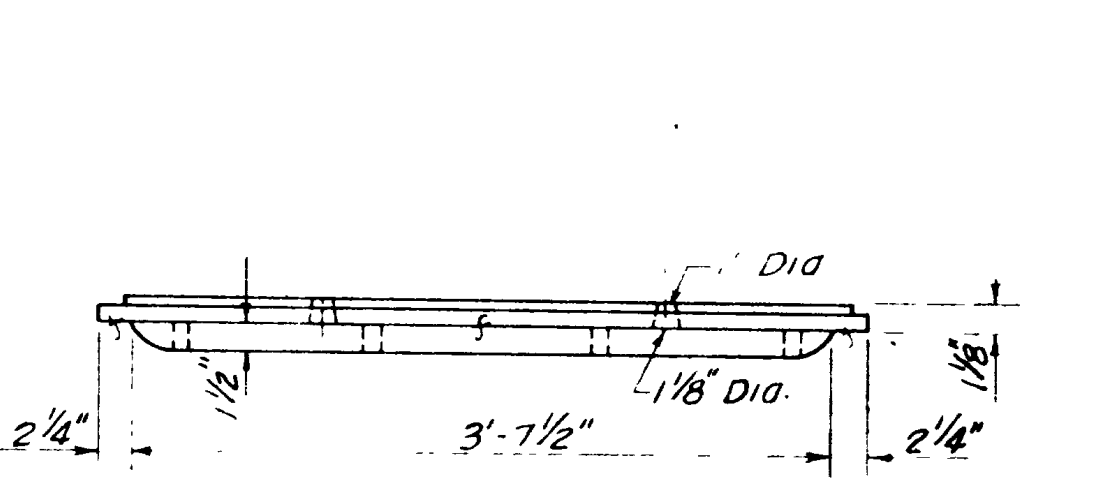
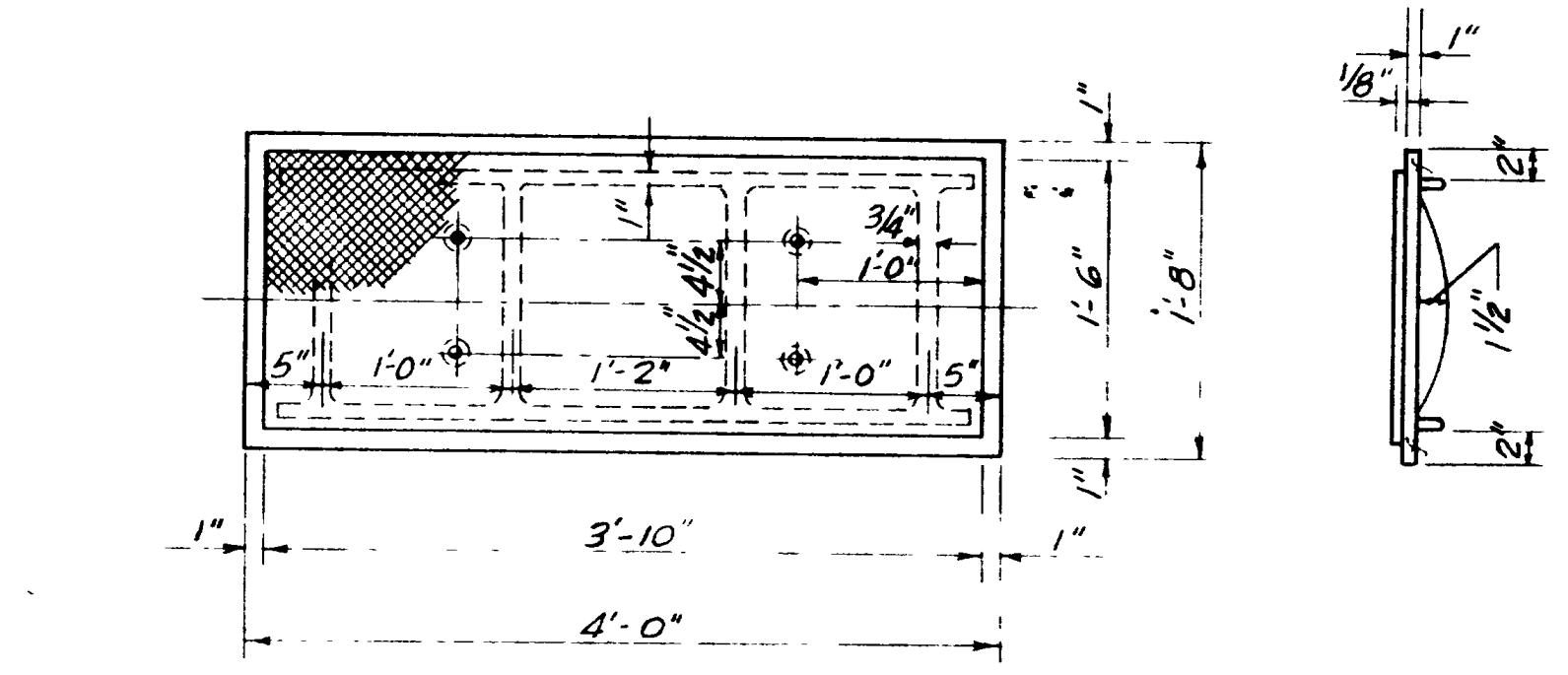


SCHEDULE OF INSTALLATIONS

REINFORCING BARS						QUANTITIES			
"A" BARS	"B" BARS	"C" BARS	"D" BARS	"E" BARS	STRUCT. STEEL LBS.	REINF. STEEL LBS.	CONC. CU. YDS.	EXCAV. CU. YDS.	
NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH					
22 6'-0"	26 3'-6"	12 8'-2"	6 3'-4"	2 4'-0"	603	373	3.9	15.4	



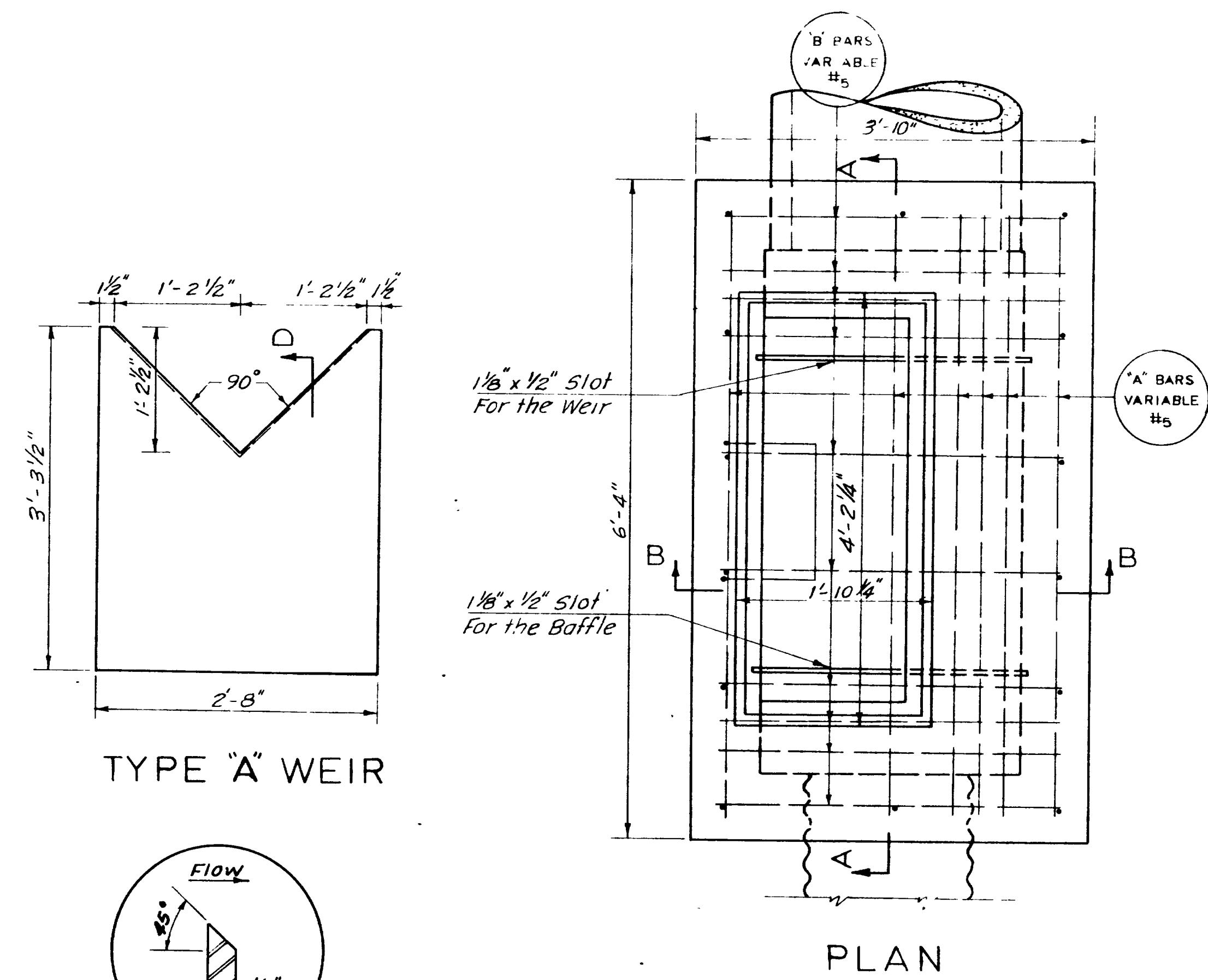
FRAME WEIGHT 146 LBS.
 (MATERIAL: CAST IRON)



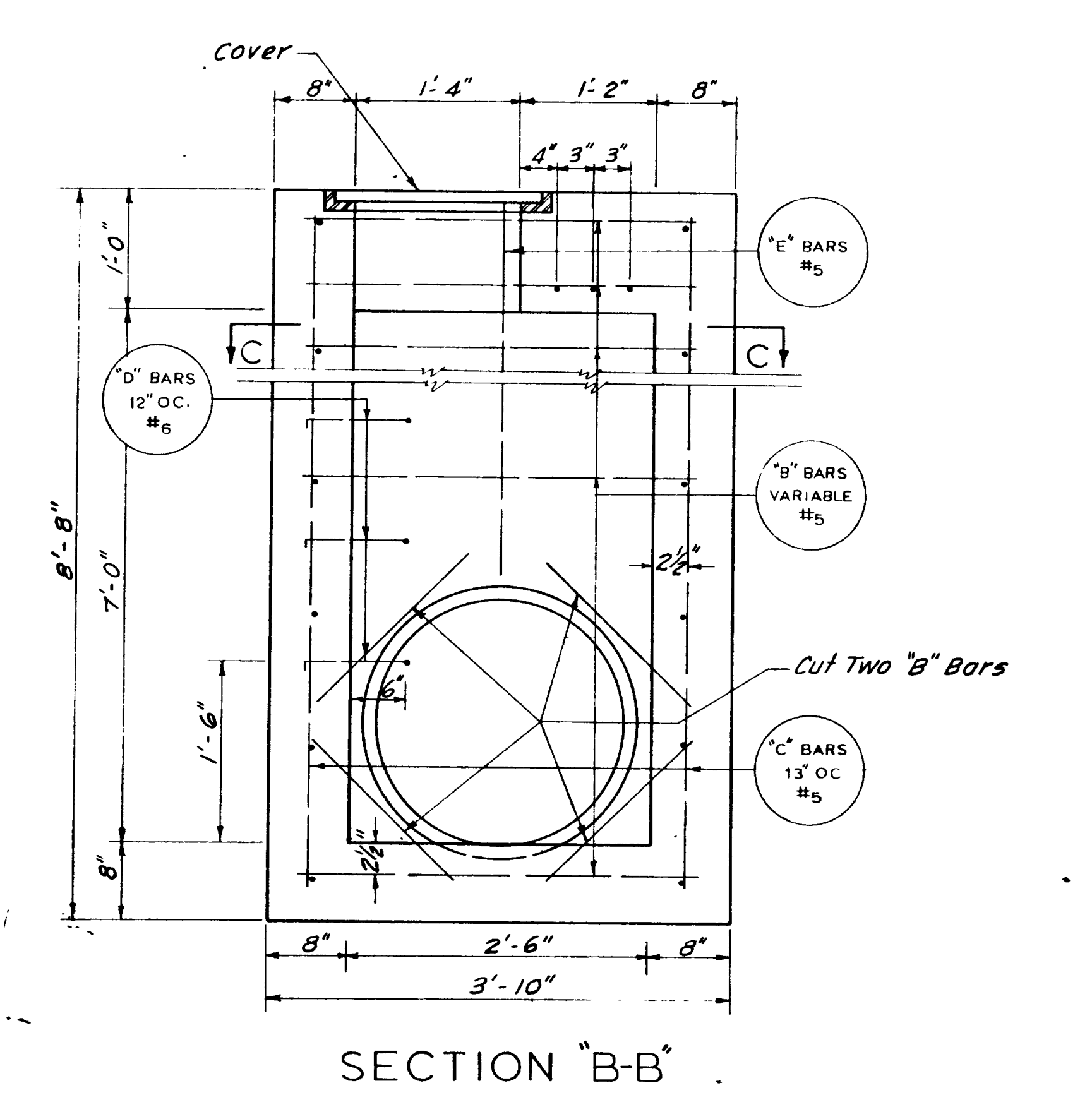
MEASURING BOX

COVER WEIGHT 319 LBS.
 (MATERIAL: CAST IRON)

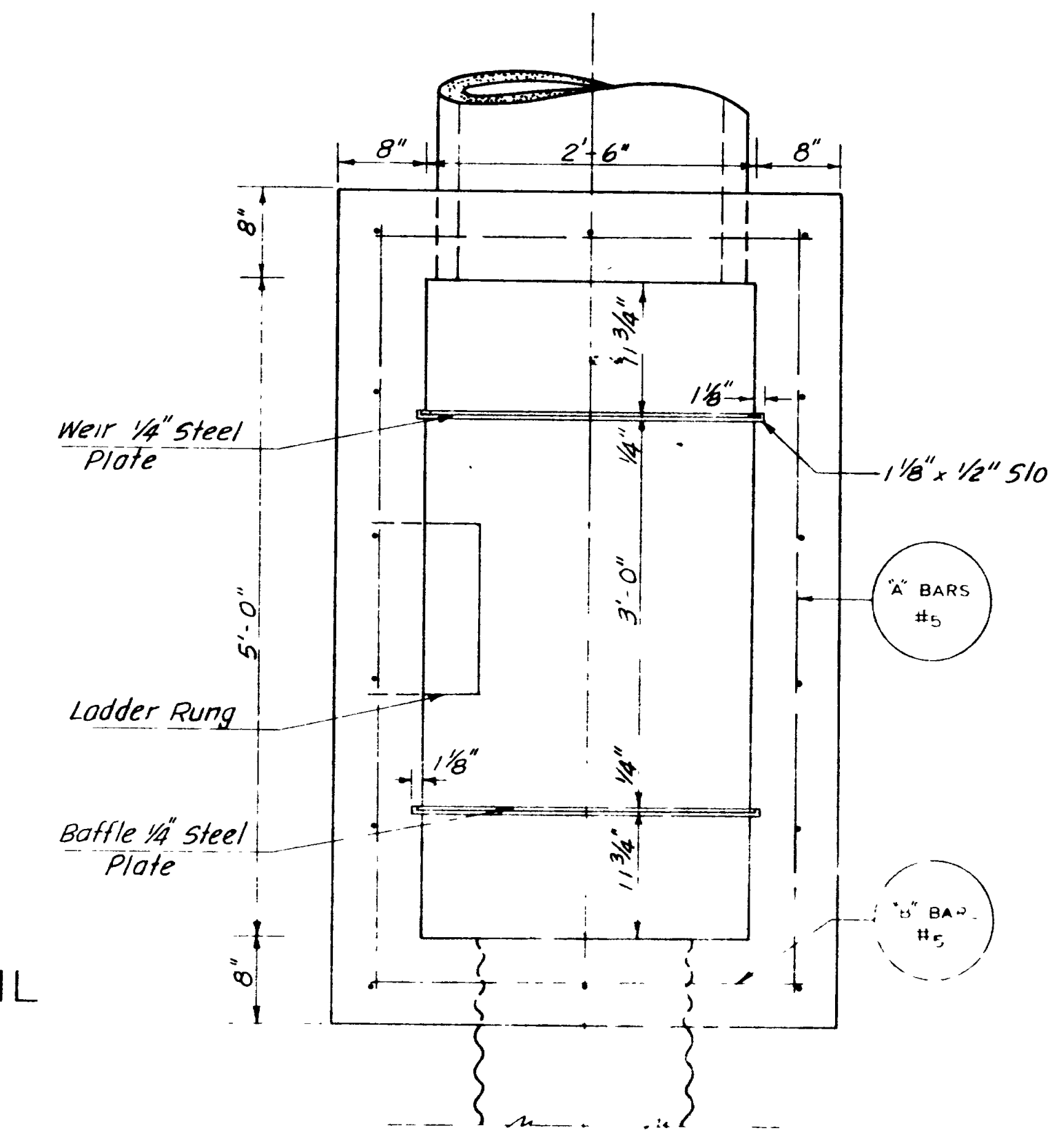
* Ductile Iron Will be Accepted for Either the Cover or Frame Fabrication.



