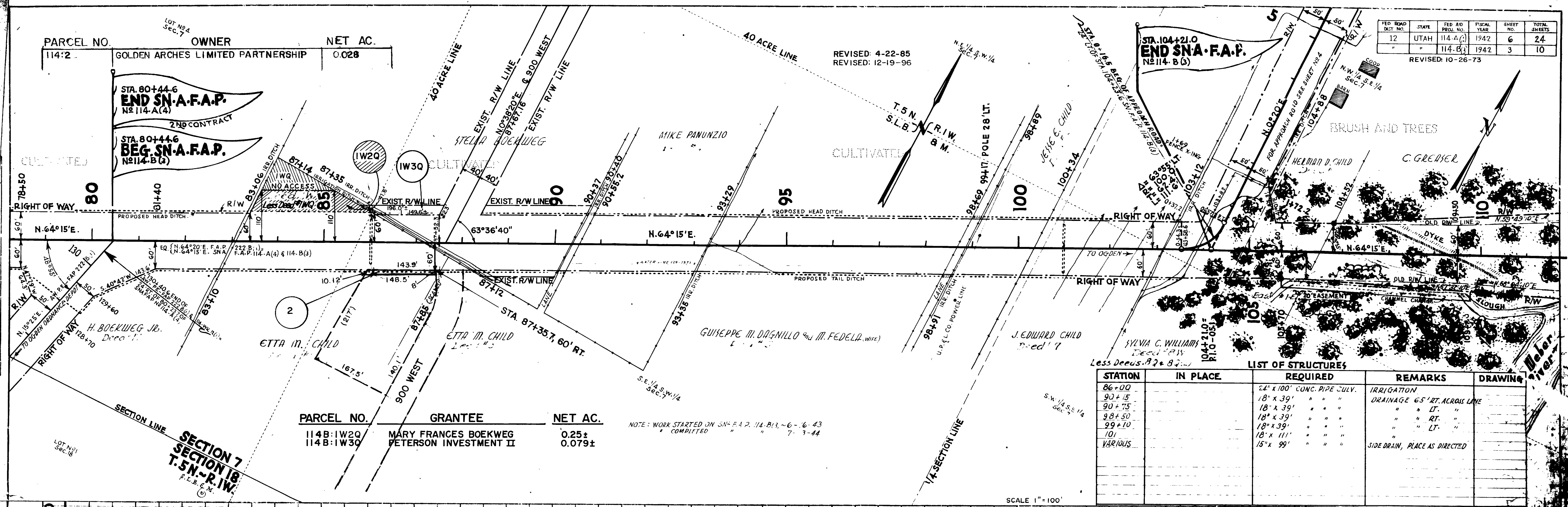


114B(3) DEATH CURVE - RIVERDILL

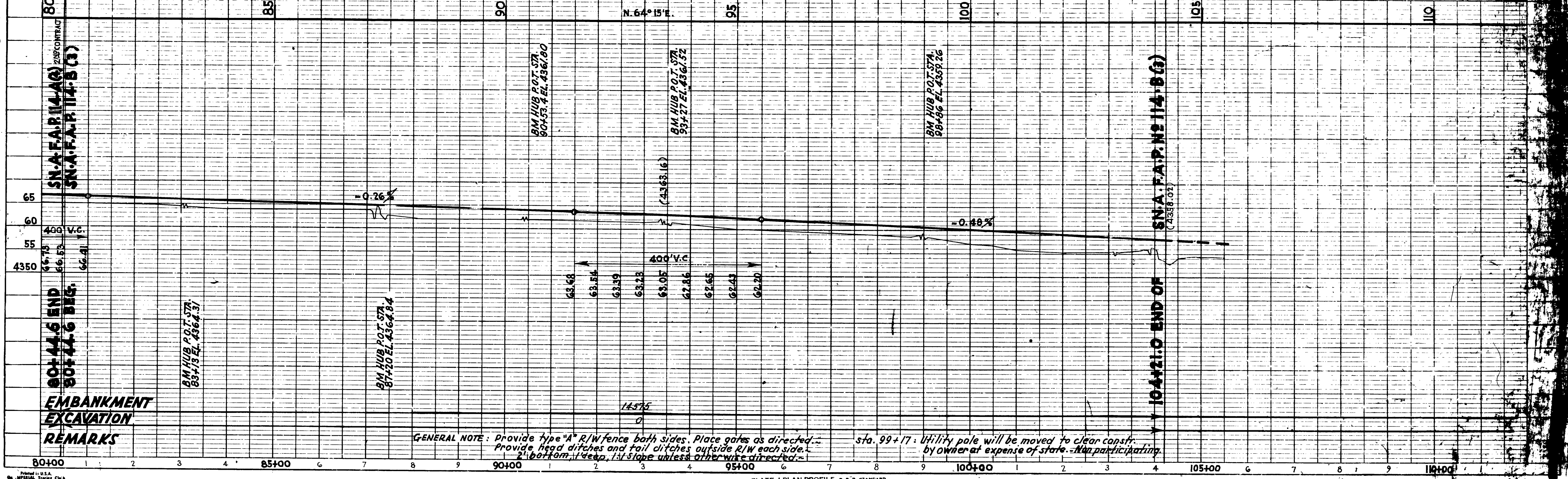


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(3)	1942	6	24
		114-B(3)	1942	3	10

REVISED: 10-26-73

LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
86+00		24" x 100' CONC. PIPE CULY.	IRRIGATION	
90+15		18" x 39'	DRAINAGE 65' RT. ACROSS LINE	
90+75		18" x 39'	" " LT. "	
98+50		18" x 39'	" " RT. "	
99+10		18" x 39'	" " LT. "	
101		18" x 111'	" " "	
VARIOUS		15" x 99'	SIDE DRAIN, PLACE AS DIRECTED	



PROFILE

DESIGNED	BY	DATE
PLOTTED	BY	DATE
GRADE CHECKED	BY	DATE
STRUCTURE NOTED	BY	DATE

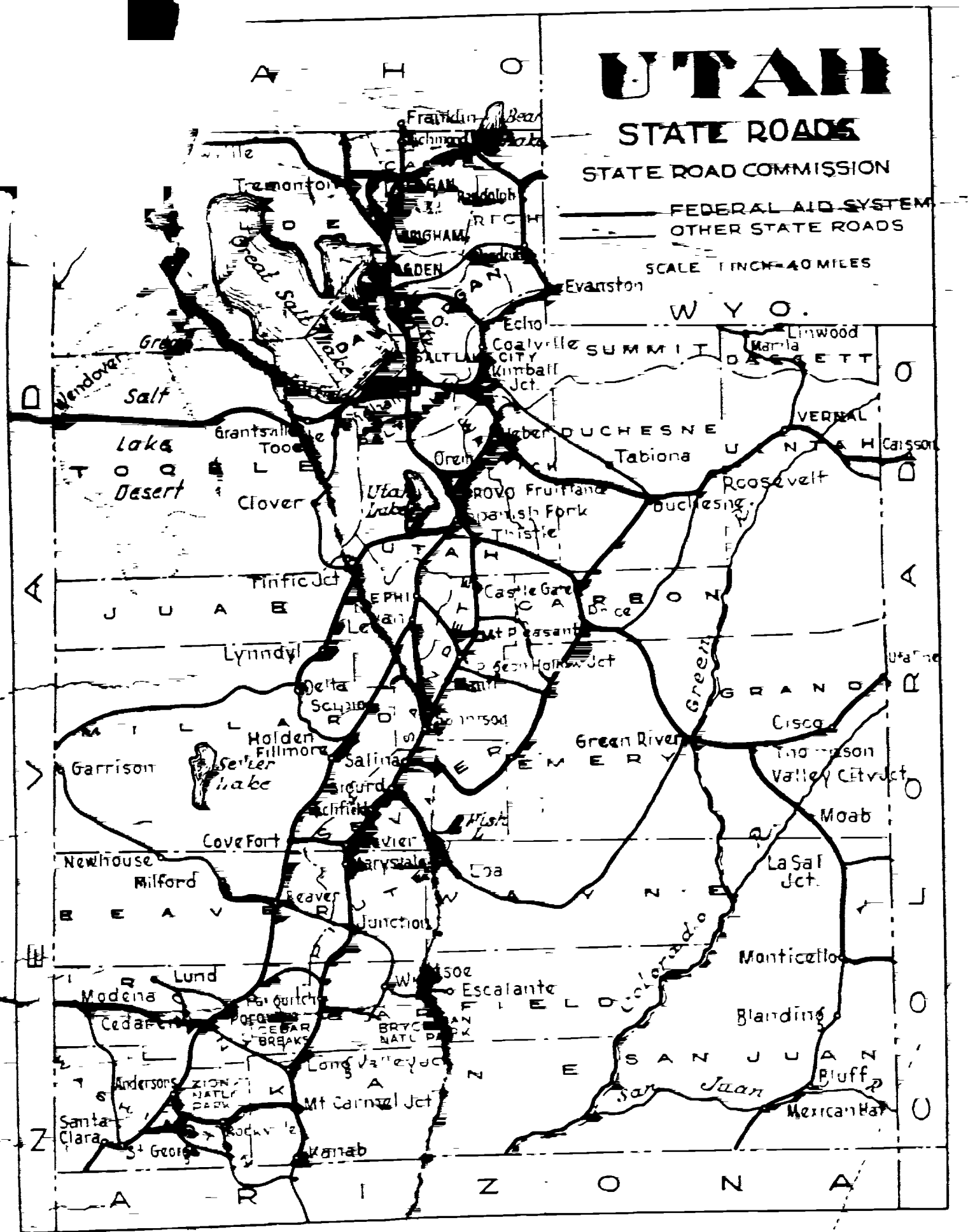
STATE OF UTAH

STATE ROAD COMMISSION

PLANS OF PROPOSED STATE ROAD

FEDERAL AID PROJECT

SN-A-F.A.P. NO. 114-A(4) - LENGTH 1.308 MILES
SN-A-F.A.P. NO. 114-B(3) - LENGTH 0.450 MILES



INDEX TO SHEETS SN-A-F.A.P. NO. 114-A(4) 2ND CONTRACT

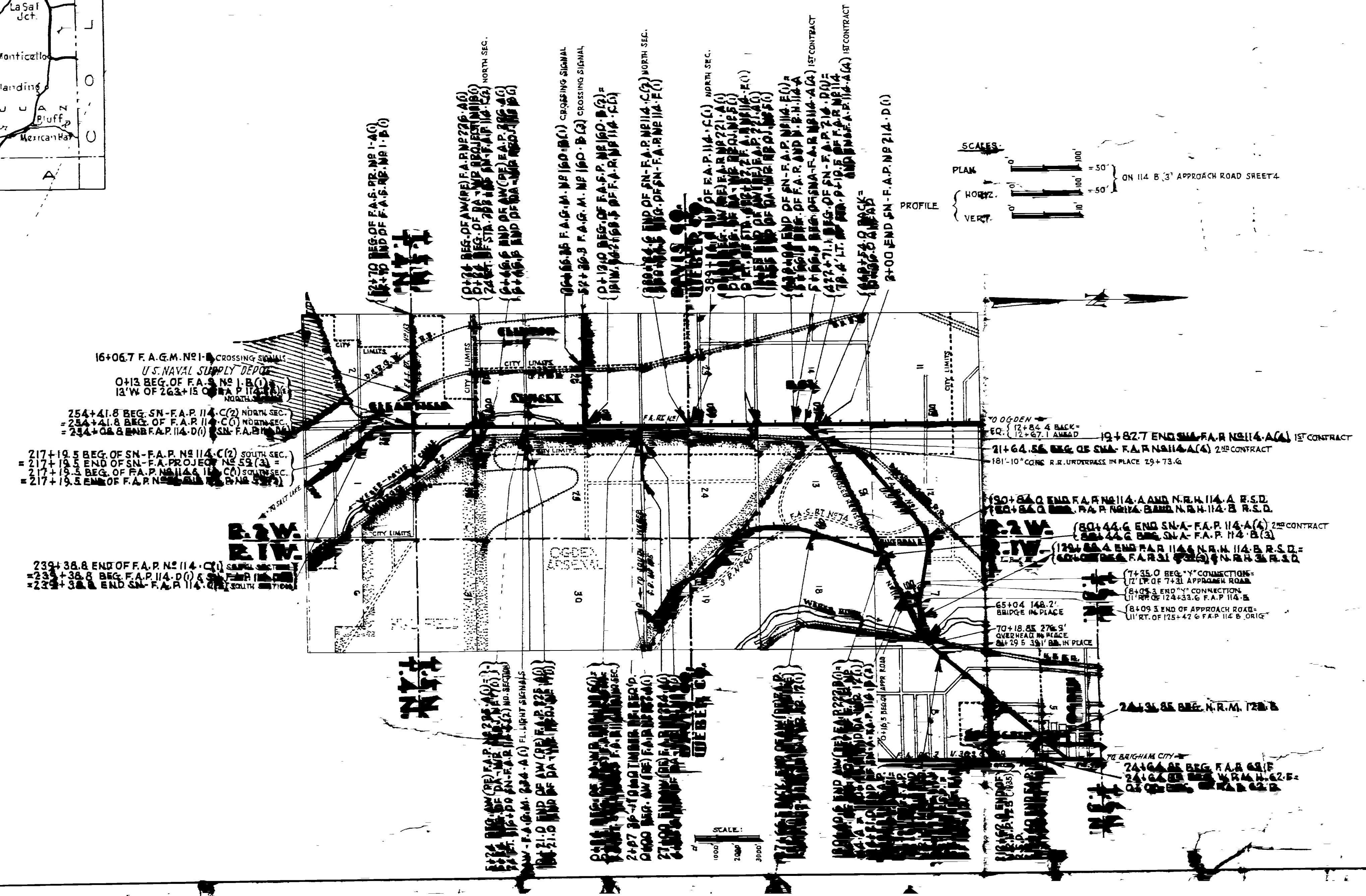
SHEET	DESCRIPTION	DRAWING NO.	STATUS
1	TITLE SHEET		
2-B-7C	TYPICAL SECTIONS		
4-6	PLAN AND PROFILE		
7	CHANNELIZATION		
8	DETAILS OF CONSTR. FOR P.C. CONC. PAVEMENT	B-94	
9-10	STD. HIGHWAY SIGNS	B-95, 112	
11	CATCH BASINS	V-161	
12	CONC. SYPHON WELL	E-749	
13	DRAINAGE AND IRRIGATION STRUCTURES	V-342	
14	CATCH BASIN	V-330, 116	
15	CLEAN OUT BOXES	V-302, 118	
16	DIVERSION BOXES	V-33, 119	
17	18'x8'x10'-6" CONC. BOX (REVISION)	V-340	
18-21	7'x3'-6" x 15'-6" CONC. BOX AND DIV.	E-766	
22	7'x3'-6" x 29'-4" " " " "	E-767	
23	STD. CURB AND GUTTER	B-48-1	
24-A	R/W FENCE AND GATES	M-246	
24-B	SUPERELEVATION OF CURVES	M-37	
2-3-4	X-SECTIONS		

INDEX TO SHEETS SN-A-F.A.P. NO. 114-B(3)

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2A	TYPICAL SECTION
3	PLAN AND PROFILE
4	CHANNELIZATION
5	STD. CURB AND GUTTER
6	REINFORCING AND JOINT DET.
7	STD. HEADGATE AND OUTLETS
8	CATCH BASIN RT.
9	" " " LT.
10-11	STD. HIGHWAY SIGNS
12-A	R/W MARKERS
12-B	WIDEN AND SUPER CURVES
13	STD. DRIVEWAYS
14-17	X-SECTIONS

INDEX TO SHEETS SN-A-F.A.P. NO. 114-A(4) 1ST CONTRACT

SHEET	DESCRIPTION	DRAWING NO.	STATUS
1	TITLE SHEET		
2-7A	TYPICAL SECTIONS		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	DETAILS OF CONSTR. OF P.C. CONC. PAVEMENT	B-94	
7-B	STD. HIGHWAY SIGNS	B-95, 112	
9	CURB AND GUTTER	B-48-1	
10-A	R/W FENCE AND GATES	M-246	
10-B	SUPERELEVATION OF CURVES	M-37	
11-8	X-SECTIONS		



APPROVED MARCH 1942

STATE ROAD COMMISSION OF UTAH

[Signature]
DESIGN ENGINEER

RECOMMENDED FOR APPROVAL

PULVER & CO. ENGINEERS
FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL

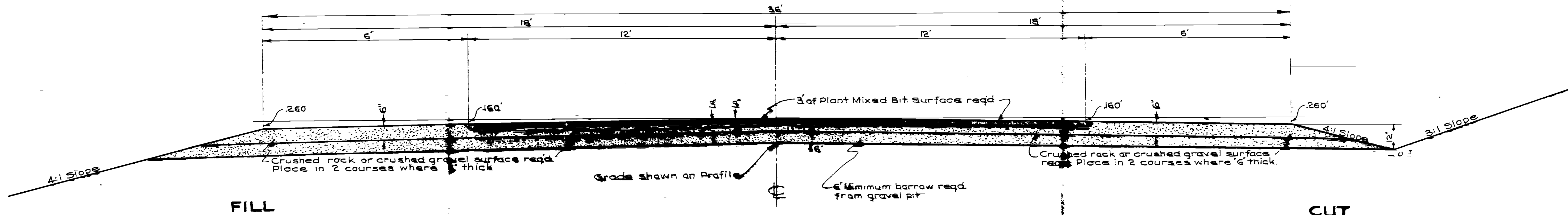
PULVER & CO. ENGINEERS
FEDERAL WORKS AGENCY

APPROVED

PULVER & CO. ENGINEERS
FEDERAL WORKS AGENCY

TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	F. A. R. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-C	24
12	UTAH	114-B(3)	1942	2	10

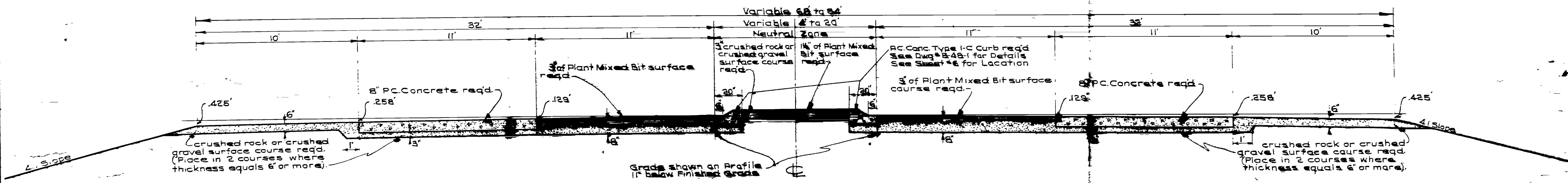


FILL

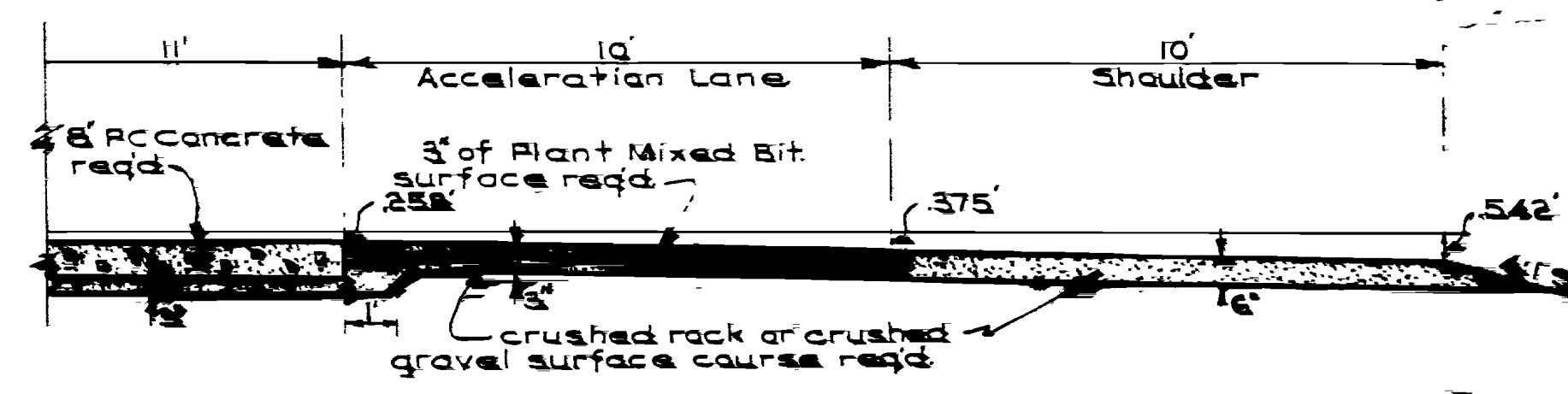
CUT

Use between Sta 0162 & 0203 (Approach Road SNA-FAR 114-B(3))
 on Approach road List of Sta. 252 SNA-FAR 114-A(4) (Except
 1" layer of Rock Asphalt omitted if alternate design is used)

REVISIONS	DATE	BY



Use between Sta 72+434 & 82+712
 NOTE: See Sheet No. 7 SNA-FAR No 114-A(4)
 or 114-B(3)
 for details of Channelized Intersection.



ACCELERATION LANE
 Use between Sta 812 & 81646 on Rt.
 See Sheet 46 for Details.

NOTE: See Drawing No. 8-36 for details of Construction of P.C. Concrete Pavement.

NOTE: Superlevate curves in accordance with Drawing No. 14-37

UTAH STATE ROAD COMMISSION
 SALT LAKE CITY - UTAH
 R. L. ANGERSON
 CHIEF ENGINEER

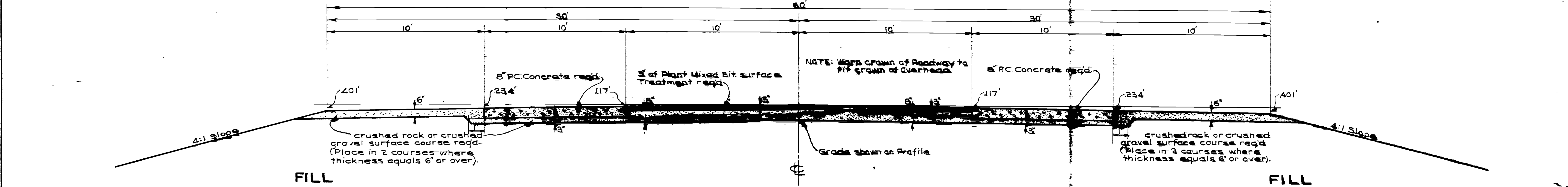
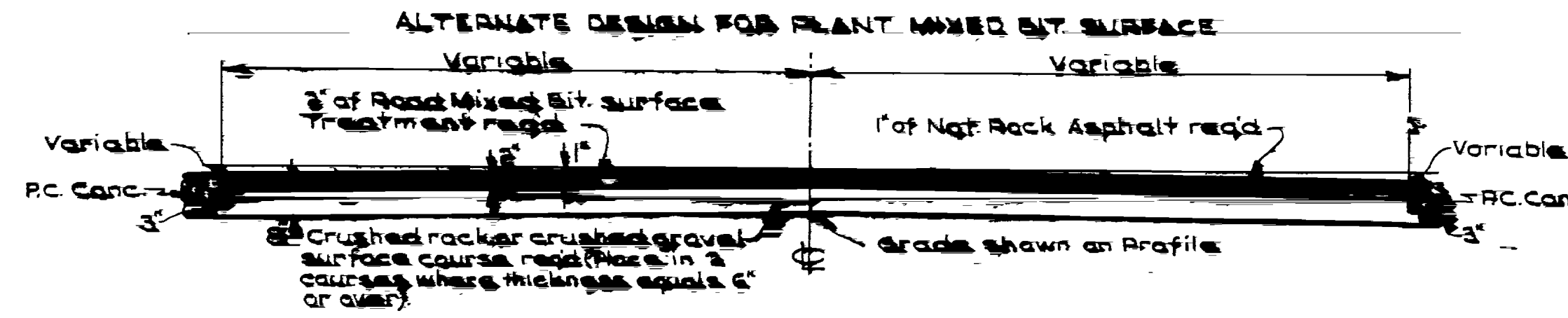
TYPE -
P.C. CONCRETE AND PLANT MIXED BIT SURFACE ROADWAYS

TYPICAL CROSS SECTION

(SN-A-FAR 114-A(4) & 114-B(3))

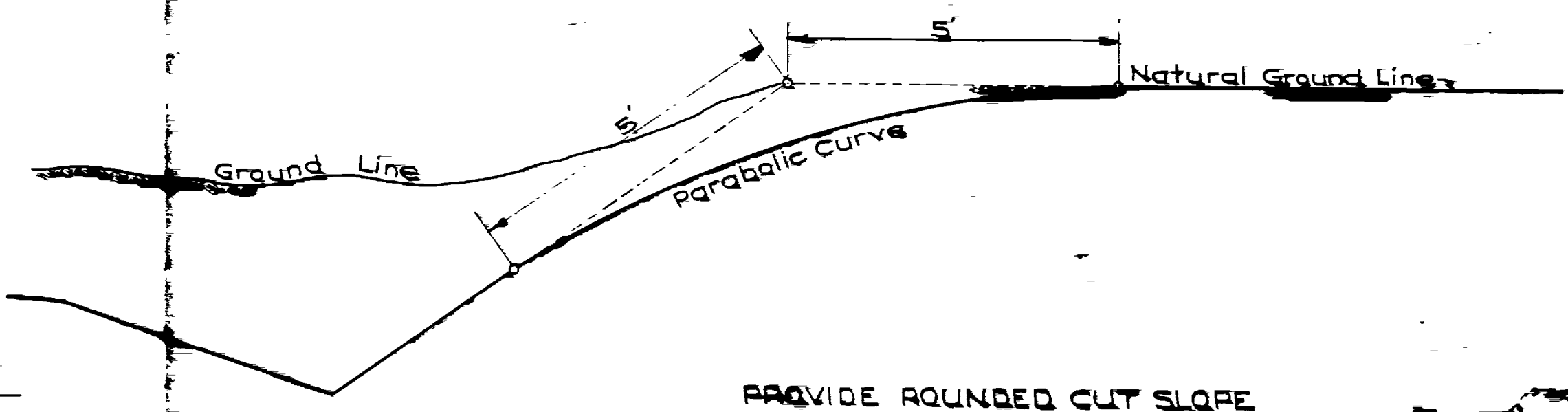
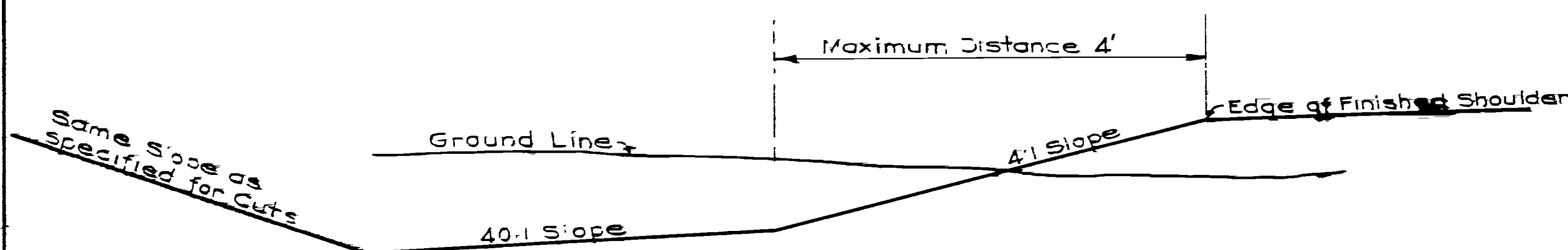
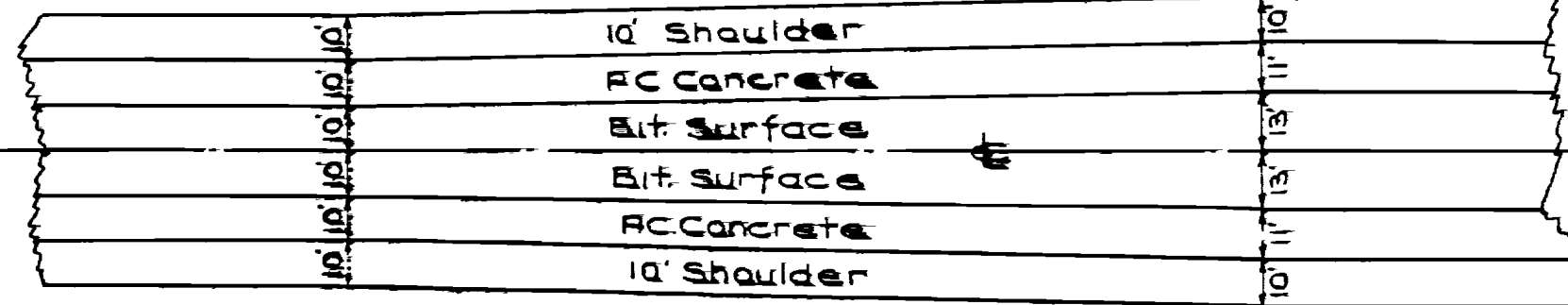
GENERAL NOTE:
 1" of Natural Rock Asphalt over 2" of Road Mixed Bit surface Treatment as an alternate design for 3" of Plant Mixed Bit surface. (See Typical Section at left).
 In all cases of additional paving if Alternate design is used substitute Road Mixed Bit for Plant Mixed Bit surface, omitting the 1" layer of Rock Asphalt.

FED. ROAD DIST. NO.	STATE	R. A. D. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-B	24
12	UTAH	114-B(3)	1942	2-A	10

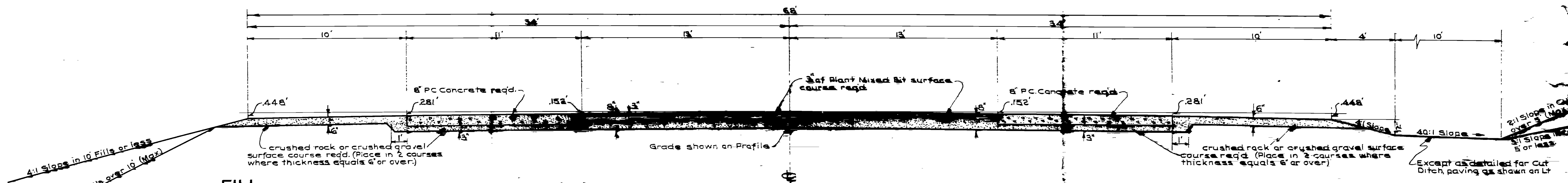


Use between Sta 21+64.55 & 24+00

NOTE: For Transition from 40' paved surface and 48' paved surface between Sta 24+00 and 26+00 see sketch below.