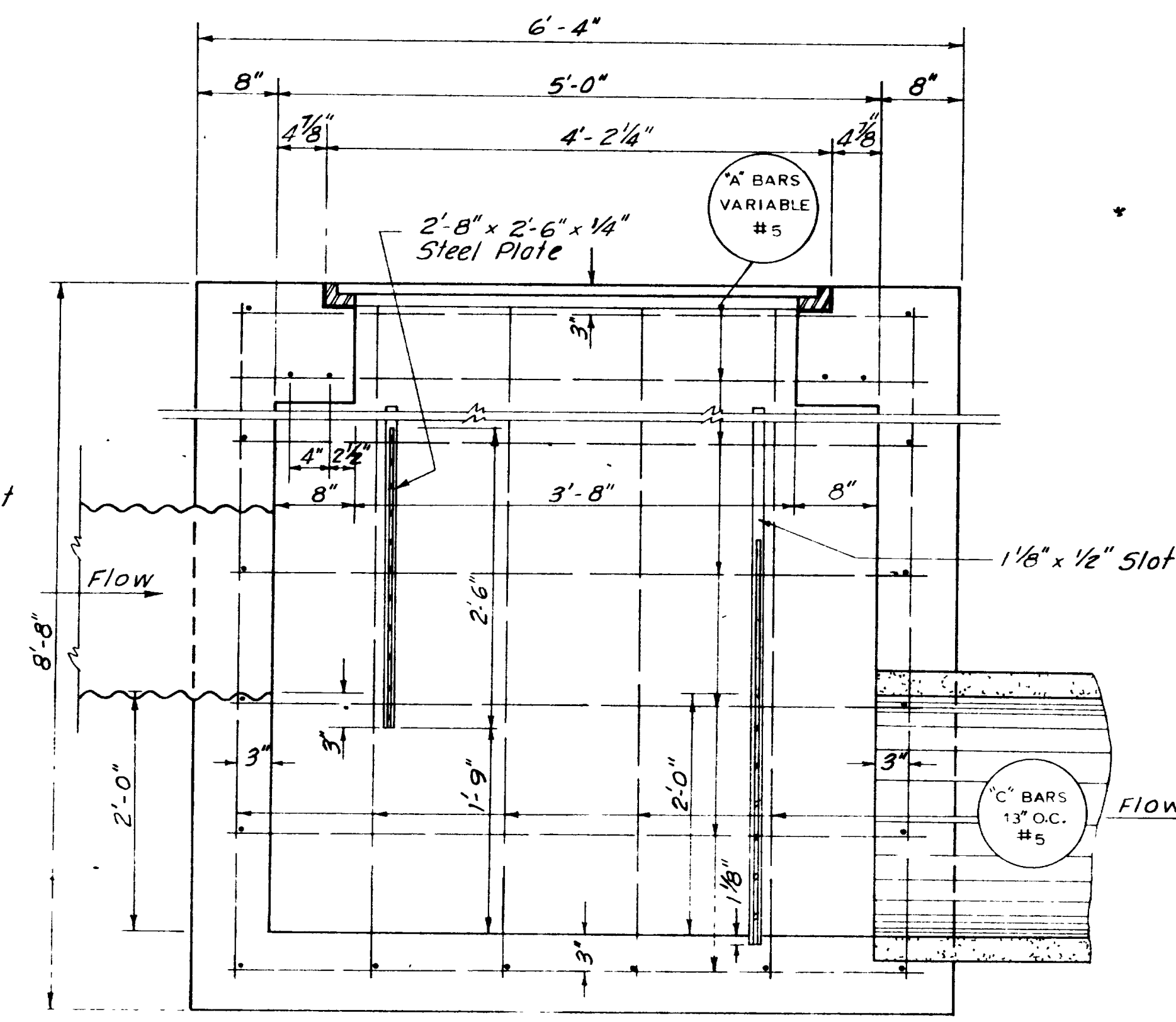
PLAN



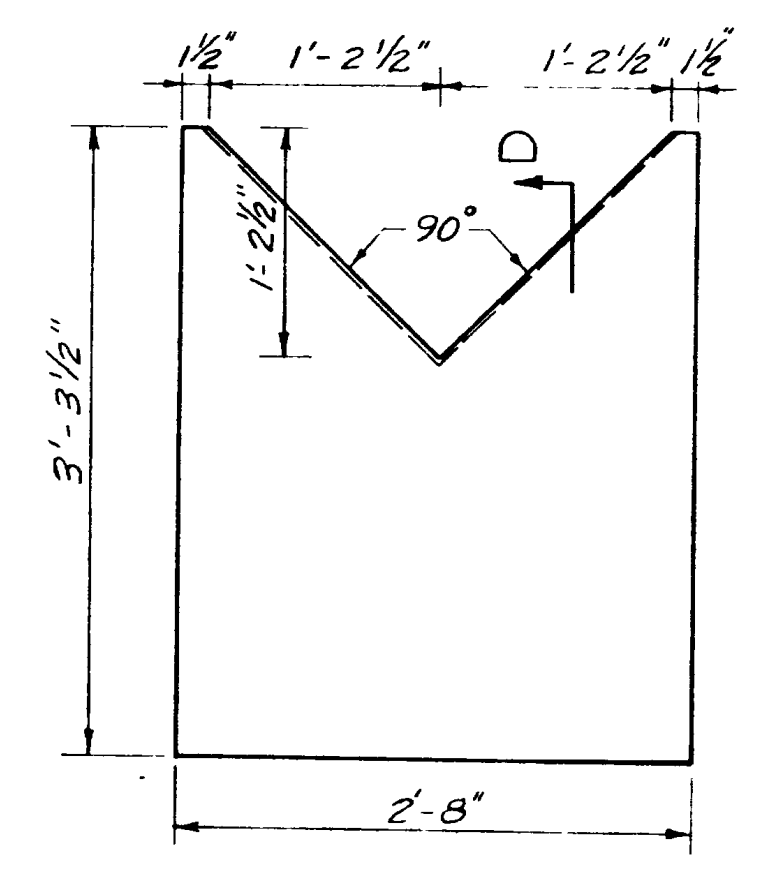
SECTION "B-B"



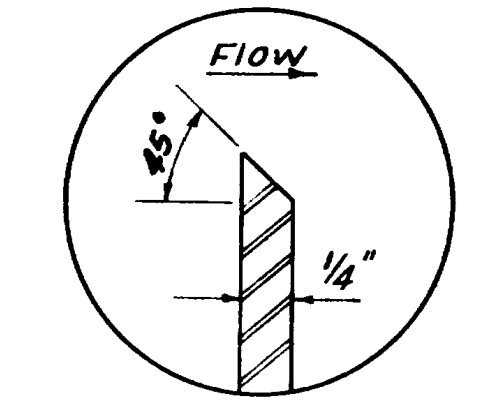
SECTION "C-C"



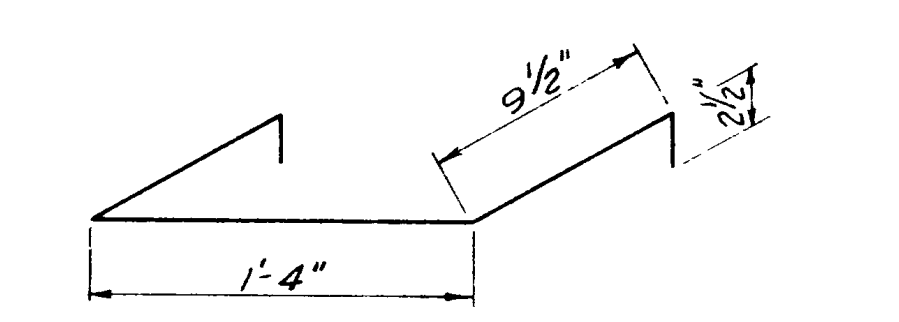
SECTION "A-A"



TYPE "A" WEIR



SECTION "D"



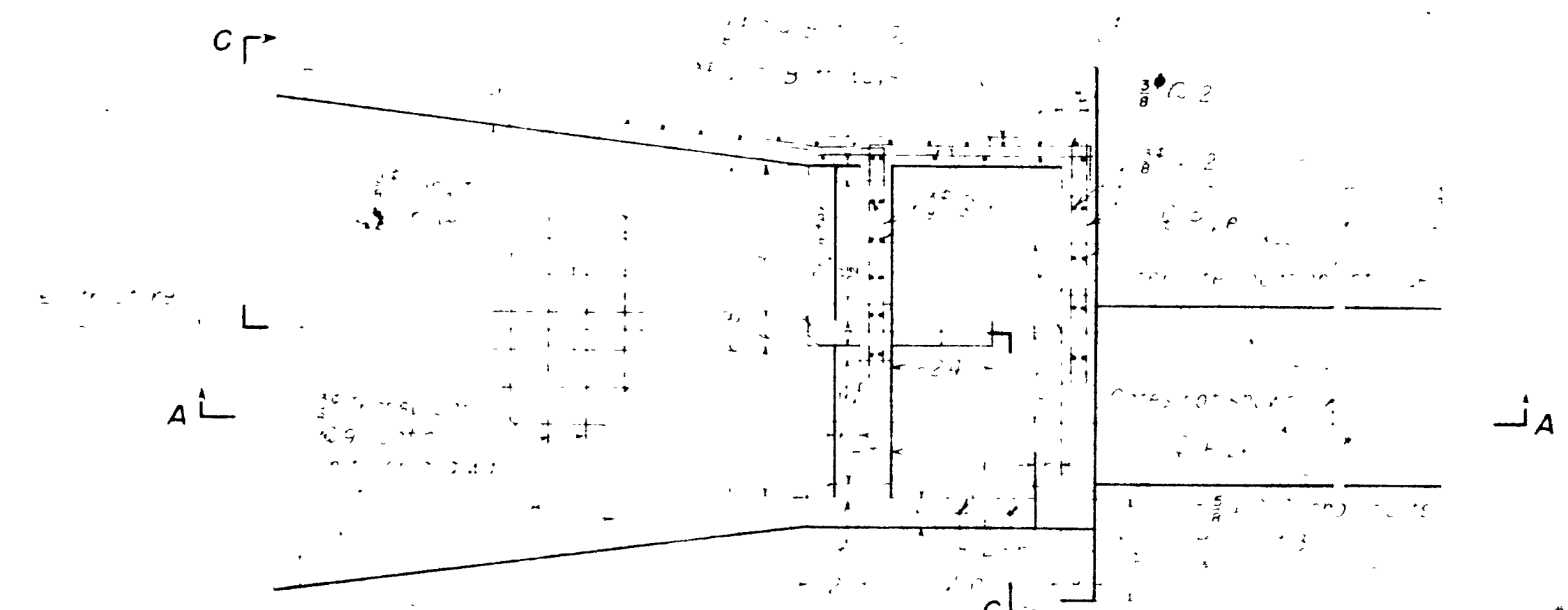
LADDER RUNG DETAIL
 BAR "D" #6
 LENGTH=3'-4"
 WEIGHT EA. 5 LBS.

REVISIONS
 DATE BY

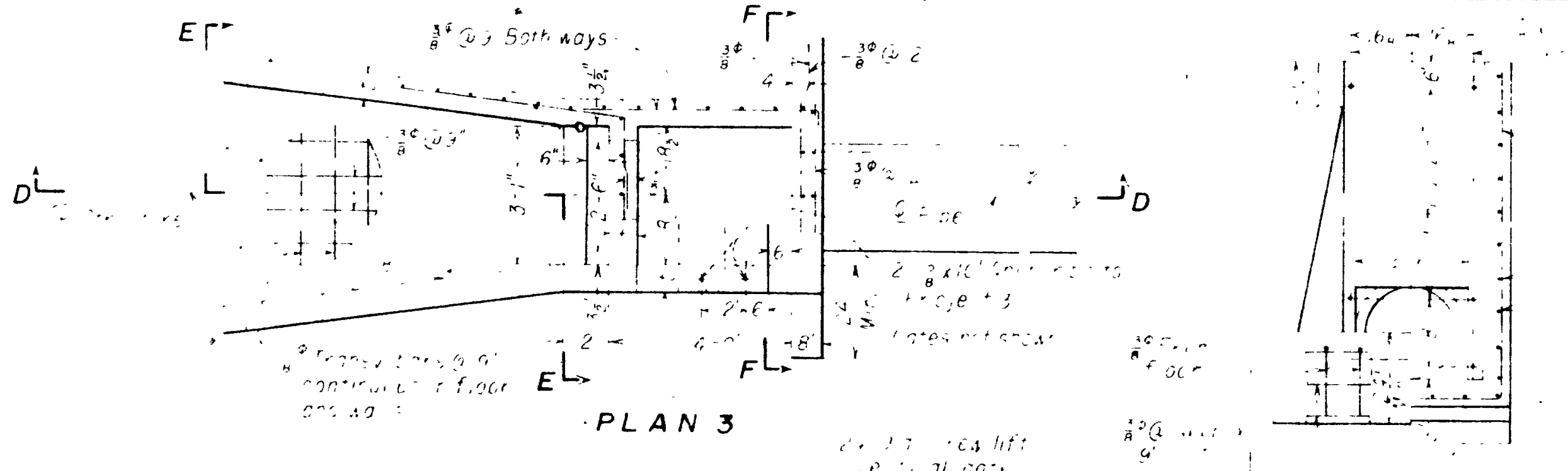
FED. ROAD DIST. NO.	STATE	SECTION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	UTAH		20		

FIRST CONTRACT

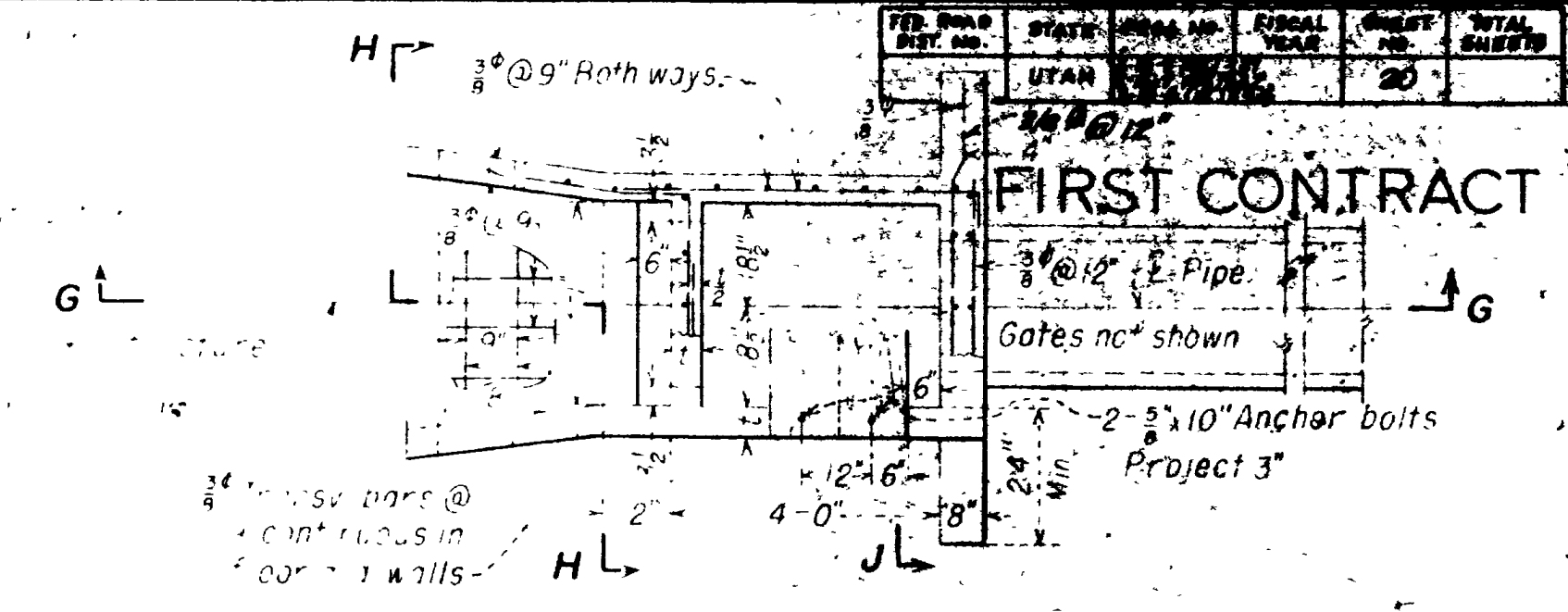
3" @ 12" Pipe
Gates not shown
2-3/4" x 10" Anchor bolts
Project 3