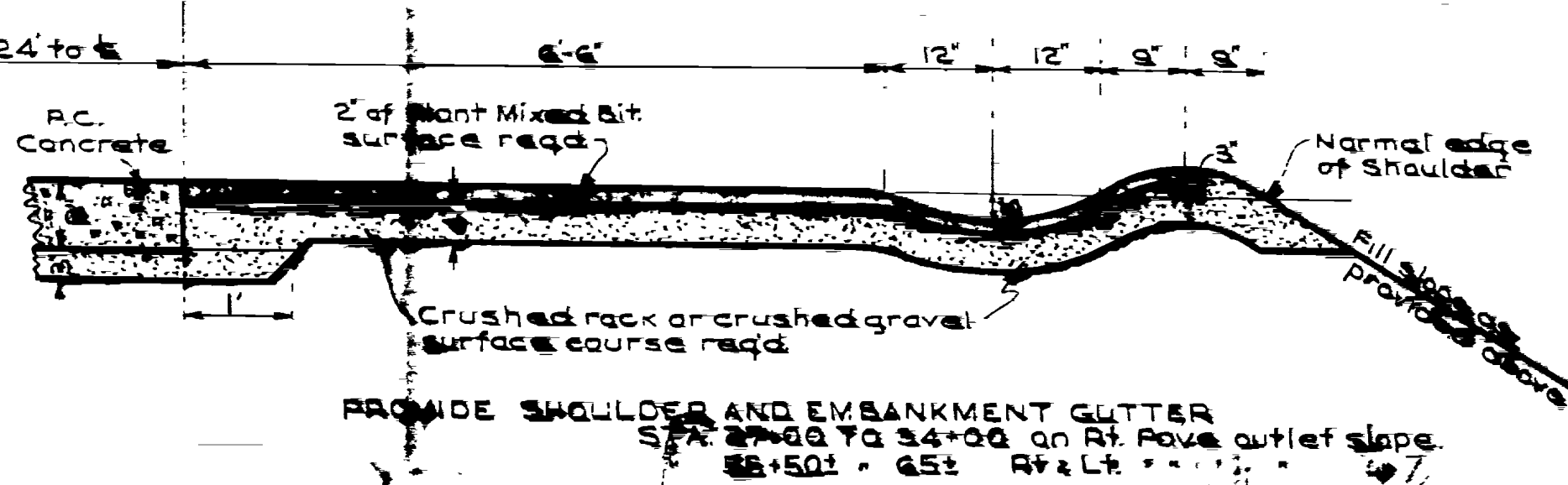
REVISIONS	DATE	BY



Use between Sta 24+00 & 72+43.4
 25+71.2 - 104+21.0

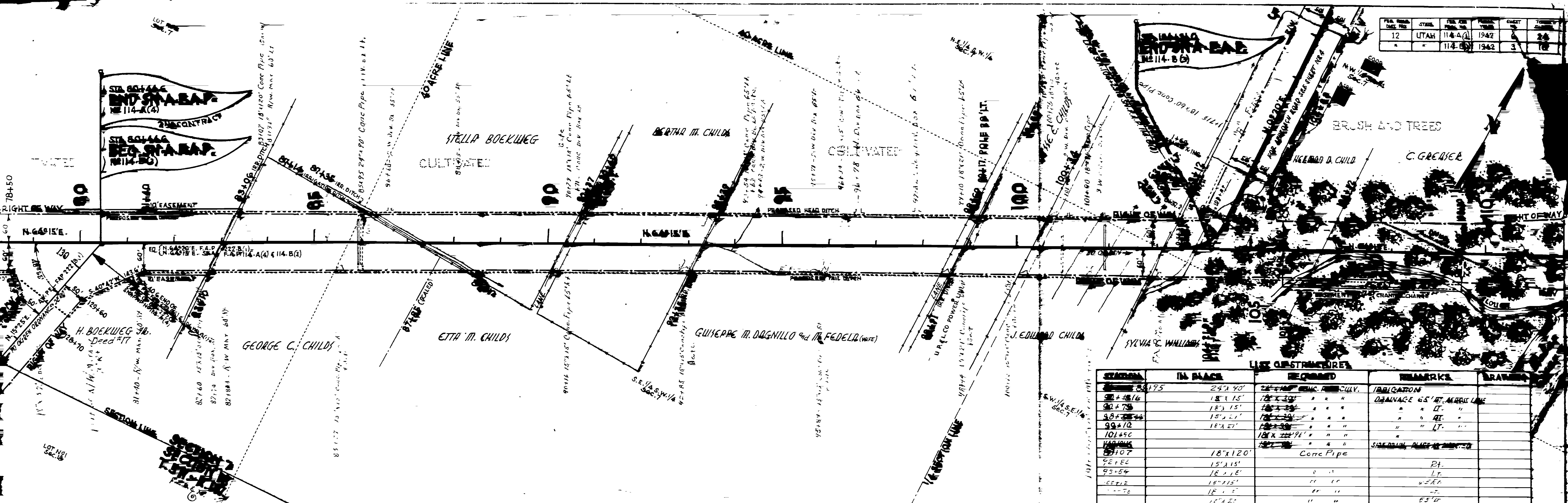
NOTE: See Drawg #534 for Details of Construction of RC Concrete Pavement. Super-elevate curves in accordance with Drawg No. M-37.

PROVIDE PAVED CUT DITCH RT & LT.
 STA. 36+25 TO 433
 & 45+50 - 55+30



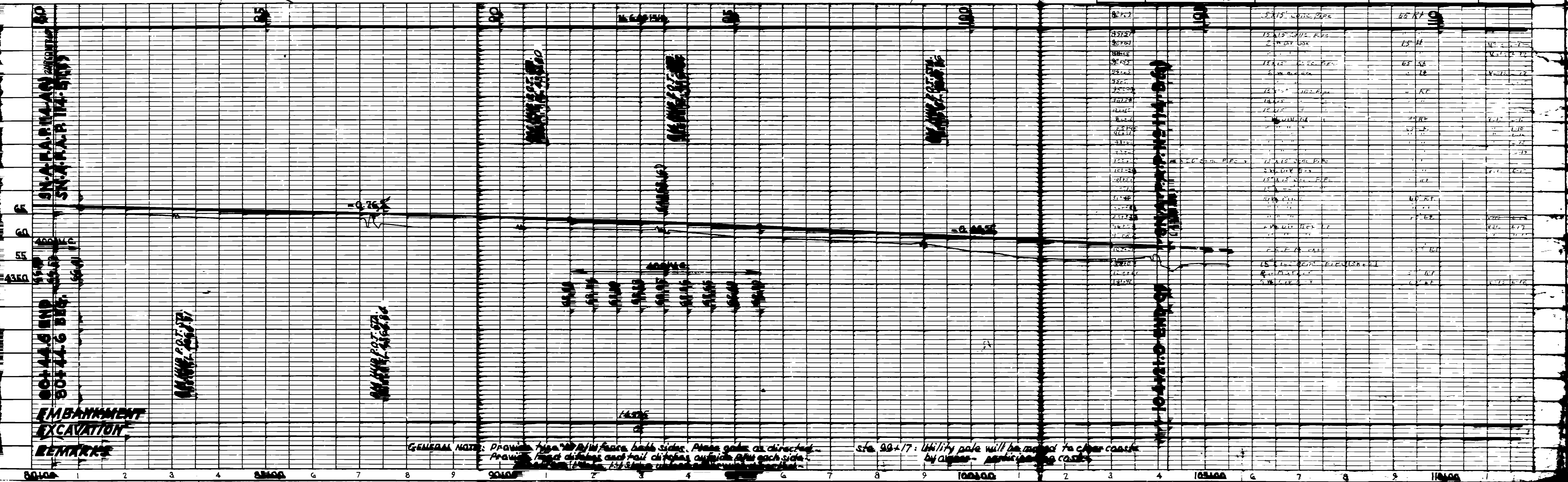
UTAH STATE ROAD COMMISSION
 SALT LAKE CITY, UTAH
 TYPE
 PLANT MIXED AND RC CONCRETE SURFACED ROADWAY

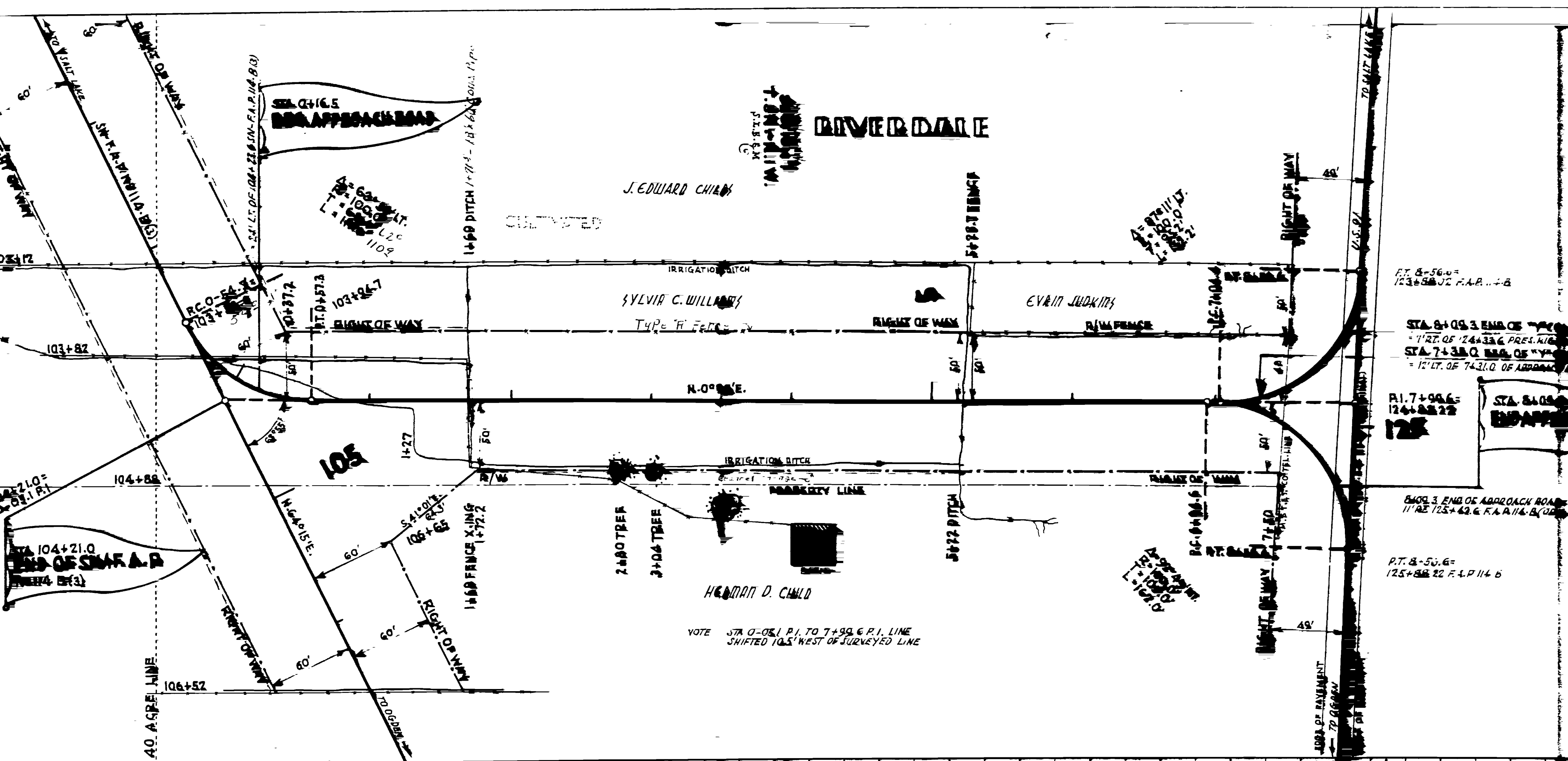
PLAN NO.	12	STATE	UTAH	FILE NO.	114-A(1)	DATE	1942	SCALE	1" = 20'
DATE					114-B(1)	1942	3		10'



LIST STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWN
88+195	24' x 40'	22' x 40' CONC. PAVEMENT	1/4" DRAGON	
90+176	18' x 15'	18' x 15' " " "	DRAINAGE 65' RT. ALONG LINE	
90+73	18' x 15'	18' x 15' " " "	" " RT.	
90+70	18' x 15'	18' x 15' " " "	" " RT.	
90+70	18' x 15'	18' x 15' " " "	" " LT.	
101+50		18' x 22' 9"	" " "	
101+06		18' x 22' 9"	SIDE DRAIN, PLACE IN EXISTING	
89+107	18' x 120'	Conc Pipe		
92+52	15' x 15'	" " "	RT.	
93+54	18' x 18'	" " "	LT.	
88+12	18' x 15'	" " "	WEEK	
88+70	18' x 15'	" " "	WEEK	
			65' LT.	





PT. 8+36.0 = 123+88.22 F.A.R. 114-B

STA. 8+00.3 END OF CONNECTION
= 1/27 OF 124+33.6 PRELIMINARY F.A.R. 114-B & 0216;
STA. 7+38.0 END OF CONNECTION
= 1/17 OF 74-21.0 OF APPROACH ROAD

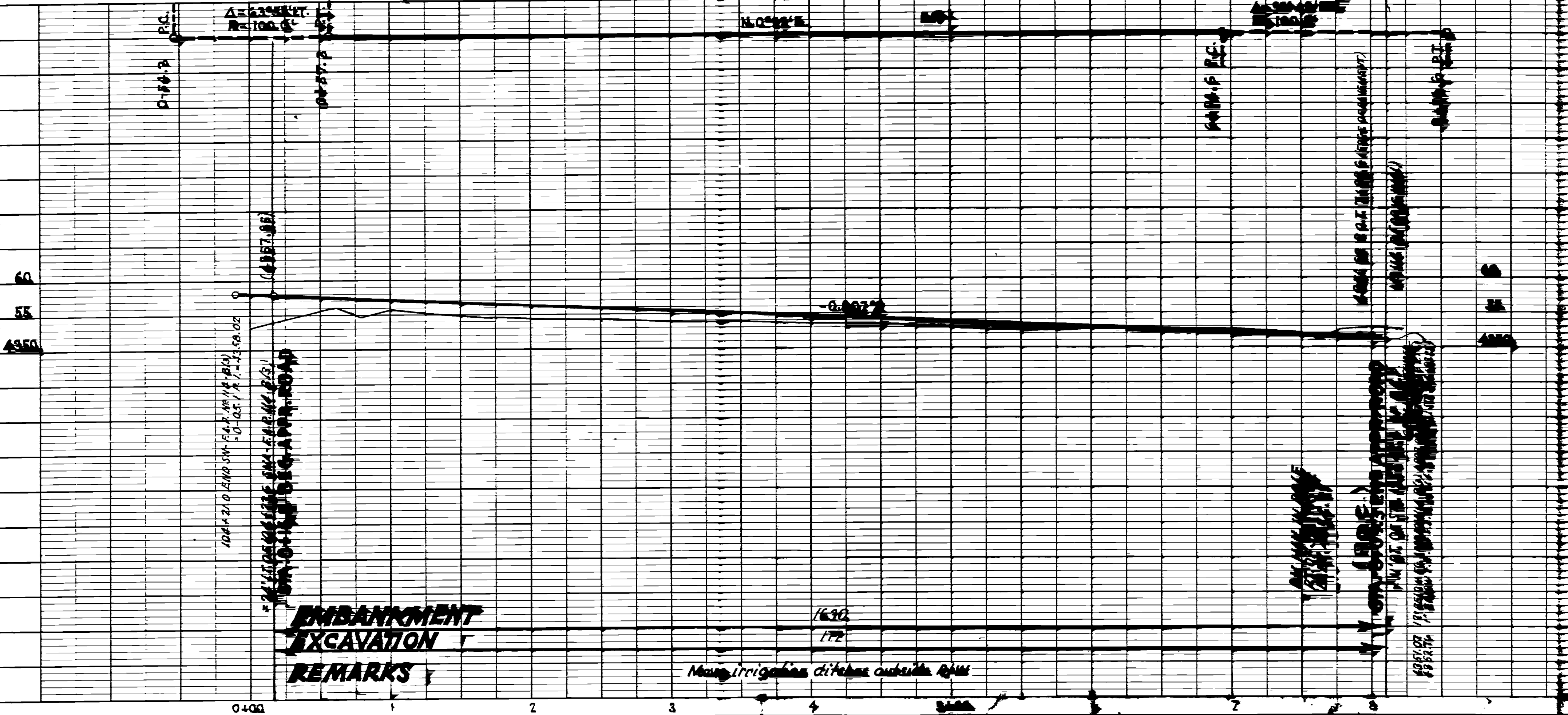
PT. 7+00.6 = 124+88.22

STA. 8+00.3 END OF APPROACH ROAD
= 1/12 OF 125+42.6 F.A.R. 114-B (C.D.)

PT. 8+50.6 = 125+88.22 F.A.P. 114-B

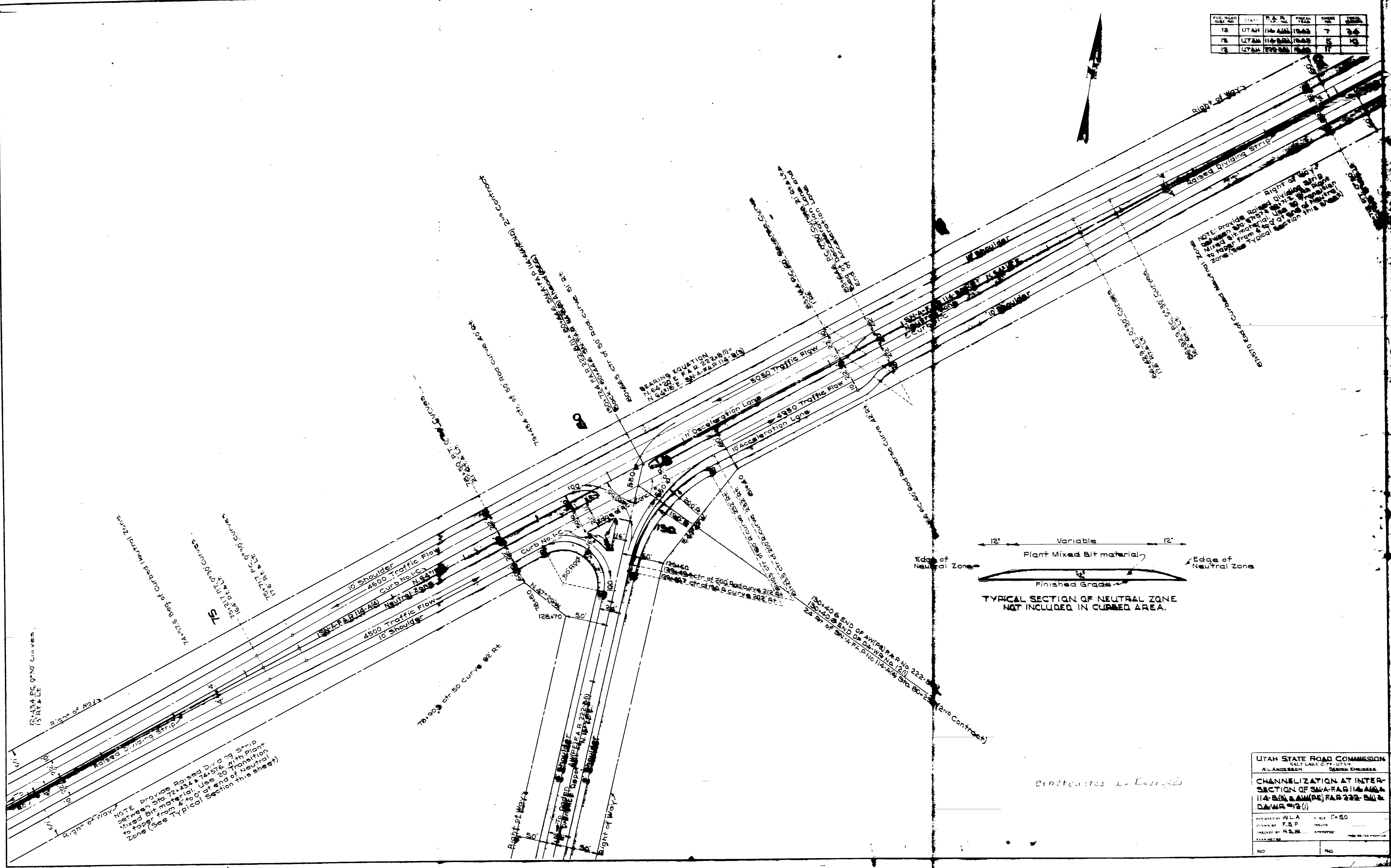
LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
7+38.0		18" x 60" CORR. PIPE		
5+33		18" x 60" "		
7+00		18" x 60" "		



FED. ROAD DIST. NO.	STATE	P. A. NO.	SCALE	SHEET NO.	TOTAL SHEETS
12	UTAH	114-B-1	1/4" = 100'	7	26
12	UTAH	114-B-2	1/4" = 100'	8	26
12	UTAH	114-B-3	1/4" = 100'	9	26

REVISIONS	DATE	BY



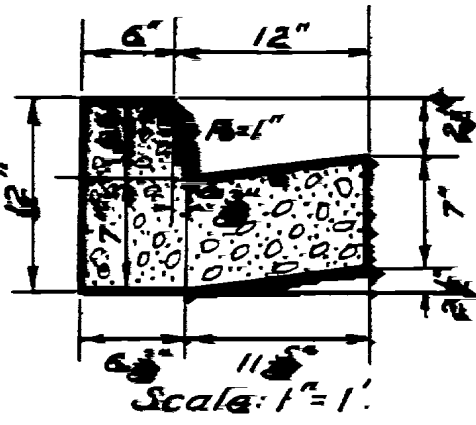
LITAH STATE ROAD COMMISSION
SALT LAKE CITY, UTAH
K. ANDERSON CHIEF ENGINEER

CHANNELIZATION AT INTERSECTION OF SNA-FAR 114-B-1 & DAWR 112 (1)

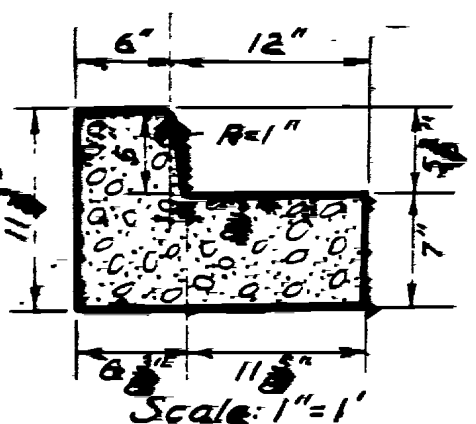
DESIGNED BY W.L.A. DATE 1-50
CHECKED BY F.S.P. DATE
DRAWN BY H.S.M. DATE
APPROVED

NO. NO.

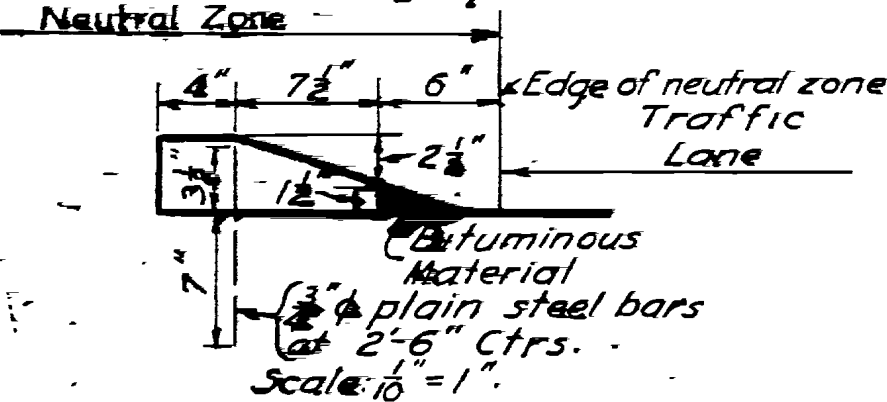
CURB & GUTTER NO. 1
AREA = 1.082 SQ. FT.



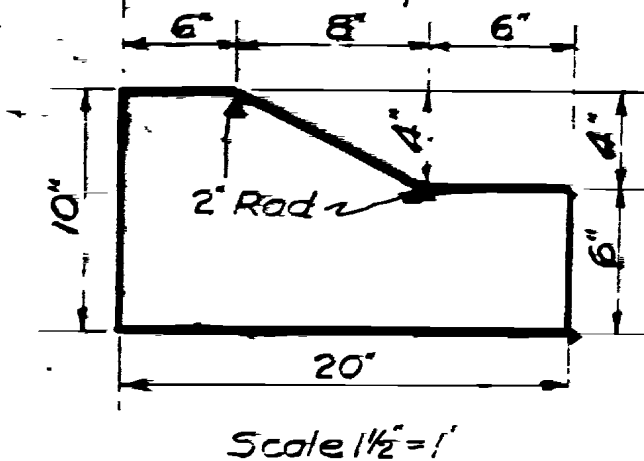
CURB & GUTTER NO. 1-A
AREA = 1.081 SQ. FT.



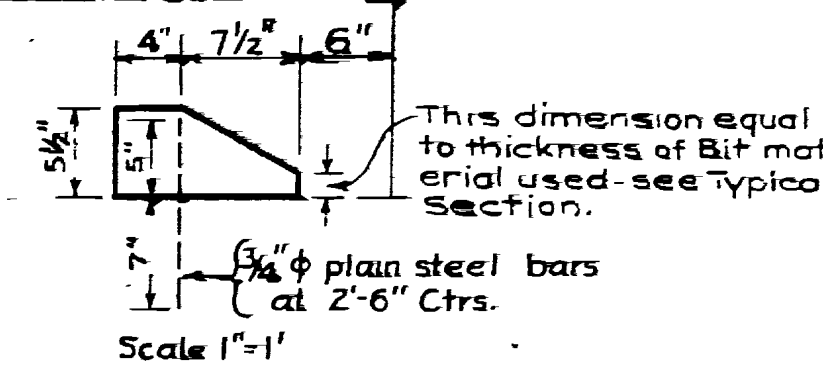
CURB NO. 1-B
Area = 0.254 Sq. Ft.



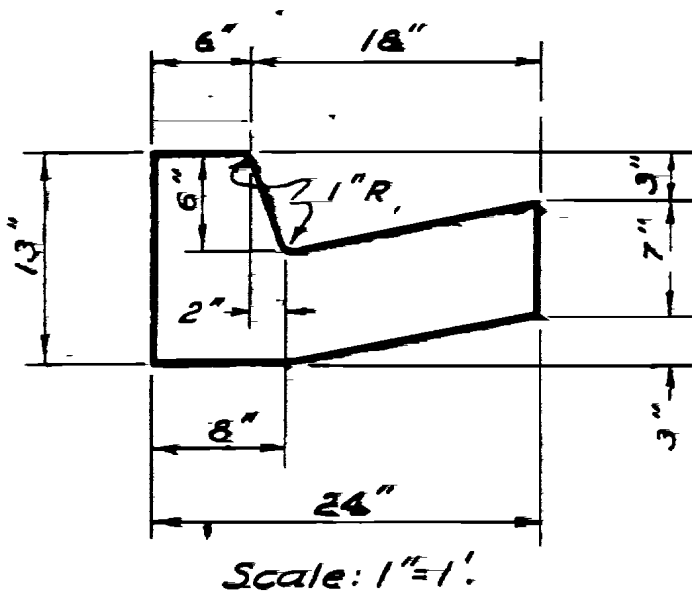
CURB NO. 1-C
Area = 1.11 Sq. Ft.



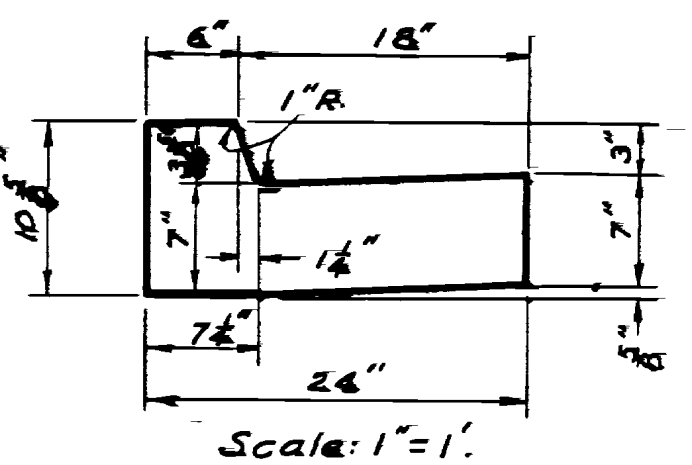
CURB NO. 1-D
Neutral Zone Area = 0.335 Sq. Ft.



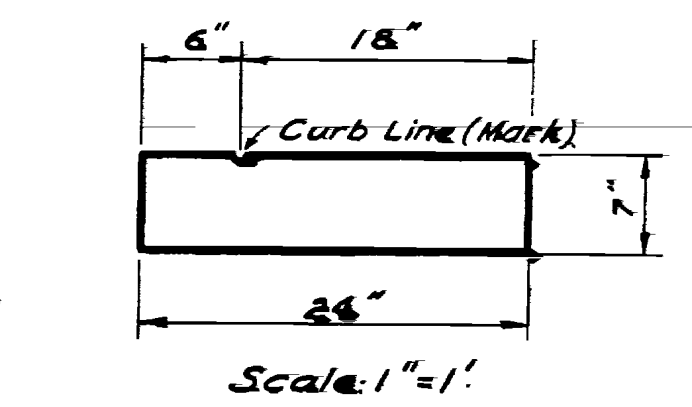
CURB & GUTTER NO. 2
AREA = 1.46 SQ. FT.



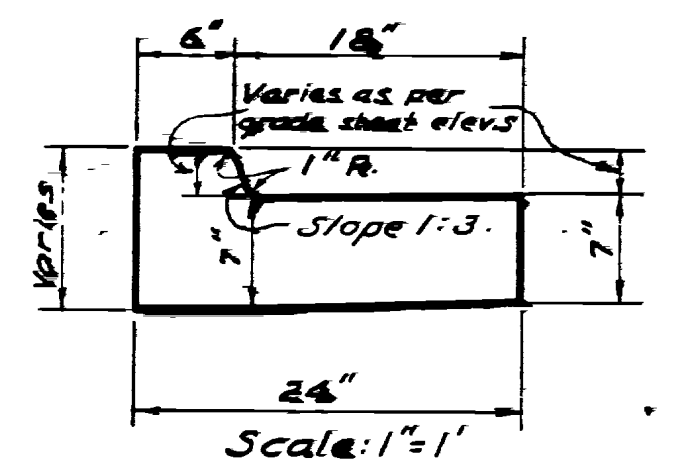
CURB & GUTTER NO. 2-A
AREA = 1.33 SQ. FT.