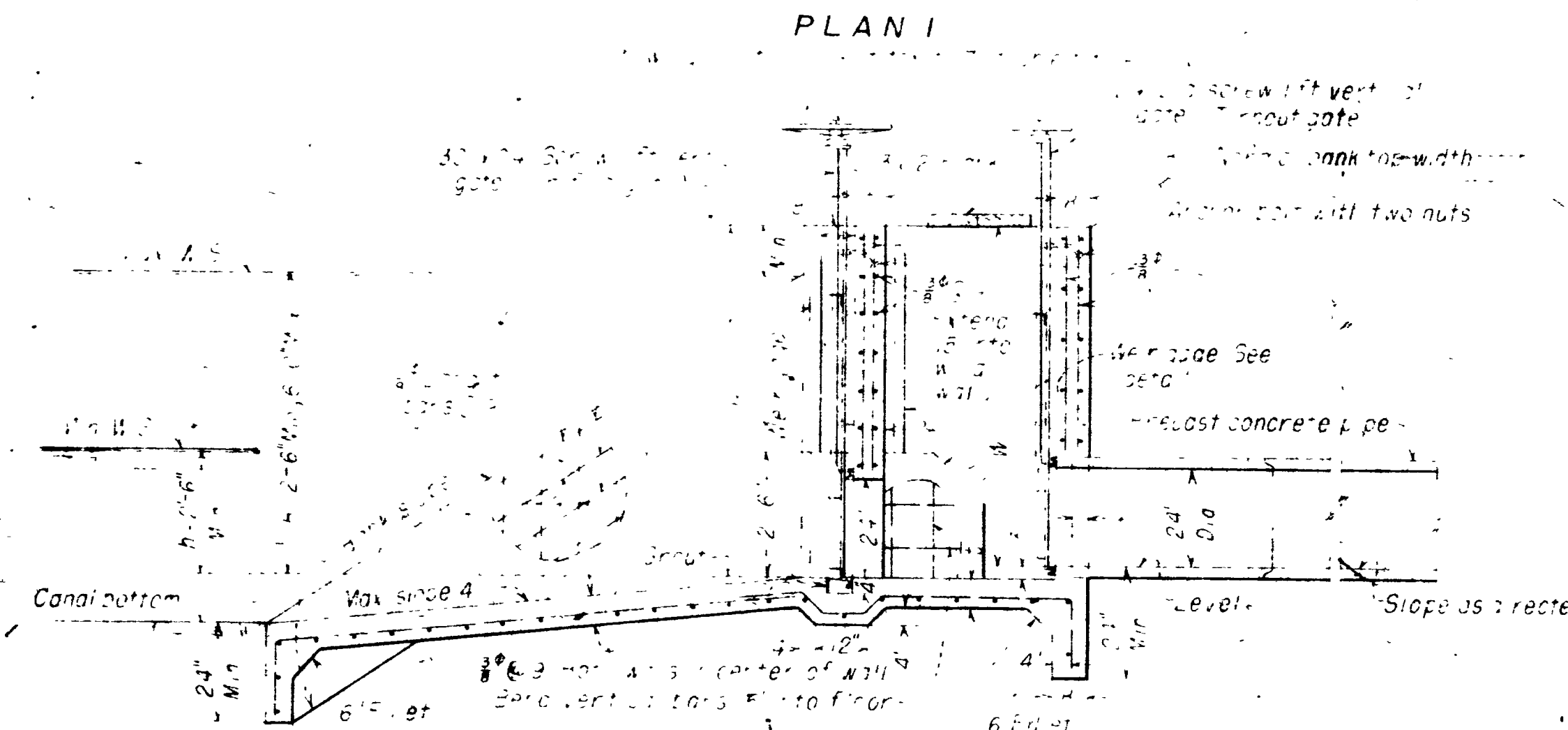
PLAN 1



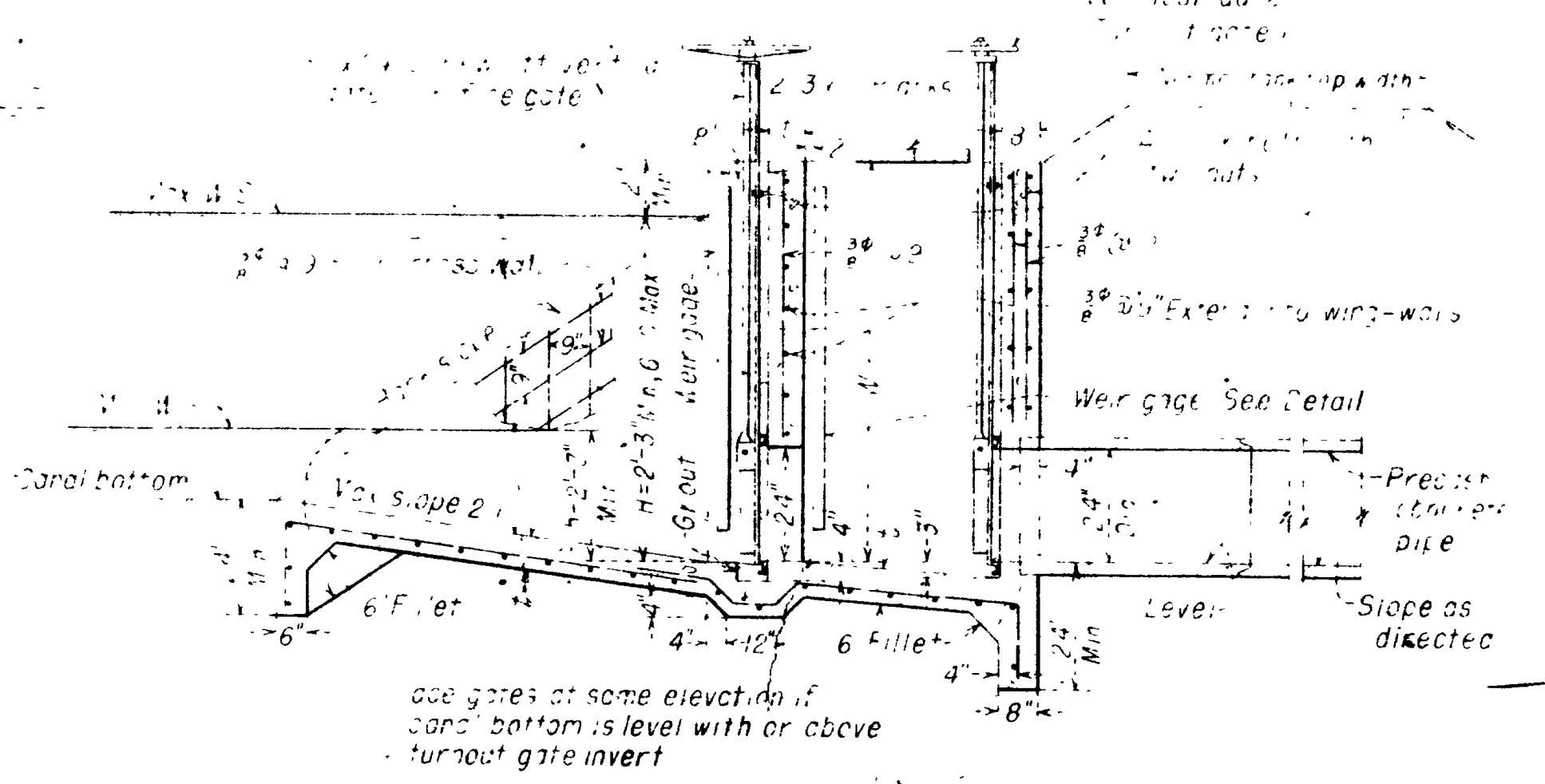
PLAN 3



PLAN 4

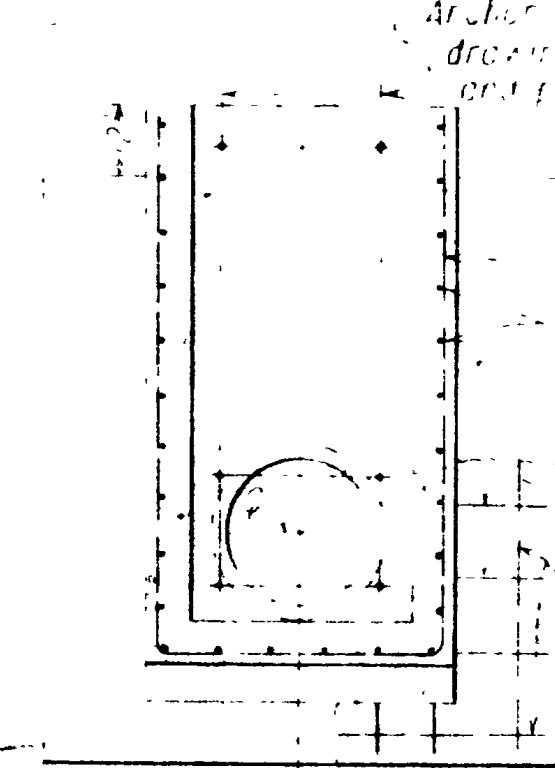


SECTION A-A

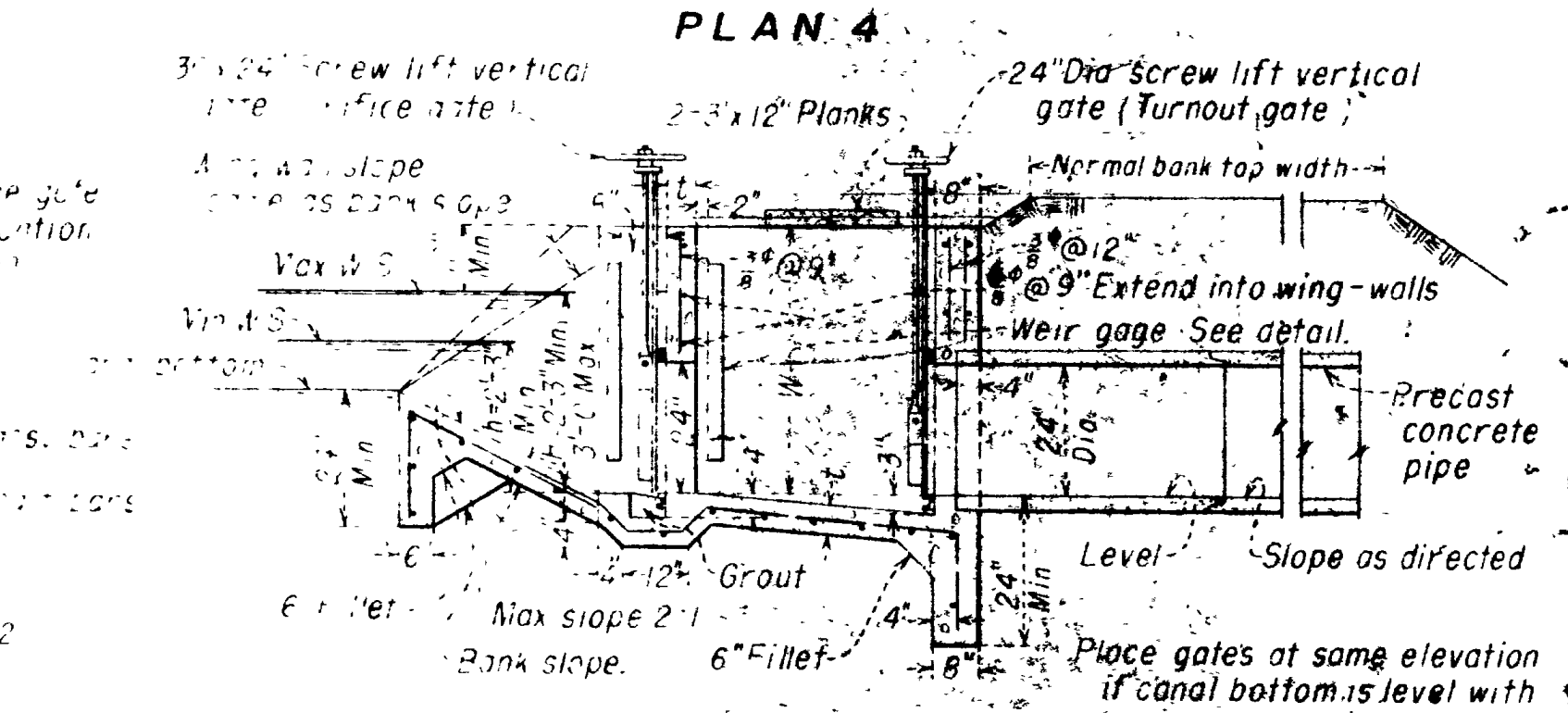


SECTION D-D

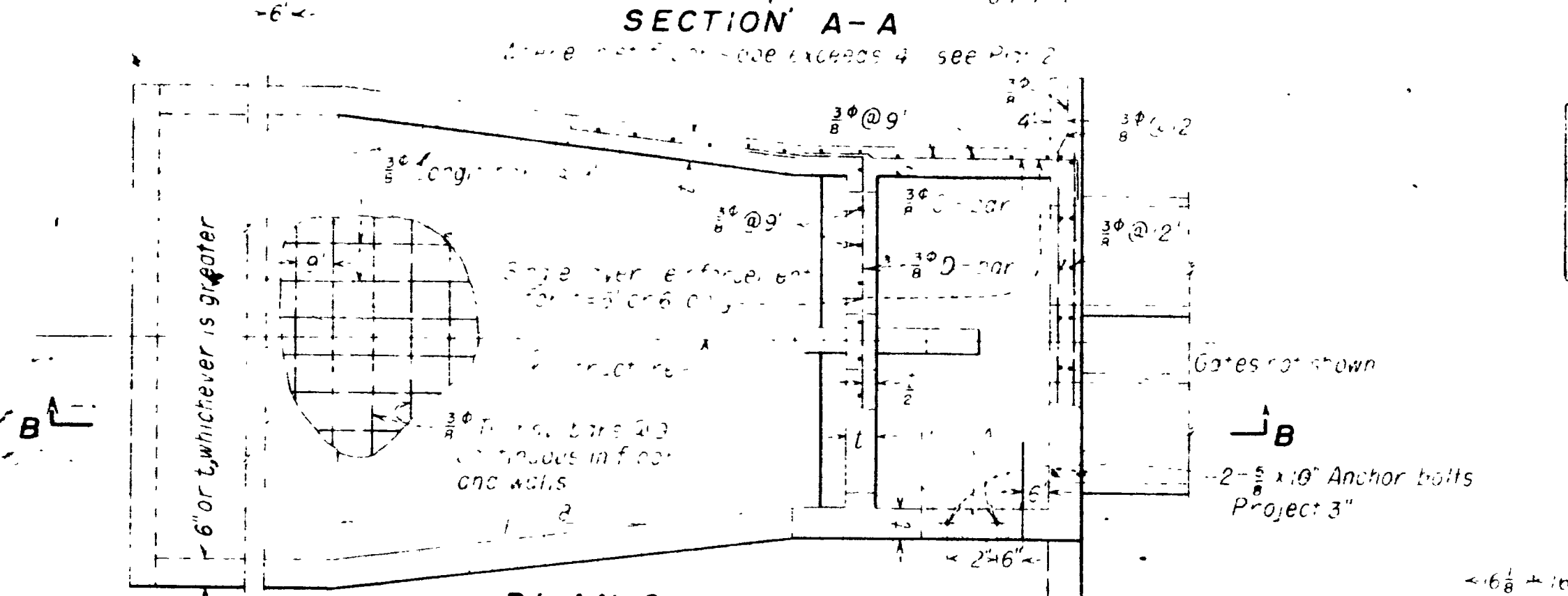
SECTION E-E



SECTION F-F



SECTION G-G

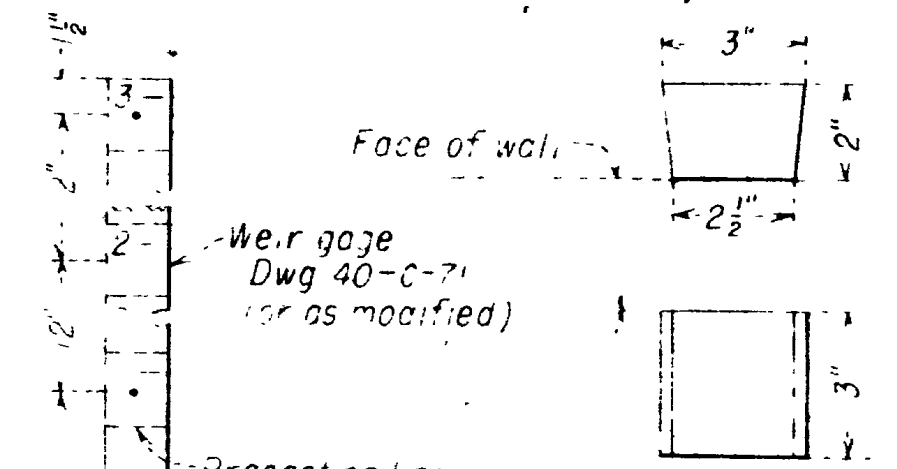


SECTION B-B

INLET WALLS AND FLOOR THICKNESS AND REINFORCEMENT

H	t	REINFORCEMENT AS SHOWN EXCEPT AS NOTED BELOW
2'-3" to 4'-0"	5"	3/8" Long. bars @ 9"
4'-3" to 6'-0"	6"	3/8" Long. bars @ 9" and 3/8" Transv. bars @ 12"
6'-0" to 8'-0"	6"	See Plans 1 and 3

SCALE OF FEET



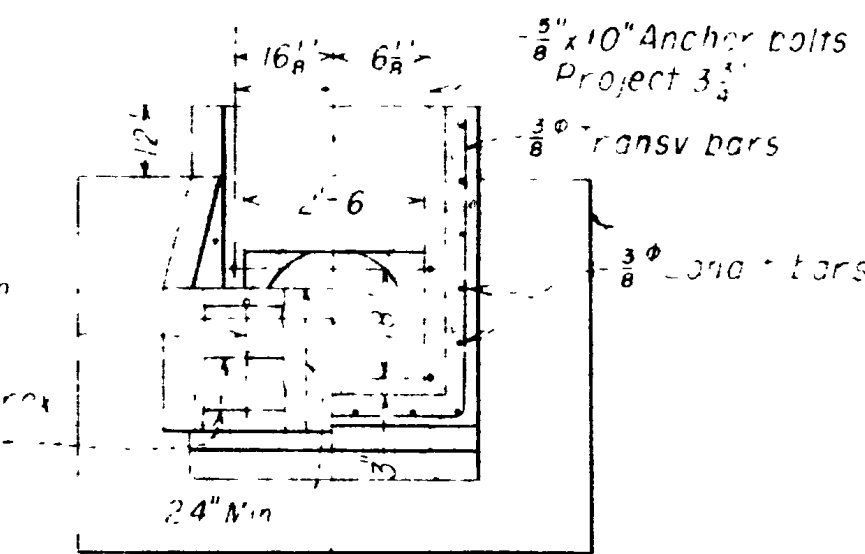
DETAIL NAILING CONCRETE ANCHORS

DETAILS OF GAGE

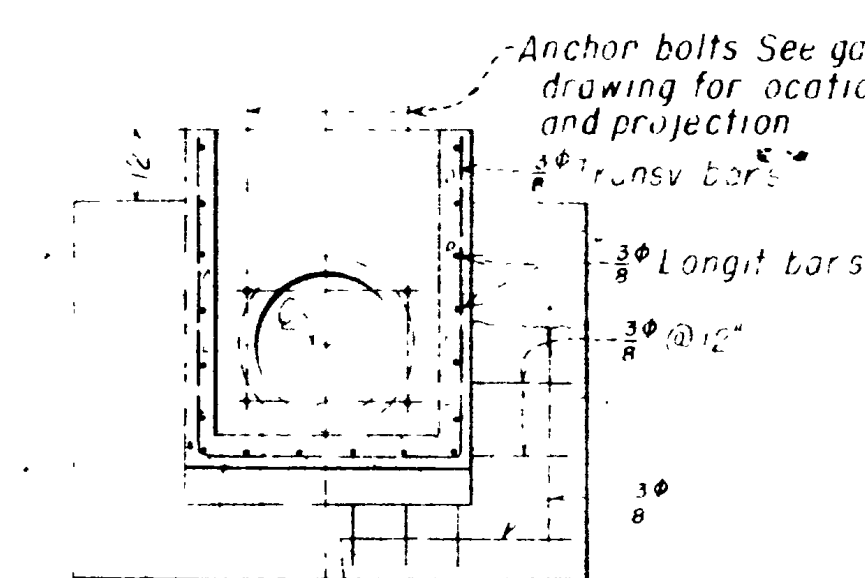
GAGE SETTING (VERTICAL DIMENSIONS)

H	NOMINAL GAGE LENGTH	HEIGHT OF ZERO OF GAGE ABOVE ORIFICE GATE SILL
* a + (0 or 3")	a	6"
* a + (6 or 9")	a + 1 ft	0"

* a = 2'-3" - 6' 0" as required



SECTION H-H



SECTION J-J

OPERATION OF ORIFICE GATE

With loss of 0.20' of head

QUANTITY SEC. FT.	APPROX. ORIFICE GATE OPENING
3	0.48
4	0.64
5	0.79
6	0.95
7	1.10
8	1.26
9	1.41
10	1.56

For any desired Q set orifice gate at opening shown, or as determined by calibration, and adjust turnout gate to obtain a difference of 0.20' in the gage readings.
Discharge shown for one gate only.
Use both gates on 2-bay structures.

NOTES

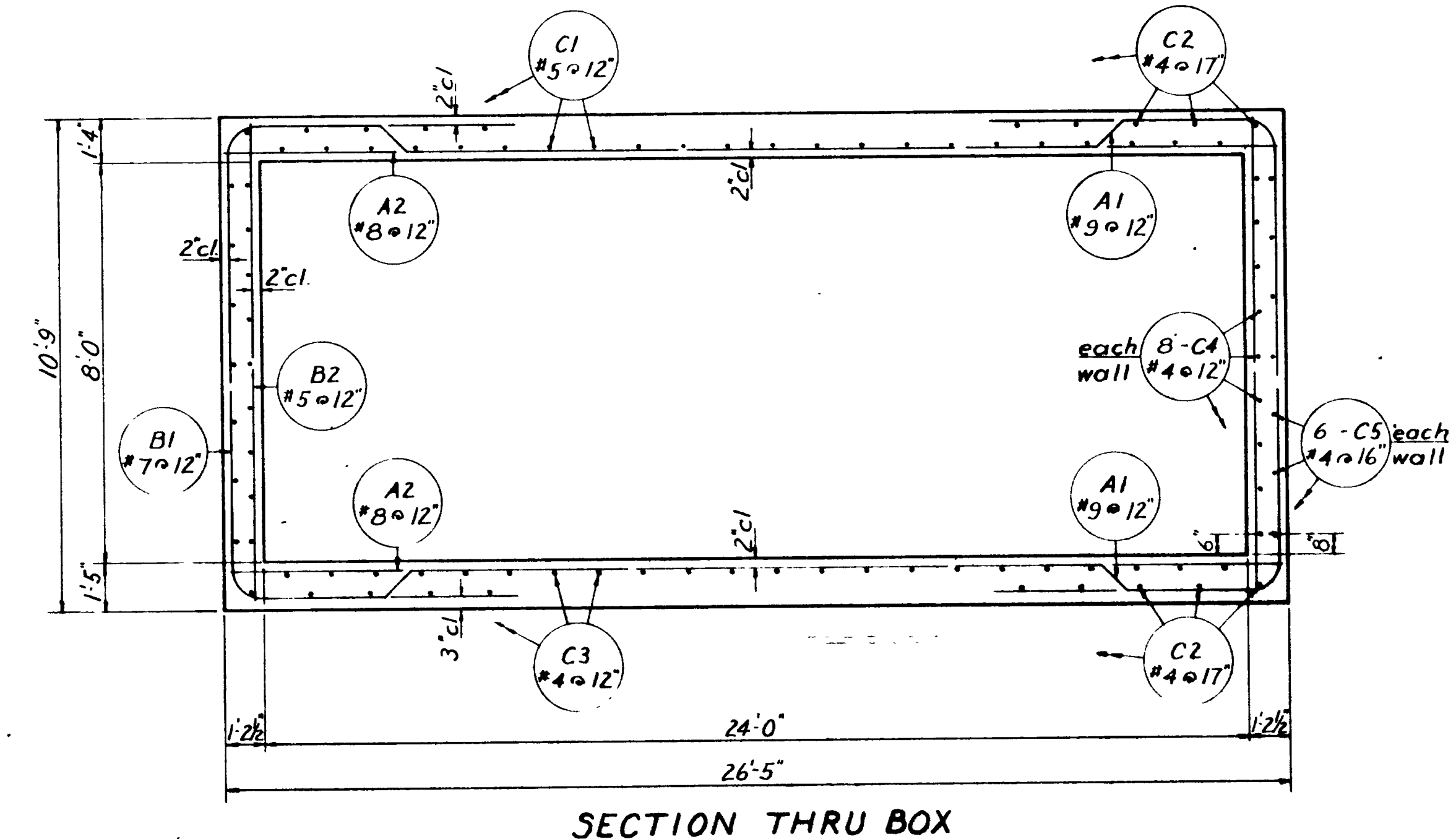
- All reinforcement shall be placed so that the centers of bars in the outer layer will be 2" from face of concrete unless otherwise shown.
- Lap all bars 34 diameters at splices.
- Provide head in addition to that required for operation of orifice gate to cover losses through turnout pipe and pipe. Where sufficient head is available turnout pipe and gate may be made smaller as directed.
- Zero point of both gages to be set at same elevation. Establish W in 3" increments beginning at 3'-3".
- Plans 1 and 2 may be adapted to single barrel structures and Plans 3 and 4 to double barrel structures within limits of operating head requirements.
- For outlet transitions and collars use Dwg's 40-0-3476 and 40-0-4477 with modified pipe spacing.
- t = thickness of walls, floor and crosswall of inlet
- t' = thickness of apron of alternate inlet design
- H = head on orifice gate sill, Max. 6'-0", Min 2'-3"
- H' = head on turnout gate sill, no flow, = H or H minus 3"
- h = min head on orifice gate sill measured from min. water surface assumed in canal for full delivery to lateral.
- For H of 3'-0" or less use for orifice gate, the gate shown on Dwg. 40-0-3731.
- For H of 3'-3" to 6'-0" use for orifice gate, the gate shown on Dwg. 40-0-3702.
- All anchor bolts to be galvanized.