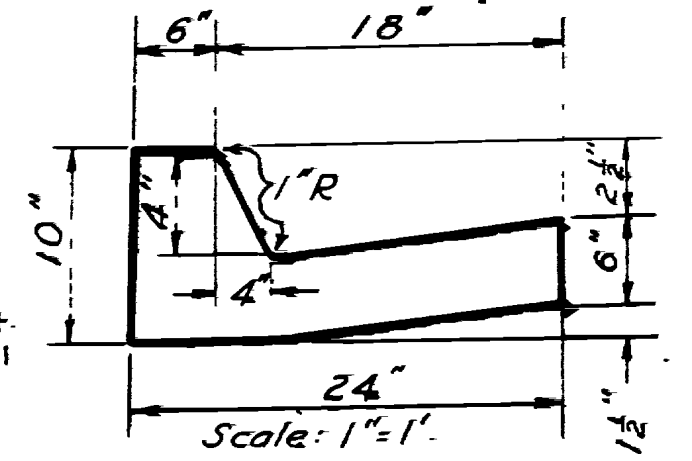
CURB & GUTTER NO. 2-B
AREA = 1.17 SQ. FT.



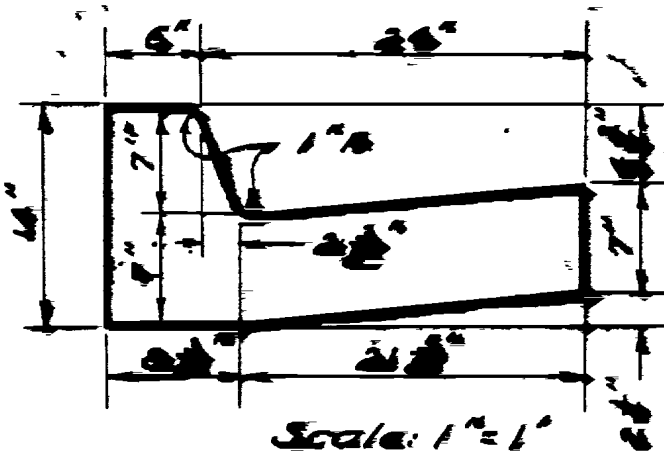
CURB & GUTTER NO. 2-C
AREA = 1.30 SQ. FT. ±



CURB & GUTTER NO. 2-D
Area = 1.221 Sq. Ft.



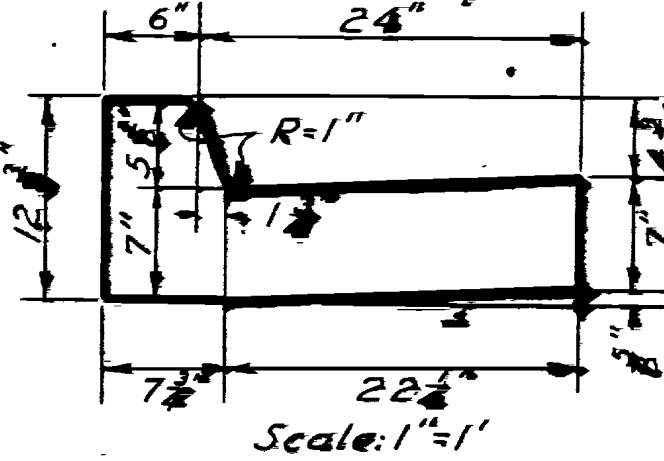
CURB & GUTTER NO. 3
AREA = 1.604 SQ. FT.



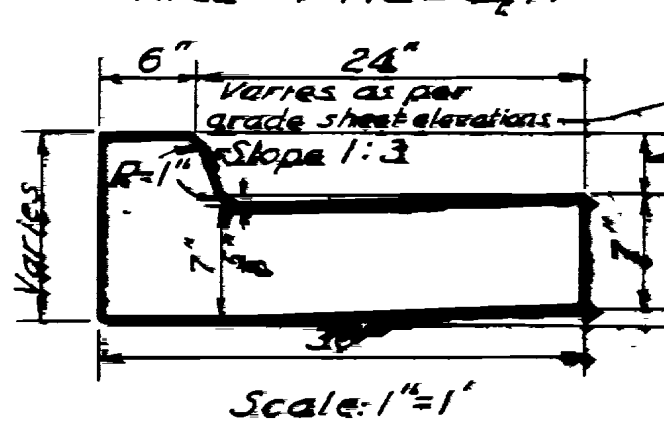
CURB & GUTTER NO. 3-A
Area = 1.625 Sq. Ft.



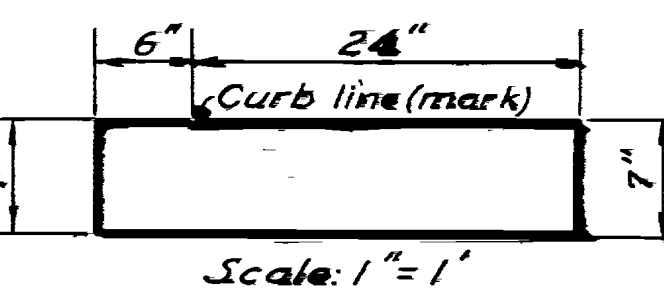
CURB & GUTTER NO. 3-B
Area = 1.715 Sq. Ft.



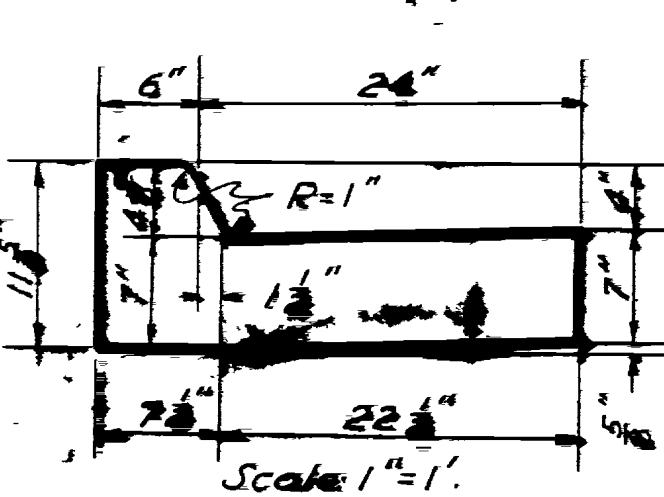
CURB & GUTTER NO. 3-C
Area = 1.715 ± Sq. Ft.



CURB & GUTTER NO. 3-D
Area = 1.458 Sq. Ft.

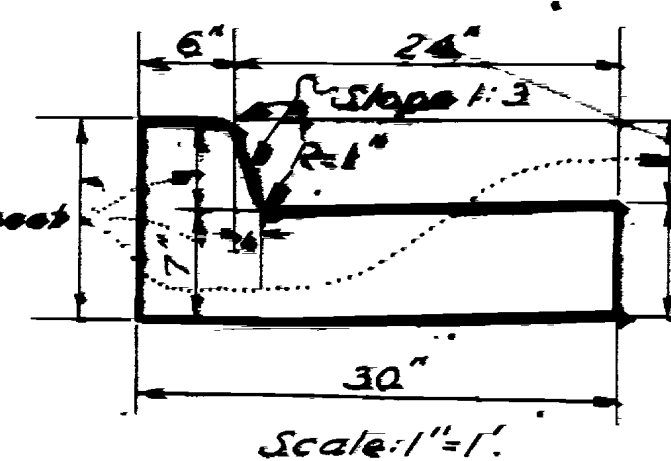


CURB & GUTTER NO. 3-E
Area = 1.675 Sq. Ft.

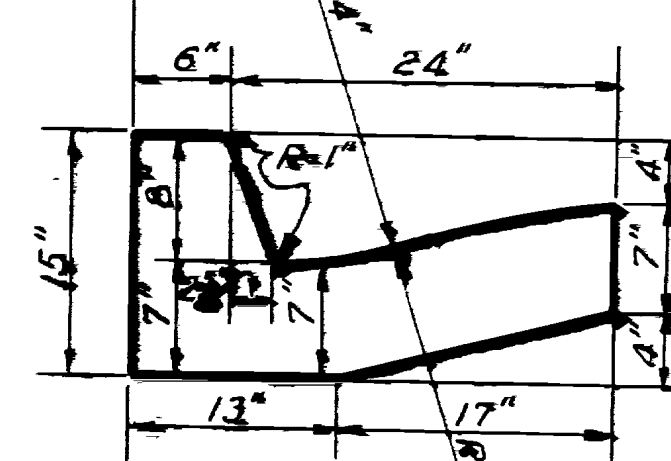


CURB & GUTTER NO. 3F
Area = 1.713 ± Sq. Ft.

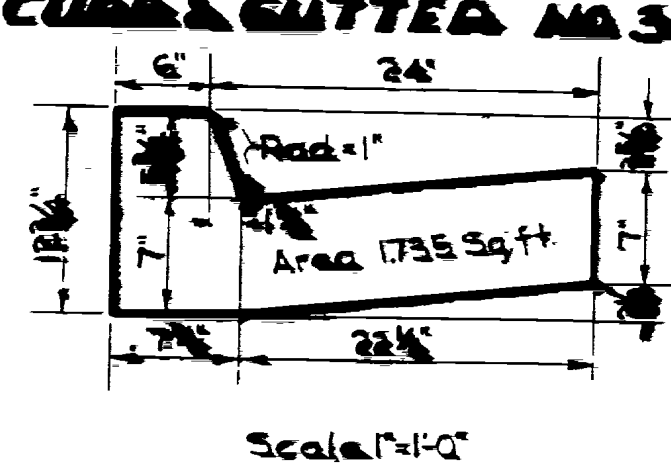
Varies as per grade sheet elevations.



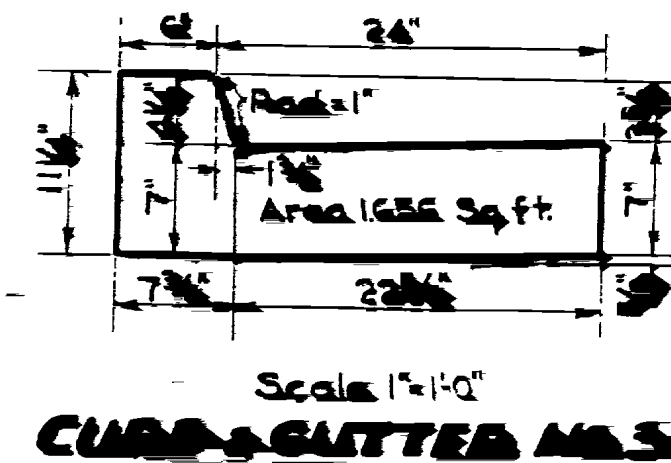
CURB & GUTTER NO. 3G



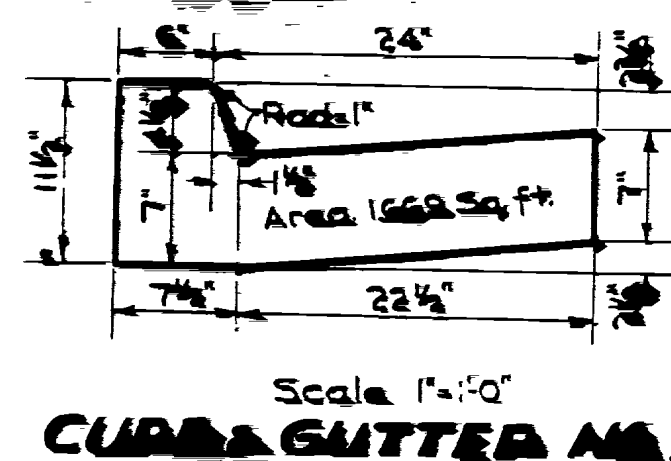
CURB & GUTTER NO. 3H
Area = 1.924 sq. ft.
Scale: 1"=1"



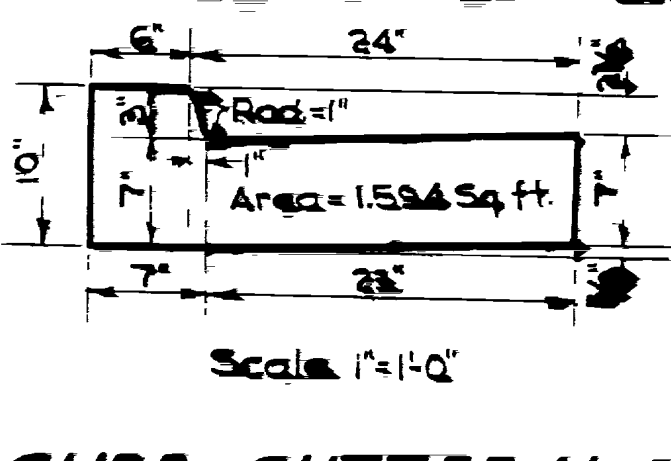
CURB & GUTTER NO. 3I



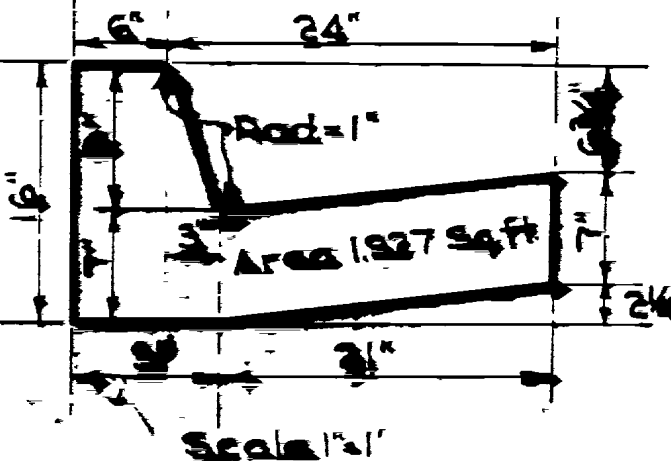
CURB & GUTTER NO. 3J



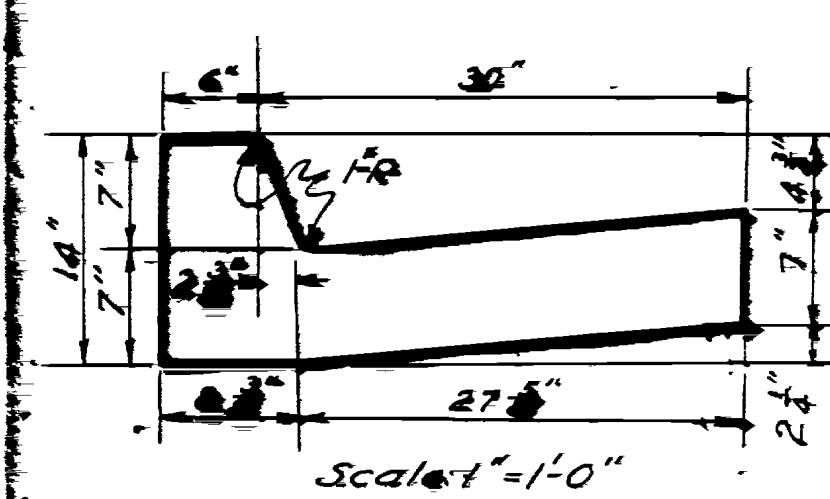
CURB & GUTTER NO. 3K



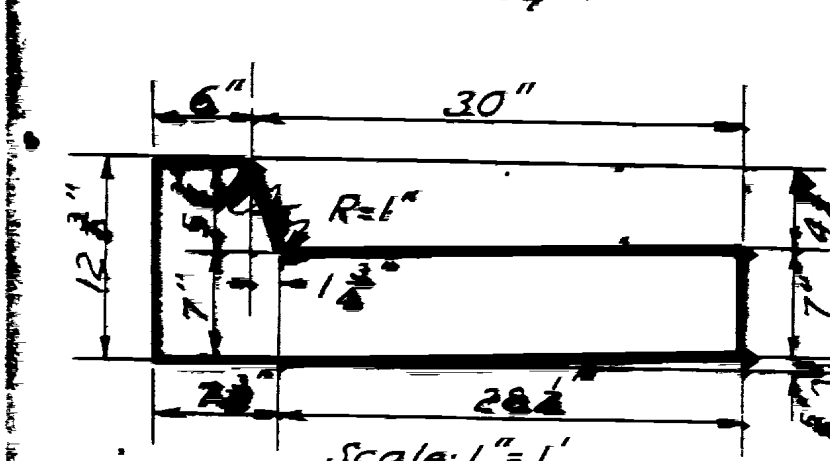
CURB & GUTTER NO. 3-L



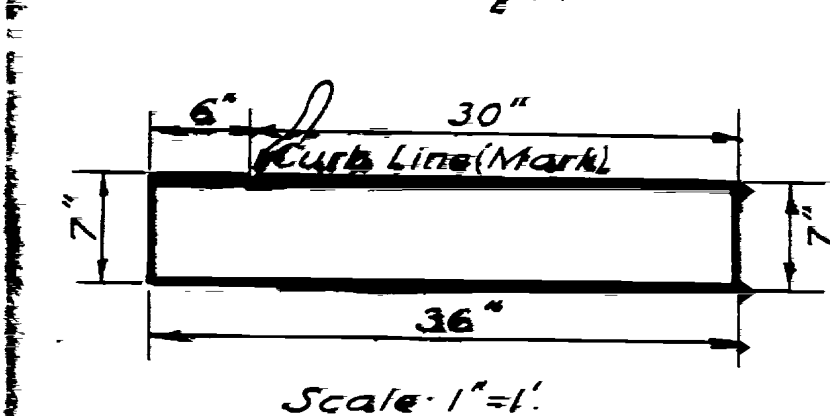
CURB & GUTTER NO. 4
Area = 2.100 sq. Ft.



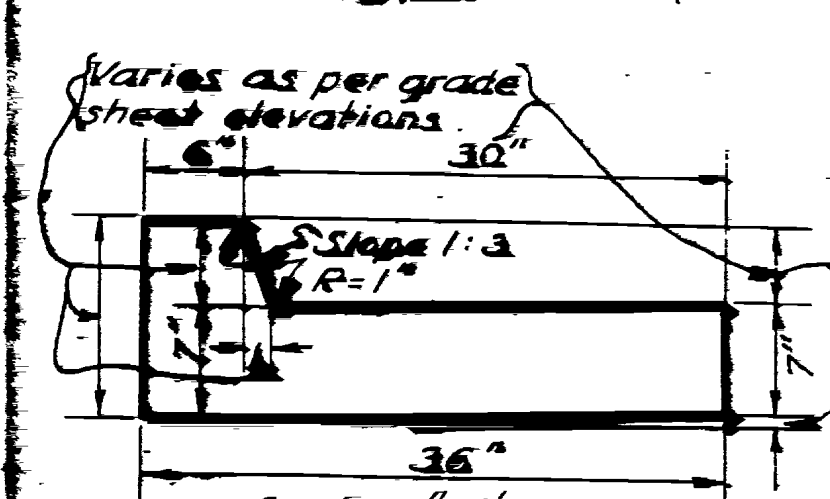
CURB & GUTTER NO. 4A
Area = 2.007 sq. Ft.



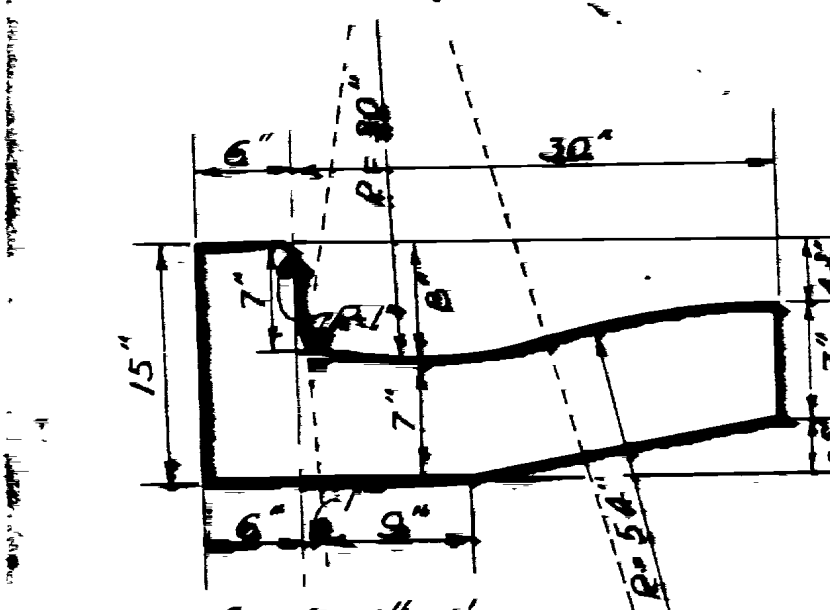
CURB & GUTTER NO. 4B
Area = 1.75 Sq. Ft.



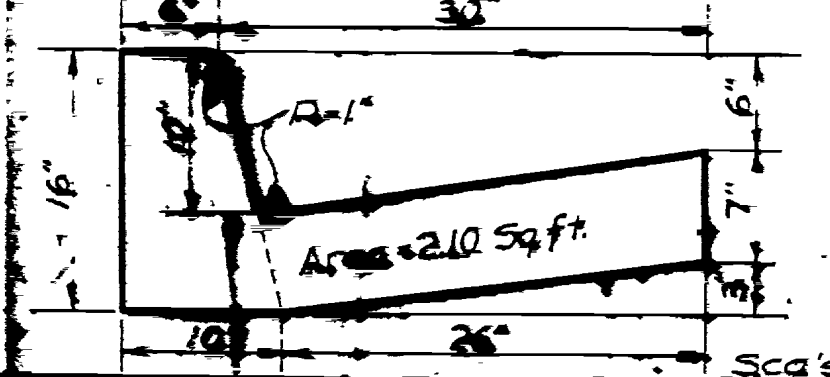
CURB & GUTTER NO. 4C
Area = Variable



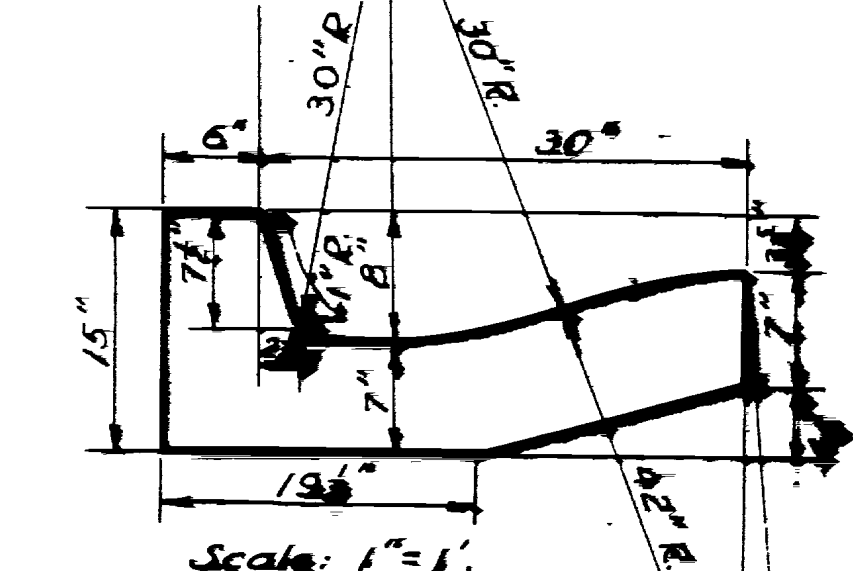
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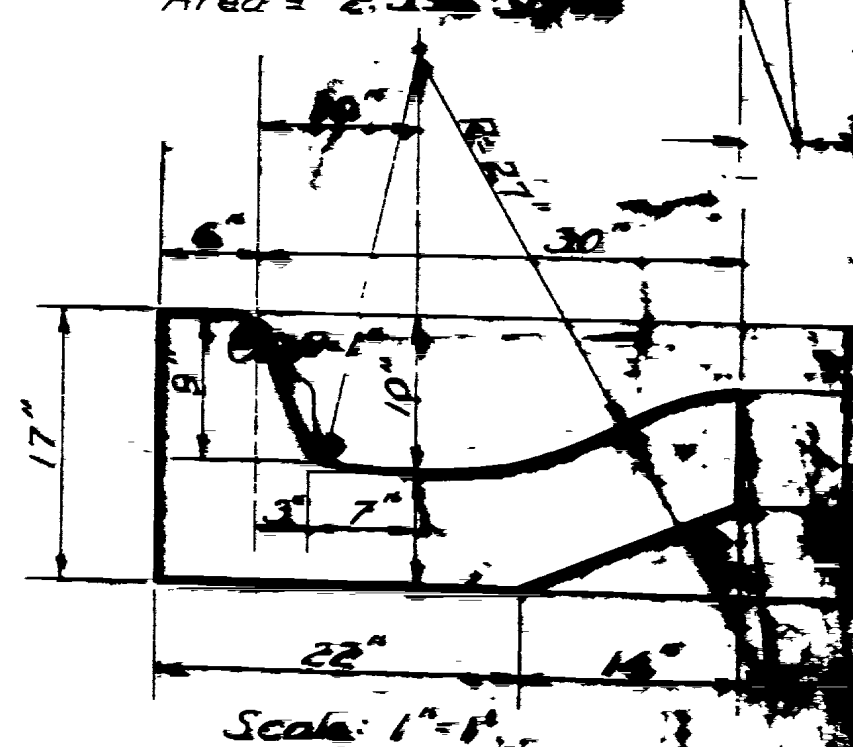
CURB & GUTTER NO. 4-E



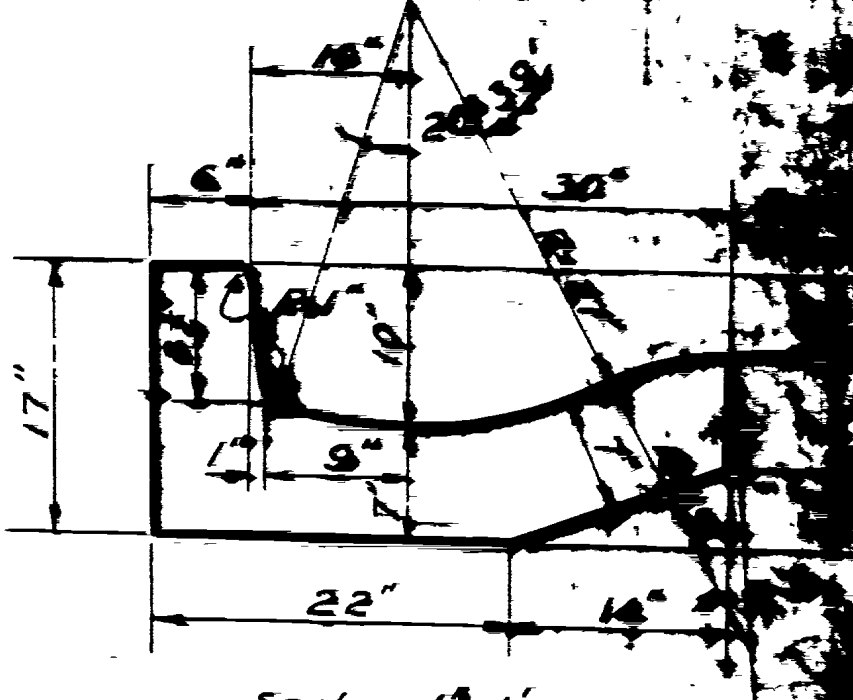
CURB & GUTTER NO. 4-F
Area = 2.157 Sq. Ft.



CURB & GUTTER NO. 4-G
Area = 2.157 Sq. Ft.



CURB & GUTTER NO. 4-H
Area = 2.22 Sq. Ft.



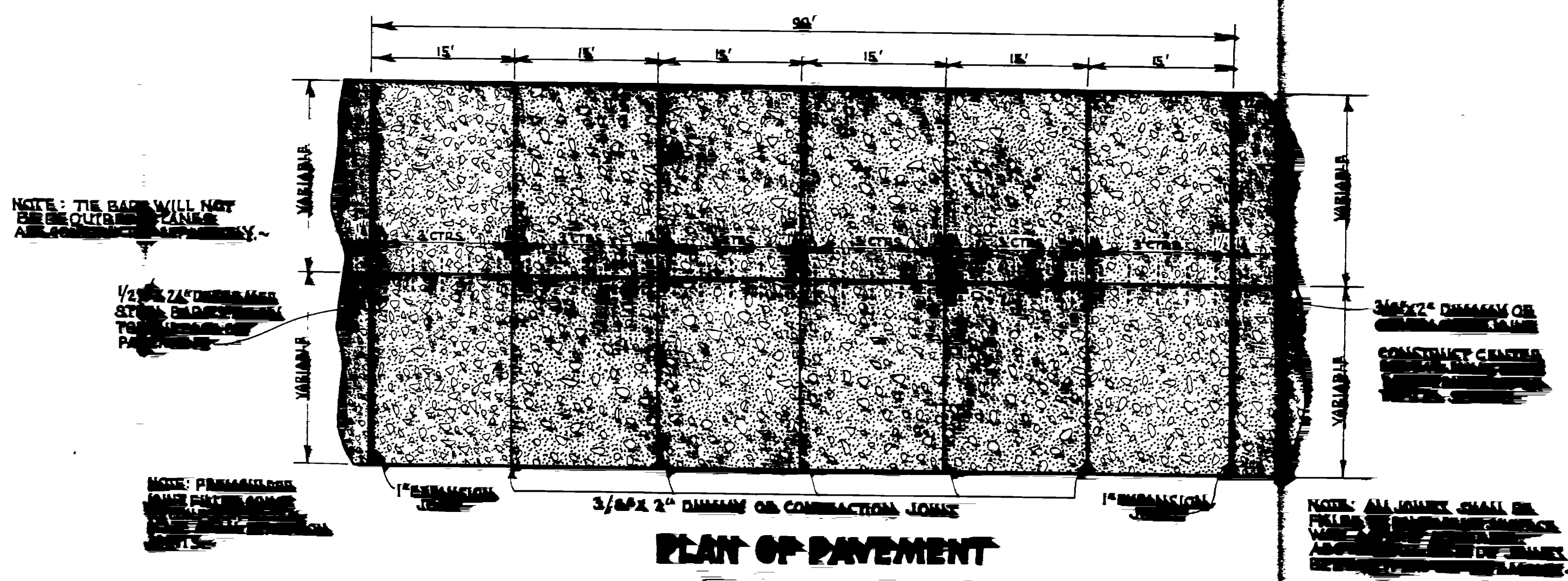
CURB & GUTTER NO. 4-I
Area = 2.20 Sq. Ft.



PROJECT NO.	STATE	FILE NO.	DATE

UTAH STATE ROAD COMMISSION
SALT LAKE CITY, UTAH
EDM. C. HANSEN, Chief Engineer
**CROSS SECTIONS
VARIOUS TYPES
CURB & GUTTER**

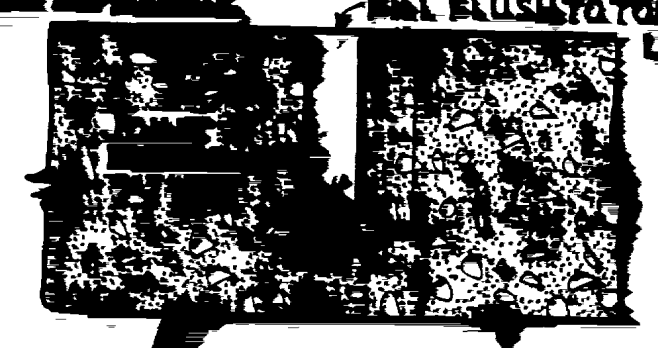
TYPICAL CROSS SECTION



PLAN OF PAVEMENT

NOTE: TRANSVERSE EXPANSION AND TRANSVERSE DIMENSION SHALL BE MAINTAINED.

JOINTS SHALL BE FINISHED AS SHOWN. THE FILLING OF JOINTS SHALL BE WITH A LIQUID INFILTRANT.



DETAIL OF DUMMY JOINT
(CONSTRUCTION JOINT)

REVISIONS
DATE
BY
BY

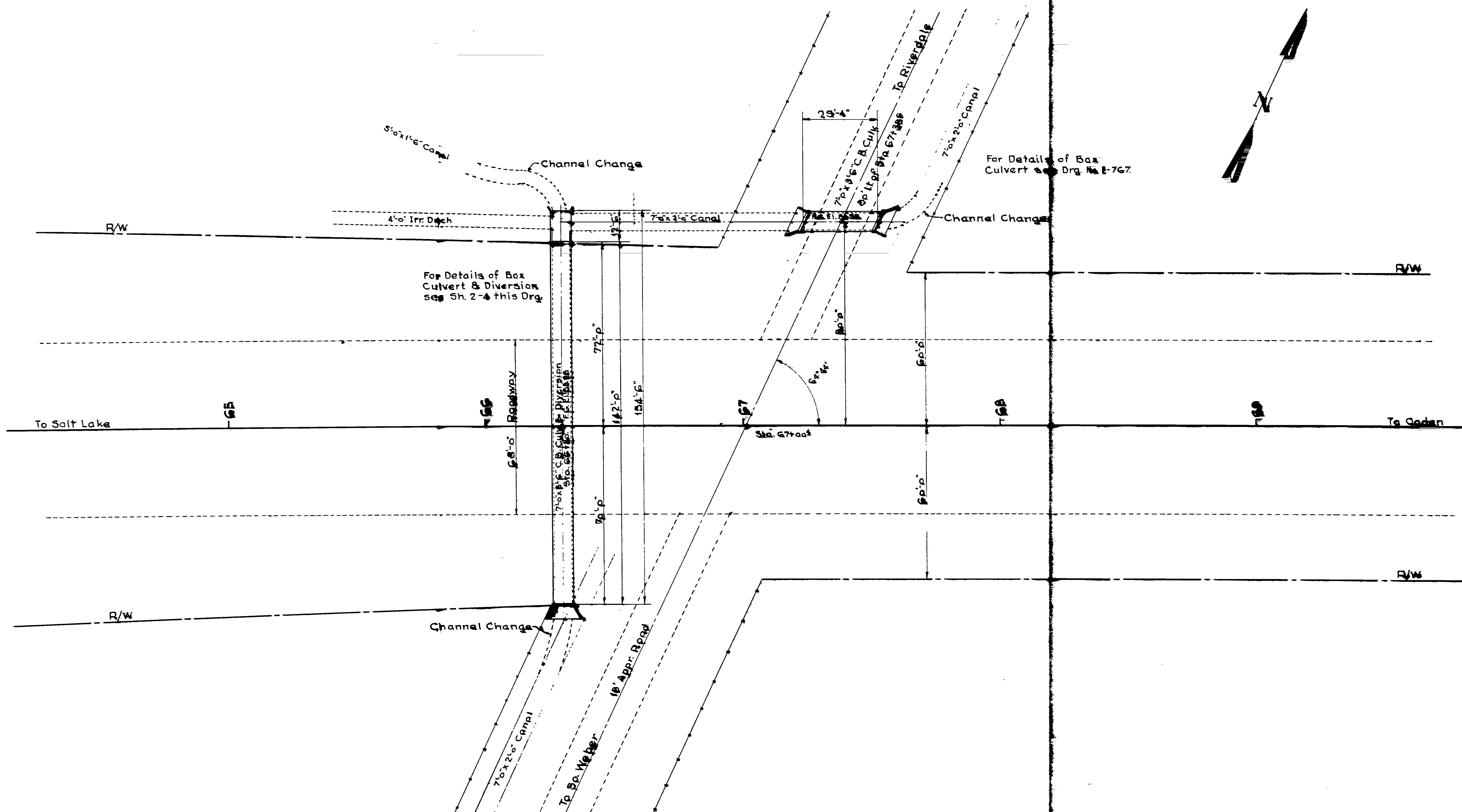
UTAH STATE ROAD COMMISSION
SALT LAKE CITY - UTAH
W. L. ANDERSON - ENGINEER

— TYPE —

REINFORCING & JOINT DETAILS
FOR PORTLAND CEMENT CONC.
PAVEMENT

DRG-123-4

FED. ROAD DIST. NO.	STATE	SUB. PA. NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
12	UTAH	116A00			



For Details of Box Culvert & Diversion see Sh. 2-4 this Drg.

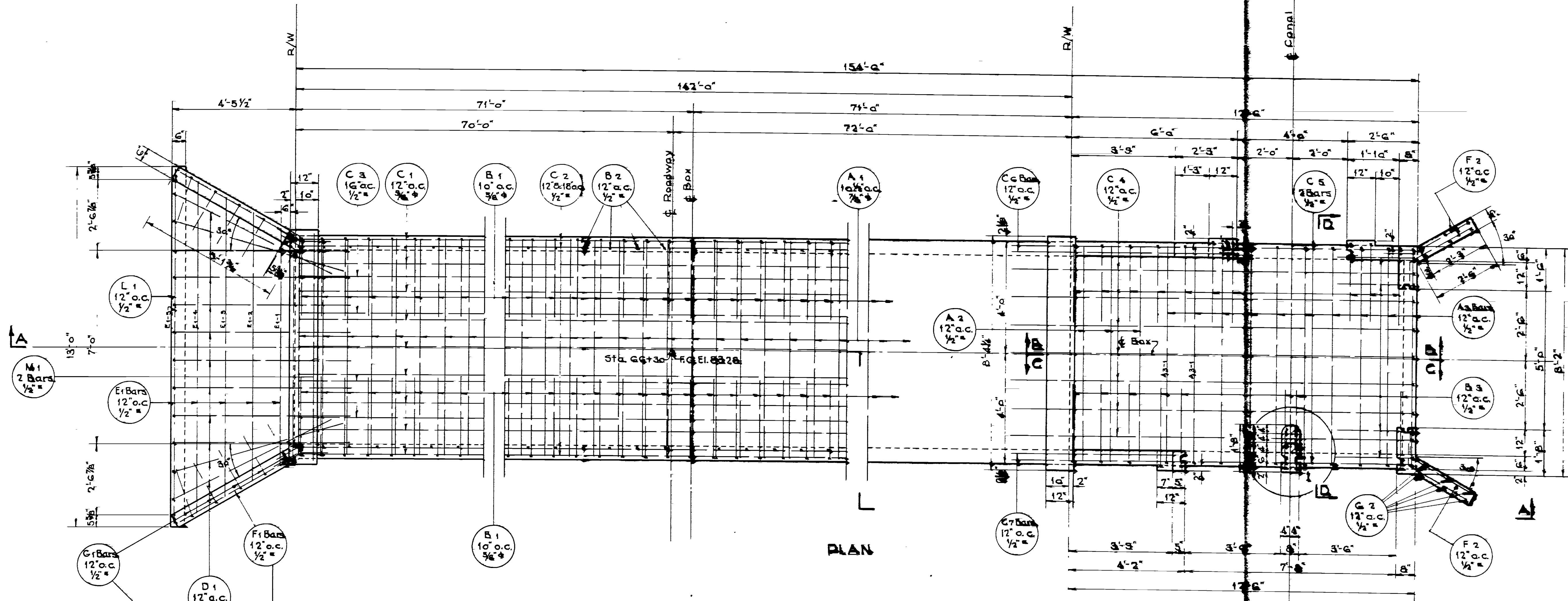
For Details of Box Culvert see Drg. No. E-767

SITUATION PLAN

NO.	DATE	BY	REVISIONS

Sheet 1 of 4 Sheets
 UTAH STATE ROAD COMMISSION
 7'x9' CONCRETE BOX
 CULVERT & DIVERSION
 Sta. 67+00 to 67+100
 South-Central Water Co.
 South-Central Water Co.
 South-Central Water Co.

FED. ROAD DIST. NO.	STATE	SECTION	SHEET NO.	TOTAL SHEETS
12	UTAH	114A(C)		



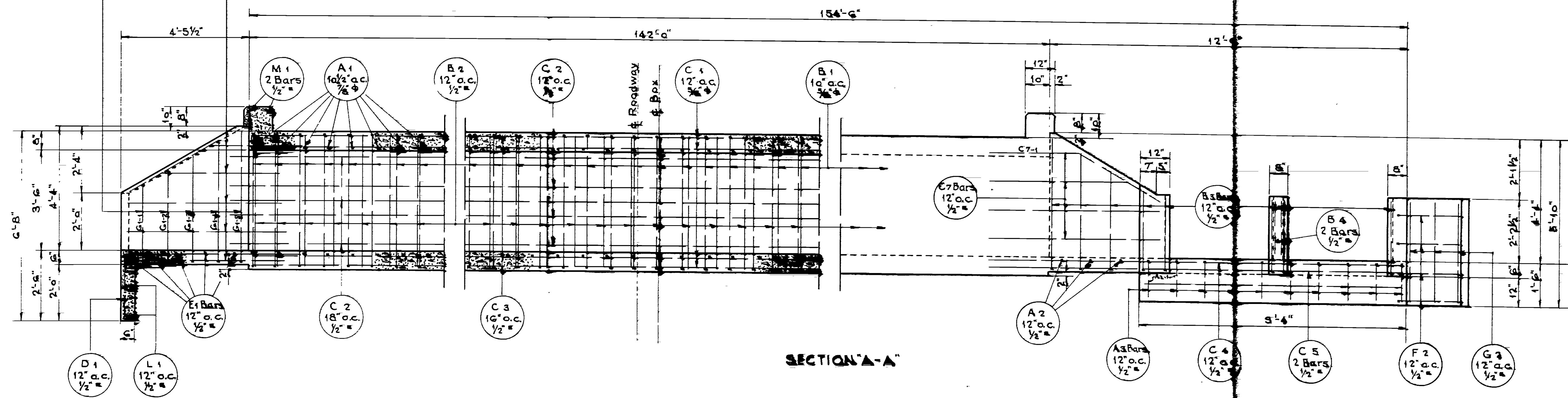
PLAN

GENERAL NOTES
 Materials, Construction and Workmanship shall be in accordance with State Standard Specifications for Road and Bridge Construction, edition of 1933 and Supplements thereto. All Concrete shall be Class 'A'. Chamfer all exposed edges 1".

DESIGN DATA
 H-15 Loading in accordance with A. S. H. C. Specifications for 1944.
 $f_c = 1,000 \text{ psi}$ $f_s = 20,000 \text{ psi}$ $n = 10$

QUANTITIES
 Excavation for Structure 32 Cu. Yds.
 Concrete Class 'A' 81.0 Cu. Yds.
 Reinforcing Steel 17,530 Lbs.

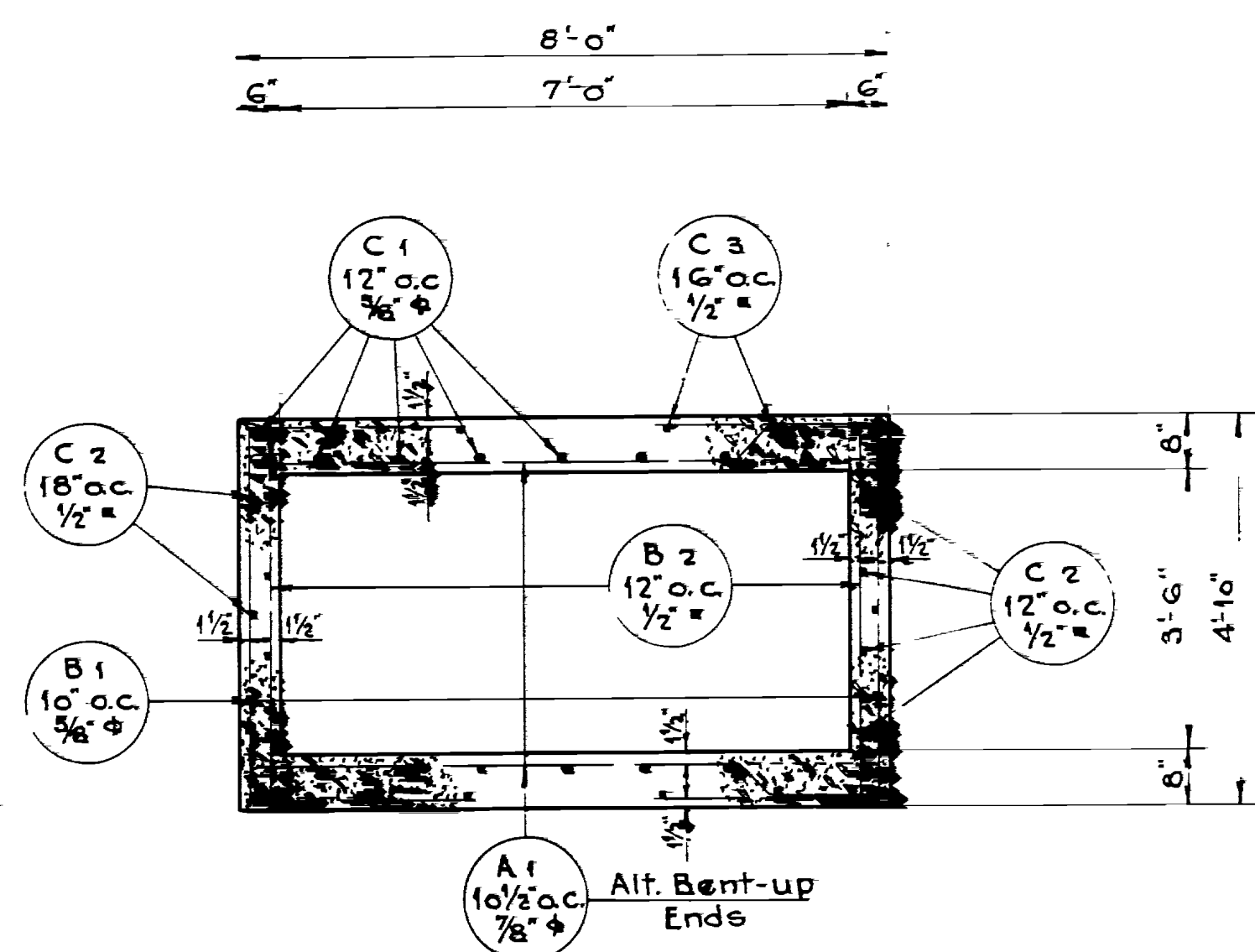
NO.	DATE	REVISIONS



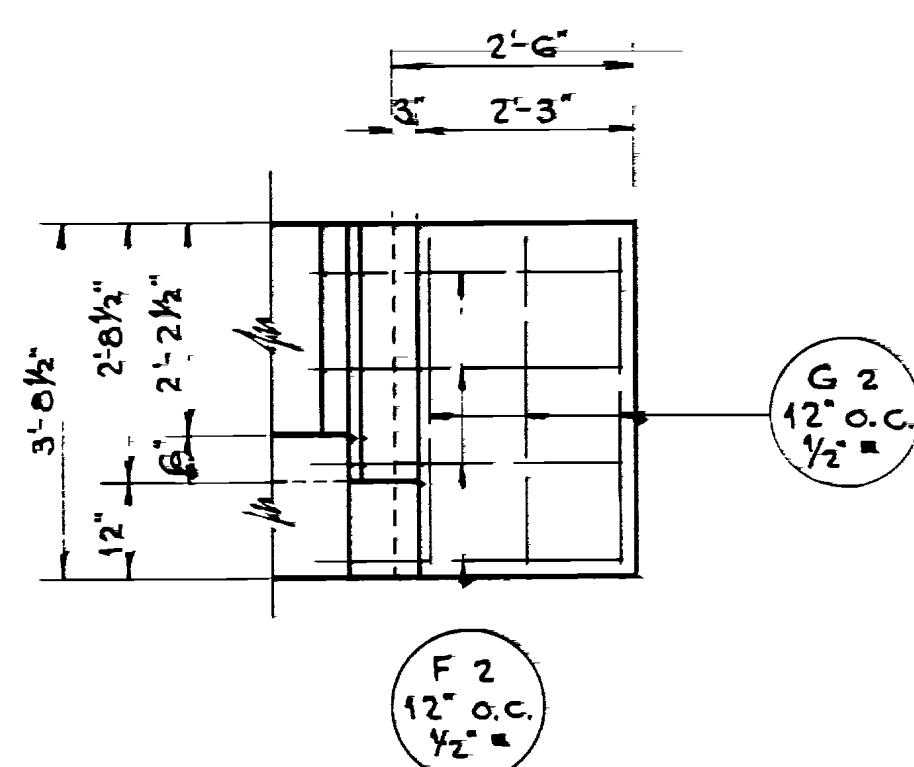
SECTION A-A

SHEET 2 OF 4 SHEETS
 UTAH STATE ROAD COMMISSION
 SALT LAKE CITY, UTAH
 BRIDGE DEPARTMENT
CONCRETE BOX CULVERT & DIVERSION
 Sta. 66+30 - 31+70
 Death Curve - Riverside - Weber Co.
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 SCALE: [Blank]
 DATE: [Blank]

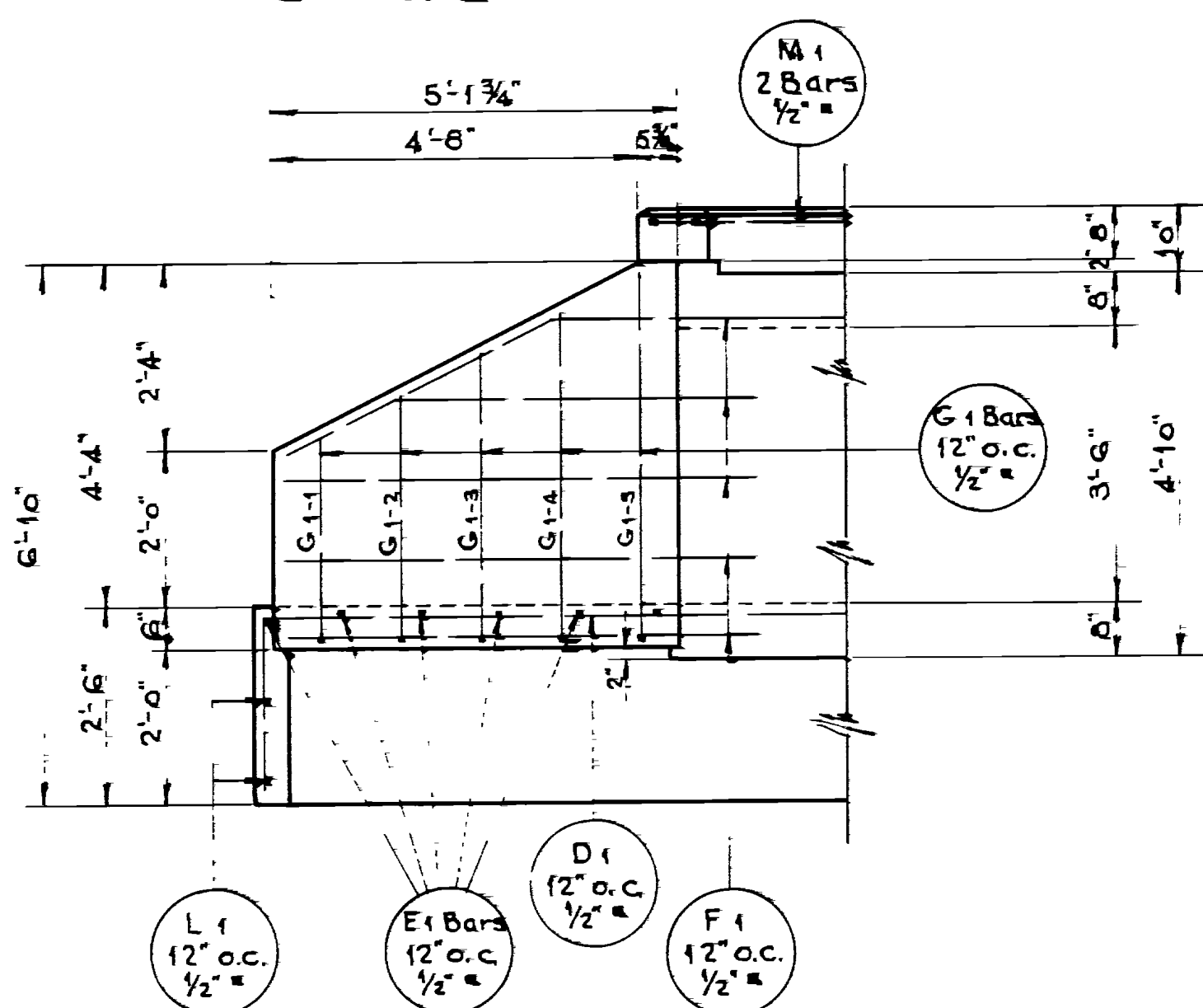
FED. ROAD DIST. NO.	STATE	S.N. R.A. FORM NO.	FORMAL TITLE	PROJECT NO.	TOTAL SHEETS
12	UTAH	114-A-48			