QUANTITIES FOR PLAN 3

STRUCTURAL EXCAVATION	27 CU. YDS.
CONCRETE CLASS "A" A.E.	4.0 CU. YDS.
REINFORCING STEEL	353 LBS.
MECHANICAL TAMPING	18 CU. YDS.

LOC MARK	SIZE	NO BARS	L'GTH	TOTAL L'GTH	SKETCH		
A1	9	146	38'7"	5633'2"			
AIA	4	30'9"	19'9"	24'6"	 1 set (AIA-AIT) = 425'0"		
AIB		29'9"	18'9"	23'6"			
AIC		28'9"	17'9"	22'6"			
AID		27'9"	16'9"	21'6"			
AIE		26'9"	15'9"	20'6"			
AIF		25'9"	14'9"	19'6"			
AIG		24'9"	13'9"	18'6"			
AIH		23'9"	12'9"	17'6"			
AII		22'9"	11'9"	16'6"			
AIJ		21'9"	10'9"	15'6"			
AIK		20'9"	9'9"	14'6"			
AIL		19'9"	8'9"	13'6"			
AIM		18'9"	7'9"	12'6"			
AIN		17'9"	6'9"	11'6"			
AIO		16'9"	5'9"	10'6"			
AIP		15'9"	4'9"	9'6"			
AIQ		14'9"	3'9"	8'6"			
AIR		13'9"	2'9"	7'6"			
AIS		12'9"	1'9"	6'6"			
AIT	9	4	11'9"	0'9"	5'6"		
Slabs							
AZ	8	148	26'1"	3860'4"	 1 set (AZA-AZT) = 290'0"		
AZA		4	24'0"				
AZB			23'0"				
AZC			22'0"				
AZD			21'0"				
AZE			20'0"				
AZF			19'0"				
AZG			18'0"				
AZH			17'0"				
AZI			16'0"				
AZJ			15'0"				
AZK			14'0"				
AZL			13'0"				
AZM			12'0"				
AZN			11'0"				
AZO			10'0"				
AZP			9'0"				
AZQ			8'0"				
AZR			7'0"				
AZS			6'0"				
AZT	8	4	5'0"				
Walls							
B1	7	184	23'8"	4354'8"	 1 set (BIA-B1F) = 111'8"		
BIA		2	21'8"	6'0"			
BIB			19'8"	5'0"			
BIC			17'8"	4'0"			
BID			15'8"	3'0"			
BIE			13'8"	2'0"			
BIF			11'8"	1'0"			
B1G	7	2	11'8"	0'1'0"			
Walls Slabs							
C1	5	24	99'5"	2386'0"			
C2	4	20	99'1"	1981'8"	97'1"		5'-1'0"
C3		24	99'1"	2378'0"	97'1"		
C4		16	100'3"	1604'0"	98'3"		
C5	4	12	100'3"	1203'0"	98'3"		5'-1'0"

LOC MARK	SIZE	NO BARS	L'GTH	TOTAL L'GTH	SKETCH
K1	4	76	9'8"	734'8"	
K2	11	20	36'10"	736'8"	
K3	4	12	38'8"	464'0"	
K4	4	12	36'10"	442'0"	
<p>736'8" of #11 bars @ 5.313 lb/ft = 3913.9 lb.</p> <p>733'2" of #9 bars @ 3.400 lb/ft = 24932.8 lb.</p> <p>5020'4" of #8 bars @ 2.670 lb/ft = 13404.3 lb.</p> <p>4578'0" of #7 bars @ 2.044 lb/ft = 9357.4 lb.</p> <p>4432'0" of #5 bars @ 1.043 lb/ft = 4622.6 lb.</p> <p>8807'4" of #4 bars @ 0.668 lb/ft = 5883.3 lb.</p> <p>Total Weight = 62,114.3 lb.</p> <p>Unless otherwise shown, all dimensions are out to out of bars.</p> <p>1880 LBS. OF #3 BARS - REINFORCING STEEL USED AT CORNERS OF STRUCTURE WHERE LARGE AREAS ARE LEFT UNREINFORCED. THIS WAS DONE TO PROTECT THE STRUCTURE FROM HEAVY LOADS WHICH MAY BE PLACED IN STRUCTURE DURING FUTURE CONTRACTS.</p>					



GENERAL NOTES

Materials, construction, and workmanship shall be in accordance with the State Standard Specifications for Road and Bridge Construction, 1960 Edition, and supplements thereto which are in effect at the date of request for bids.

All reinforcing steel shall be intermediate grade A.A.S.H.O. designation M-31 and deformed per M-137. Type II cement (low alkali) required.

DESIGN DATA

The design is in accordance with the A.A.S.H.O. Specifications of 1961.

Loading: Interstate Alternate or H20-516-44.

fc = 1200 p.s.i.

fs = 20,000 p.s.i.

n = 10

QUANTITIES

Excavation for Structure (Unclassified) 243 cu yd

Class A Concrete (AE) 471.4 cu yd

Reinforcing Steel 73,629 lb

Mechanical Tamping 126 hr

Polyethylene Waterstop 32 ft

UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
STRUCTURES DIVISION

700 SOUTH TO HILLFIELD INTERCHANGE
DAVIS WEBER CANAL AT CLEARFIELD

DESIGNED BY	WGT	CHECKED BY	HGE	PROJECT NUMBER	I-15-7(4)331 1st Cont.
DRAWN BY	WGT	APPROVED BY	HGE	DATE	659+90.13 N.B.
APPROVED BY	WGT	DATE	10/19/62	BY	DAVIS

DATE: 10/19/62

BY: B.L. Sargent

NO. E-1340

1 of 4

REVISOR: [] DATE: []
 REVISOR: [] DATE: []
 REVISOR: [] DATE: []
 REVISOR: [] DATE: []

NO.	LOCATION	SIZE NO.	LENGTH	NO. BARS	TOTAL LENGTH	SKETCH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
E1	Floor-Flume F	4	25'-0"	108	2700'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
E2			40'-1"	100	4008'-4"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
E3	Decrease bar length to in 12" increments		24'-4"	4	1226'-8"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
E24			2'-4"	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
E25	Floor-Flume E		13'-3"	25	331'-3"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
E26		4	35'-1"	10	350'-10"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
F1	Wall-Flume F	4	39'-3"	24	954'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
F2	Increase bar length to in 2'-10" increments		2'-2"	4	82'-4"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
F5			10'-8"	2 (F5 only)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
F6			14'-0"	2	28'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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F8			12'-0"	14	168'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
F9			2'-0"	4	8'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
F10	Walls		4'-6"	4	18'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
F11		4	7'-6"	4	30'-0"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
G1	Wall	5	8'-8"	116	1005'-4"	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr><td>2'-6"</td><td>6'-2"</td></tr> <tr><td>2'-6"</td><td>6'-6"</td></tr> <tr><td>2'-6"</td><td>6'-10"</td></tr> <tr><td>3'-0"</td><td>7'-2"</td></tr> <tr><td>3'-0"</td><td>7'-6"</td></tr> <tr><td>3'-0"</td><td>7'-10"</td></tr> <tr><td>3'-0"</td><td>8'-2"</td></tr> <tr><td>3'-0"</td><td>8'-6"</td></tr> <tr><td>3'-0"</td><td>8'-10"</td></tr> <tr><td>3'-0"</td><td>9'-2"</td></tr> <tr><td>3'-0"</td><td>9'-7"</td></tr> <tr><td>3'-0"</td><td>10'-0"</td></tr> <tr><td>3'-0"</td><td>10'-4"</td></tr> <tr><td>3'-0"</td><td>10'-8"</td></tr> <tr><td>3'-0"</td><td>11'-0"</td></tr> <tr><td>3'-0"</td><td>11'-4"</td></tr> <tr><td>3'-0"</td><td>11'-8"</td></tr> <tr><td>3'-0"</td><td>12'-0"</td></tr> <tr><td>3'-0"</td><td>12'-4"</td></tr> <tr><td>3'-0"</td><td>12'-8"</td></tr> <tr><td>3'-0"</td><td>13'-0"</td></tr> <tr><td>3'-0"</td><td>13'-4"</td></tr> <tr><td>3'-0"</td><td>13'-8"</td></tr> 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<tr><td>3'-0"</td><td>155'-8"</td></tr> <tr><td>3'-0"</td><td>156'-0"</td></tr> <tr><td>3'-0"</td><td>156'-4"</td></tr> <tr><td>3'-0"</td><td>156'-8"</td></tr> <tr><td>3'-0"</td><td>157'-0"</td></tr> <tr><td>3'-0"</td><td>157'-4"</td></tr> <tr><td>3'-0"</td><td>157'-8"</td></tr> <tr><td>3'-0"</td><td>158'-0"</td></tr> <tr><td>3'-0"</td><td>158'-4"</td></tr> <tr><td>3'-0"</td><td>158'-8"</td></tr> <tr><td>3'-0"</td><td>159'-0"</td></tr> <tr><td>3'-0"</td><td>159'-4"</td></tr> <tr><td>3'-0"</td><td>159'-8"</td></tr> <tr><td>3'-0"</td><td>160'-0"</td></tr> <tr><td>3'-0"</td><td>160'-4"</td></tr> <tr><td>3'-0"</td><td>160'-8"</td></tr> <tr><td>3'-0"</td><td>161'-0"</td></tr> <tr><td>3'-0"</td><td>161'-4"</td></tr> <tr><td>3'-0"</td><td>161'-8"</td></tr> <tr><td>3'-0"</td><td>162'-0"</td></tr> <tr><td>3'-0"</td><td>162'-4"</td></tr> <tr><td>3'-0"</td><td>162'-8"</td></tr> <tr><td>3'-0"</td><td>163'-0"</td></tr> <tr><td>3'-0"</td><td>163'-4"</td></tr> <tr><td>3'-0"</td><td>163'-8"</td></tr> <tr><td>3'-0"</td><td>164'-0"</td></tr> <tr><td>3'-0"</td><td>164'-4"</td></tr> <tr><td>3'-0"</td><td>164'-8"</td></tr> <tr><td>3'-0"</td><td>165'-0"</td></tr> <tr><td>3'-0"</td><td>165'-4"</td></tr> <tr><td>3'-0"</td><td>165'-8"</td></tr> <tr><td>3'-0"</td><td>166'-0"</td></tr> <tr><td>3'-0"</td><td>166'-4"</td></tr> <tr><td>3'-0"</td><td>166'-8"</td></tr> <tr><td>3'-0"</td><td>167'-0"</td></tr> <tr><td>3'-0"</td><td>167'-4"</td></tr> <tr><td>3'-0"</td><td>167'-8"</td></tr> <tr><td>3'-0"</td><td>168'-0"</td></tr> <tr><td>3'-0"</td><td>168'-4"</td></tr> <tr><td>3'-0"</td><td>168'-8"</td></tr> <tr><td>3'-0"</td><td>169'-0"</td></tr> <tr><td>3'-0"</td><td>169'-4"</td></tr> <tr><td>3'-0"</td><td>169'-8"</td></tr> <tr><td>3'-0"</td><td>170'-0"</td></tr> <tr><td>3'-0"</td><td>170'-4"</td></tr> <tr><td>3'-0"</td><td>170'-8"</td></tr> <tr><td>3'-0"</td><td>171'-0"</td></tr> <tr><td>3'-0"</td><td>171'-4"</td></tr> <tr><td>3'-0"</td><td>171'-8"</td></tr> <tr><td>3'-0"</td><td>172'-0"</td></tr> <tr><td>3'-0"</td></tr></tbody></table>		a	b	2'-6"	6'-2"	2'-6"	6'-6"	2'-6"	6'-10"	3'-0"	7'-2"	3'-0"	7'-6"	3'-0"	7'-10"	3'-0"	8'-2"	3'-0"	8'-6"	3'-0"	8'-10"	3'-0"	9'-2"	3'-0"	9'-7"	3'-0"	10'-0"	3'-0"	10'-4"	3'-0"	10'-8"	3'-0"	11'-0"	3'-0"	11'-4"	3'-0"	11'-8"	3'-0"	12'-0"	3'-0"	12'-4"	3'-0"	12'-8"	3'-0"	13'-0"	3'-0"	13'-4"	3'-0"	13'-8"	3'-0"	14'-0"	3'-0"	14'-4"	3'-0"	14'-8"	3'-0"	15'-0"	3'-0"	15'-4"	3'-0"	15'-8"	3'-0"	16'-0"	3'-0"	16'-4"	3'-0"	16'-8"	3'-0"	17'-0"	3'-0"	17'-4"	3'-0"	17'-8"	3'-0"	18'-0"	3'-0"	18'-4"	3'-0"	18'-8"	3'-0"	19'-0"	3'-0"	19'-4"	3'-0"	19'-8"	3'-0"	20'-0"	3'-0"	20'-4"	3'-0"	20'-8"	3'-0"	21'-0"	3'-0"	21'-4"	3'-0"	21'-8"	3'-0"	22'-0"	3'-0"	22'-4"	3'-0"	22'-8"	3'-0"	23'-0"	3'-0"	23'-4"	3'-0"	23'-8"	3'-0"	24'-0"	3'-0"	24'-4"	3'-0"	24'-8"	3'-0"	25'-0"	3'-0"	25'-4"	3'-0"	25'-8"	3'-0"	26'-0"	3'-0"	26'-4"	3'-0"	26'-8"	3'-0"	27'-0"	3'-0"	27'-4"	3'-0"	27'-8"	3'-0"	28'-0"	3'-0"	28'-4"	3'-0"	28'-8"	3'-0"	29'-0"	3'-0"	29'-4"	3'-0"	29'-8"	3'-0"	30'-0"	3'-0"	30'-4"	3'-0"	30'-8"	3'-0"	31'-0"	3'-0"	31'-4"	3'-0"	31'-8"	3'-0"	32'-0"	3'-0"	32'-4"	3'-0"	32'-8"	3'-0"	33'-0"	3'-0"	33'-4"	3'-0"	33'-8"	3'-0"	34'-0"	3'-0"	34'-4"	3'-0"	34'-8"	3'-0"	35'-0"	3'-0"	35'-4"	3'-0"	35'-8"	3'-0"	36'-0"	3'-0"	36'-4"	3'-0"	36'-8"	3'-0"	37'-0"	3'-0"	37'-4"	3'-0"	37'-8"	3'-0"	38'-0"	3'-0"	38'-4"	3'-0"	38'-8"	3'-0"	39'-0"	3'-0"	39'-4"	3'-0"	39'-8"	3'-0"	40'-0"	3'-0"	40'-4"	3'-0"	40'-8"	3'-0"	41'-0"	3'-0"	41'-4"	3'-0"	41'-8"	3'-0"	42'-0"	3'-0"	42'-4"	3'-0"	42'-8"	3'-0"	43'-0"	3'-0"	43'-4"	3'-0"	43'-8"	3'-0"	44'-0"	3'-0"	44'-4"	3'-0"	44'-8"	3'-0"	45'-0"	3'-0"	45'-4"	3'-0"	45'-8"	3'-0"	46'-0"	3'-0"	46'-4"	3'-0"	46'-8"	3'-0"	47'-0"	3'-0"	47'-4"	3'-0"	47'-8"	3'-0"	48'-0"	3'-0"	48'-4"	3'-0"	48'-8"	3'-0"	49'-0"	3'-0"	49'-4"	3'-0"	49'-8"	3'-0"	50'-0"	3'-0"	50'-4"	3'-0"	50'-8"	3'-0"	51'-0"	3'-0"	51'-4"	3'-0"	51'-8"	3'-0"	52'-0"	3'-0"	52'-4"	3'-0"	52'-8"	3'-0"	53'-0"	3'-0"	53'-4"	3'-0"	53'-8"	3'-0"	54'-0"	3'-0"	54'-4"	3'-0"	54'-8"	3'-0"	55'-0"	3'-0"	55'-4"	3'-0"	55'-8"	3'-0"	56'-0"	3'-0"	56'-4"	3'-0"	56'-8"	3'-0"	57'-0"	3'-0"	57'-4"	3'-0"	57'-8"	3'-0"	58'-0"	3'-0"	58'-4"	3'-0"	58'-8"	3'-0"	59'-0"	3'-0"	59'-4"	3'-0"	59'-8"	3'-0"	60'-0"	3'-0"	60'-4"	3'-0"	60'-8"	3'-0"	61'-0"	3'-0"	61'-4"	3'-0"	61'-8"	3'-0"	62'-0"	3'-0"	62'-4"	3'-0"	62'-8"	3'-0"	63'-0"	3'-0"	63'-4"	3'-0"	63'-8"	3'-0"	64'-0"	3'-0"	64'-4"	3'-0"	64'-8"	3'-0"	65'-0"	3'-0"	65'-4"	3'-0"	65'-8"	3'-0"	66'-0"	3'-0"	66'-4"	3'-0"	66'-8"	3'-0"	67'-0"	3'-0"	67'-4"	3'-0"	67'-8"	3'-0"	68'-0"	3'-0"	68'-4"	3'-0"	68'-8"	3'-0"	69'-0"	3'-0"	69'-4"	3'-0"	69'-8"	3'-0"	70'-0"	3'-0"	70'-4"	3'-0"	70'-8"	3'-0"	71'-0"	3'-0"	71'-4"	3'-0"	71'-8"	3'-0"	72'-0"	3'-0"	72'-4"	3'-0"	72'-8"	3'-0"	73'-0"	3'-0"	73'-4"	3'-0"	73'-8"	3'-0"	74'-0"	3'-0"	74'-4"	3'-0"	74'-8"	3'-0"	75'-0"	3'-0"	75'-4"	3'-0"	75'-8"	3'-0"	76'-0"	3'-0"	76'-4"	3'-0"	76'-8"	3'-0"	77'-0"	3'-0"	77'-4"	3'-0"	77'-8"	3'-0"	78'-0"	3'-0"	78'-4"	3'-0"	78'-8"	3'-0"	79'-0"	3'-0"	79'-4"	3'-0"	79'-8"	3'-0"	80'-0"	3'-0"	80'-4"	3'-0"	80'-8"	3'-0"	81'-0"	3'-0"	81'-4"	3'-0"	81'-8"	3'-0"	82'-0"	3'-0"	82'-4"	3'-0"	82'-8"	3'-0"	83'-0"	3'-0"	83'-4"	3'-0"	83'-8"	3'-0"	84'-0"	3'-0"	84'-4"	3'-0"	84'-8"	3'-0"	85'-0"	3'-0"	85'-4"	3'-0"	85'-8"	3'-0"	86'-0"	3'-0"	86'-4"	3'-0"	86'-8"	3'-0"	87'-0"	3'-0"	87'-4"	3'-0"	87'-8"	3'-0"	88'-0"	3'-0"	88'-4"	3'-0"	88'-8"	3'-0"	89'-0"	3'-0"	89'-4"	3'-0"	89'-8"	3'-0"	90'-0"	3'-0"	90'-4"	3'-0"	90'-8"	3'-0"	91'-0"	3'-0"	91'-4"	3'-0"	91'-8"	3'-0"	92'-0"	3'-0"	92'-4"	3'-0"	92'-8"	3'-0"	93'-0"	3'-0"	93'-4"	3'-0"	93'-8"	3'-0"	94'-0"	3'-0"	94'-4"	3'-0"	94'-8"	3'-0"	95'-0"	3'-0"	95'-4"	3'-0"	95'-8"	3'-0"	96'-0"	3'-0"	96'-4"	3'-0"	96'-8"	3'-0"	97'-0"	3'-0"	97'-4"	3'-0"	97'-8"	3'-0"	98'-0"	3'-0"	98'-4"	3'-0"	98'-8"	3'-0"	99'-0"	3'-0"	99'-4"	3'-0"	99'-8"	3'-0"	100'-0"	3'-0"	100'-4"	3'-0"	100'-8"	3'-0"	101'-0"	3'-0"	101'-4"	3'-0"	101'-8"	3'-0"	102'-0"	3'-0"	102'-4"	3'-0"	102'-8"	3'-0"	103'-0"	3'-0"	103'-4"	3'-0"	103'-8"	3'-0"	104'-0"	3'-0"	104'-4"	3'-0"	104'-8"	3'-0"	105'-0"	3'-0"	105'-4"	3'-0"	105'-8"	3'-0"	106'-0"	3'-0"	106'-4"	3'-0"	106'-8"	3'-0"	107'-0"	3'-0"	107'-4"	3'-0"	107'-8"	3'-0"	108'-0"	3'-0"	108'-4"	3'-0"	108'-8"	3'-0"	109'-0"	3'-0"	109'-4"	3'-0"	109'-8"	3'-0"	110'-0"	3'-0"	110'-4"	3'-0"	110'-8"	3'-0"	111'-0"	3'-0"	111'-4"	3'-0"	111'-8"	3'-0"	112'-0"	3'-0"	112'-4"	3'-0"	112'-8"	3'-0"	113'-0"	3'-0"	113'-4"	3'-0"	113'-8"	3'-0"	114'-0"	3'-0"	114'-4"	3'-0"	114'-8"	3'-0"	115'-0"	3'-0"	115'-4"	3'-0"	115'-8"	3'-0"	116'-0"	3'-0"	116'-4"	3'-0"	116'-8"	3'-0"	117'-0"	3'-0"	117'-4"	3'-0"	117'-8"	3'-0"	118'-0"	3'-0"	118'-4"	3'-0"	118'-8"	3'-0"	119'-0"	3'-0"	119'-4"	3'-0"	119'-8"	3'-0"	120'-0"	3'-0"	120'-4"	3'-0"	120'-8"	3'-0"	121'-0"	3'-0"	121'-4"	3'-0"	121'-8"	3'-0"	122'-0"	3'-0"	122'-4"	3'-0"	122'-8"	3'-0"	123'-0"	3'-0"	123'-4"	3'-0"	123'-8"	3'-0"	124'-0"	3'-0"	124'-4"	3'-0"	124'-8"	3'-0"	125'-0"	3'-0"	125'-4"	3'-0"	125'-8"	3'-0"	126'-0"	3'-0"	126'-4"	3'-0"	126'-8"	3'-0"	127'-0"	3'-0"	127'-4"	3'-0"	127'-8"	3'-0"	128'-0"	3'-0"	128'-4"	3'-0"	128'-8"	3'-0"	129'-0"	3'-0"	129'-4"	3'-0"	129'-8"	3'-0"	130'-0"	3'-0"	130'-4"	3'-0"	130'-8"	3'-0"	13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9	128	38'2"	4885'4"
4		30'6"	19'9" 24'5"
1		29'5"	18'8" 23'4"
		28'4"	17'7" 22'3"
		27'3"	16'6" 21'2"
		26'2"	15'5" 20'1"
		25'1"	14'4" 19'0"
		24'0"	13'3" 17'11"
A10		22'11"	12'2" 16'10"
A11		21'10"	11'1" 15'9"
A12		20'9"	10'0" 14'8"
		19'8"	8'11" 13'7"
		18'7"	7'10" 12'6"
		17'6"	6'9" 11'5"
		16'5"	5'8" 10'4"
		15'4"	4'7" 9'3"
		14'3"	3'6" 8'2"
A10		13'2"	2'5" 7'1"
A11		12'1"	1'4" 6'0"
A15	9	4	11'0" 0'3" 4'11"