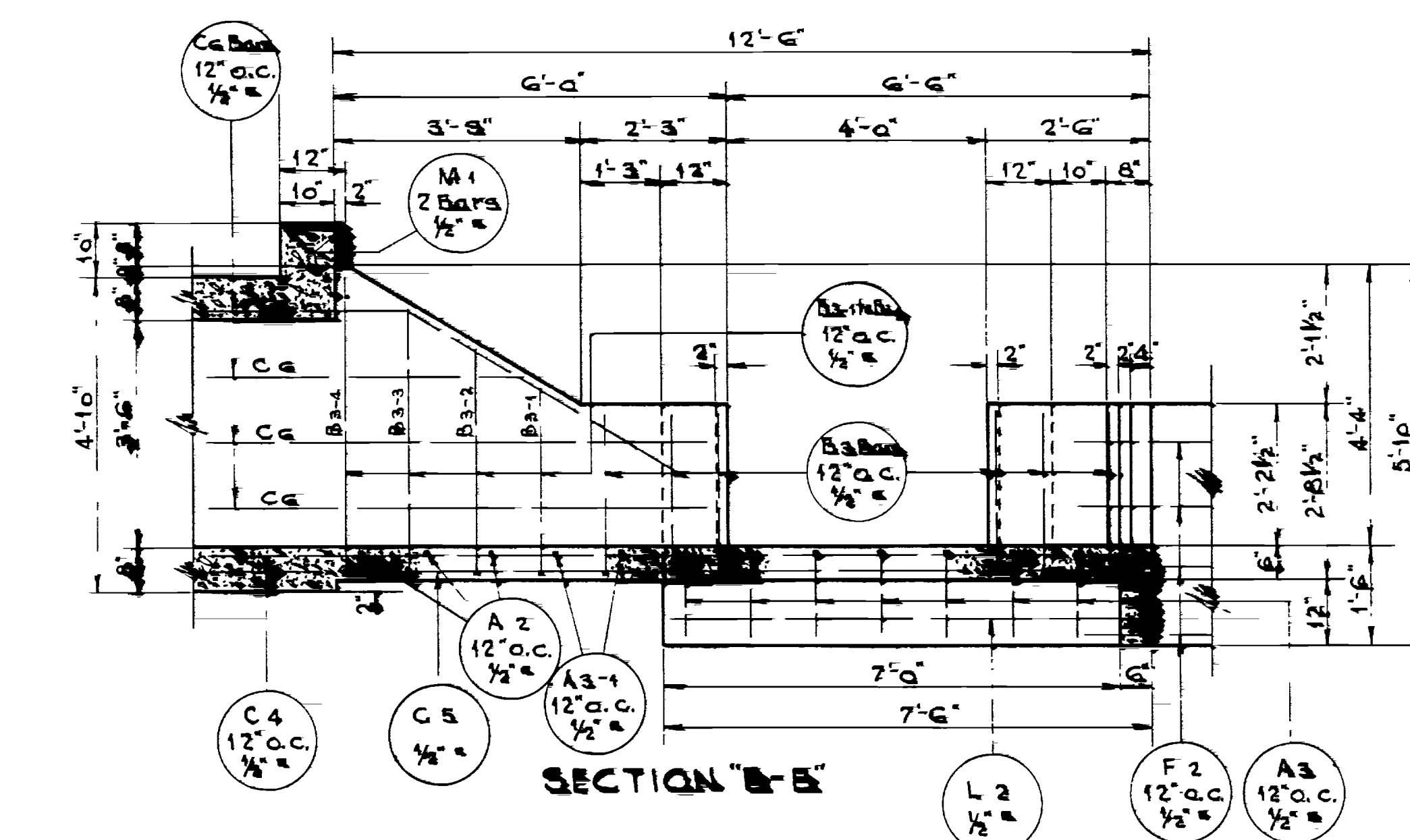
SECTION THRU BOX



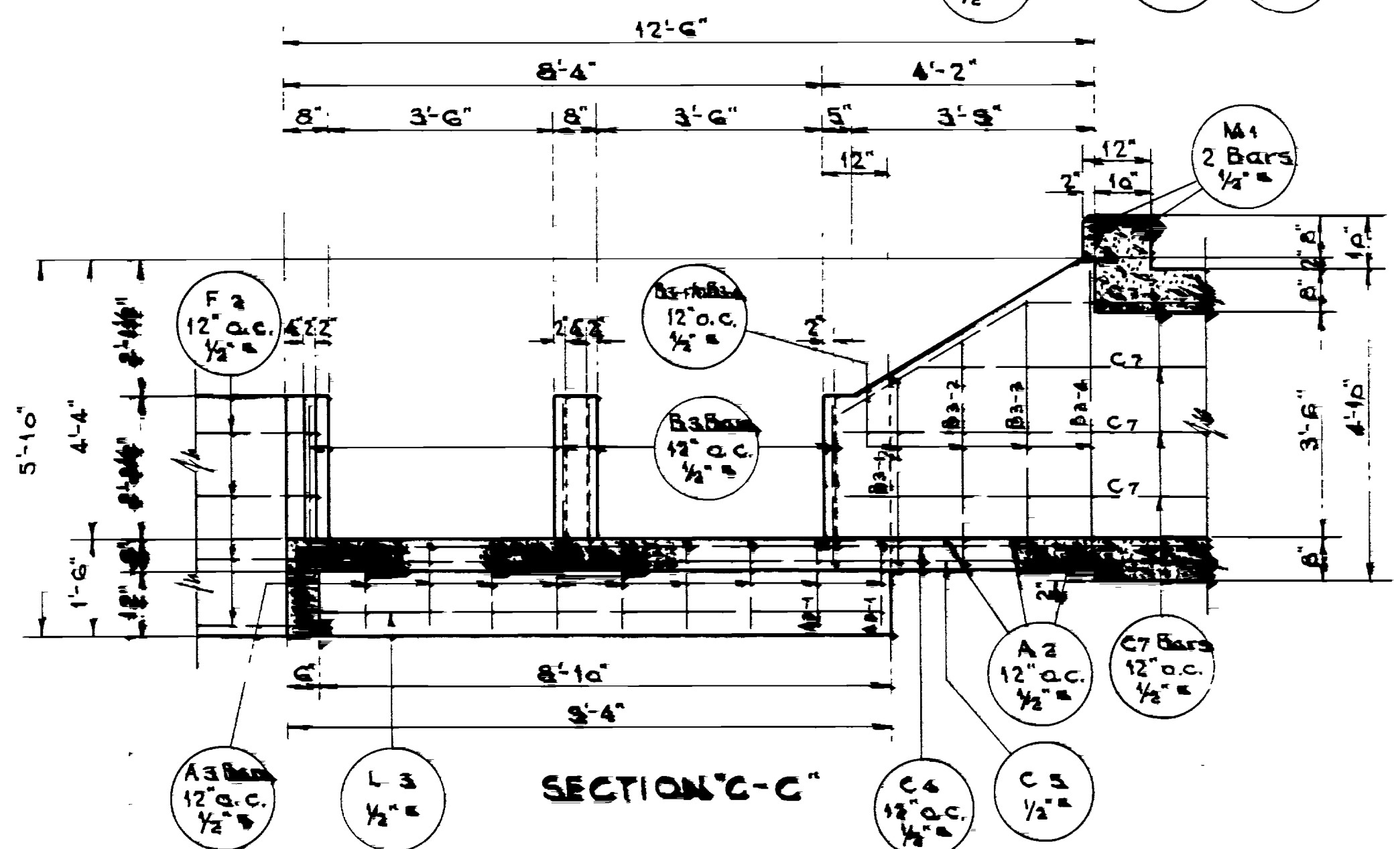
WING WALL 'B' ELEVATION



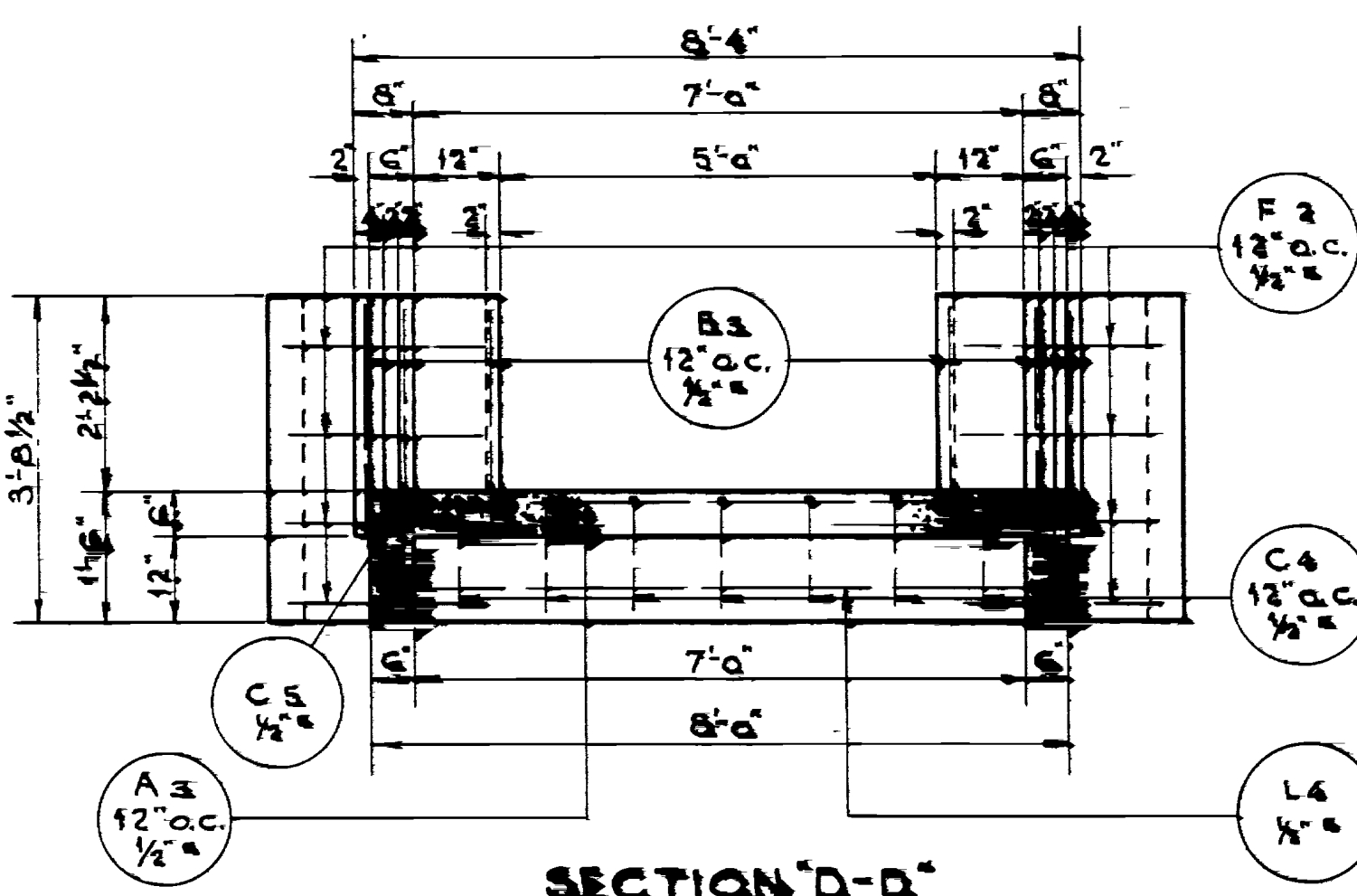
WING WALL 'A' ELEVATION



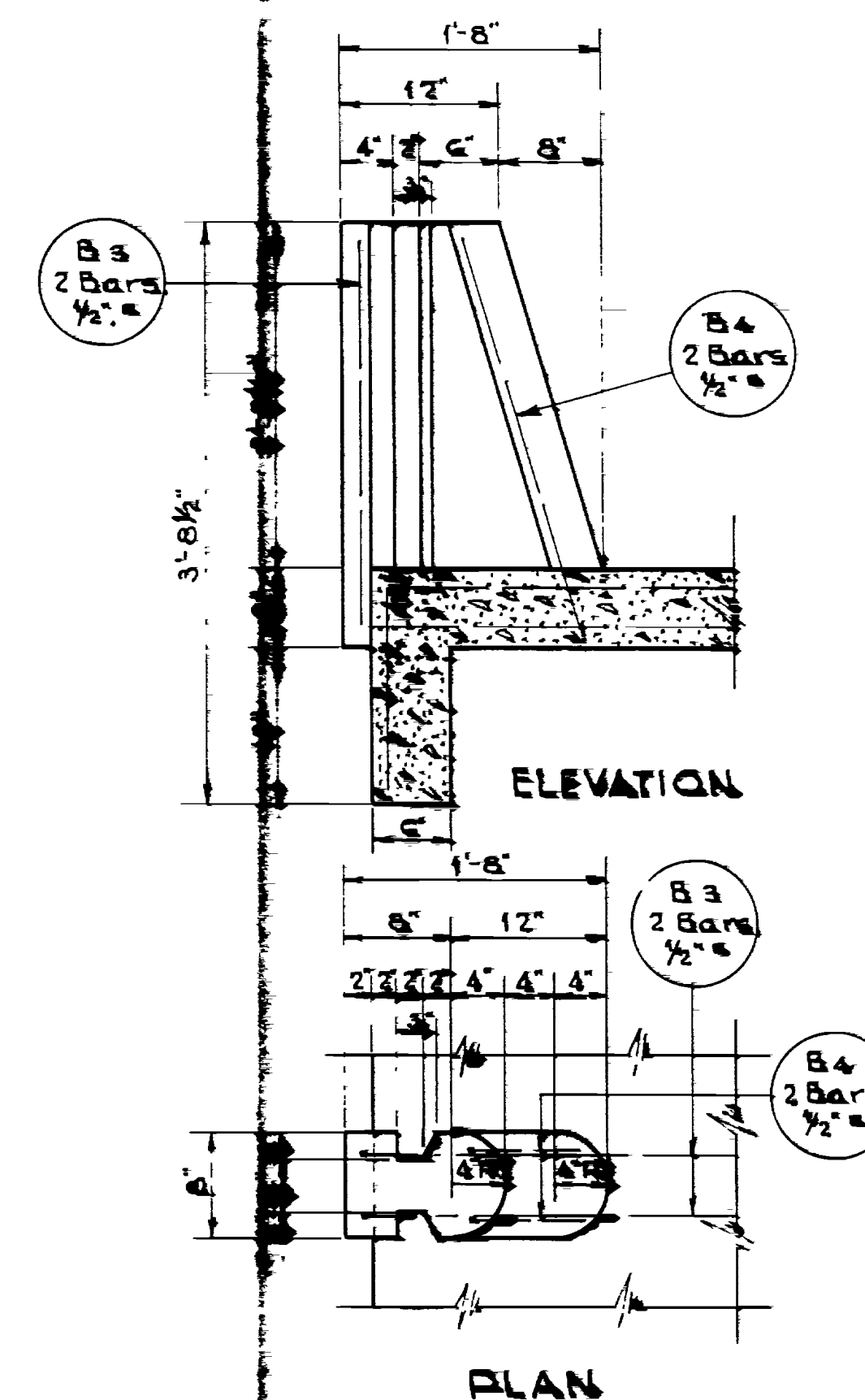
SECTION 'B-B'



SECTION 'C-C'



SECTION 'D-D'



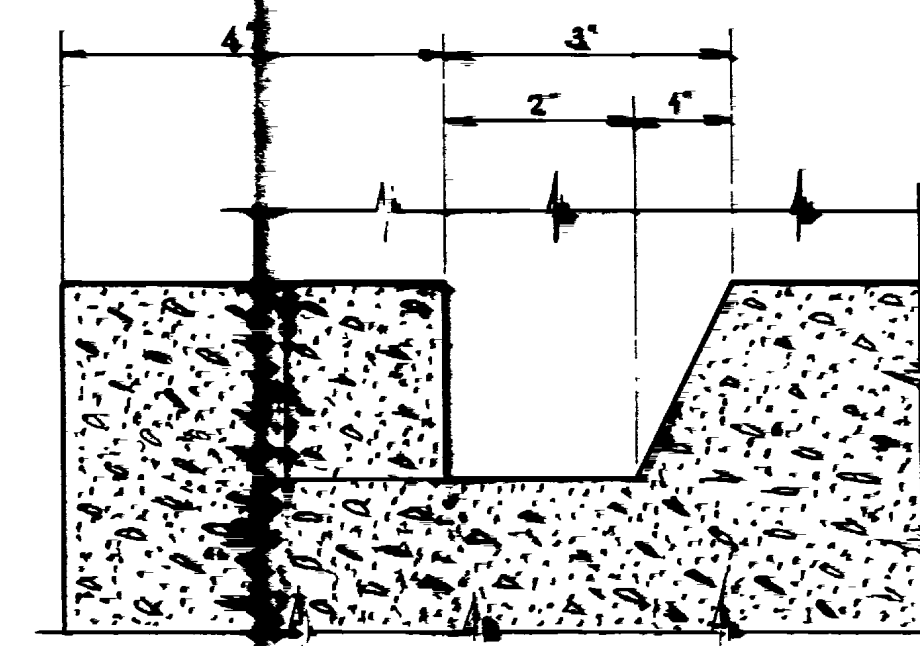
ELEVATION

PLAN

DETAIL '1'

1'-0"

Note: Flash Boards shall be 2"x12" Douglas Fir. Furnishing and Placing of all Lumber to be included in Unit Price Bid for Concrete Class 'A'.



SECTION THRU FLASH BOARD SLOT
Half Size

REVISIONS	DATE	BY	APP. BY

Sheet 3 of 4 Sheets

UTAH STATE ROAD COMMISSION	
SALT LAKE CITY, UTAH	
BRIDGE DEPARTMENT	
70x36 CONCRETE BOX	
CULVERT & OVERPASS	
Sta. 65+30 - 65+70	
Death Curve - 100 ft. Radius	
DESIGNED BY	
CHECKED BY	
DATE	

REINFORCING STEEL SCHEDULE

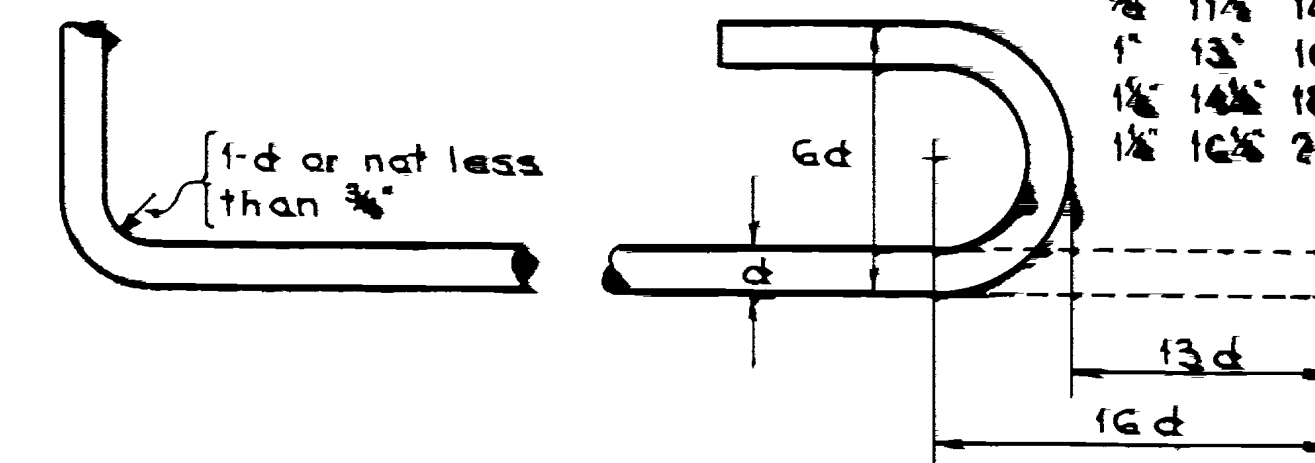
Mark	Location	Size	Length	No. Bars	Total Length	Sketch	0 to 0
A 1	Culvert Slabs	3/4"	9'-10"	32	3205'-8"		7'-9"
A 2	Div. Box Slab	1/2"	7'-9"	3	23'-3"		
A 3	"	1/2"	10'-3"	8	82'-0"		
A 3-1	"	1/2"	9'-0"	2	18'-0"		
B 1	Culvert Sidewalls	3/4"	10'-1"	342	3448'-6"		
B 2	"	1/2"	4'-7"	286	1310'-10"		
B 3	Div. Box Sidewalls	1/2"	4'-2"	14	58'-4"		
B 3-1	"	1/2"	4'-8"	2	8'-4"	a = 2'-10 1/2"	
B 3-2	"	1/2"	5'-3"	2	10'-6"	a = 3'-5 1/2"	
B 3-3	"	1/2"	5'-10"	2	11'-8"	a = 4'-0 1/2"	
B 3-4	"	1/2"	6'-5"	2	12'-10"	a = 4'-7 1/2"	
B 4	Div. Box Post	1/2"	2'-7"	2	5'-2"		
C 1	Culvert Slabs	3/4"	40'-0"	54	2160'-0"		
			28'-3"	18	517'-6"		
C 2	Sidewalls	1/2"	40'-0"	42	1680'-0"		
			30'-1"	14	421'-2"		
C 3	Slabs	1/2"	40'-0"	24	960'-0"		
			28'-9"	8	230'-0"		

REINFORCING STEEL SCHEDULE

Mark	Location	Size	Length	No. Bars	Total Length	Sketch	0 to 0
C 4	Div. Box Slab	1/2"	15'-3"	7	106'-3"		
C 5	"	1/2"	14'-6"	2	29'-6"		
C 6	" Sidewall	1/2"	7'-9"	3	23'-3"		
C 6-1	"	1/2"	5'-0"	1	5'-0"		
C 7	"	1/2"	6'-0"	3	18'-0"		
C 7-1	"	1/2"	5'-0"	1	5'-0"		
D 1	Approach Apron	1/2"	8'-6"	12	102'-0"		
E 1-1	"	1/2"	8'-6"	1	8'-6"		
E 1-2	"	1/2"	9'-7"	1	9'-7"		
E 1-3	"	1/2"	10'-8"	1	10'-8"		
E 1-4	"	1/2"	11'-10"	1	11'-10"		
E 1-5	"	1/2"	12'-9"	1	12'-9"		
F 1	Appr. Wing Walls	1/2"	6'-2"	10	61'-8"		
F 2	Div. Box Wing Walls	1/2"	3'-6"	16	56'-0"		
G 1-1	Appr. Wing Walls	1/2"	4'-3"	2	8'-6"		
G 1-2	"	1/2"	4'-9"	2	9'-6"		
G 1-3	"	1/2"	5'-3"	2	10'-6"		
G 1-4	"	1/2"	5'-9"	2	11'-6"		
G 1-5	"	1/2"	6'-3"	2	12'-6"		
G 2	Div. Box	1/2"	3'-5"	12	41'-0"		
L 1	Appr. Curtain Wall	1/2"	12'-3"	2	25'-0"		
L 2	Div. Box	1/2"	7'-3"	1	7'-3"		
L 3	"	1/2"	9'-1"	1	9'-1"		
L 4	"	1/2"	7'-9"	1	7'-9"		
M 1	"	1/2"	8'-1"	4	32'-4"		
					3,205'-8" of 3/4" Bars = 2,045'	6,552.4'	
					9,125'-0" of 1/2" Bars = 1,045'	2,388.4'	
					5,472'-0" of 1/2" Bars = 885'	4,231.2'	
						17,352.0'	

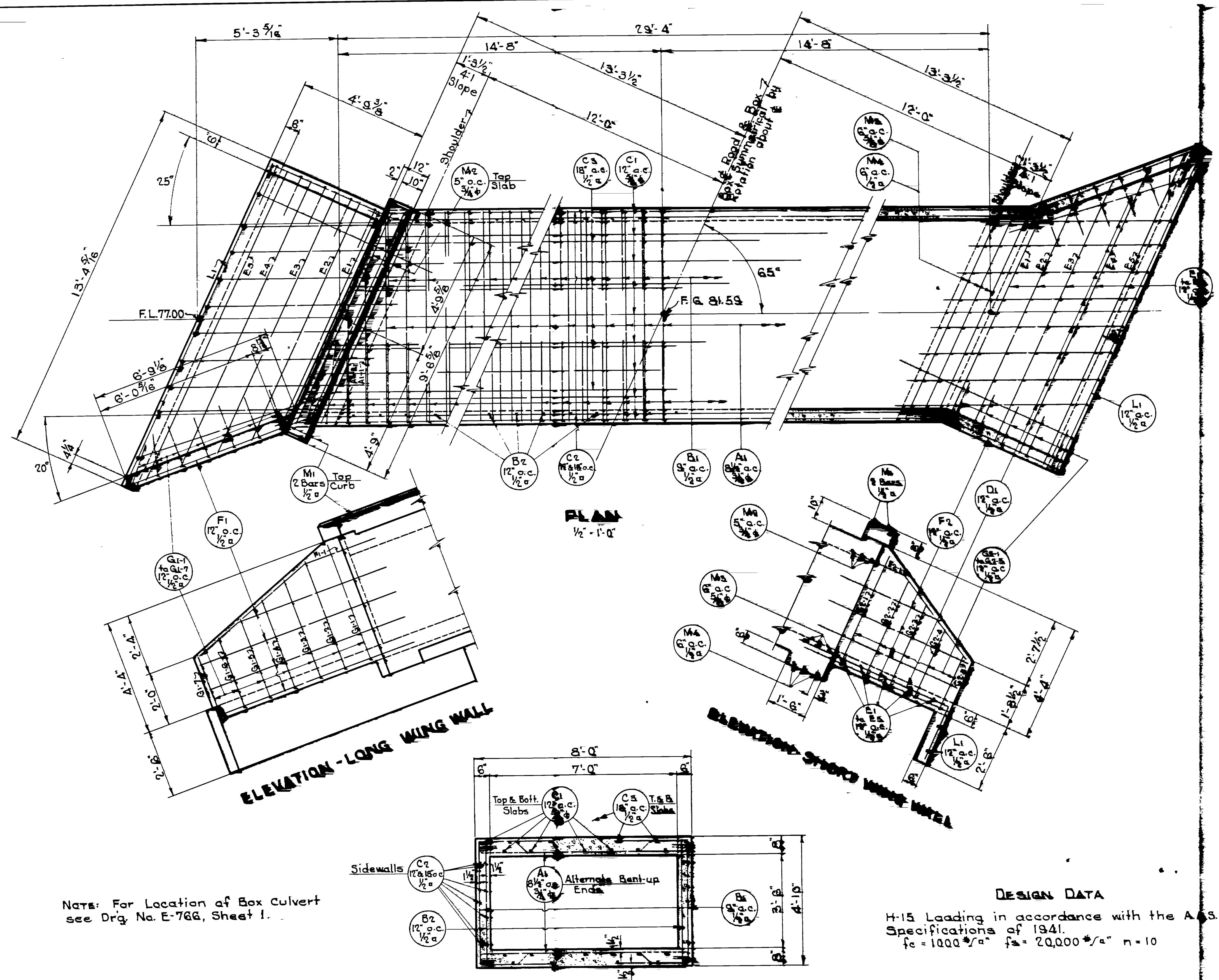
REVISIONS
DATE BY

d	13d	16d
3/8"	5"	6"
1/2"	6"	8"
5/8"	8"	10"
3/4"	9"	12"
7/8"	11"	14"
1"	13"	16"
1 1/8"	14 1/2"	18"
1 1/4"	16 1/2"	20"



When hooks are called for the lengths given in the Total Length column include allowance for hooks as shown in above detail. Lengths given in sketches are center to center of bend points. Bar diagrams are not drawn to scale and those bars not detailed are either straight or field bent.

FILE NO.	STATE	DATE	BY	SCALE	TOTAL
12	UTAH	11/4/34			



REVISIONS	DATE	BY	REASON

NOTE: For Location of Box Culvert see Drg. No. E-766, Sheet 1.

REINFORCING STEEL SCHEDULE					
ITEM	LOCATION	SIZE	NO. BARS	TOTAL LENGTH	SKETCH
A1	Slabs	3/4" x 7"	74	703' 7"	
A1-1	"	5/8" x 5'	4	23' 0"	$\alpha = 3' 10 1/2"$
A1-2	"	5/8" x 4'	4	18' 0"	$\alpha = 2' 7 1/2"$
B1	Sidewalls	3/4" x 10' 1"	80	800' 8"	
B2	"	3/4" x 4' 7"	60	275' 0"	
C1	Slabs	5/8" x 29' 1"	18	523' 6"	
C2	Sidewalls	5/8" x 31' 8"	14	443' 4"	
C3	Slabs	5/8" x 29' 1"	8	238' 8"	
D1	Aprons	3/4" x 9' 4"	20	188' 8"	
E1	"	3/4" x 8' 8"	2	17' 4"	
E2	"	3/4" x 9' 8"	2	19' 4"	
E3	"	3/4" x 10' 8"	2	21' 4"	
E4	"	3/4" x 11' 8"	2	23' 4"	
E5	"	3/4" x 12' 8"	2	25' 4"	
F1	Long Wing Walls	3/4" x 7' 8"	8	62' 0"	
F1-1	"	3/4" x 5' 6"	2	11' 0"	
F2	Short	3/4" x 5' 8"	9	48' 0"	
F2-1	"	3/4" x 4' 3"	2	8' 6"	
G1-1	Long	3/4" x 6' 2"	2	12' 4"	
G1-2	"	3/4" x 5' 9"	2	11' 8"	$\alpha = 4' 2"$
G1-3	"	3/4" x 5' 4"	2	10' 8"	$\alpha = 3' 9"$
G1-4	"	3/4" x 5' 0"	2	10' 0"	$\alpha = 3' 5"$
G1-5	"	3/4" x 4' 7"	2	9' 2"	$\alpha = 3' 0"$
G1-6	"	3/4" x 4' 2"	2	8' 4"	$\alpha = 2' 7"$
G1-7	"	3/4" x 3' 10"	2	7' 8"	$\alpha = 2' 3"$
G1-8	Short	3/4" x 6' 1"	2	12' 2"	$\alpha = 4' 6"$
G1-9	"	3/4" x 5' 0"	2	11' 0"	$\alpha = 3' 11"$
G1-10	"	3/4" x 4' 11"	2	9' 10"	$\alpha = 3' 4"$
G1-11	"	3/4" x 4' 4"	2	8' 8"	$\alpha = 2' 8"$
G1-12	"	3/4" x 3' 9"	2	7' 8"	$\alpha = 2' 7"$
L1	Curtain Walls	3/4" x 13' 1"	4	52' 4"	
M1	Curb	3/4" x 9' 3"	4	37' 0"	
M2	Top Slab Ends	3/4" x 8' 6"	8	51' 0"	
M3	Bottom	3/4" x 8' 6"	6	51' 0"	
M4	"	3/4" x 8' 6"	6	51' 0"	

DESIGN DATA

H-15 Loading in accordance with the A.S.H.O. Specifications of 1941.
 $f_c = 1000 \text{ psi}$ $f_s = 20,000 \text{ psi}$ $n = 10$

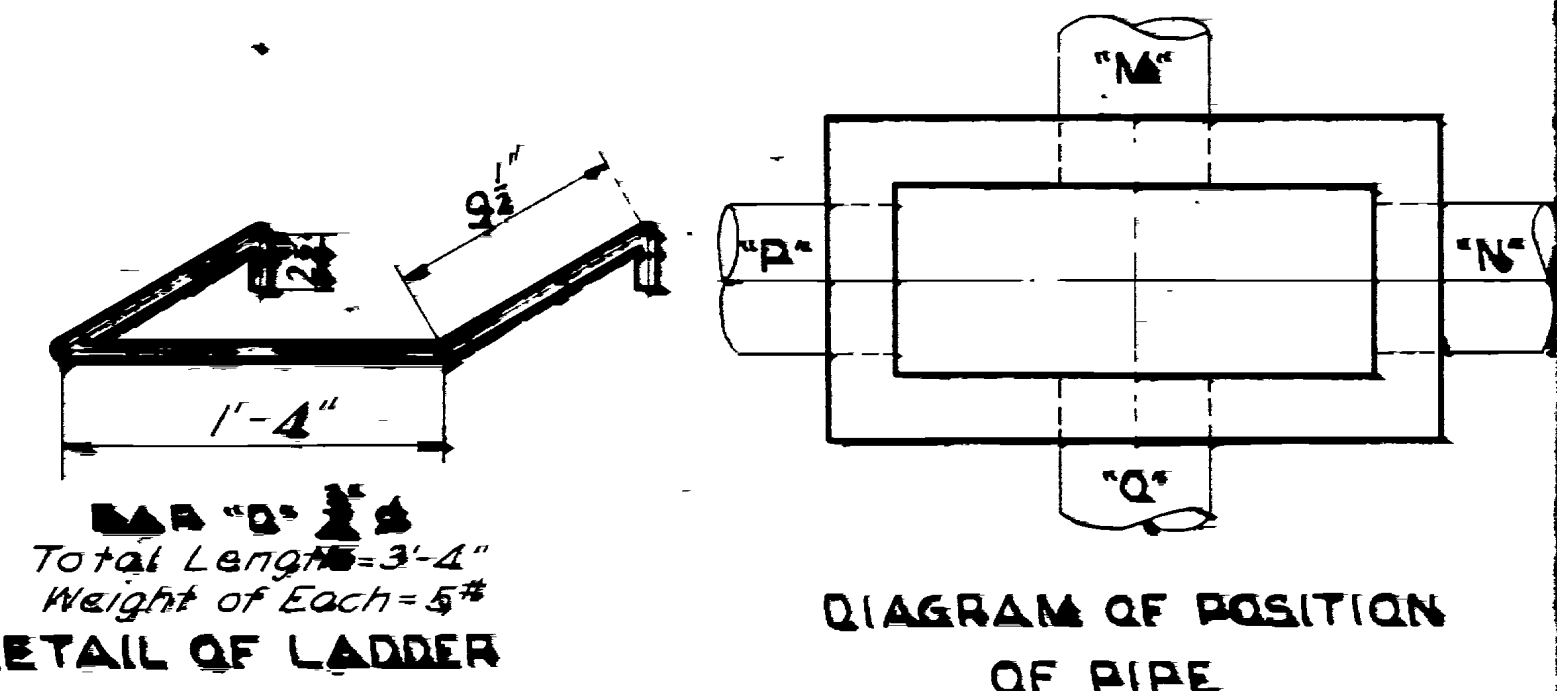
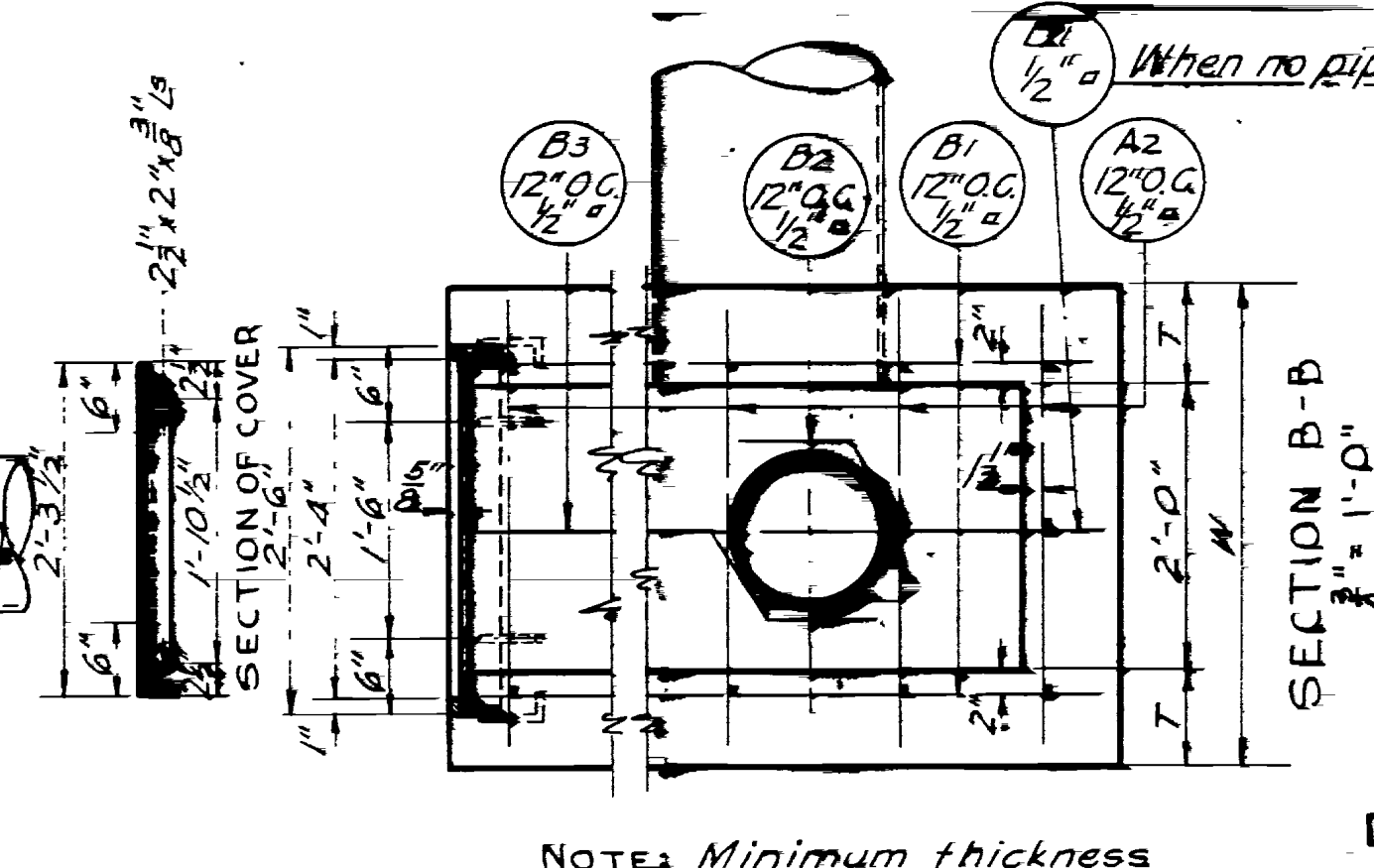
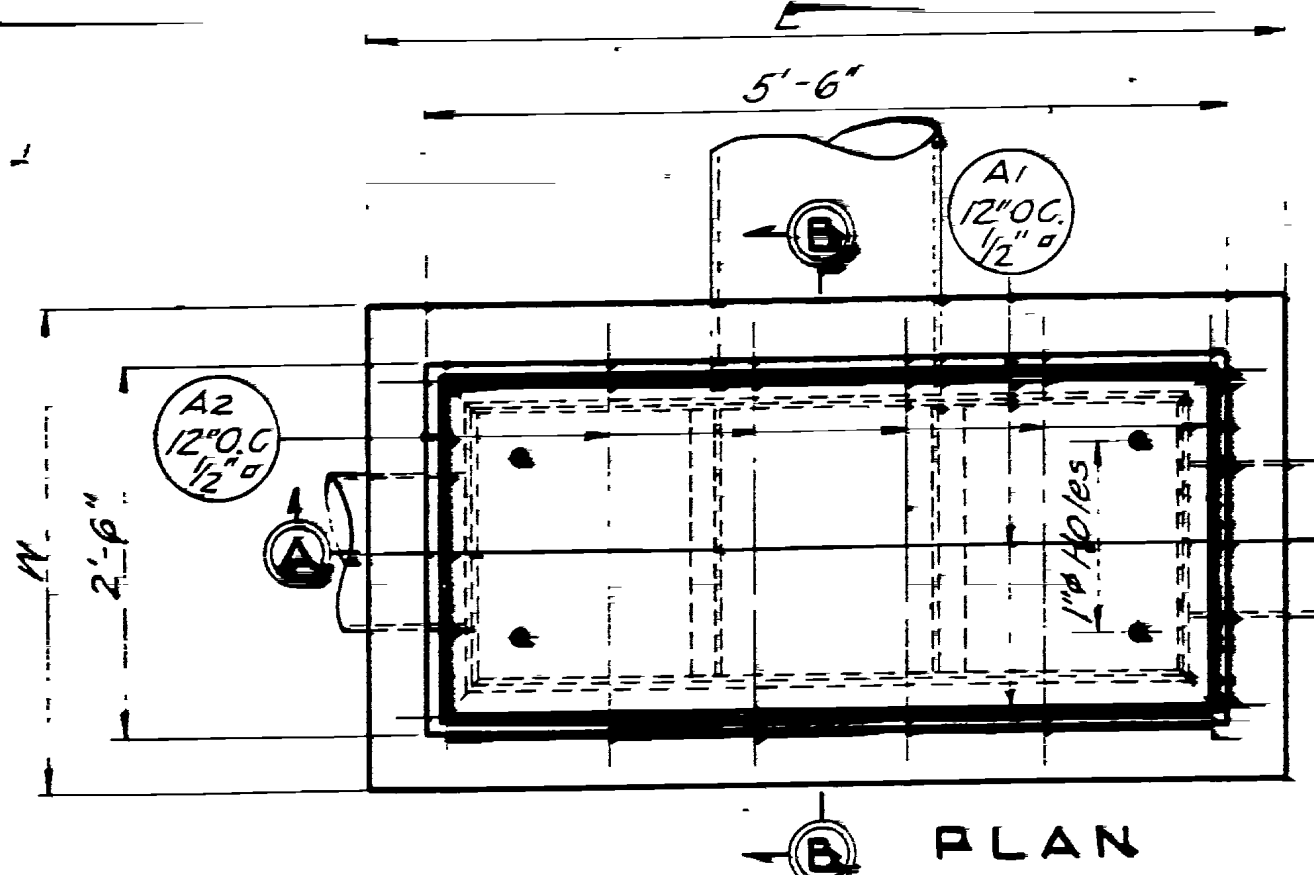
GENERAL NOTES

Materials, Construction and Workmanship shall be in accordance with the State Standard Specifications for Road and Bridge Construction, edition of 1939, and Supplements thereto. All exposed edges to be Chamfered 1".