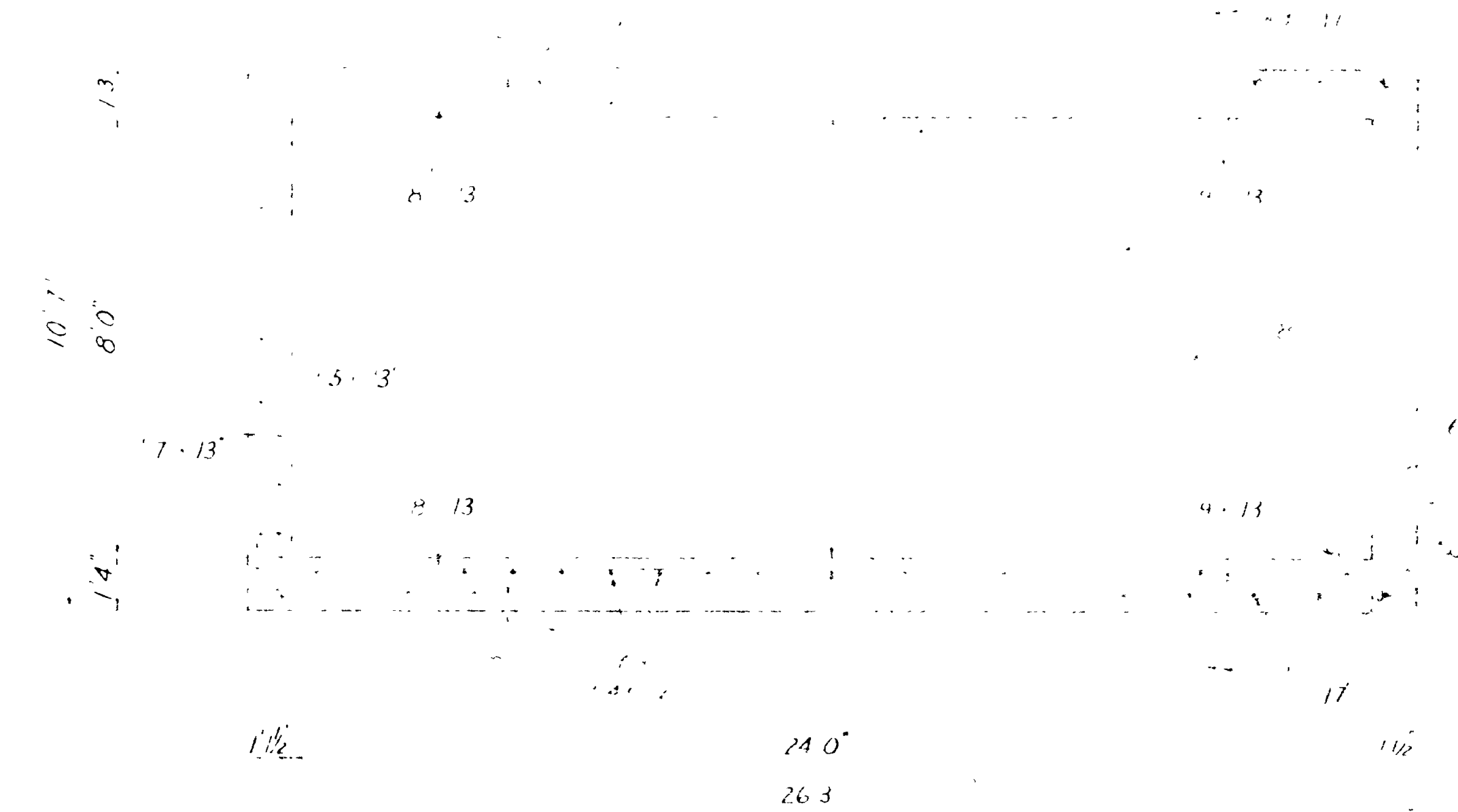
76	0'8"	734'8"
20	3'7"	131'6"
4	12'	35'5" 46'10"
K4	4	12' 1'7" 139'0"

121'8"	of #11 bars @ 53x3	Area	38873 lb
4467'4"	of #9 bars @ 3400	Area	219719 lb
4439'4"	of #8 bars @ 2610	Area	118735 lb
3981'4"	of #7 bars @ 2044	Area	81378 lb
4087'4"	of #6 bars @ 1643	Area	42631 lb
8035'0"	of #5 bars @ 1268	Area	57014 lb

NOTE: ALL REINFORCING BARS TO BE PLACED IN PLACE WHILE CONCRETE IS SET. THIS REINFORCING IS TO BE DONE THROUGH THE FORMS FOR THE WALL. THE ST. SHALL BE TO THE CENTER LINE OF THE WALL.

8	130	25'11"	3369'2"
4		23'10"	
		22'9"	
		21'8"	
		20'7"	
		19'6"	
		18'5"	
		17'4"	
		16'3"	
		15'2"	
		14'1"	1070'4"
		13'0"	
		11'9"	5 267'7"
		10'8"	
		9'7"	
		8'6"	
		7'5"	
A20		6'4"	
A21		5'3"	
A25	3	4	4'4"

7	162	23'2"	3153'2"
4		22'1"	
		21'0"	
		19'9"	
		18'8"	
		17'7"	
		16'6"	
		15'5"	
		14'4"	
		13'3"	
		12'2"	
		11'1"	
		10'0"	
		8'11"	
		7'10"	
		6'9"	
		5'8"	
		4'7"	
		3'6"	
		2'5"	
		1'4"	
		0'3"	



SECTION THRU BOX

GENERAL NOTES

1. ALL REINFORCING BARS TO BE PLACED IN PLACE WHILE CONCRETE IS SET. THIS REINFORCING IS TO BE DONE THROUGH THE FORMS FOR THE WALL. THE ST. SHALL BE TO THE CENTER LINE OF THE WALL.

DESIGN DATA

Interstate Alternate on H20 S16

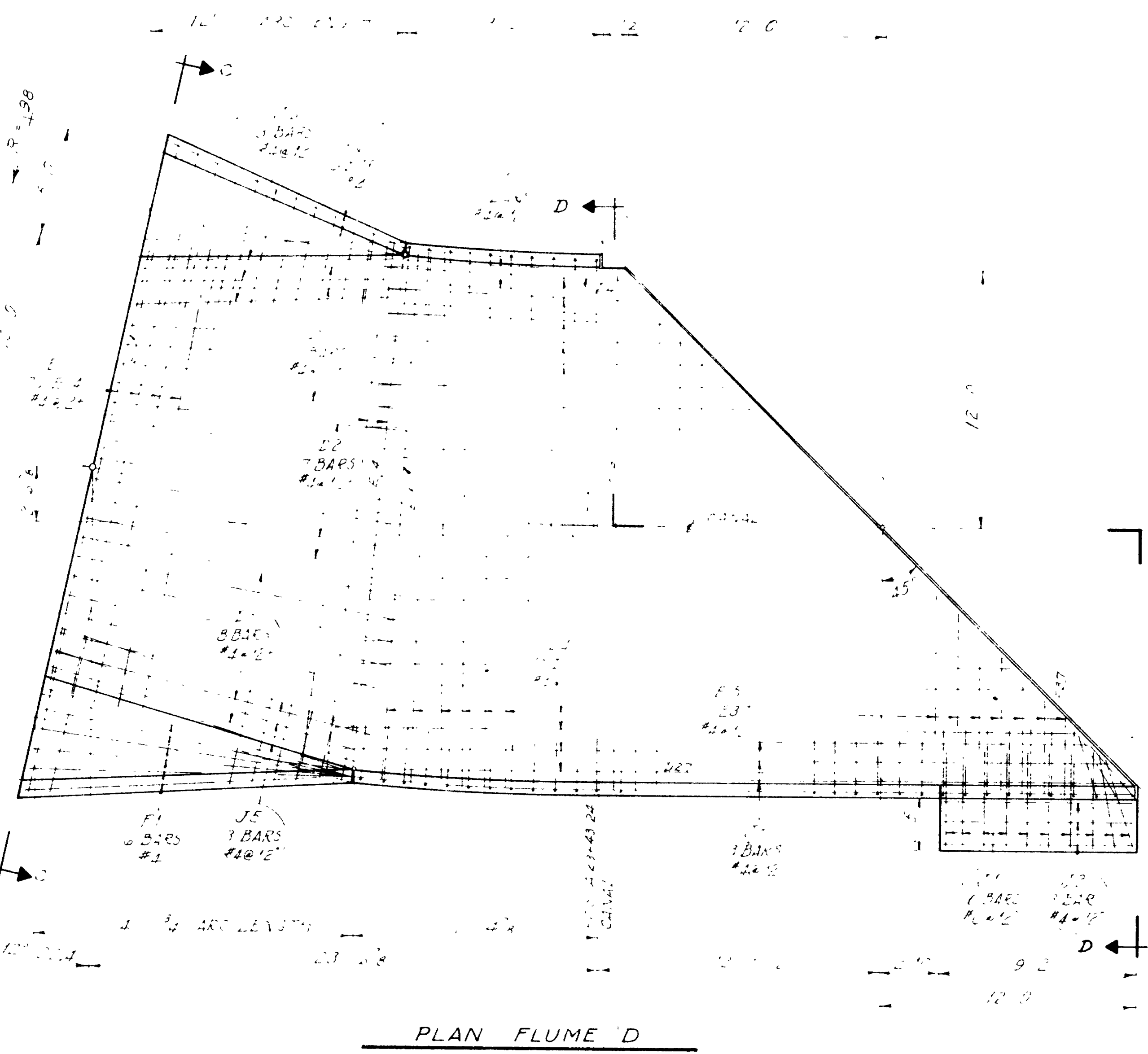
QUANTITIES

170
353
2028
57
32

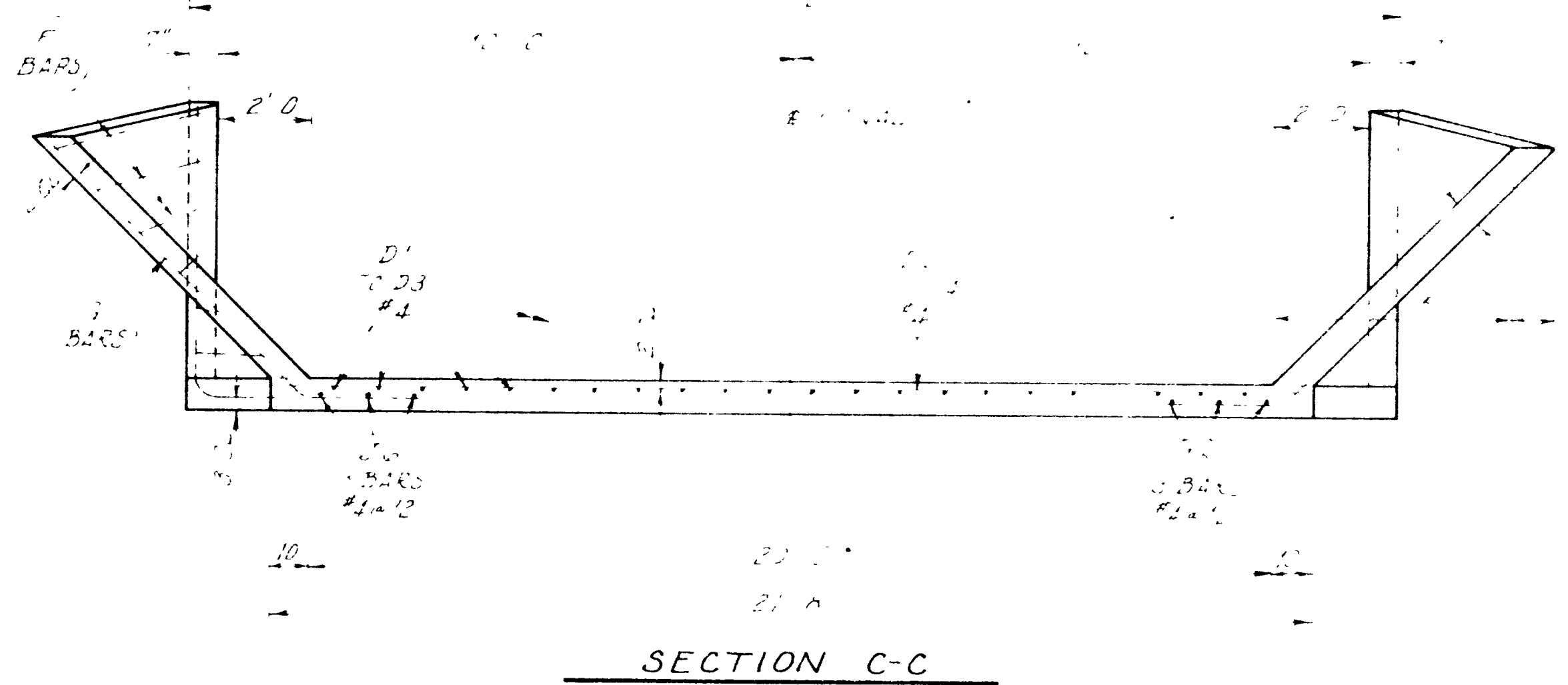
Polyethylene Waterstop 32 lin ft

100 SOUTH TO HILLFIELD INTERCHANGE
DAVIS WEBER CANAL AT CLEARFIELD

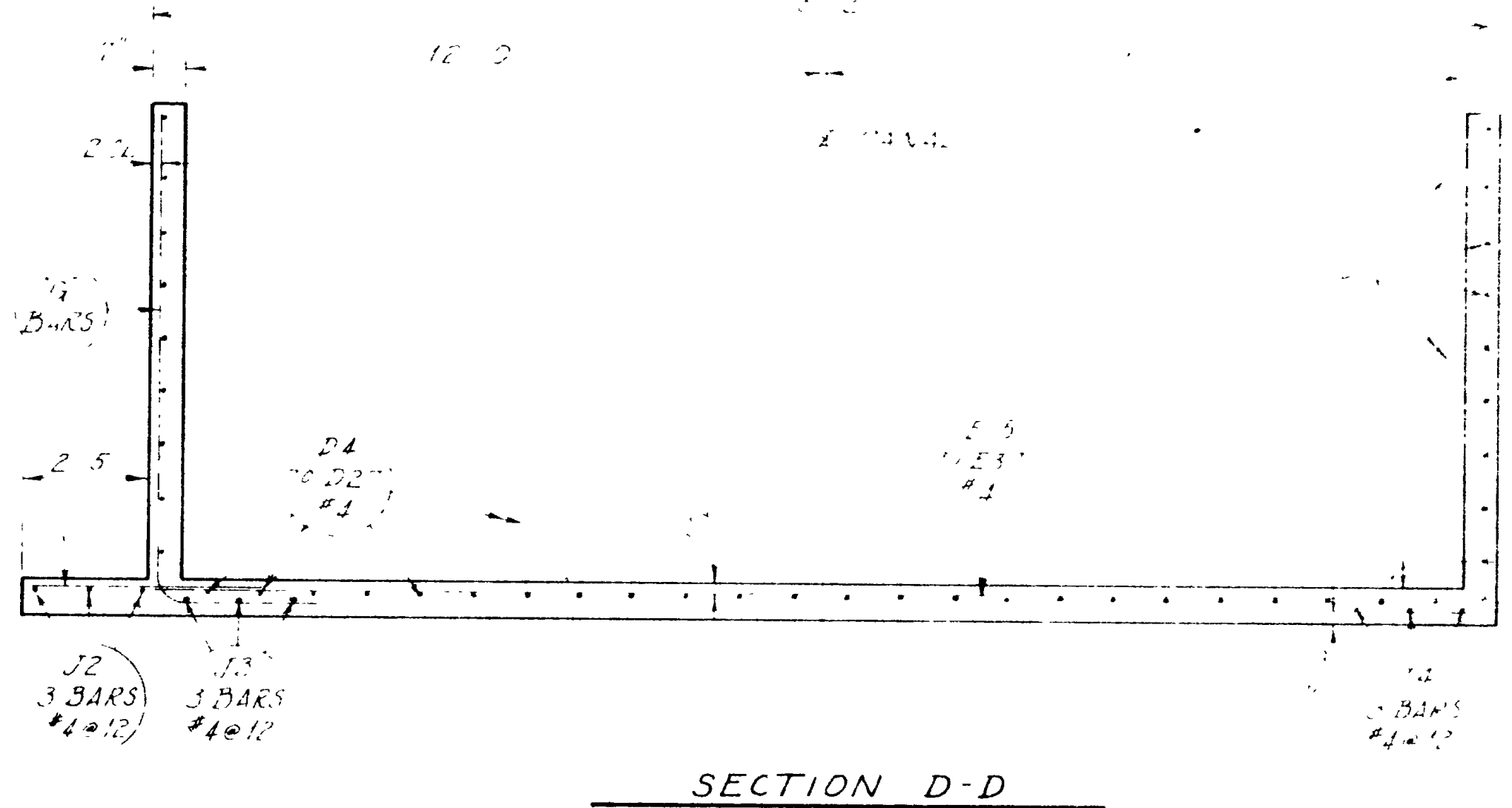
2'5" DIA. 35' DIA.
600' DIA. 35' DIA.
DAVIS



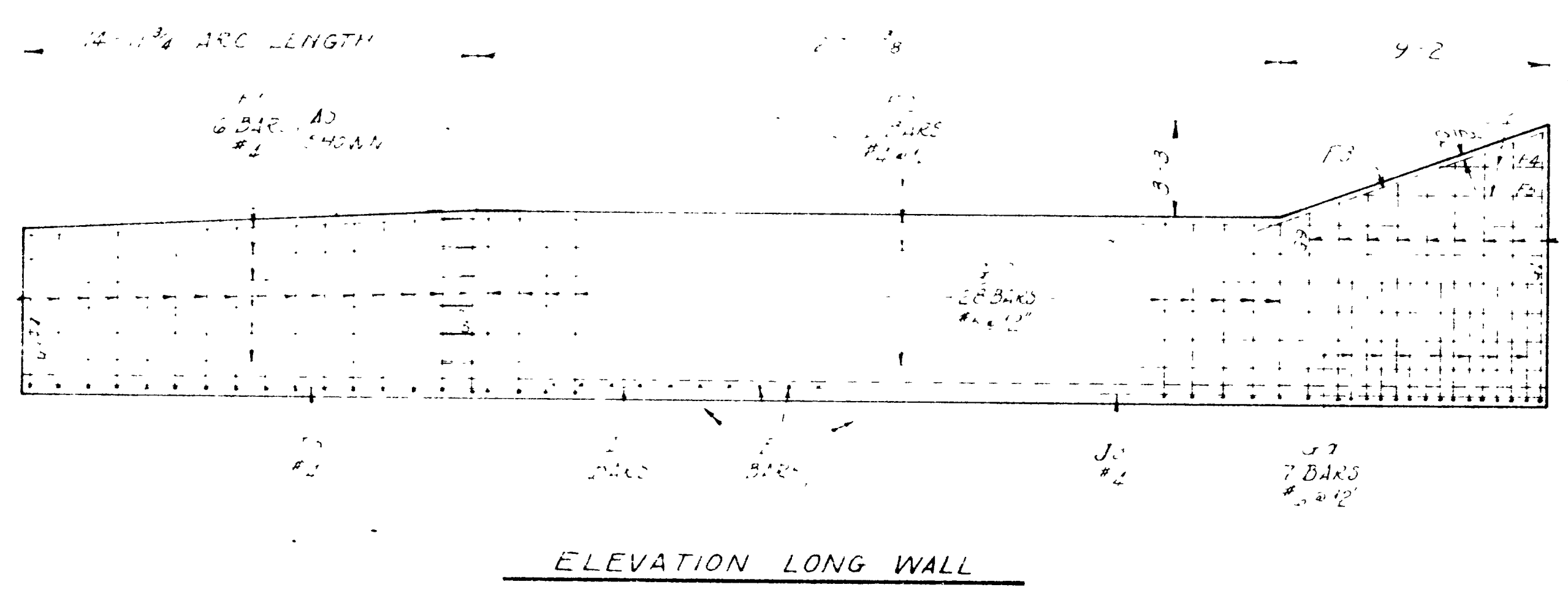
PLAN FLUME 'D'



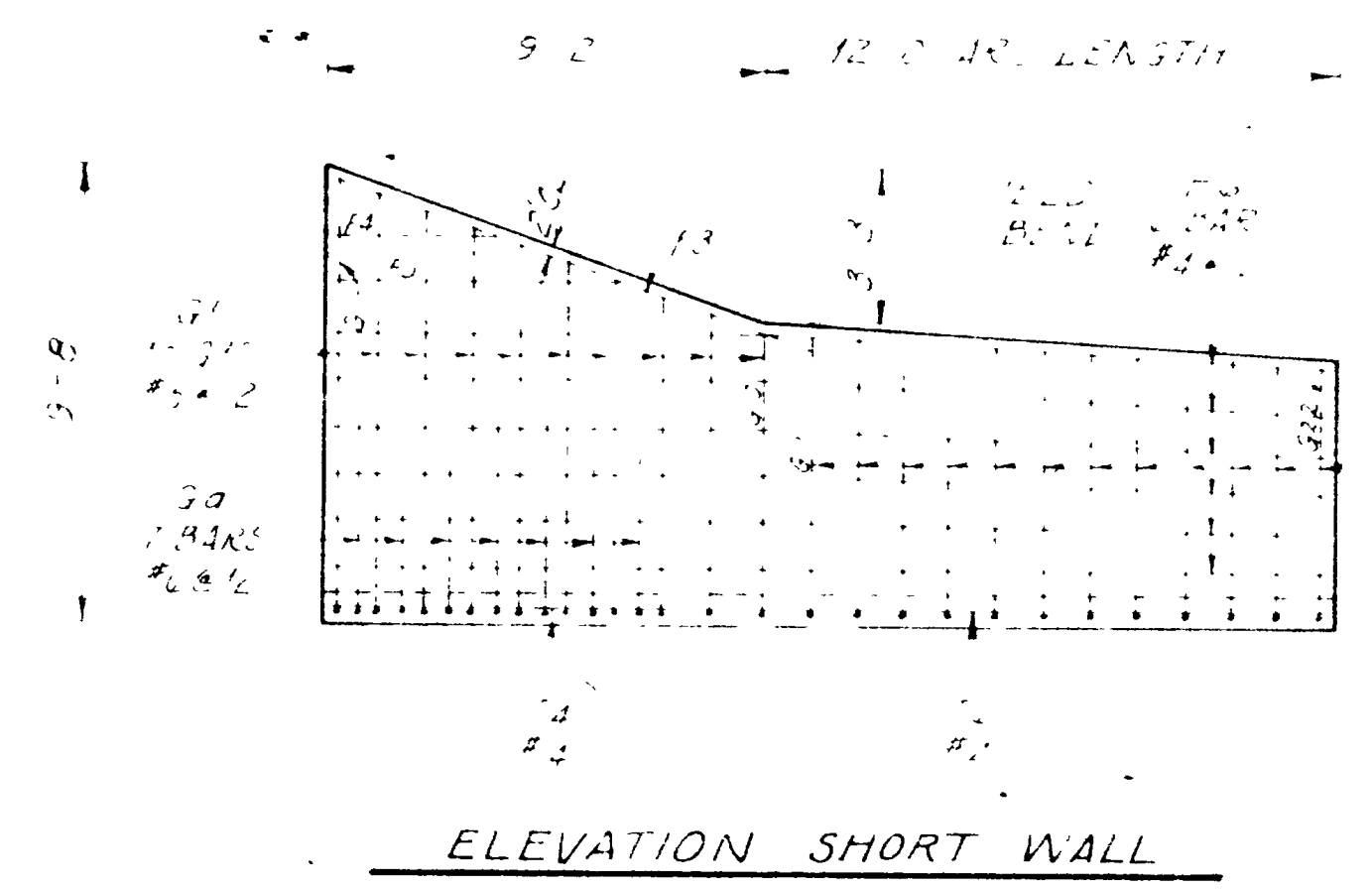
SECTION C-C



SECTION D-D



ELEVATION LONG WALL

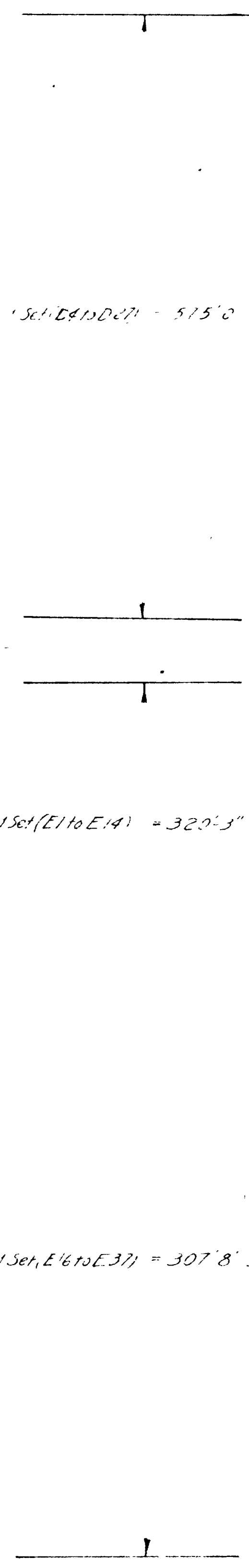


ELEVATION SHORT WALL

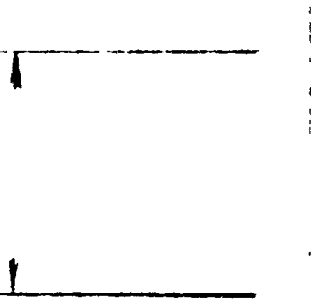
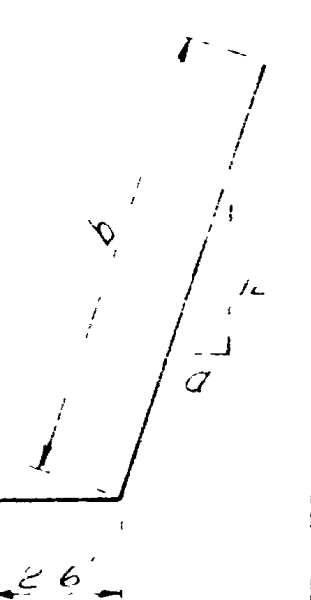
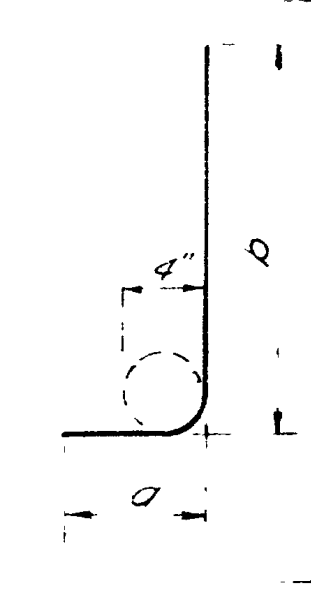
DESIGNED BY
 CHECKED BY
 700 SOUTH TO HALLFIELD INTERCHANGE
 DAVIS-WEBER CANAL AT CLEARFIELD

15-7(4)331 152
 660-301353
 DAVIS

D1	Fume Slab	4	13'0"	7	9'0"
D2		4	14'0"	7	9'0"
D3		4	15'0"	8	12'0"
D4		4	16'6"	1	
D5			12'7"		
D6			13'8"		
D7			14'9"		
D8			15'0"		
D9			16'11"		
D10			18'0"		
D11			19'1"		
D12			20'2"		
D13			21'3"		
D14			22'4"		
D15			23'5"		
D16			24'6"		
D17			25'7"		
D18			26'8"		
D19			27'9"		
D20			28'10"		
D21			29'11"		
D22			31'0"		
D23			32'1"		
D24			33'2"		
D25			34'3"		
D26			35'4"		
D27	Fume Slab	4	36'5"	1	
E1	Fume Slab	4	21'0"	1	
E2			21'3"		
E3			21'7"		
E4			21'10"		
E5			22'2"		
E6			22'5"		
E7			22'9"		
E8			23'0"		
E9			23'4"		
E10			23'7"		
E11			23'11"		
E12			24'2"		
E13			24'6"		
E14			24'9"		
E15		4	24'10"	10	24'4"
E16		4	24'2"	1	
E17			23'6"		
E18			22'6"		
E19			21'6"		
E20			20'6"		
E21			19'6"		
E22			18'6"		
E23			17'6"		
E24			16'6"		
E25			15'6"		
E26			14'6"		
E27			13'6"		
E28			12'6"		
E29			11'6"		
E30			10'6"		
E31			9'6"		
E32			8'6"		
E33			7'6"		
E34			6'6"		
E35			5'6"		
E36			4'6"		
E37			3'6"		
E38			2'6"		
E39			1'6"		
E40			0'6"		
E41			0'0"		
E42			0'0"		
E43			0'0"		
E44			0'0"		
E45			0'0"		
E46			0'0"		
E47			0'0"		
E48			0'0"		
E49			0'0"		
E50			0'0"		



F1	Wall - Long	4	3'7"	6	99'0"
F2			3'7"	6	22'5'6"
F3	Wall		10'6"	2	2'0"
F4			3'8"	2	7'4"
F5			6'6"	2	13'0"
F6	Wall - Short	4	20'0"	6	12'0"
G0	Wall	6	7'0"	14	98'0"
G1		5	12'2"	2	24'4"
G2		1	4'10"	1	23'8"
G3			11'6"	1	23'0"
G4			1	1	22'2"
G5			10'9"	1	21'6"
G6			10'5"	1	20'10"
G7			0'1"	1	20'2"
G8			9'8"	1	19'4"
G9			9'4"	2	18'3"
G10	Wall	5	8'6"	23	246'6"
G11	Wall - Short	5	8'6"	1	6'0"
G12			8'8"	1	6'2"
G13			8'9"	1	6'3"
G14			8'11"	1	6'5"
G15			9'0"	1	6'6"
G16			9'2"	1	6'8"
G17			9'3"	1	6'9"
G18			9'5"	1	6'11"
G19			9'6"	1	6'12"
G20			9'8"	1	6'14"
G21			9'9"	1	6'15"
G22	Wall - Short	5	9'11"	1	12'7'5"
G23	Wall - Long	5	9'6"	1	0'6"
G24			9'7"	1	0'7"
G25			9'8"	1	0'8"
G26			9'10"	1	0'10"
G27			9'11"	1	0'11"
G28			9'10"	1	0'10"
G29			9'11"	1	0'11"
G30			9'2"	1	0'6"
G31			9'4"	1	0'8"
G32			9'5"	1	0'9"
G33			9'6"	1	0'10"
G34			9'7"	1	0'11"
G35			9'9"	1	0'13"
G36			9'10"	1	0'14"
G37	Wall - Long	5	9'11"	1	12'7'5"
H1	Wall	6	1'4"	3	8'1'0"
H2		4	2'10"	3	26'6"
H3		1	36'0"	1	18'0"
H4			9'3"	1	2'9"
H5			3'3"	1	3'3"
H6			3'	1	3'



249 2 11 2 132 8 11 8 711 1 40 03 LBS.
 188 2 11 2 132 8 11 8 711 1 40 03 LBS.
 188 2 11 2 132 8 11 8 711 1 40 03 LBS.

700 SOUTH TO HALL LLE INTERCHANGE
 SAYS WELER...
 10000
 10000
 10000

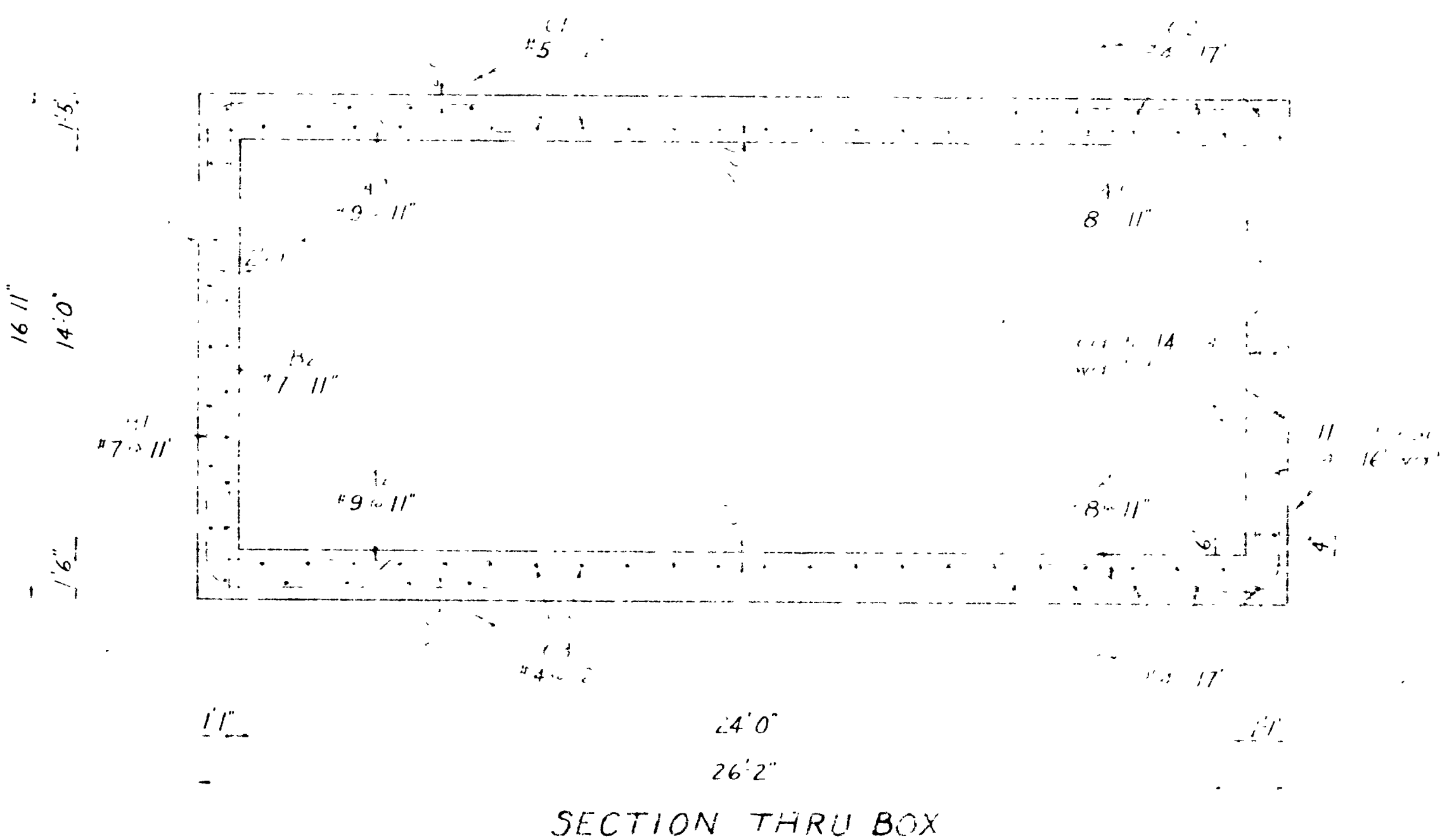
LOC. MARK	NO.	DATE	TIME	LOC. MARK	NO.	DATE	TIME
A1	8	154	44'3"	6814'6"	K1	76	9'8" 734'8"
A1A	4		33'7"	19'8" 24'5"	K2	11	20' 36'6" 730'0"
A1B			32'8"	18'9" 23'4"	K3	4	12' 38'4" 460'0"
A1C			31'9"	17'10" 22'7"	K4	4	12' 36'6" 438'0"
A1D			30'10"	16'11" 21'8"			
A1E			29'11"	15'0" 20'9"			
A1F			29'0"	15'1" 19'10"			
A1G			28'1"	14'2" 18'11"			
A1H			27'2"	13'3" 18'0"			
A1I			26'3"	12'4" 17'1"			
A1J			25'4"	11'5" 16'2"			
A1K			24'5"	10'6" 15'3"			
A1L			23'6"	9'7" 14'4"			
A1M			22'7"	8'8" 13'5"			
A1N			21'8"	7'9" 12'6"			
A1O			20'9"	6'10" 11'7"			
A1P			19'10"	5'11" 10'8"			
A1Q			18'11"	5'0" 9'9"			
A1R			18'0"	4'1" 8'10"			
A1S			17'1"	3'2" 7'11"			
A1T			16'2"	2'3" 7'0"			
A1U			15'3"	1'4" 6'1"			
A1V	8	4	14'4"	0'5" 5'2"			

730'0" of #11 bars @ 5.313 ^{lb}/_{ft} = 3878.5 lb
 5295'0" of #9 bars @ 3.400 ^{lb}/_{ft} = 18,003.0 lb
 8922'10" of #8 bars @ 2.670 ^{lb}/_{ft} = 23,824.0 lb
 9562'0" of #7 bars @ 2.044 ^{lb}/_{ft} = 19,544.7 lb
 2328'0" of #5 bars @ 1.043 ^{lb}/_{ft} = 2,428.1 lb
 10,773'6" of #4 bars @ 0.668 ^{lb}/_{ft} = 7,196.7 lb
 Total Weight 74,875.0 lb

Unless otherwise shown, all dimensions are to be out of bars.