QUANTITIES

Excavation for Structure 33 Cu. Yd
 Concrete Class A 21 Cu. Yd
 Reinforcing Steel 3874.56 Lbs.

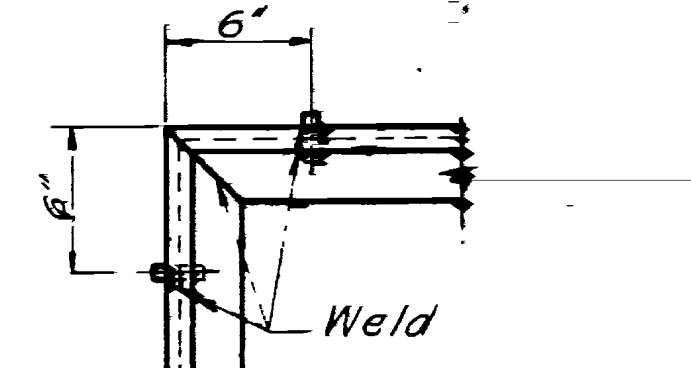
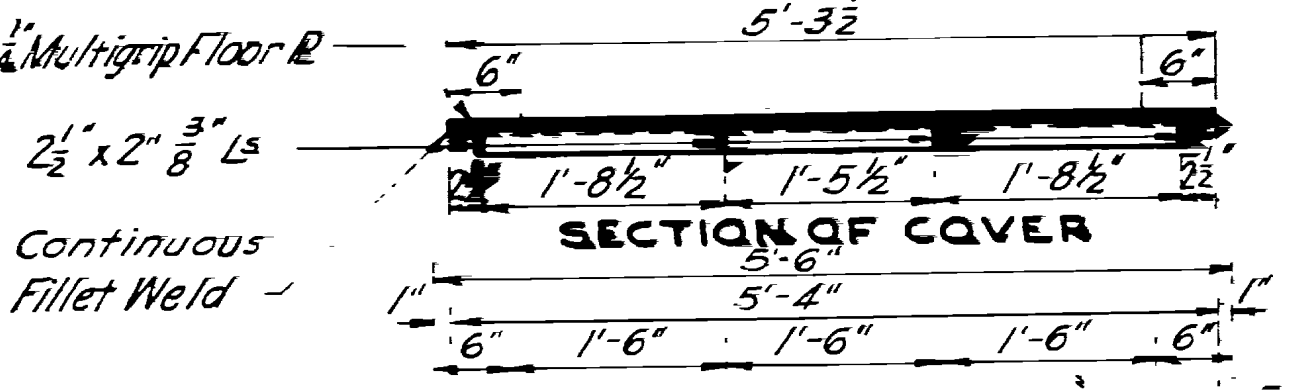
UTAH STATE ROAD COMMISSION
 SALT LAKE COUNTY
 PROJECT: **Box Culvert**
 CONTRACT NO. **114**
 DRAWN BY: **D. H. S.**
 CHECKED BY: **D. H. S.**
 DATE: **11/4/34**



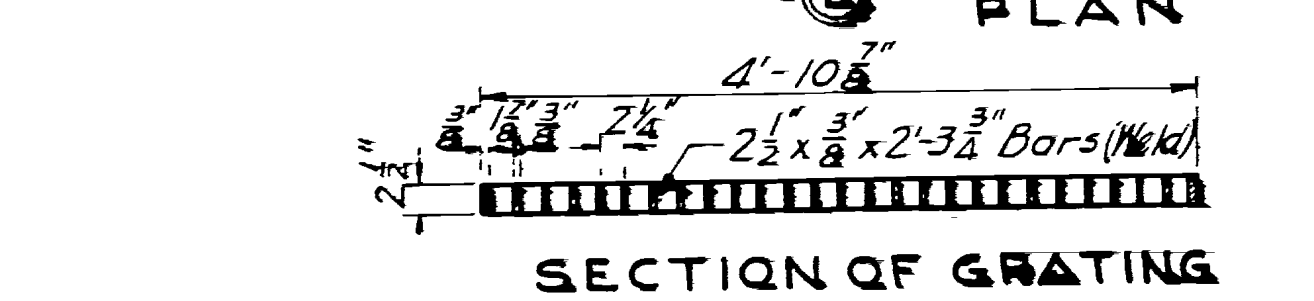
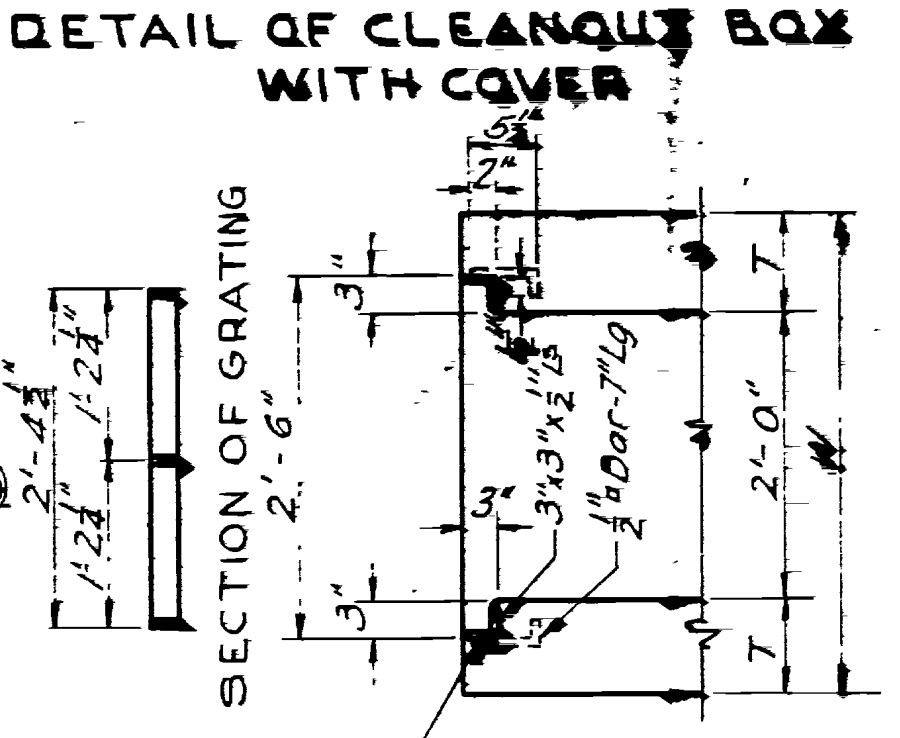
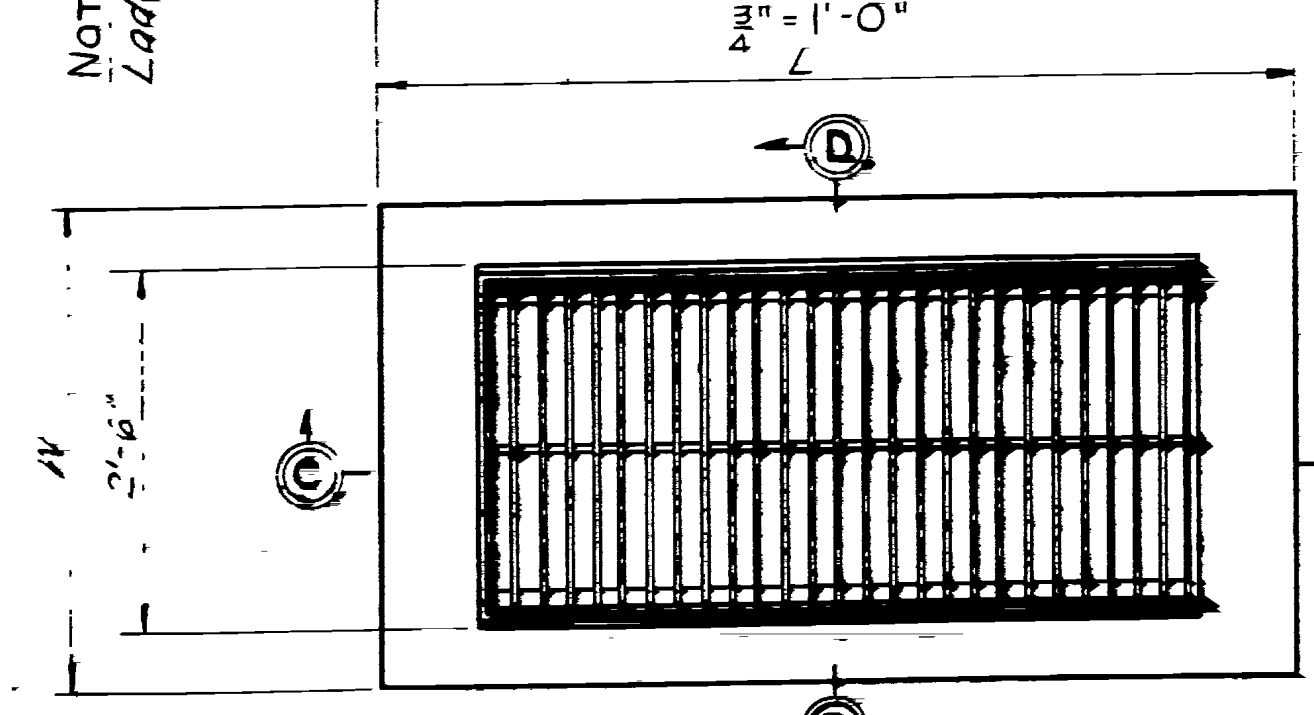
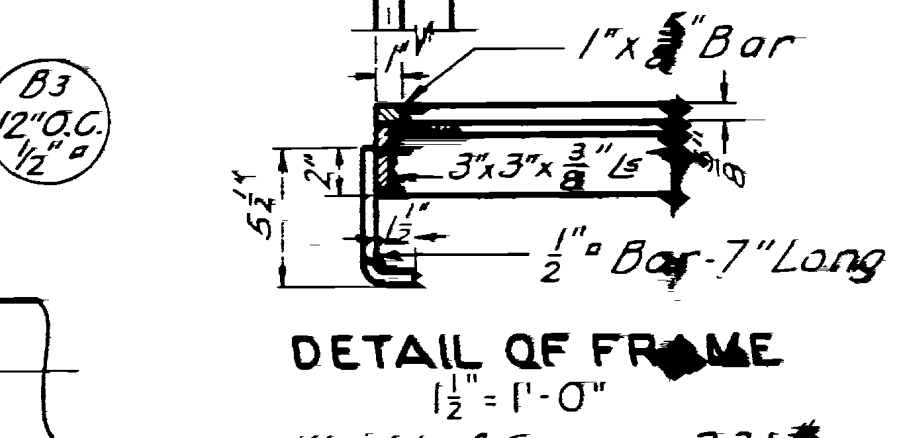
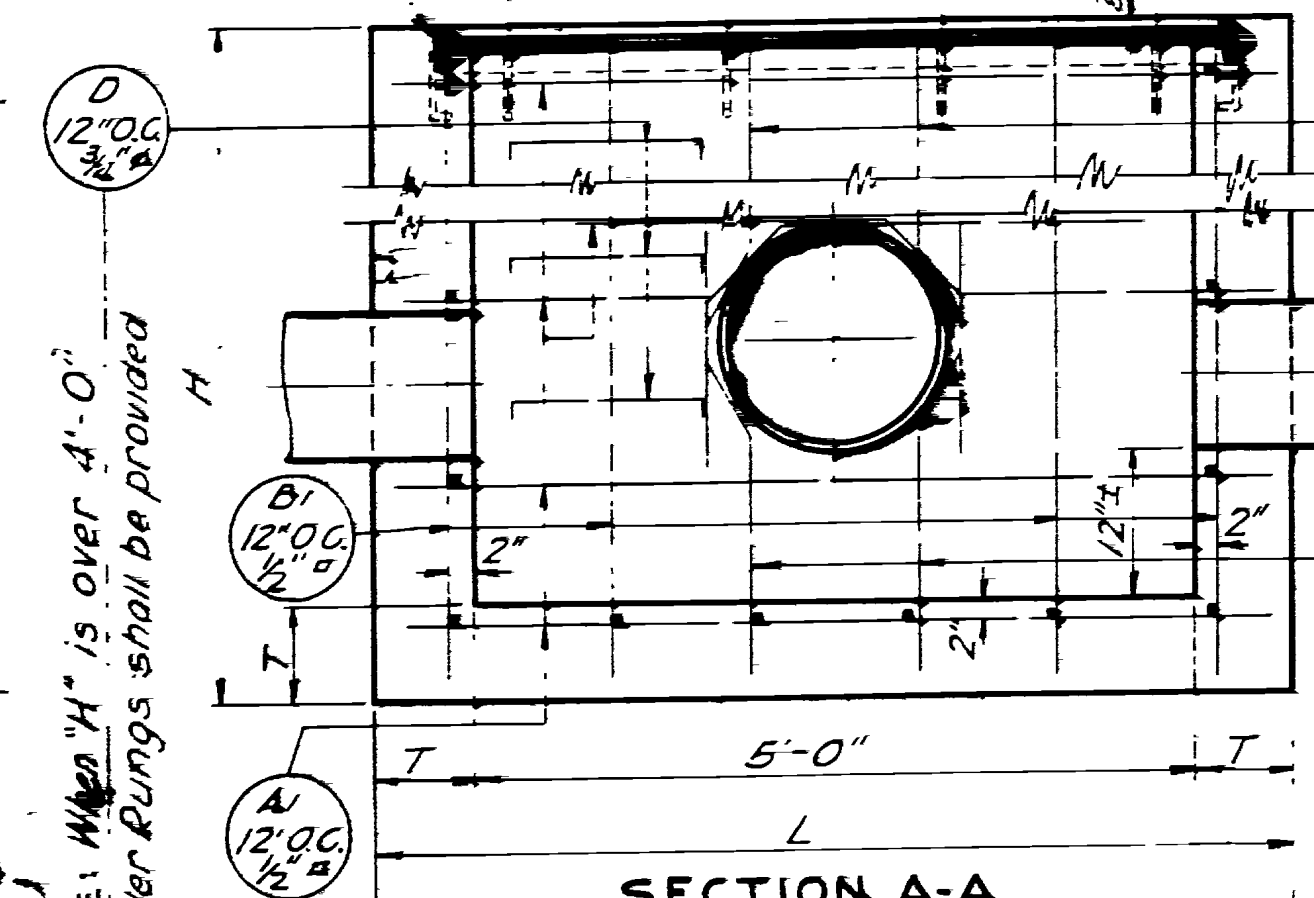
GENERAL NOTES

All concrete to be Class "A" and is to be kept moist 14 days after pouring. All exposed edges to be chamfered 1". All reinforcing steel to be deformed bars of structural grade and secured against displacement by wiring at all intersections with #16 galv. wire and shall have a minimum of 1" clear cover of concrete. Cover plates, Grating and Frames are to be paid for as structural steel. All reinforcing steel and structural steel shall fulfill the requirements of the A.S.H.O. Specifications of 1935. Structural steel shall be given one shop coat of State Standard Red Lead oil and two field coats of State Standard aluminum paint. Contractor to furnish all materials.

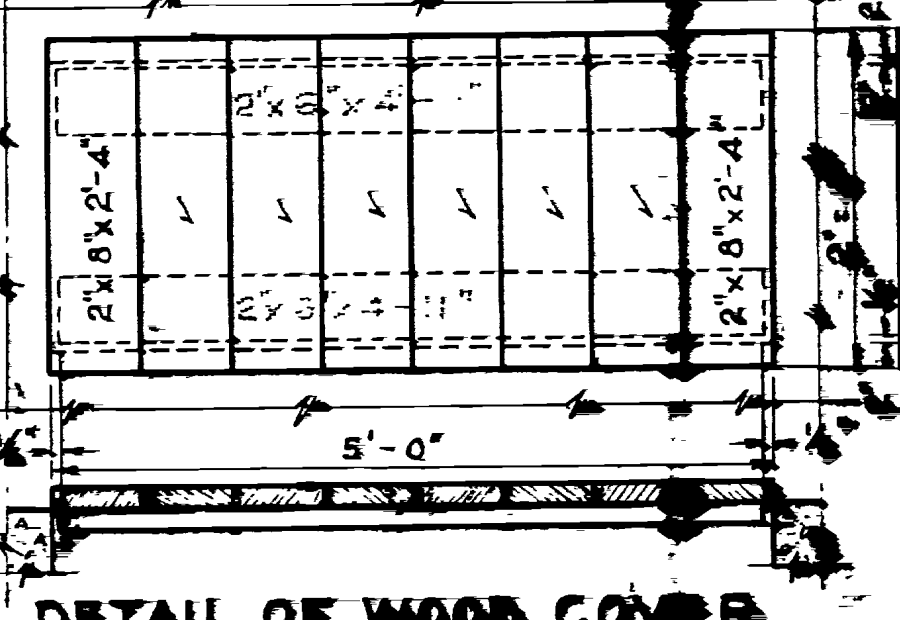
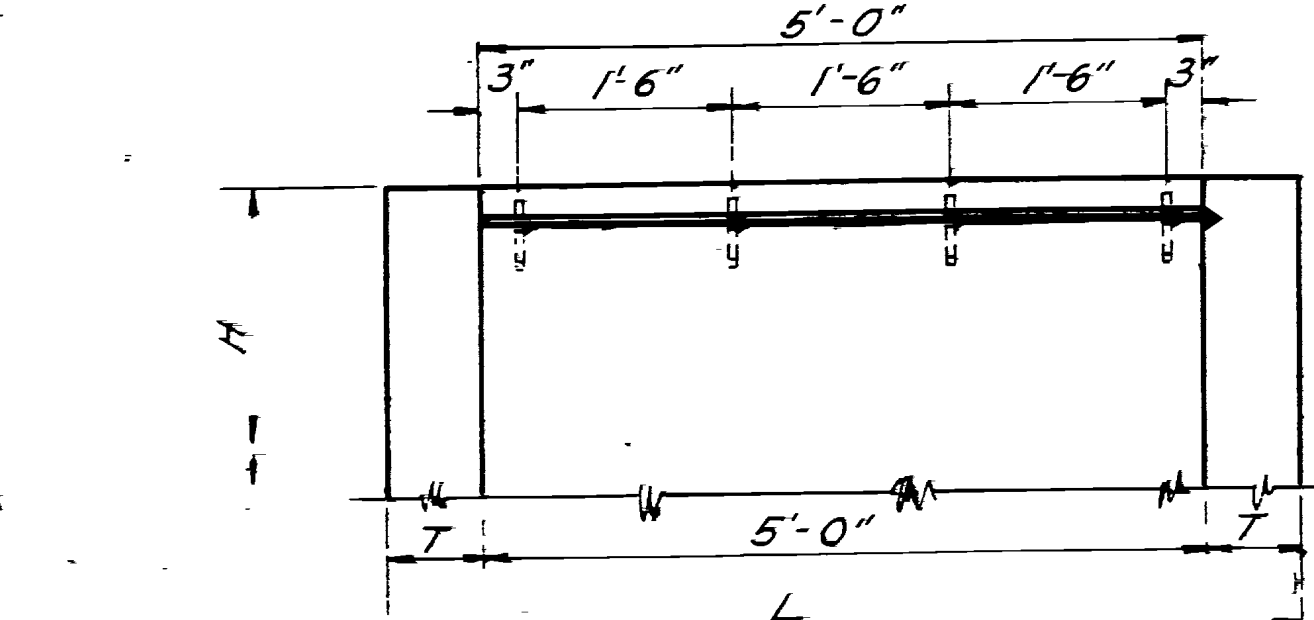
For Materials and Workmanship see State Standard Specifications for Road and Bridge Construction, 1939 edition. All exposed edges to be chamfered 1" unless otherwise noted. Cover Plate, Grating and Frames are to be measured and paid for as structural steel.



NOTE: Beginning with line #28 eliminate all structural and reinforcing steel.



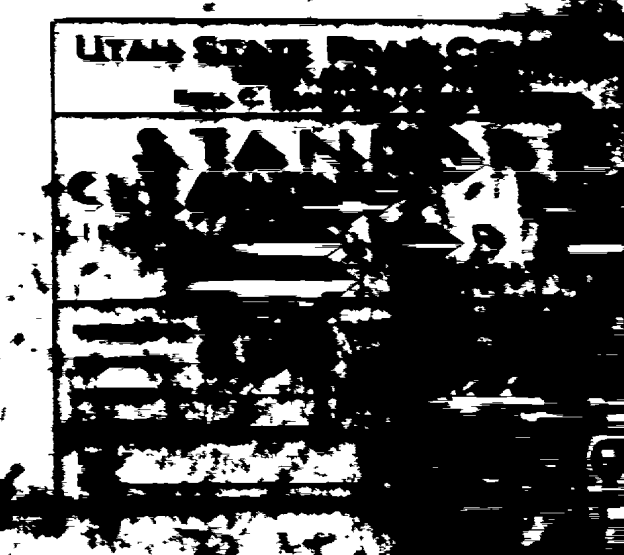
Weight of Grating = 244#
Weight of Frame = 98#
Total Wt. Structural Steel = 342#