USE #4 OR #9 BARS LENGTH IS 12 FEET UNLESS OTHERWISE NOTED AT JOINTS.

IF STRUCTURE WHERE LARGE HEADS ARE LEFT UNREINFORCED, THIS WAS DONE TO PROTECT THE STRUCTURE FROM HEAVY LOADS WHICH MAY BE APPLIED IN STRUCTURE DURING CONSTRUCTION.



A2	9	156	25'10"	4030'0"
A2A	4		24'0"	
A2B			23'1"	
A2C			22'2"	
A2D			21'3"	
A2E			20'4"	
A2F			19'5"	
A2G			18'6"	
A2H			17'7"	
A2I			16'8"	
A2J			15'9"	
A2K			14'10"	
A2L			13'11"	1265'0"
A2M			13'0"	
A2N			12'1"	
A2O			11'2"	
A2P			10'3"	
A2Q			9'4"	
A2R			8'5"	
A2S			7'6"	
A2T			6'7"	
A2U			5'8"	
A2V	9	4	4'9"	

7	194	29'6"	5732'0"	6'10"
1	2	29'0"		6'7"
		27'2"		5'8"
		25'4"		4'9"
		23'6"		3'10"
		21'8"		2'11"
		19'10"		2'0"
BIG	1	18'0"		1'1"
BIH	7	2	18'0"	182'6"
7	210	16'6"	3465'0"	
5	24	97'0"	2328'0"	94'8" s 1'2" e
		96'8"	1933'4"	94'8" s 1'0" e
		96'8"	2320'0"	94'8" s 1'0" e
		91'9"	2737'0"	95'9" s 1'0" e
		97'9"	2150'6"	95'9" s 1'0" e

GENERAL NOTES

1. All dimensions are to be out of bars unless otherwise noted.

2. Reinforcement bars shall be lap spliced in accordance with the provisions of the ACI Code.

3. The contractor shall be responsible for providing adequate bracing for the reinforcement during construction.

4. The contractor shall be responsible for providing adequate curing for the concrete.

DESIGN DATA

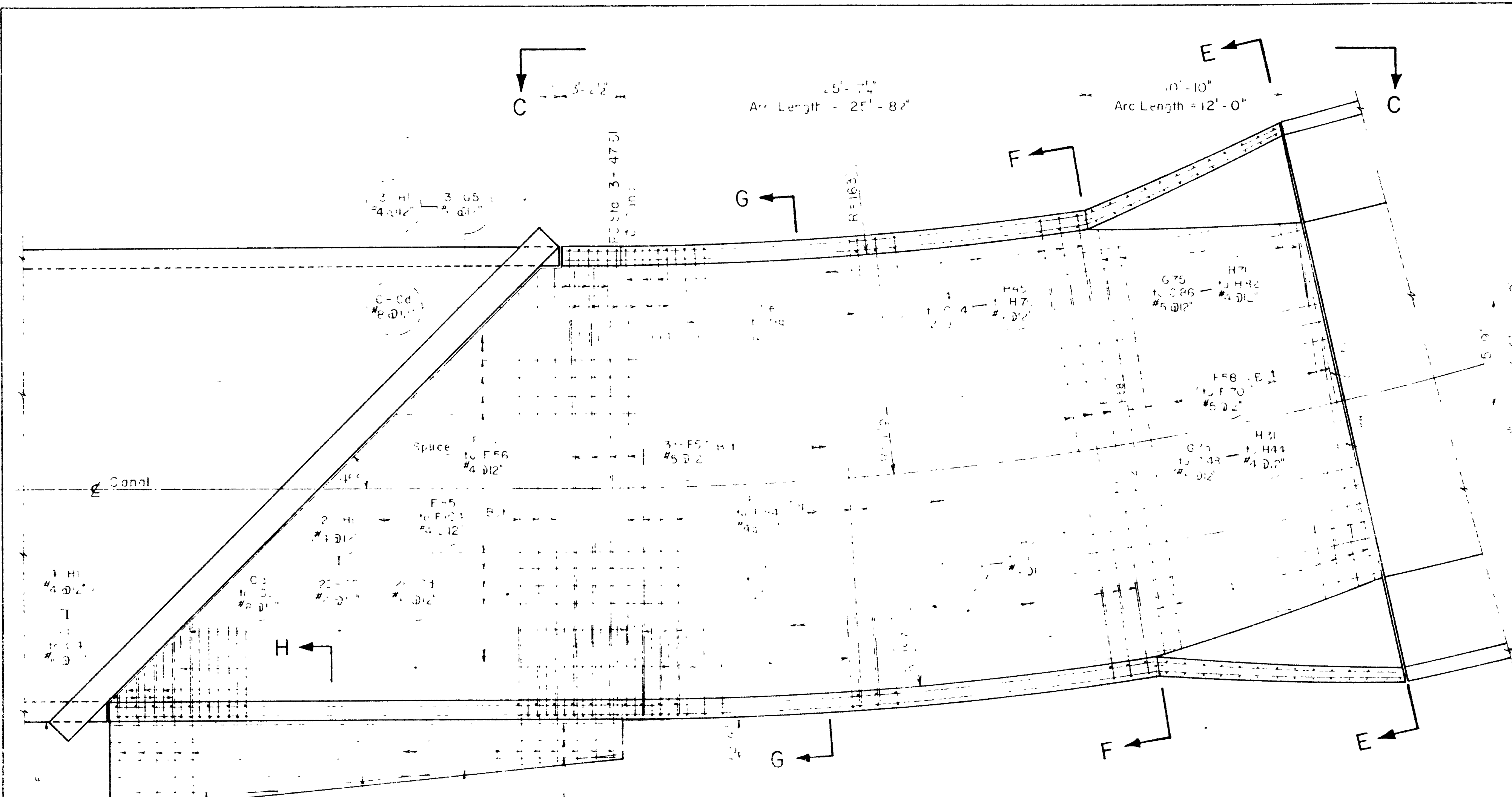
Interstate Alternate or H20-S16-44

261 cu yd
 508 cu yd
 87953 lb
 25' 11"
 56.1 lin ft

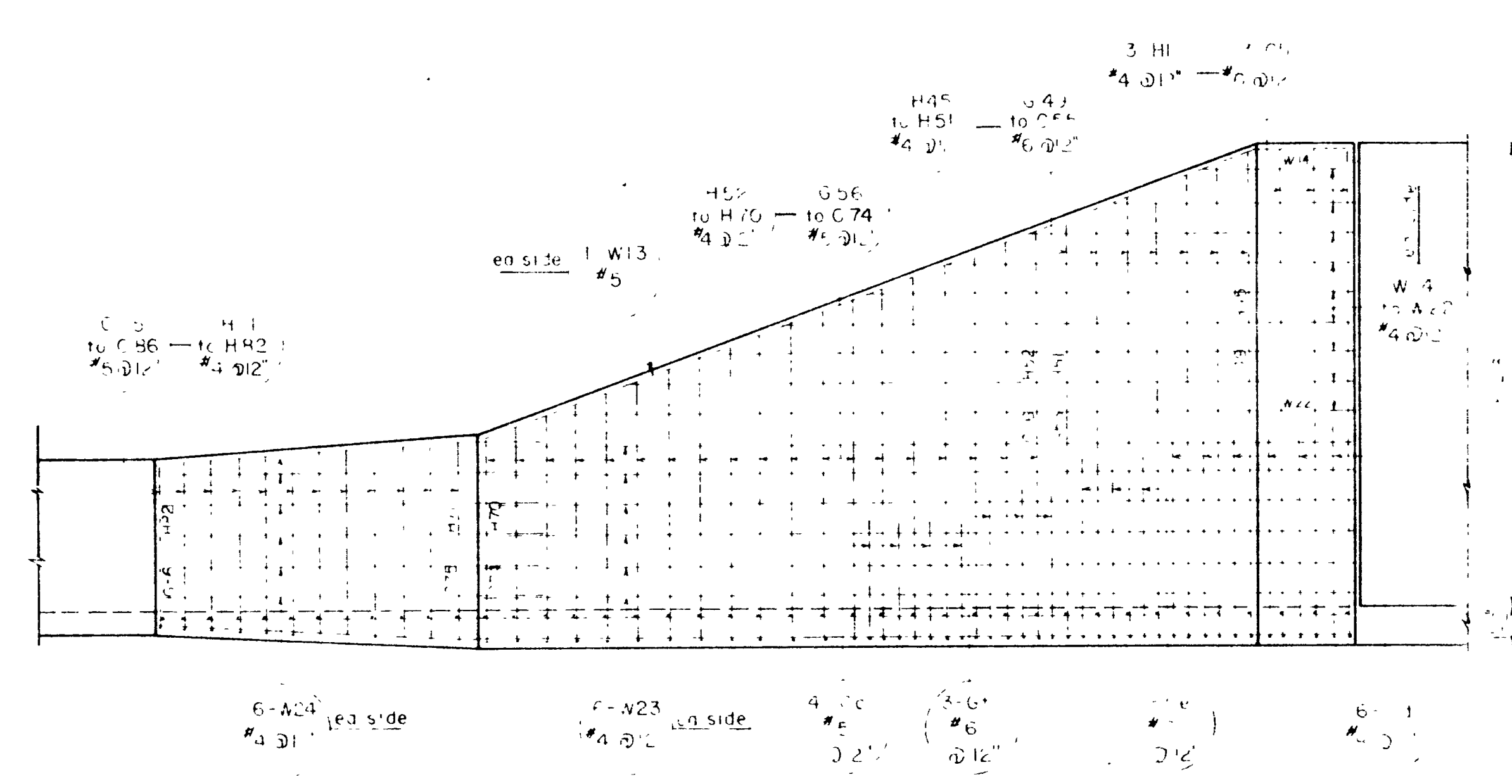
Polyethylene Waterstop

HILLFIELD INTERCHANGE TO WEBER CO. LINE
 DAVIS WEBER CANAL AT SUNSET

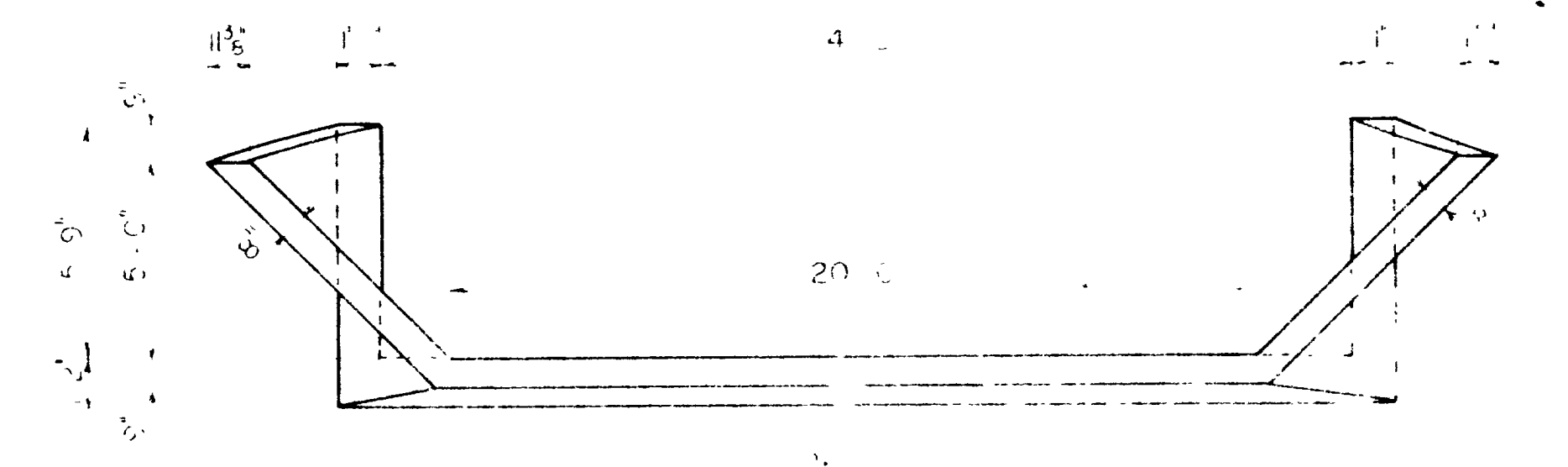
W.G.T.
 W.G.T.
 W.G.T.
 I-15-7(45)332 1st Cont
 187*20 N.B.
 DAVIS



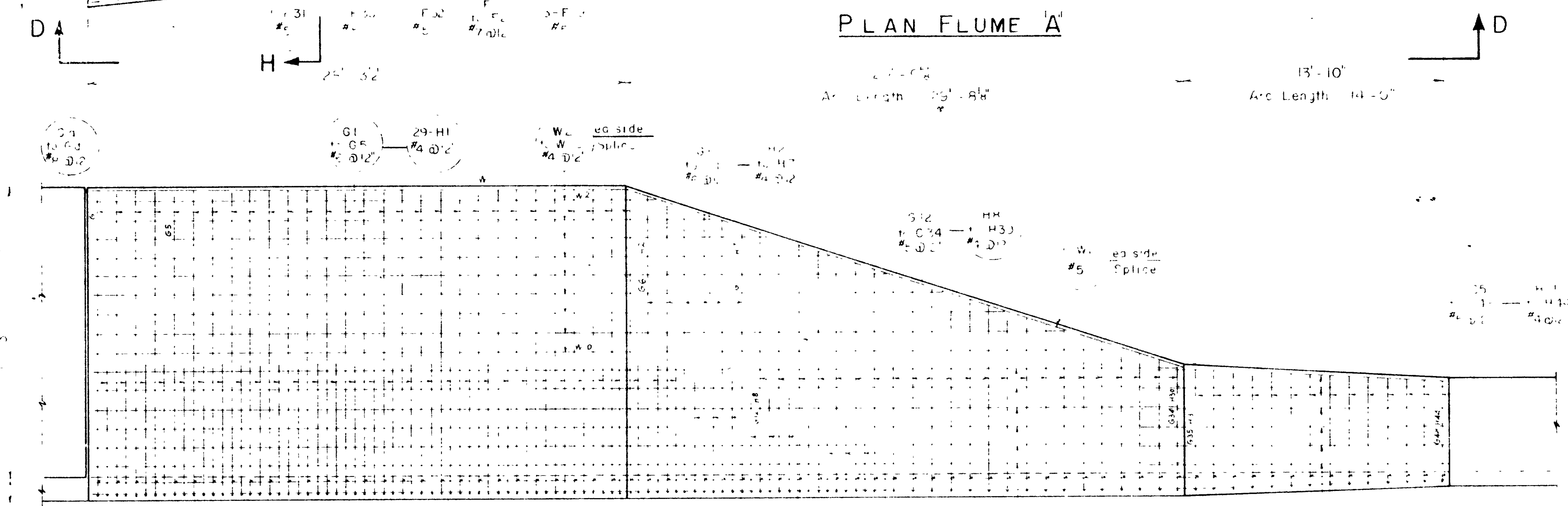
PLAN FLUME A



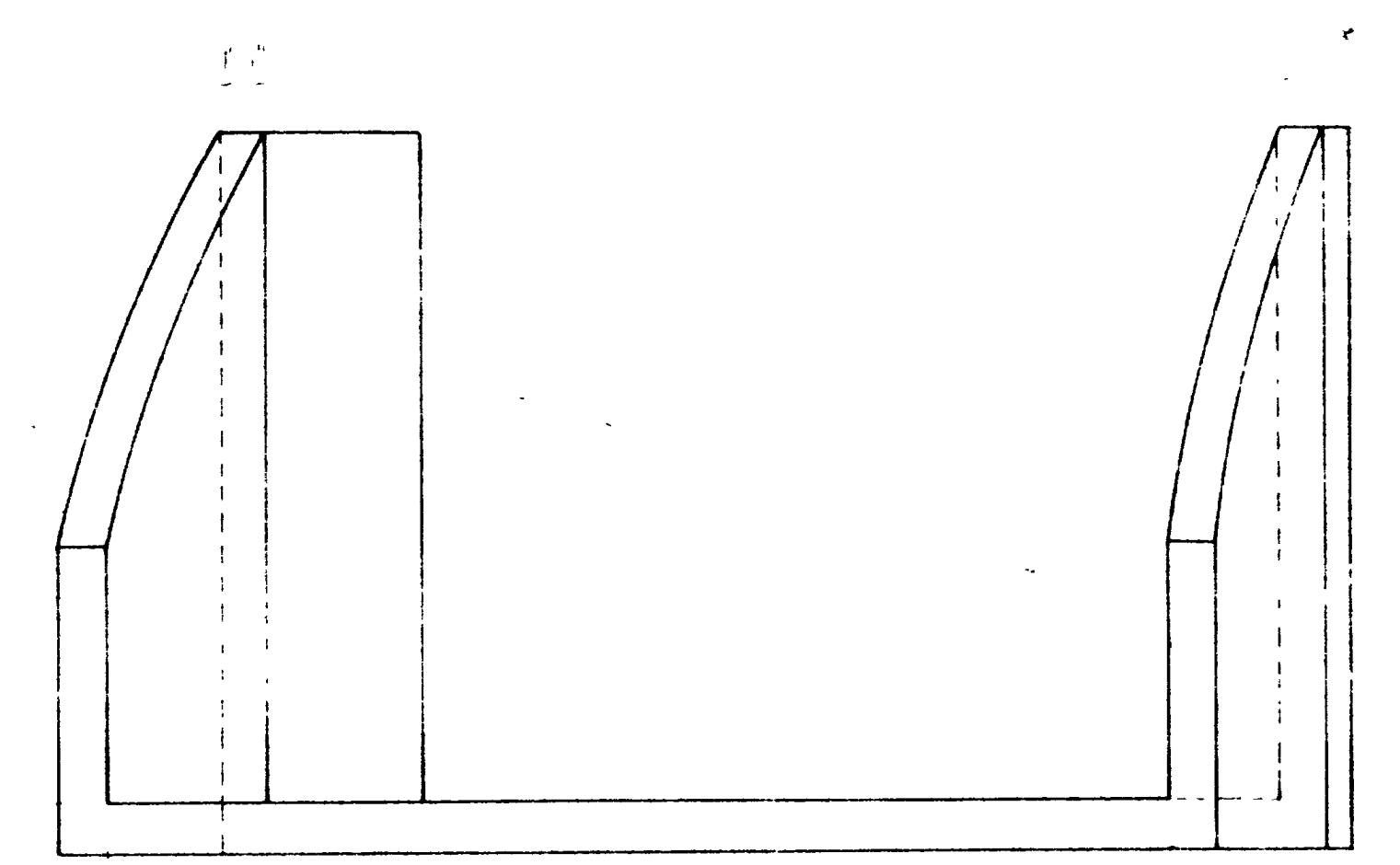
ELEVATION C-C



SECTION E-E



ELEVATION D-D



SECTION F-F

UTAH STATE DEPARTMENT OF HIGHWAYS
 STRUCTURES DIVISION
 HILLFIELD INTERCHANGE TO WEST JORDAN
 JAVIS WATER CANAL AT INSET

HCE
 HCE
 HCE

1-5-1962
 1-5-1962
 1-5-1962

DAVIS

E 1342 1 5

Set (G35-G44) = 557'-11"