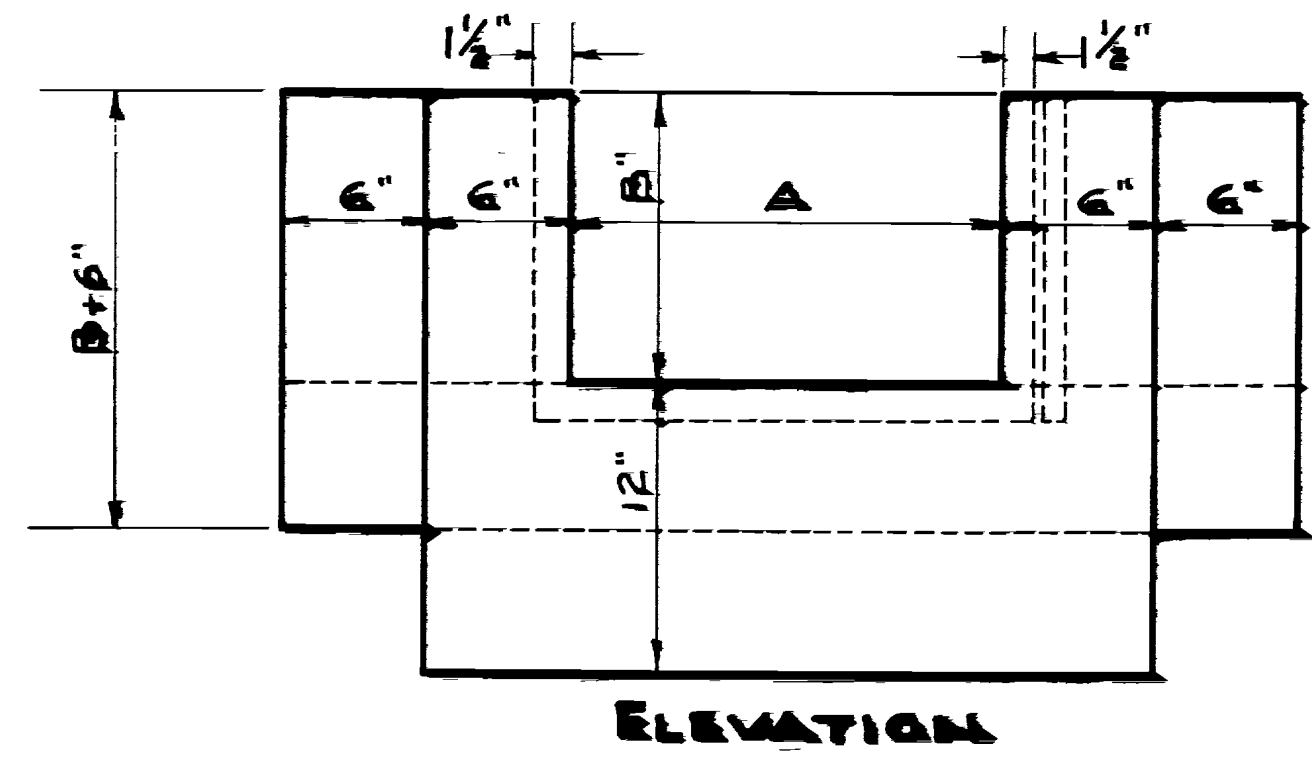
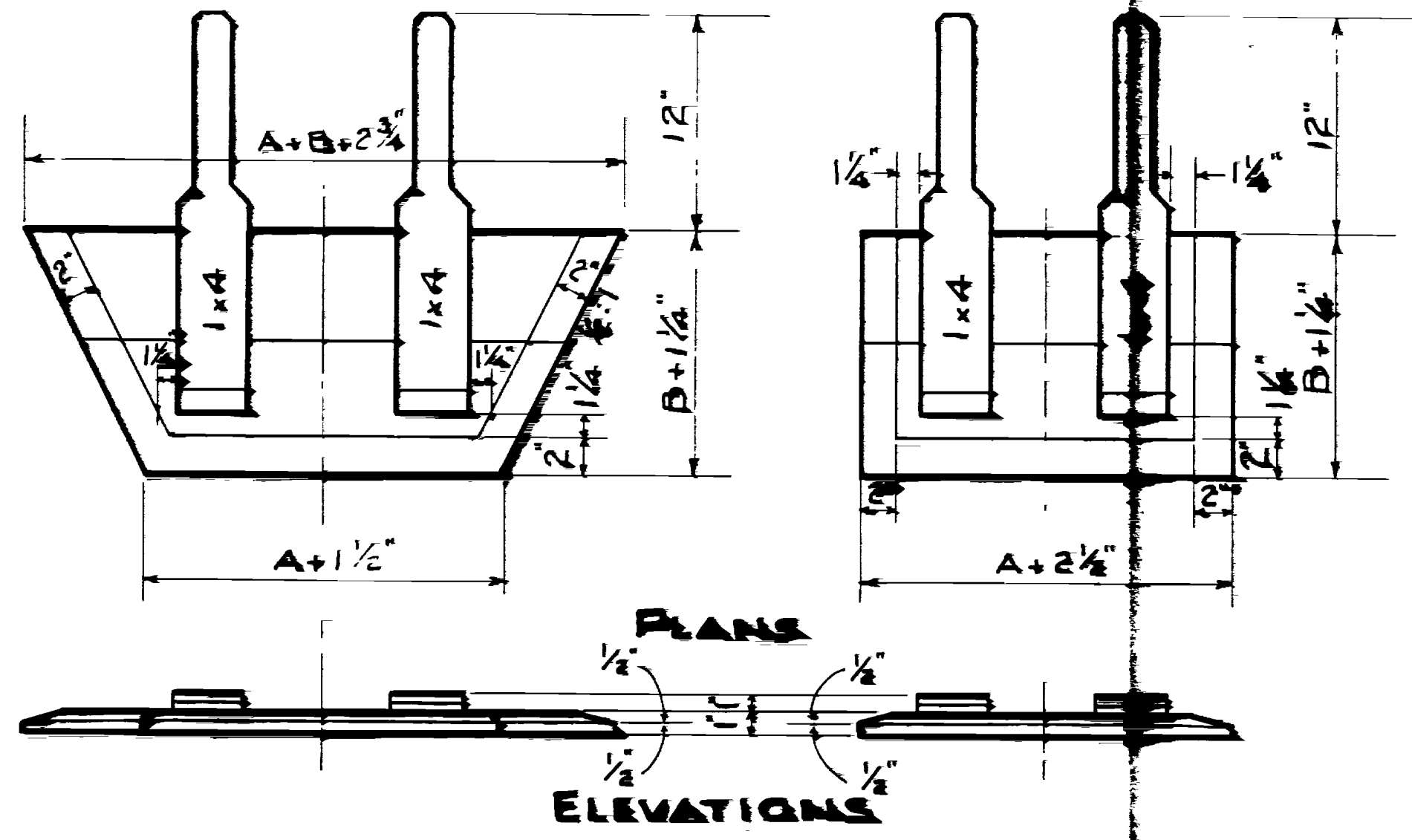
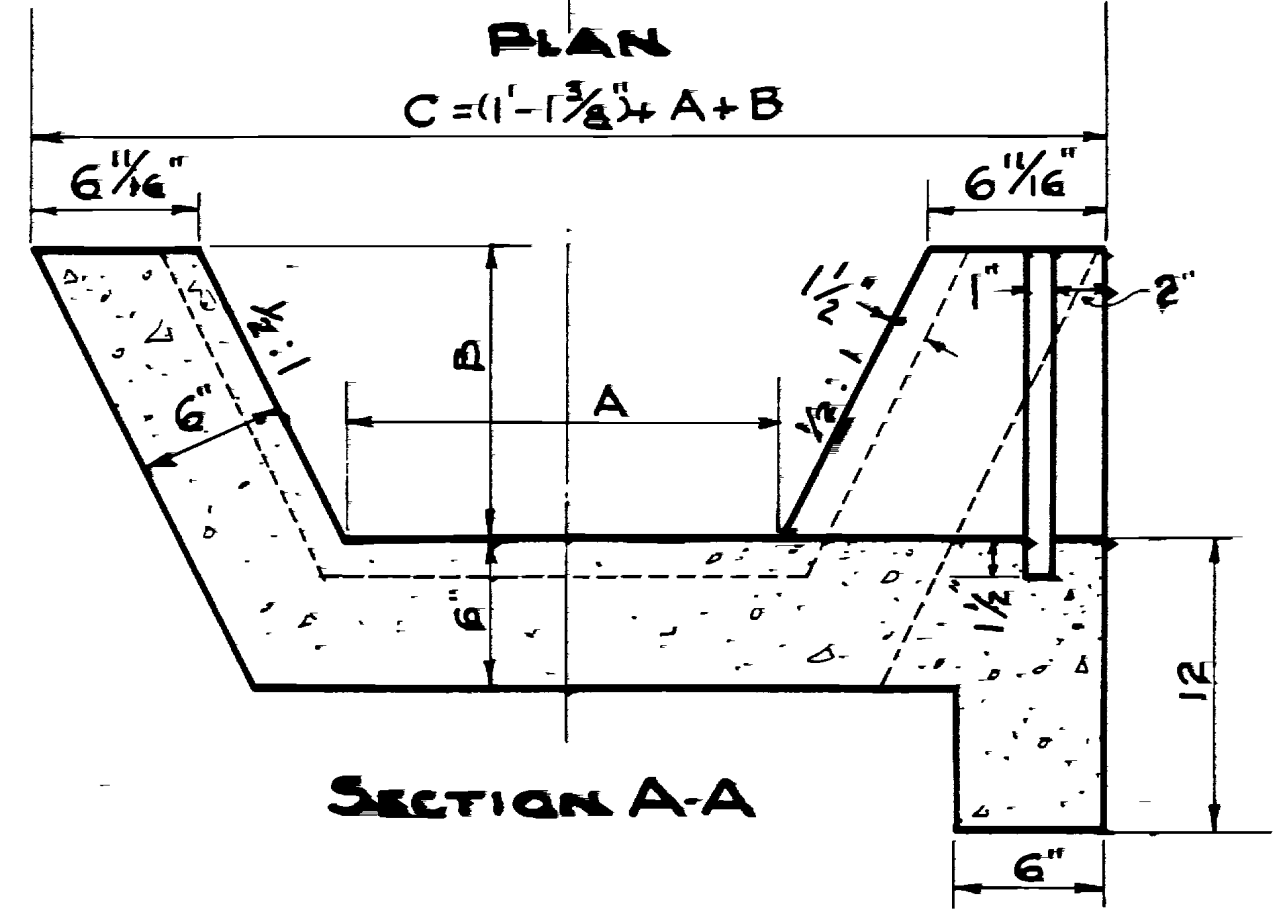
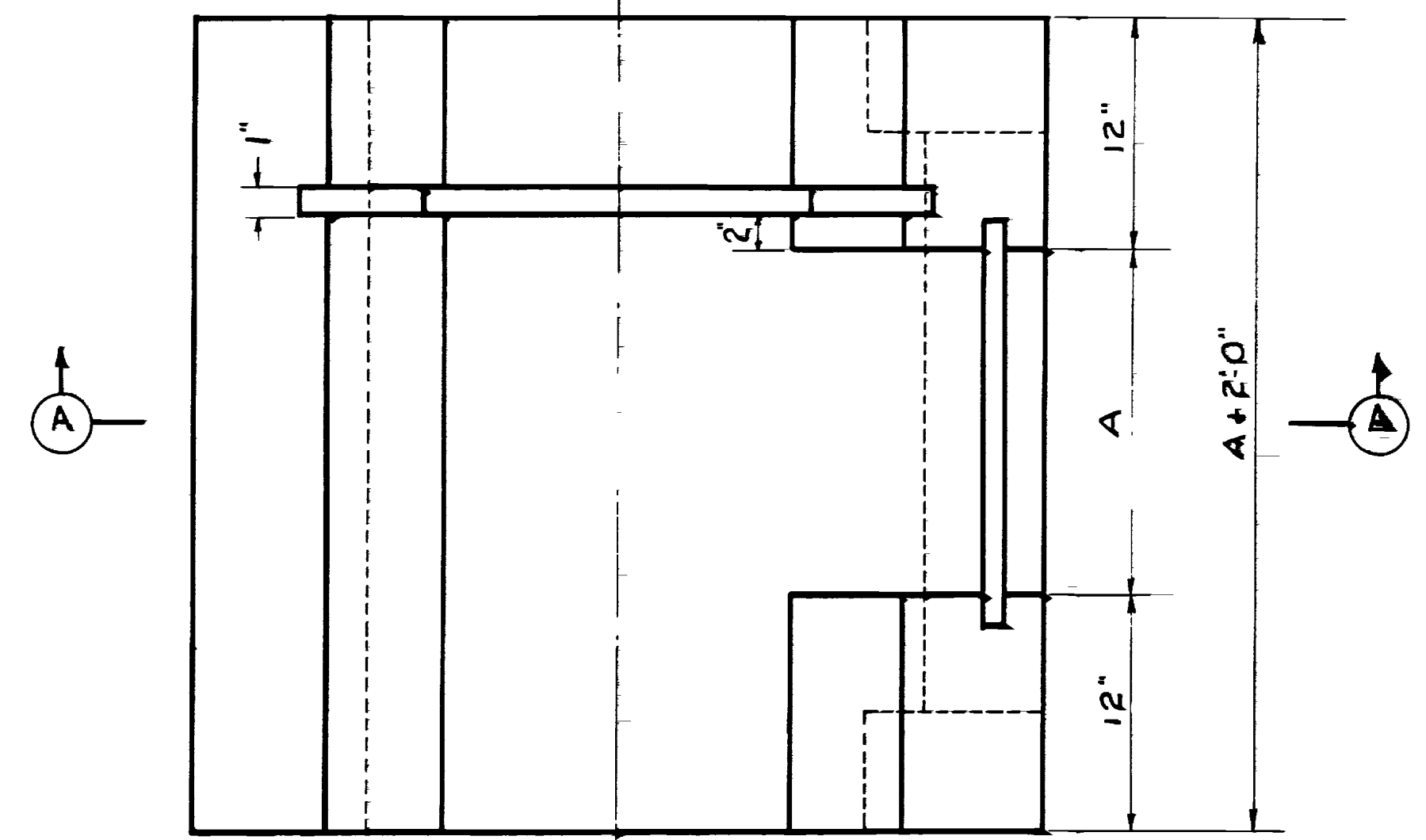


NOTE: Lumber Coat to be included in unit price bid for concrete. No. 2 Douglas Fir or better.

LINE NO.	KIND OF COVER	SIZE	KIND OF PIPE	T	L	W	H	REINFORCING STEEL					TOTAL QUANT.		REMARKS							
								BAR A1	BAR A2	BAR B1	BAR B2	BAR B3	CONCRETE	STRUCTURAL STEEL FOR LBS.								
1	Grating	2 1/2 x 3	CGM.R	6	6-0	3-0	5-6	5-9	14	2-9	18	5-0	12	4-0	2	4-6	2	1.78	342	31		
2	"	"	"	6	6-0	3-0	4-6	5-9	12	2-9	14	4-0	12	4-0	2	3-0	2	1.48	342	67		
3	"	"	"	6	6-0	3-0	6-6	5-9	16	2-9	18	5-0	12	4-0	2	5-0	2	2.04	342	90		
4	"	"	"	6	6-0	3-0	5-6	5-9	14	2-9	16	5-0	12	4-0	2	4-6	2	1.78	342	81		
5	"	"	"	6	6-0	3-0	4-0	4-9	12	2-9	13	3-6	11	4-0	3	2-6	3	1.26	342	35	3'-Lt. 3/8" 266+26 700 55	
6	"	"	"	6	6-0	3-0	4-6	5-9	11	2-9	16	4-0	12	4-0	2	3-0	2	1.41	342	35	" 460+50 700 55	
7	"	"	"	6	6-0	3-0	5-6	5-9	13	2-9	13	5-0	12	4-0	2	4-0	2	1.71	342	35	" 360+50 700 55	
8	"	"	"	6	6-0	3-0	5-0	4-9	13	2-9	13	4-6	12	4-0	2	3-6	2	1.56	342	35	" 360+50 700 55	
9	"	"	"	6	6-0	3-0	4-0	4-9	11	2-9	16	3-6	12	4-0	2	2-6	2	1.26	342	35	" 360+50 700 55	
10	"	"	"	6	6-0	3-0	4-0	4-9	12	2-9	16	3-6	10	4-0	4	2-6	4	1.22	342	35	" 78+55	
11	"	"	"	6	6-0	3-0	4-0	4-9	14	2-4	21	7-3	11	4-0	3	6-3	3	2.92	342	35	" 32+55	
12	"	"	"	6	6-0	3-0	5-0	5-9	16	2-10	20	6-5	10	4-0	4	5-5	4	2.27	342	35	" 36+55	
13	"	"	"	6	6-0	3-0	4-0	5-9	11	2-9	16	3-6	12	4-0	2	2-6	2	1.26	342	35	32'-Lt. 678+88+55 700 55	
14	"	"	"	6	6-0	3-0	4-2	5-9	12	2-9	16	3-8	10	4-0	4	2-8	4	1.28	342	35	32'-Lt. 680+545	
15	"	"	"	6	6-0	3-0	5-6	5-9	15	2-9	18	5-0	10	4-0	4	4-0	4	1.68	342	35	37'-Lt. 763+88 630 55	
16	Plate	18	18	Conc.	6	6-0	3-0	5-1	5-9	15	2-9	16	4-7	10	4-0	4	3-7	4	1.58	342	35	51'-Lt. 816+50 826+54
17	Plate	18	18	CGM.R	6	6-0	3-0	7-10	5-9	14	2-9	16	7-7	11	4-0	3	6-3	3	2.42	342	35	60'-Lt. 247+80
18	Grating	30	24	Conc.	6	6-0	3-0	4-3	5-9	13	2-9	14	3-9	10	4-0	4	2-9	4	1.37	342	35	40'-Lt. 380+40
19	Plate	30	30	CGM.R	6	6-0	3-0	7-7	6-11	17	3-11	22	7-5	14	4-0	2	6-2	2	3.24	342	35	35-47'-Lt. 3230+87
20	Plate	30	30	Conc.	6	6-0	3-0	5-1	5-9	14	2-9	17	5-2	11	4-0	3	4-6	3	1.50	342	35	360+50 V-230
21	"	"	"	6	6-0	3-0	4-0	4-9	18	2-9	18	6-0	12	4-0	2	5-0	2	2.04	342	35		
22	"	"	"	6	6-0	3-0	5-0	5-9	18	2-9	18	6-0	12	4-0	2	5-0	2	2.04	342	35		
23	Grating	10	10	"	6	6-0	3-0	5-9	14	2-9	16	5-4	12	4-0	2	4-8	2	1.38	342	35	47'-Lts. 1400 RAB120-C(4)	
24	"	12	10	"	6	6-0	3-0	5-9	12	2-9	14	4-2	12	4-0	2	3-6	2	1.18	342	35	47'-Lts. 1400 RAB120-C(4)	
25	"	12	12	"	6	6-0	3-0	5-9	14	2-9	16	4-8	12	4-0	2	4-0	2	1.38	342	35	47'-Lts. 1400 RAB120-C(4)	
26	"	12	12	"	6	6-0	3-0	5-9	14	2-9	16	6-0	12	4-0	2	5-6	2	2.31	342	35	47'-Lts. 1400 RAB120-C(4)	
27	"	12	12	"	6	6-0	3-0	5-9	14	2-9	16	6-11	12	4-0	2	6-4	2	2.31	342	35	47'-Lts. 1400 RAB120-C(4)	
28	Timber	8	8	"	6	6-0	3-0	4-6										1.46			6.0 115'-Lts. 41+082 SN-FAB114-A(4)	
29	Timber	10	8	"	6	6-0	3-0	4-6										1.46			6.0 125'-Lts. 55+082 SN-FAB114-A(4)	
30	Timber	15	10	"	6	6-0	3-0	4-6										1.46			6.0 50'-Lts. 78+502 SN-FAB114-A(4)	
31	Timber	18	10	"	6	6-0	3-0	4-6										1.46			6.0 115'-Lts. 36+502 SN-FAB114-A(4)	

DESIGN DATA
A.S.H.O. Specifications of 1935
No Live Load





GENERAL NOTES

Materials & Workmanship shall be in accordance with State Standard Specifications for Road & Bridge Construction, edition of 1939.
 A & B shall be within limits of 3' to 2'-6".
 Cost of wooden headgates shall be included in the unit bid price of the concrete.
 Concrete shall be Class "A".

REVISIONS	DATE	BY

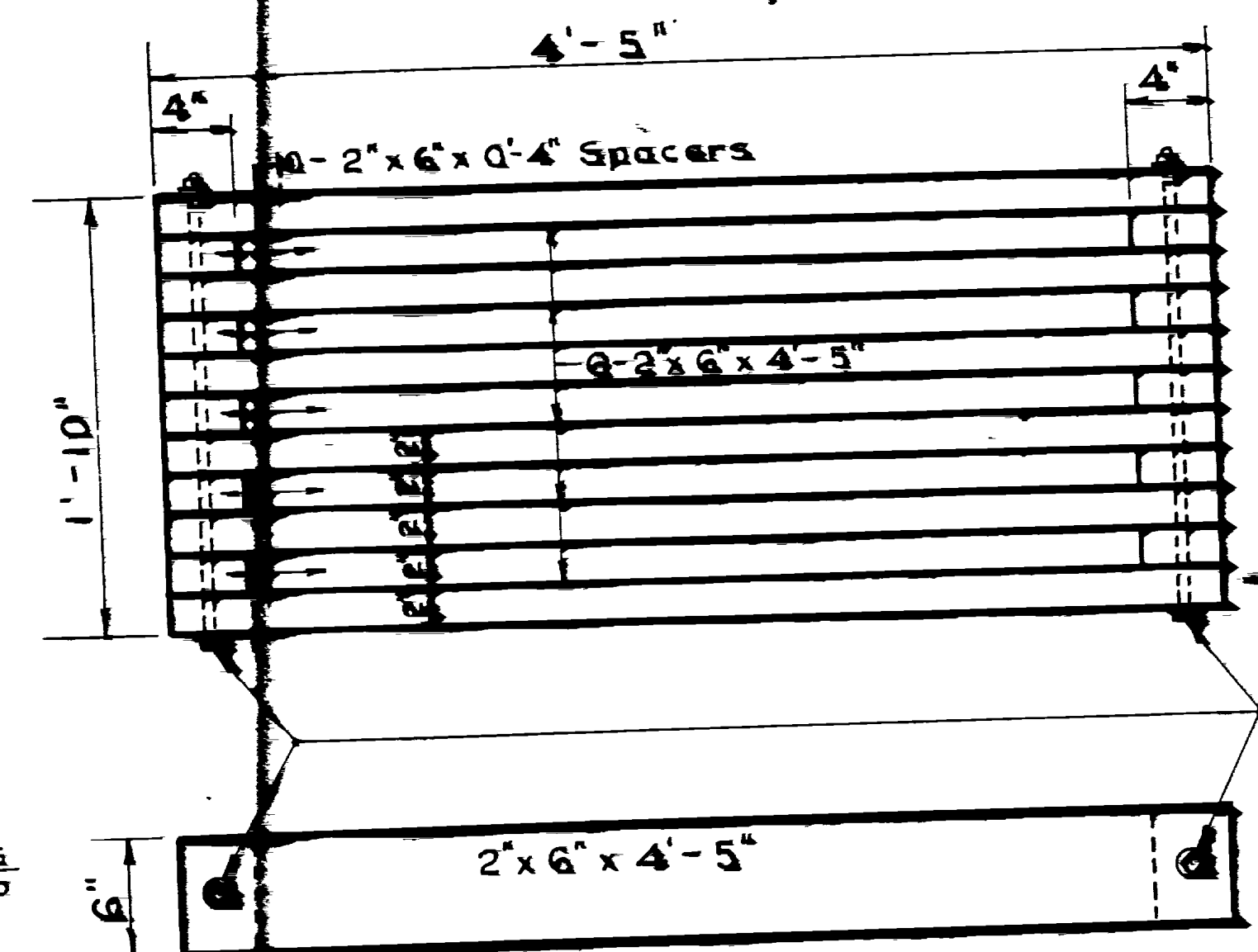
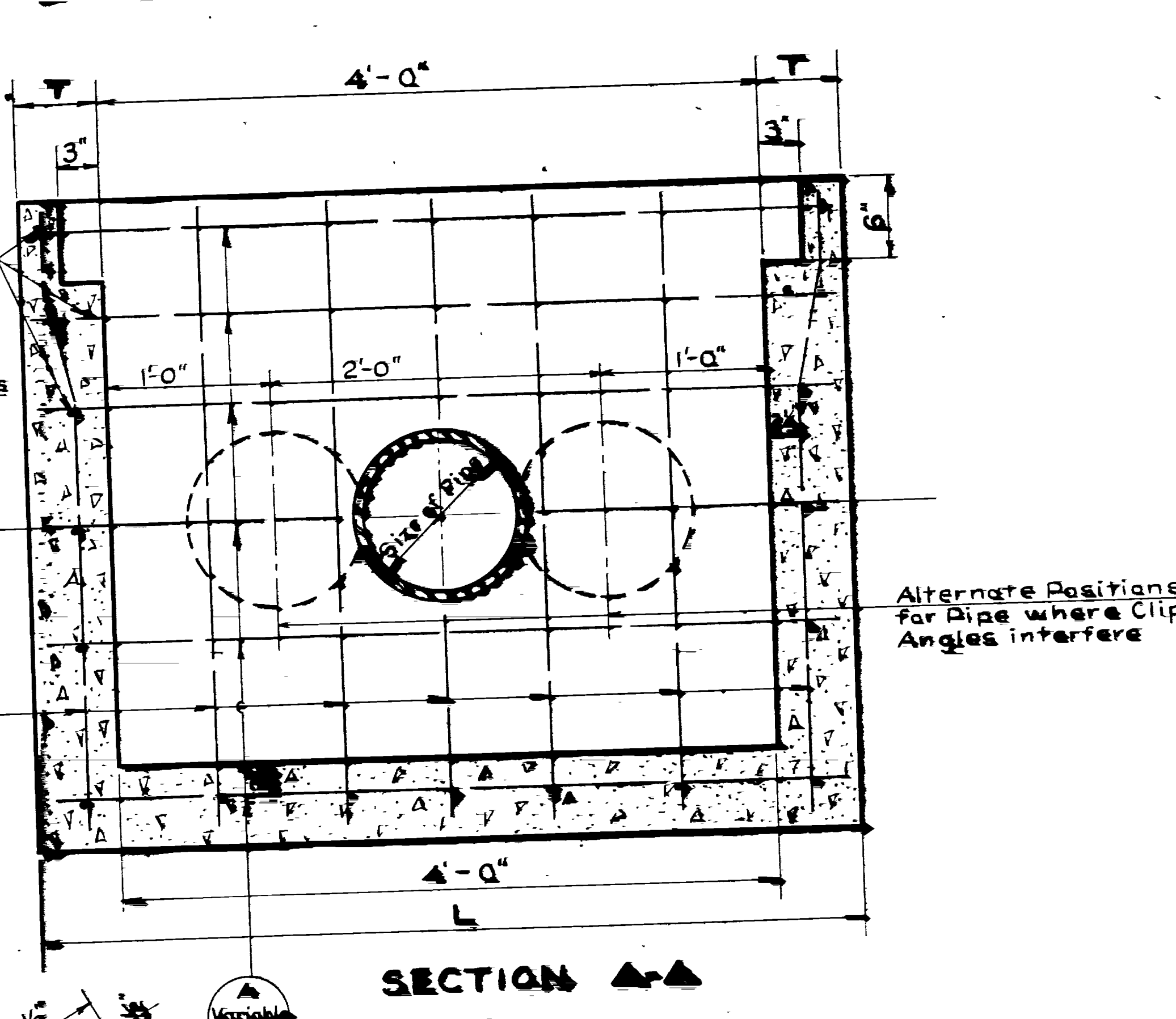
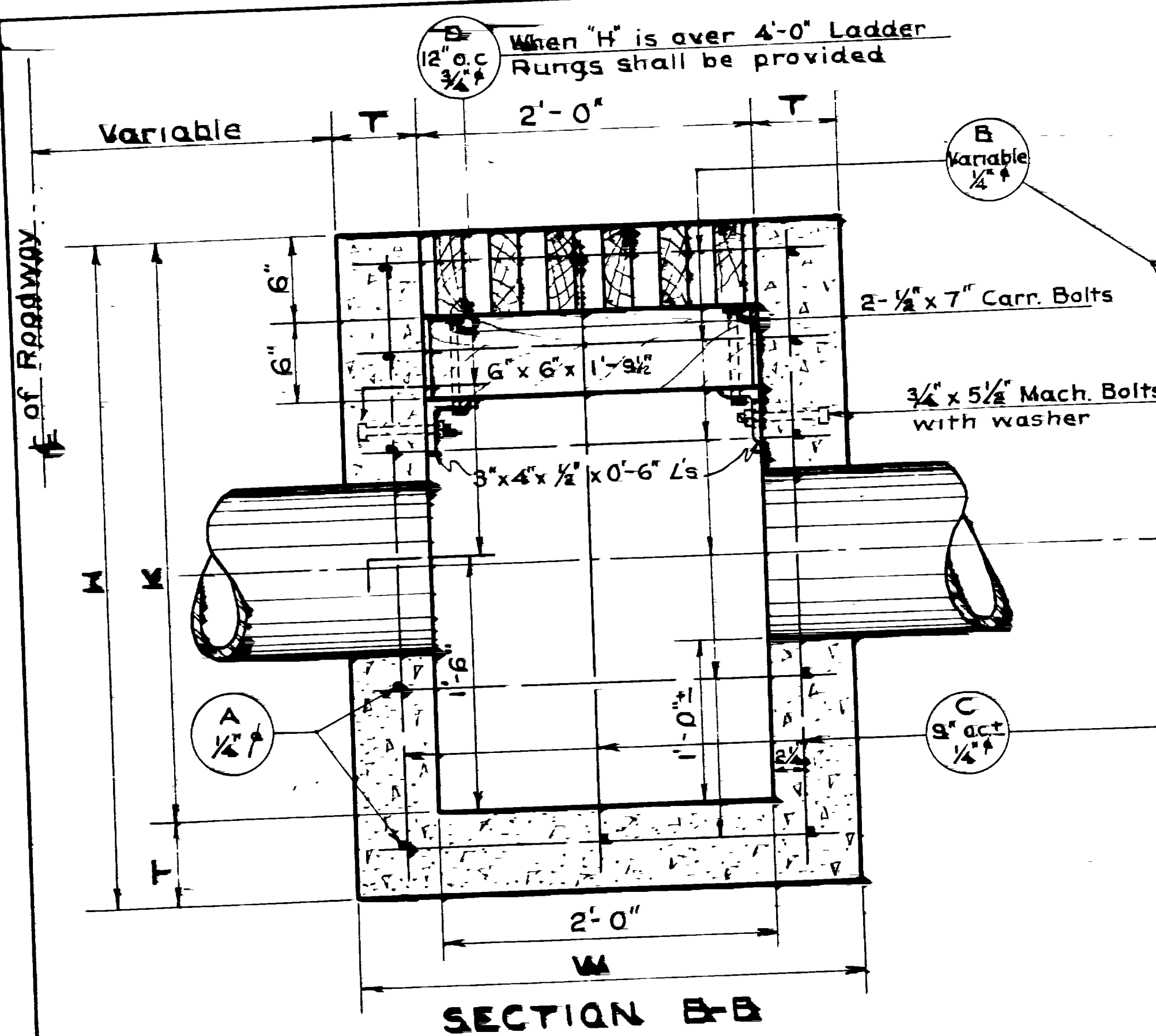
LINE	A	B	C	Conc. Qty.	Excav.
1	12"	12"	3'-1 1/2"	.27 cu yd.	.6 cu yd.
2	12"	15"	3'-4 3/8"	.30 cu yd.	.6 cu yd.
3	18"	18"	4'-1 7/8"	.4 Cu. Yd.	.8 Cu. Yd.
4	27"	18"	5'-10 3/8"	.7 Cu. Yd.	1 Cu. Yd.
5	15"	12"	3'-4 3/8"	.29 Cu. Yd.	.6 Cu. Yd.
6	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
7	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
8	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
9	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
10	24"	24" Deep 20" Long	18" Walls 2" Spacing	.59 Cu. Yd.	1.1
11	24"	24" Deep 28" Long	18" Walls 2" Spacing	1.00 Cu. Yd.	1.1
12	24"	24" Deep 28" Long	18" Walls 2" Spacing	.92 Cu. Yd.	1.1
13	24"	24" Deep 30" Long	18" Walls 2" Spacing	1.00 Cu. Yd.	1.1
14	24"	24" Deep 29" Long	18" Walls 2" Spacing	.92 Cu. Yd.	1.1
15	24"	24" Deep 28" Long	18" Walls 2" Spacing	.92 Cu. Yd.	1.1
16	24"	24" Deep 28" Long	18" Walls 2" Spacing	.92 Cu. Yd.	1.1
17	24"	24" Deep 28" Long	18" Walls 2" Spacing	.92 Cu. Yd.	1.1
18	15"	15" Deep 24" Long	12" Walls 2" Spacing	.55 Cu. Yd.	1.1

LINE	A	B	C	Conc. Qty.	Excav.

LINE	A	B	C	Conc. Qty.	Excav.

LINE	A	B	C	Conc. Qty.	Excav.

LINE	STA.	PROJECT NO.



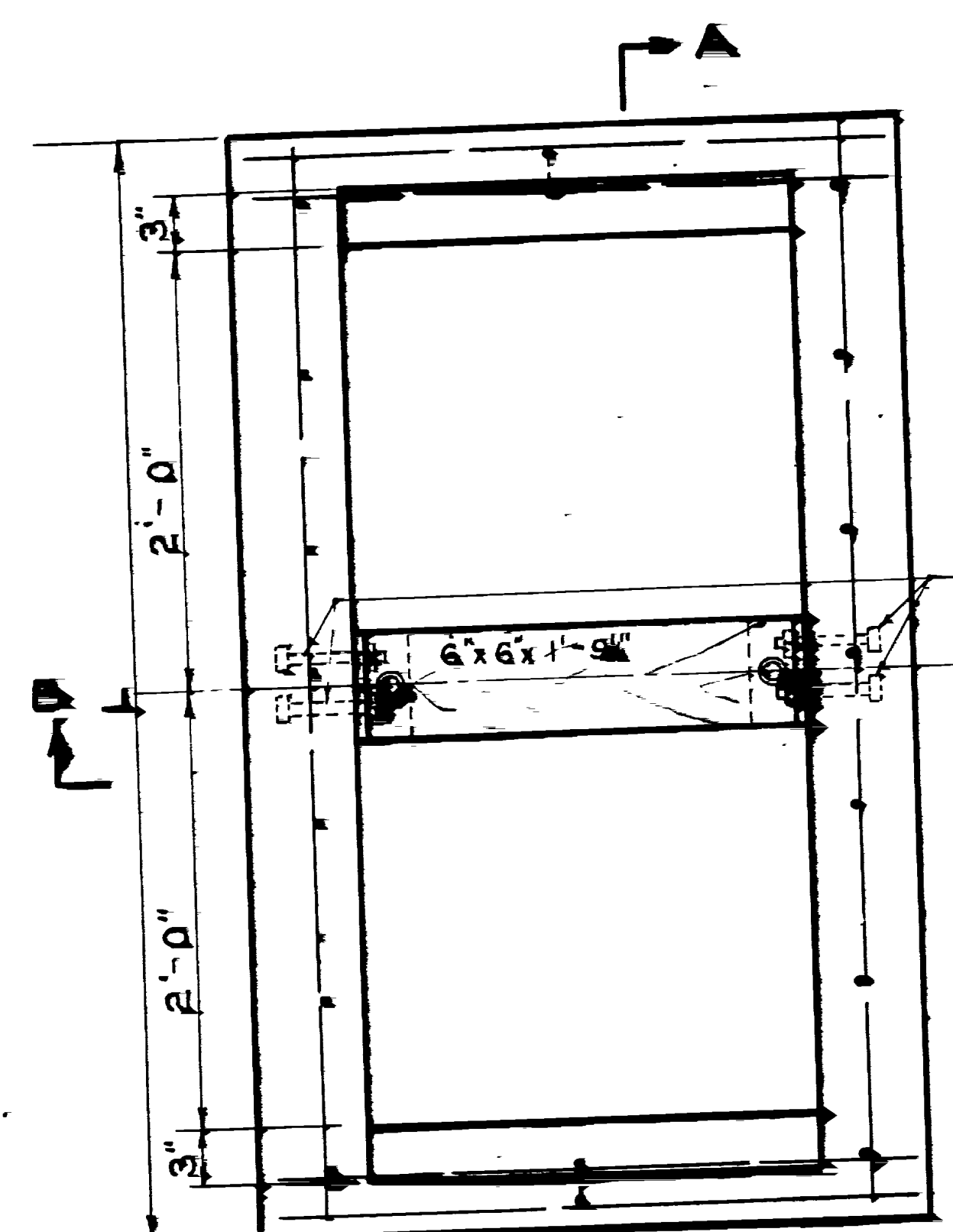
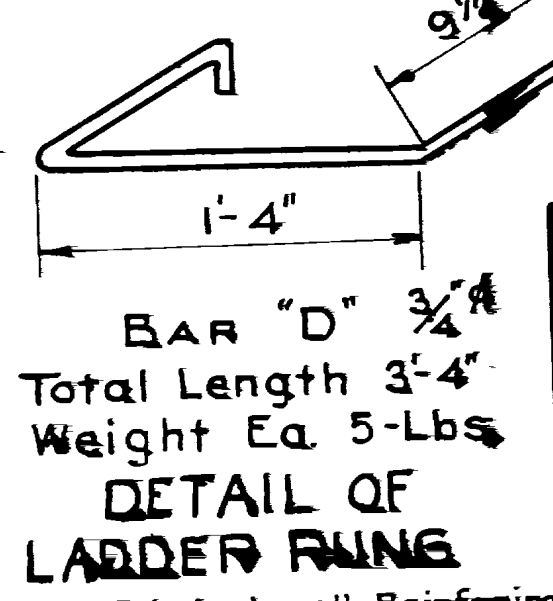
NOTE:
All lumber shall be full size California Redwood structural grade. Payment for Supports to be in accordance with Division 5 Sec. Specifications. Grating & Supports -

DESIGN DATA
Live Load = 15
fc = 1000
n = 10
fs = 1600
fu = 1000
All Heart Pine

Note: Line 1 to be used for the following locations on ANCEI FAP 215 A (1) 0+40 Rpt Lt, 1+40 Lt, 7+00 Rpt Lt, 13+00 Rpt Lt, 19+00 Rpt Lt, 25+00 Rpt Lt, 31+00 Rpt Lt, 36+00 Rpt Lt, 41+00 Rpt Lt, 46+00 Rpt Lt, 52+00 Rpt Lt, 58+00 Lt, 64+00 Lt, and 70+00 Rpt Lt.