Set (G51-G64) = 73'-4"

Set (G75-G86) = 144'-7"

Set (G87-G94) = 115'-0"

Set (G95-G102) = 64'-2"

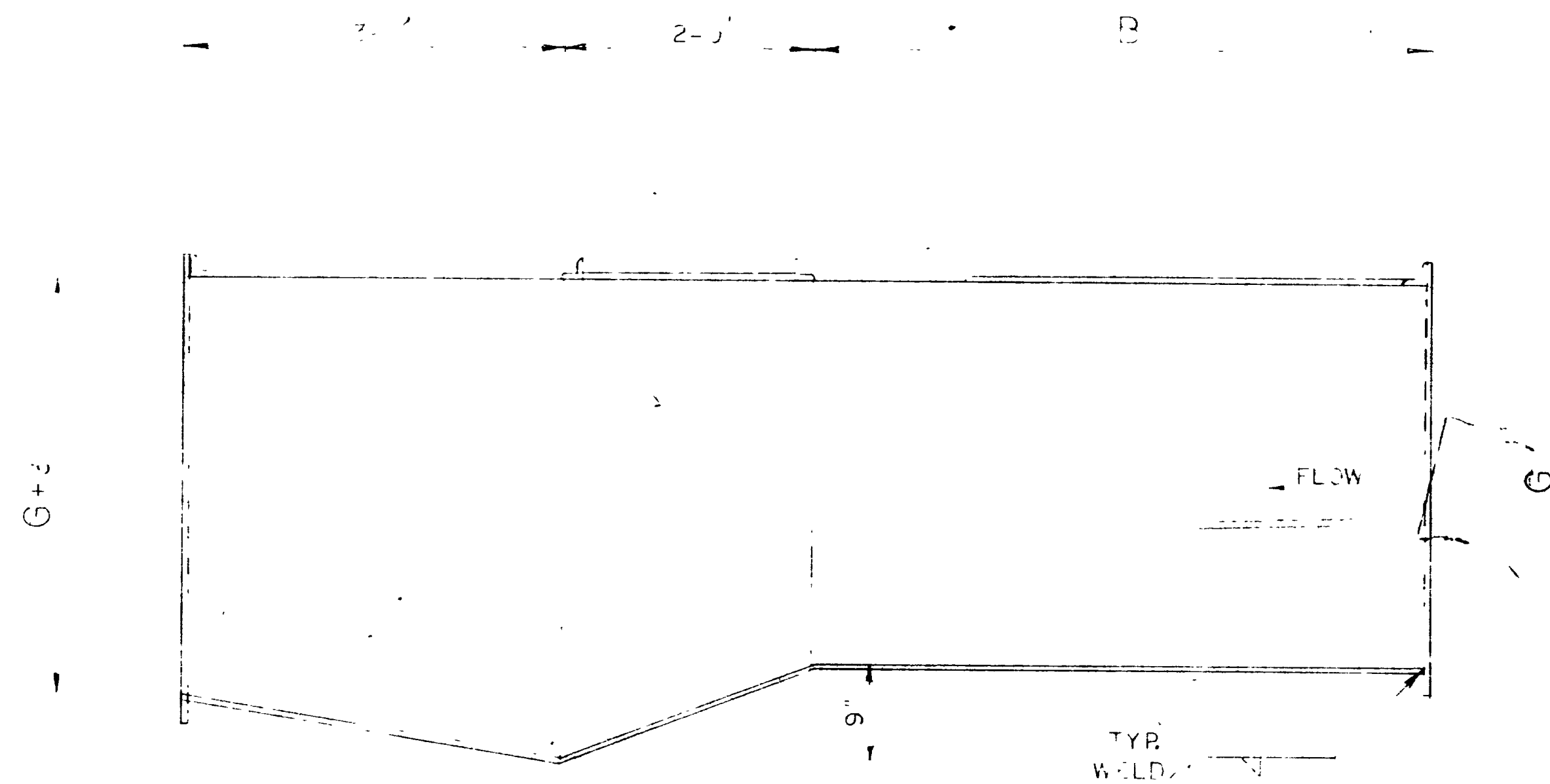
Station	Wall Type	Direction	Length	Height	Notes	Station	Wall Type	Direction	Length	Height	Notes
G35	Long Wall	↑	11'-6"	6'-8"		H2	Long Wall (Vertic)	↑	15'-4"		
G36		↑	11'-2"	6'-4"		H4		↑	15'-0"		
G37		↑	11'-0"	6'-0"		H6		↑	14'-4"		
G38		↑	11'-1"	6'-1"		H7		↑	14'-0"		
G39		↑	11'-2"	6'-2"		H9		↑	13'-8"		
G40		↑	11'-3"	6'-3"		H10		↑	13'-4"		
G41		↑	11'-4"	6'-4"		H11		↑	13'-0"		
G42		↑	11'-5"	6'-5"		H12		↑	12'-8"		
G43		↑	11'-6"	6'-6"		H13		↑	12'-4"		
G44		↑	11'-7"	6'-7"		H14		↑	12'-0"		
G45		↑	11'-8"	6'-8"		H15		↑	11'-8"		
G46		↑	11'-9"	6'-9"		H16		↑	11'-4"		
G47		↑	11'-10"	6'-10"		H17		↑	11'-0"		
G48		↑	11'-11"	6'-11"		H18		↑	10'-4"		
G49	Short Wall	↑	20'-9"	15'-11"		H19		↑	10'-0"		
G50		↑	20'-5"	15'-7"		H20		↑	9'-8"		
G51		↑	20'-0"	15'-2"		H21		↑	9'-4"		
G52		↑	19'-8"	14'-10"		H22		↑	9'-0"		
G53		↑	19'-3"	14'-5"		H23		↑	8'-8"		
G54		↑	18'-11"	14'-1"		H24		↑	8'-4"		
G55		↑	18'-6"	13'-8"		H25		↑	8'-0"		
G56		↑	18'-2"	13'-4"		H26		↑	7'-8"		
G57		↑	17'-9"	12'-11"		H27		↑	7'-4"		
G58		↑	17'-5"	12'-7"		H28		↑	7'-0"		
G59		↑	17'-0"	12'-2"		H29		↑	6'-8"		
G60		↑	16'-8"	11'-10"		H30		↑	6'-4"		
G61		↑	16'-4"	11'-6"		H31		↑	6'-0"		
G62		↑	15'-11"	11'-1"		H32		↑	6'-0"		
G63		↑	15'-7"	10'-9"		H33		↑	6'-3"		
G64		↑	15'-3"	10'-5"		H34		↑	6'-5"		
G65		↑	14'-10"	10'-0"		H35		↑	6'-6"		
G66		↑	14'-6"	9'-8"		H36		↑	6'-8"		
G67		↑	14'-1"	9'-3"		H37		↑	6'-9"		
G68		↑	13'-9"	8'-11"		H38		↑	6'-11"		
G69		↑	13'-4"	8'-6"		H39		↑	7'-0"		
G70		↑	13'-0"	8'-2"		H40		↑	7'-2"		
G71		↑	12'-7"	7'-9"		H41		↑	7'-3"		
G72		↑	12'-3"	7'-5"		H42		↑	7'-5"		
G73		↑	11'-10"	7'-0"		H43		↑	7'-6"		
G74		↑	11'-6"	6'-8"		H44	Long Wall (Vertic)	↑	7'-8"		
G75		↑	11'-5"	6'-5"		H45	Short Wall (Vertic)	↑	15'-11"		
G76		↑	11'-6"	6'-6"		H46		↑	15'-7"		
G77		↑	11'-5"	6'-5"		H47		↑	15'-2"		
G78		↑	11'-9"	6'-9"		H48		↑	14'-10"		
G79		↑	11'-11"	6'-11"		H49		↑	14'-5"		
G80		↑	12'-0"	7'-0"		H50		↑	14'-1"		
G81		↑	12'-1"	7'-1"		H51		↑	13'-8"		
G82		↑	12'-3"	7'-3"		H52		↑	13'-4"		
G83		↑	12'-4"	7'-4"		H53		↑	12'-11"		
G84		↑	12'-5"	7'-5"		H54		↑	12'-7"		
G85		↑	12'-7"	7'-7"		H55		↑	12'-2"		
G86		↑	12'-9"	7'-9"		H56		↑	11'-10"		
G87	Short Wall	↑	12'-4"	7'-4"		H57		↑	11'-6"		
G88		↑	12'-3"	7'-3"		H58		↑	11'-1"		
G89		↑	12'-2"	7'-2"		H59		↑	10'-9"		
G90		↑	12'-1"	7'-1"		H60		↑	10'-5"		
G91	Long Short Wall	↑	10'-9"	3'-6"		H61		↑	10'-0"		
G92		↑	9'-9"	3'-0"		H62		↑	9'-8"		
G93		↑	8'-9"	2'-0"		H63		↑	9'-3"		
G94		↑	7'-9"	1'-0"		H64		↑	8'-11"		
G95		↑	6'-9"	0'-0"		H65	Short Wall (Vertic)	↑	8'-6"		
G96		↑	5'-9"	0'-0"		H66		↑	8'-2"		
G97		↑	4'-9"	0'-0"		H67		↑	7'-8"		
G98		↑	3'-9"	0'-0"		H68		↑	7'-4"		
G99		↑	2'-9"	0'-0"		H69		↑	6'-10"		
G100		↑	1'-9"	0'-0"		H70		↑	6'-6"		
G101		↑	0'-9"	0'-0"		H71		↑	6'-2"		
G102		↑	0'-0"	0'-0"		H72		↑	5'-8"		

HILLFIELD INTERCHANGE TO WEBER CANAL
DAVIS WEBER CANAL AT SUNSET

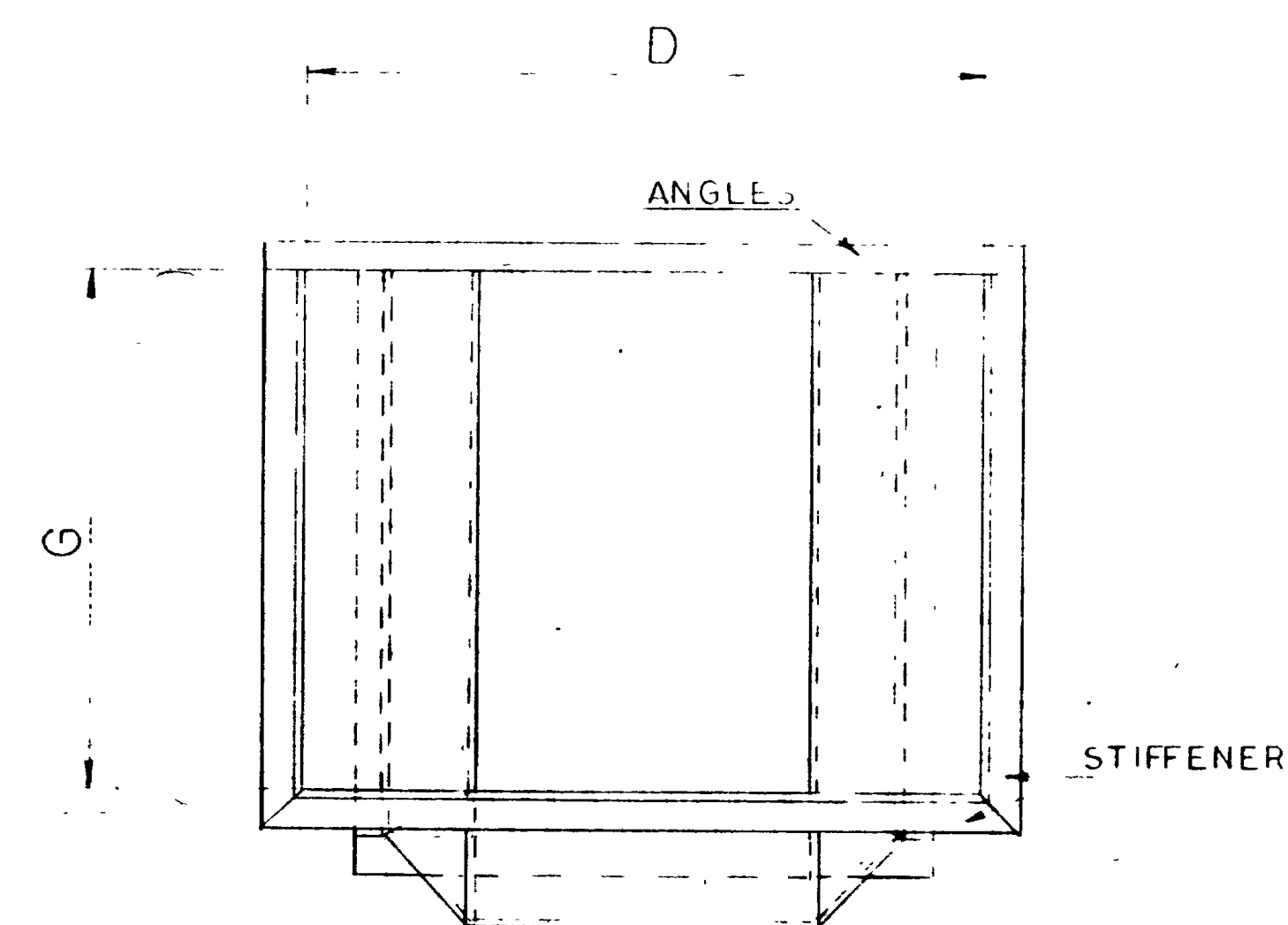
HSE
HSE ACC
HSE ACC
w/ J. King
DAVIS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
UTAH	UTAH	2-2-70(1) 221	18	

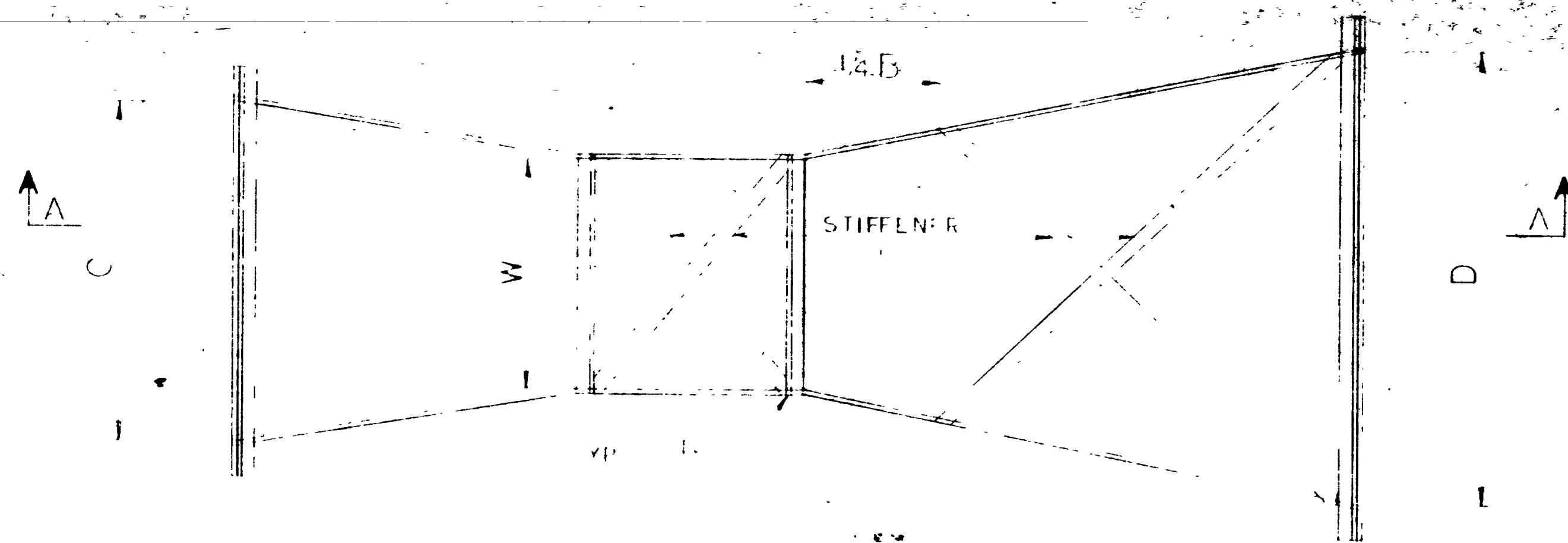
FIRST CONTRACT



SECTION A-A



ELEVATION



PLAN

SCHEDULE								
LINE	W	G	B	C	D	STIFFENER	ANGLES	STEEL PLATES
1	12"	12"	4'-4 7/8"	2'-0"	2'-9 1/4"	2" x 3/16"	2" x 2" 3/16"	1/4"
2	12"	15"						
3	12"	18"						
4	12"	21"						
5	12"	24"						
6	12"	30"	4'-4 7/8"	2'-0"	2'-9 1/4"	2" x 3/16"	2" x 2" 3/16"	1/4"
7	24"	15"	4'-10 7/8"		3'-11 1/2"	2" x 1/4"	2" x 2" 1/4"	3/16"
8	24"	18"						
9	24"	24"						
12	24"	30"						
11	24"	36"	4'-2 1/2"	3'-0"	3'-11 1/2"	2" x 3/16"	2" x 2" 1/4"	1/16"
12	36"	18"	4'-4 7/8"	4'-0"	5'-1 7/8"	2" x 3/16"	2" x 2" 3/16"	3/16"
13	36"	24"						
14	30"	30"						
15	36"	36"						
16	48"	42"	5'-4 3/4"	4'-0"	5'-1 7/8"	2" x 3/16"	2" x 2" 1/4"	3/16"
17	48"	24"	5'-10 3/8"	5'-0"	6'-4 1/4"	2" x 3/16"	2" x 2" 1/4"	1/4"
18	48"	30"						
19	48"	36"						
20	48"	42"						
21	48"	48"	6'-0"	5'-0"	6'-4 1/4"	2" x 3/16"	2" x 2" 1/4"	1/4"
22	48"	36"	6'-4 3/8"	6'-0"	7'-5 1/8"	2" x 3/16"	2" x 2" 1/4"	1/4"
23	48"	42"						
24	48"	48"						
25	48"	48"						
26	48"	48"	7'-4 1/2"	6'-0"	7'-4 3/8"	2" x 3/16"	2" x 2" 3/16"	1/4"

GENERAL NOTES

MATERIAL, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STATE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1960 EDITION, AND SUPPLEMENTS THERETO WHICH ARE IN EFFECT AT THE DATE OF REQUEST FOR BIDS.

ALL STRUCTURAL STEEL TO HAVE ONE SHOP COAT OF ZINC CHROMATE.

UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
DESIGN DIVISION
PARSHALL MEASURING FLUME
STANDARD

DESIGNED BY	CHECKED BY	PROJECT NUMBER
DRAWN BY B.K.M.	CHECKED BY	
QUANTITIES BY B.K.M.	CHECKED BY B.K.M.	STATION
APPROVAL RECOMMENDED BY	GROUP LEADER	COUNTY
APPROVED	DATE	HYDRAULIC ENG. #

NO.	BY	DATE	REMARKS
REVISIONS			

BR NO. DRG. NO. V-853 1 OF 1