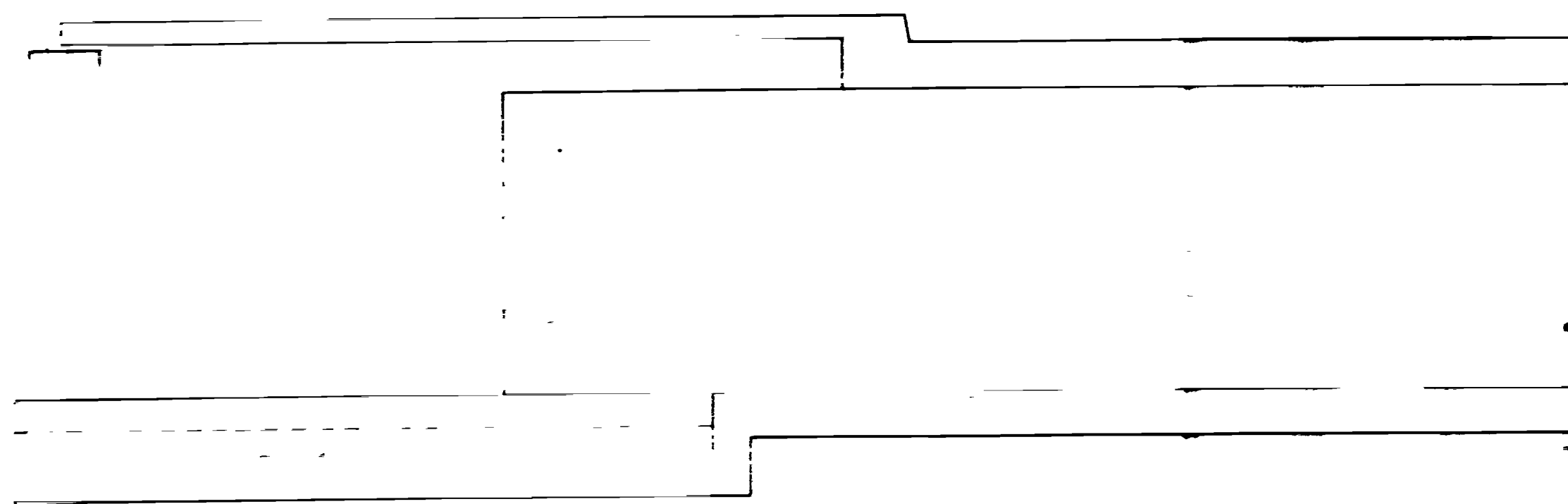
SCHEDULE OF INSTALLATIONS
(See General Notes)

CONTRACT		DETAIL										BRINE STEEL										QUANT		PROJECT																																																																											
NO.	LINE NO.	TYPE	SIZE OF PIPE	MATERIAL	T	L	M	K	H	BAR	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE																																																									
1	B	24"	Conc.	6"	5-0	3-0	6-0	6-0	6-0	6-0	12"	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

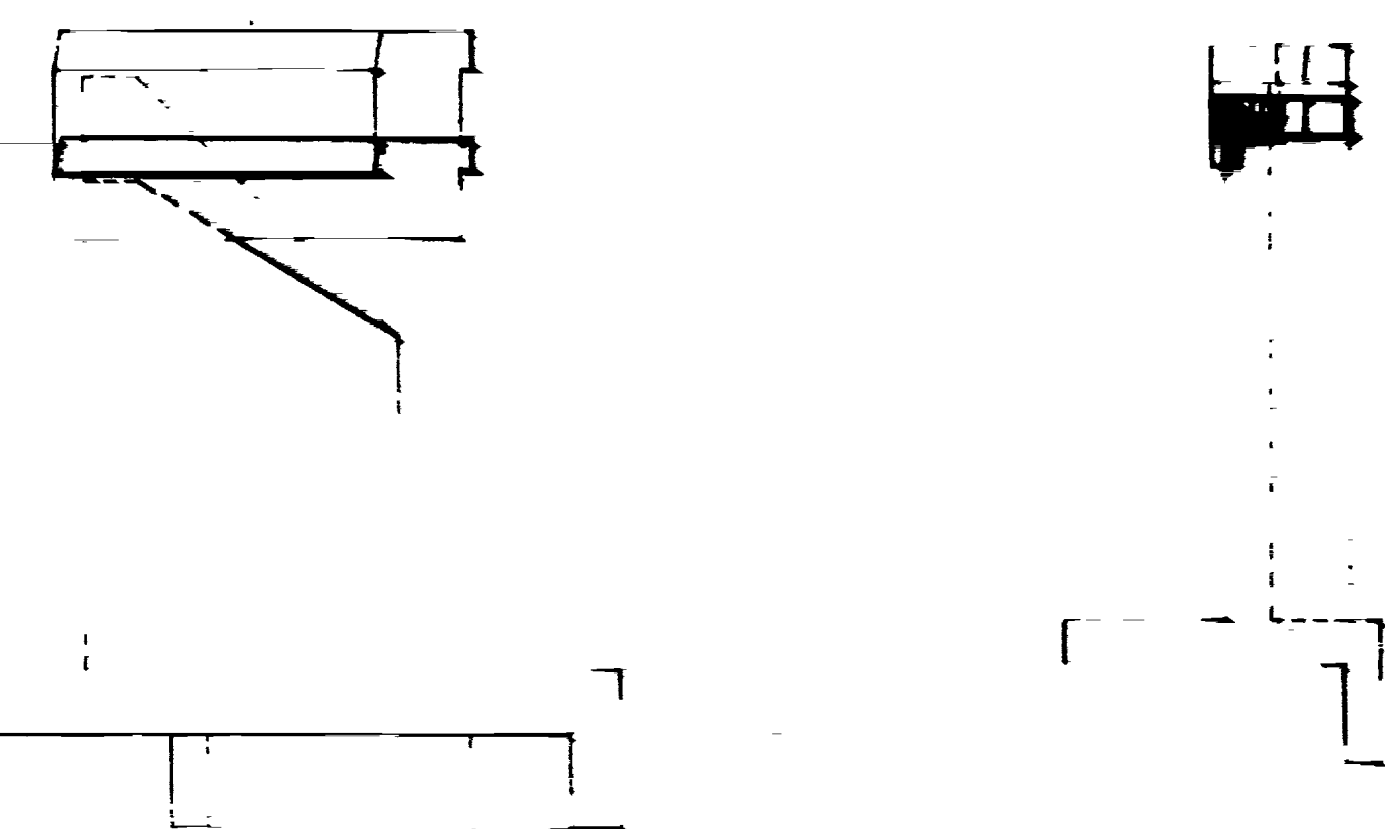


GENERAL
For materials see State Specifications for Road and Bridges 1938 edition. All exposed surfaces of concrete shall be finished and covered with a 1/2 inch minimum. For Type A structures will enter at side of structures, pipe will be installed with a minimum. A unit shall include Basin Grating and complete. Quantities shown are for catch basin only. Some stations are to be determined to requirements shown on way Plans.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
12	UTAH	142 A(4)		



LONGITUDINAL SECTION
1/4"=1'-0"



END ELEV. WING No. 4
1/4"=1'-0"

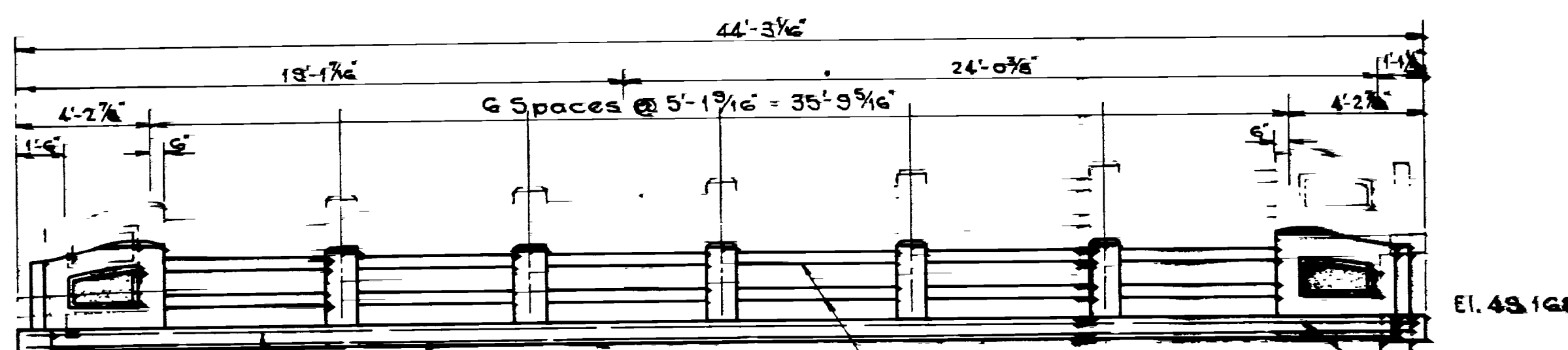
REINFORCING STEEL SCHEDULE						
Mark	Location	Size	No.	Total Length	Sketch	Qty.
W1	Curb Beam	1/2" x 2'-0"	3	52'-0"		
W2	Wall Curb	1/2" x 1'-0"	2	38'-0"		
W3	Curb	1/2" x 2'-0"	2	46'-2"		
X1	Int. H.R. Posts	1/2" x 3'-0"	2a	73'-4"		3'-11"
X2	End "	1/2" x 3'-0"	2a	76'-0"		3'-3"
L1	"	1/2" x 4'-6"	12	52'-0"		
Note: X1 & X2 Bars replace R1 & R2 Bars resp as shown on H.R. Detail - Sh. 2, Drg. No. E-355 46'-2" of 1/2" @ 0.668% = 30.8# 52'-0" of 1/2" @ 3.313% = 279.0# 200'-0" of 1/2" @ 0.85% = 200.0# Total 510.8#						

GENERAL NOTES

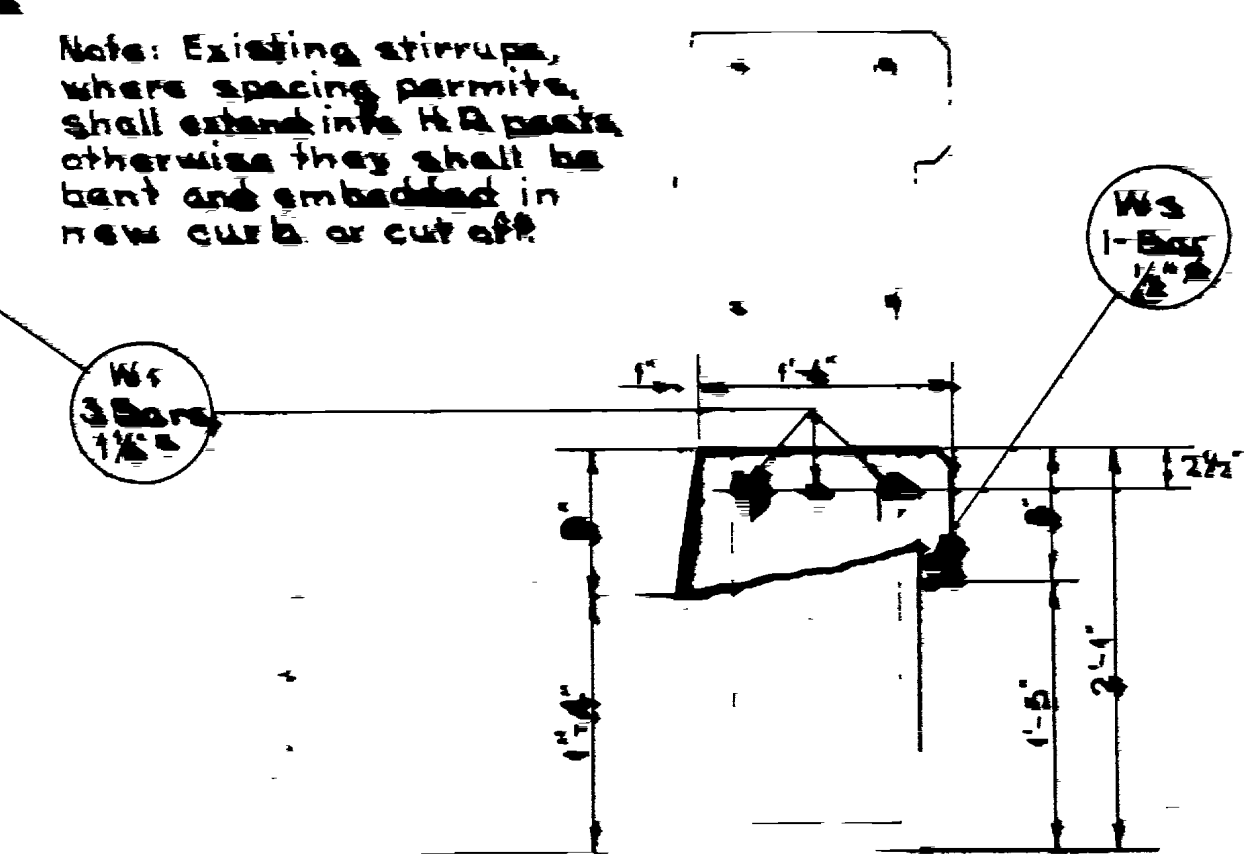
Materials, construction and workmanship shall be in accordance with State Stan. Spec. for Road and Bridge Construction, 1939 edition and Supplements thereto.
 All concrete shall be Class "A".
 Removal of existing Handrail and curbs shall be paid for as Excavation for Structure.

QUANTITIES

Excavation for Structure 58 Cu. Yds.
 Concrete Class "A" 26 Cu. Yds.
 Reinforcing Steel 510.8 Lbs.

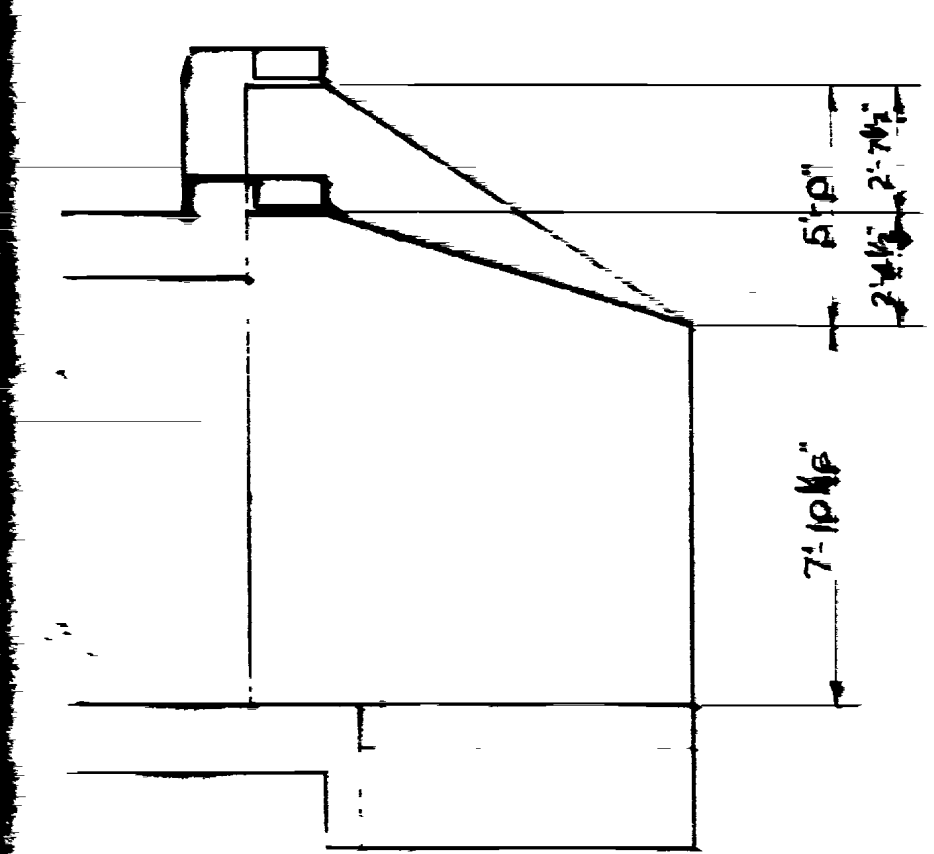


LONGITUDINAL ELEV. UP STREAM END
1/4"=1'-0"



Note: Existing stirrups, where spacing permits, shall extend into H.R. posts otherwise they shall be bent and embedded in new curb or cut off.

See THIS CURB UP STREAM END
1"=1'-0"



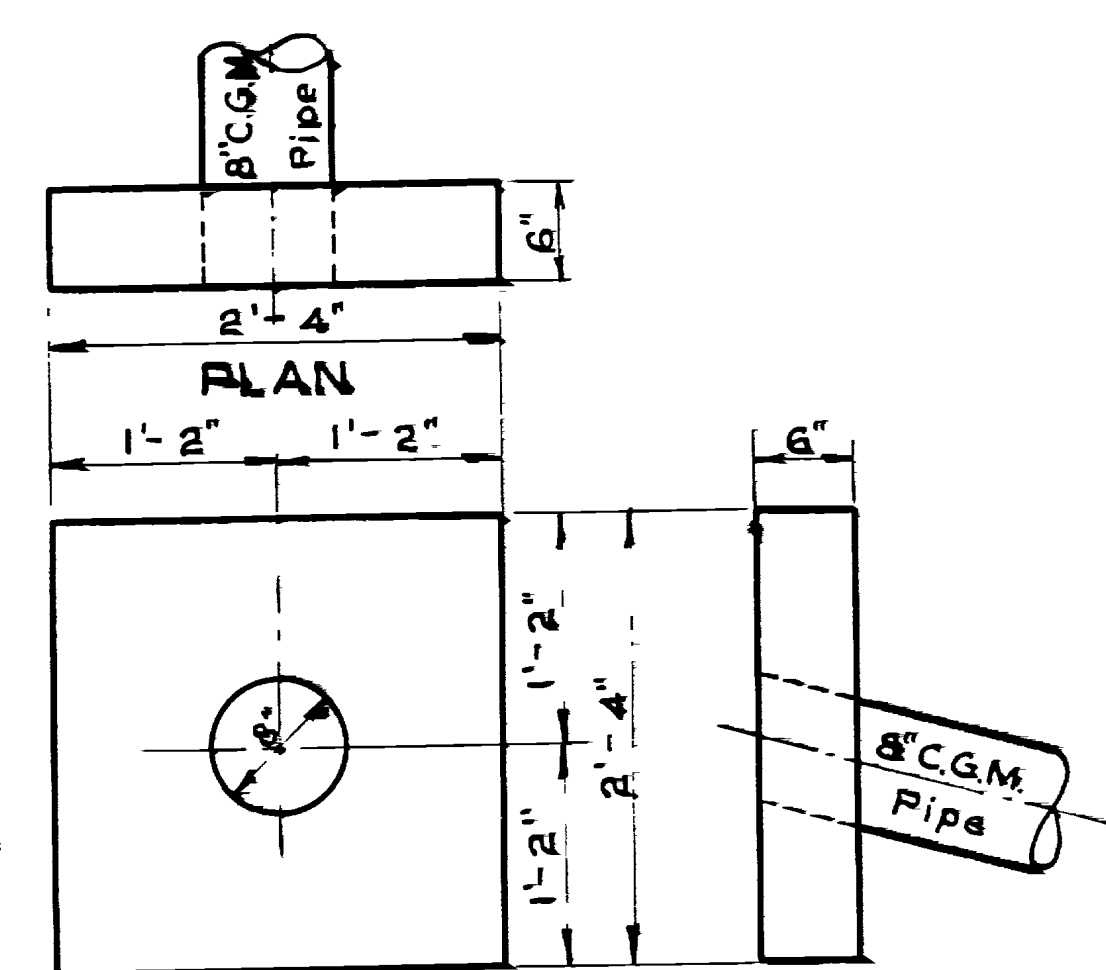
Note: For plans of present structure see Drg. No. E-355

SECTION E-E & FRONT ELEV. WING No. 2
1/4"=1'-0"

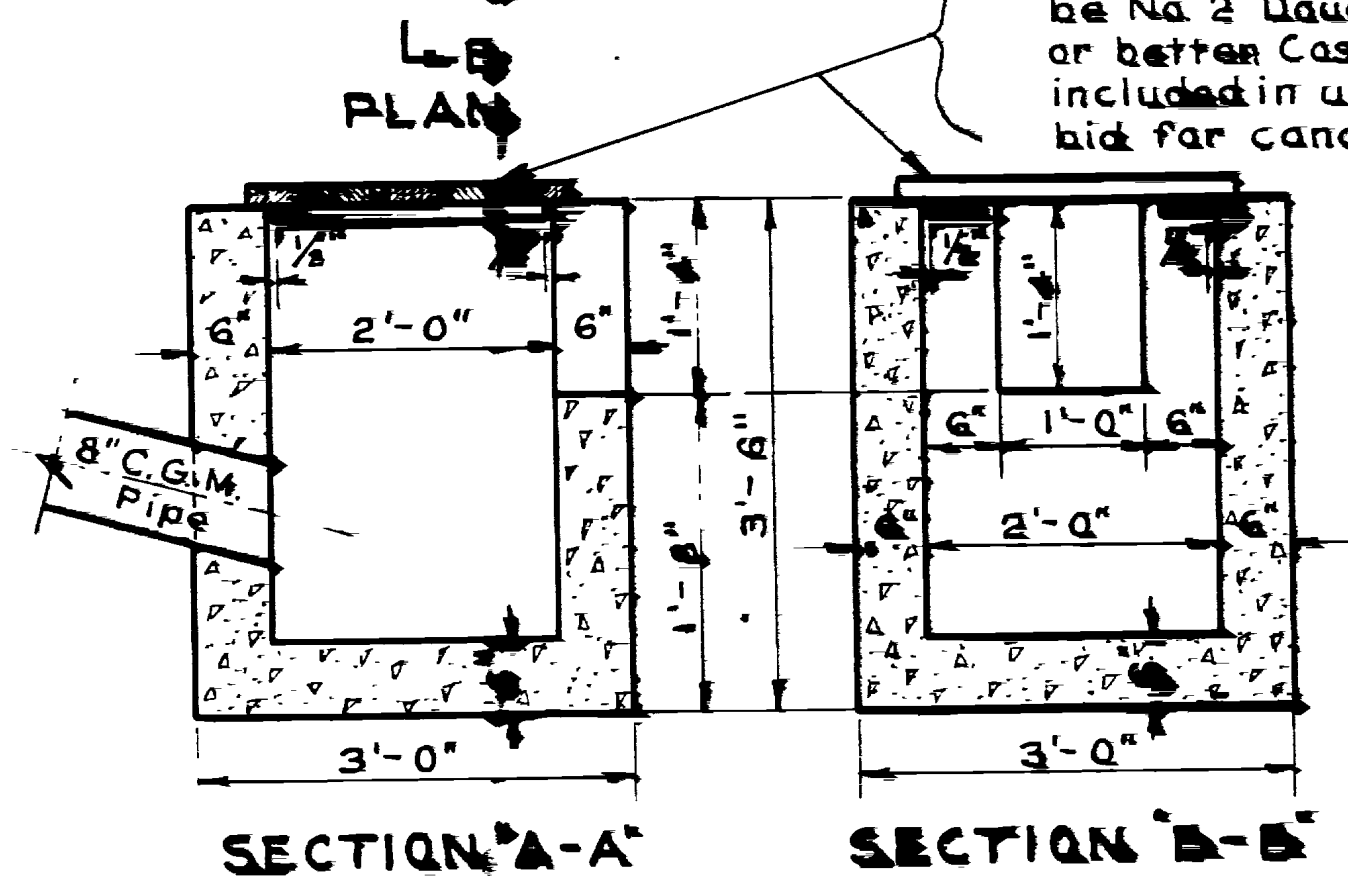
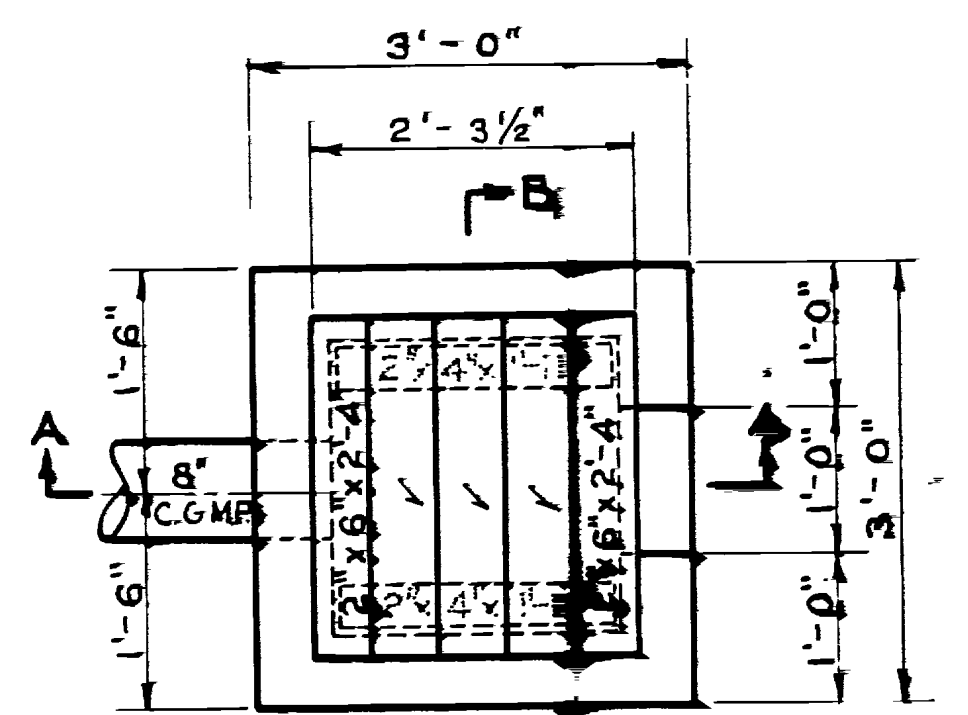
UTAH STATE ROAD COMMISSION	
BRIDGE DEPARTMENT	
CURB & H.R. REVISION	
DESIGNED BY	CHAS. CARL BRIDGES
CHECKED BY	W. J. CARLSON
DATE	7-27-32
PROJECT NO.	142 A(4)
SHEET NO.	4
TOTAL SHEETS	4
SCALE	1/4"=1'-0"
APPROVED BY	
DATE	

NO.	DATE	REVISION

FEED ROAD DIST. TOP	STATE	SCALE	TOTAL	REVISION	TOTAL
12	UTAH	1/4" = 1'-0"			

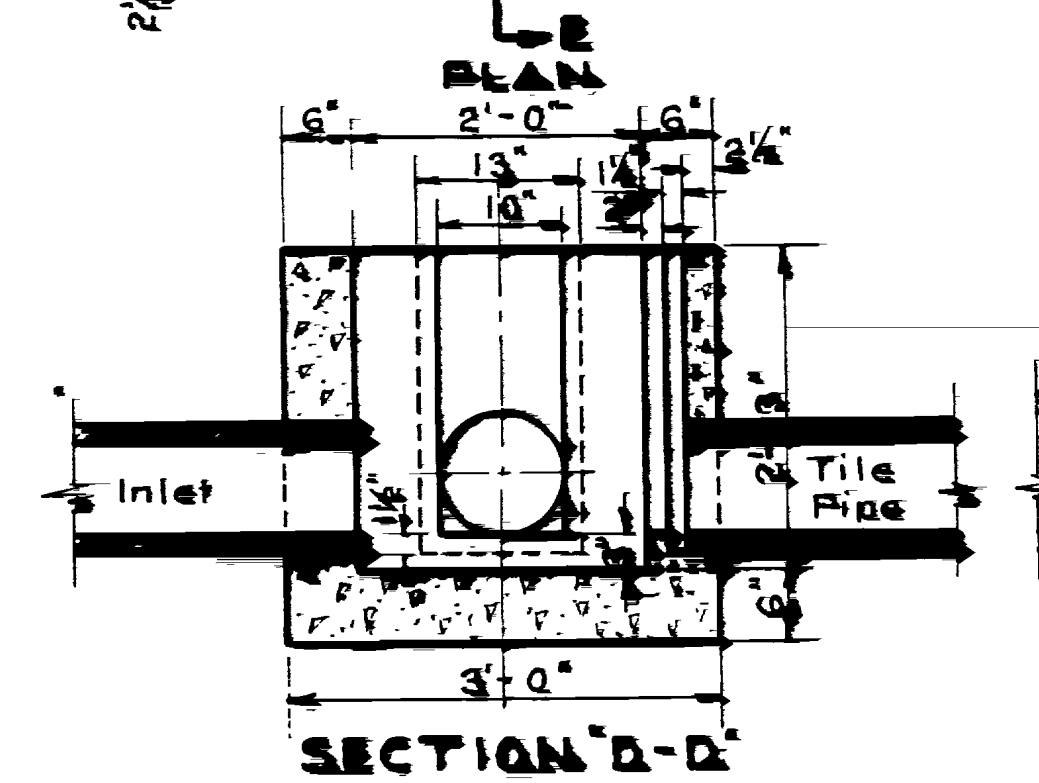
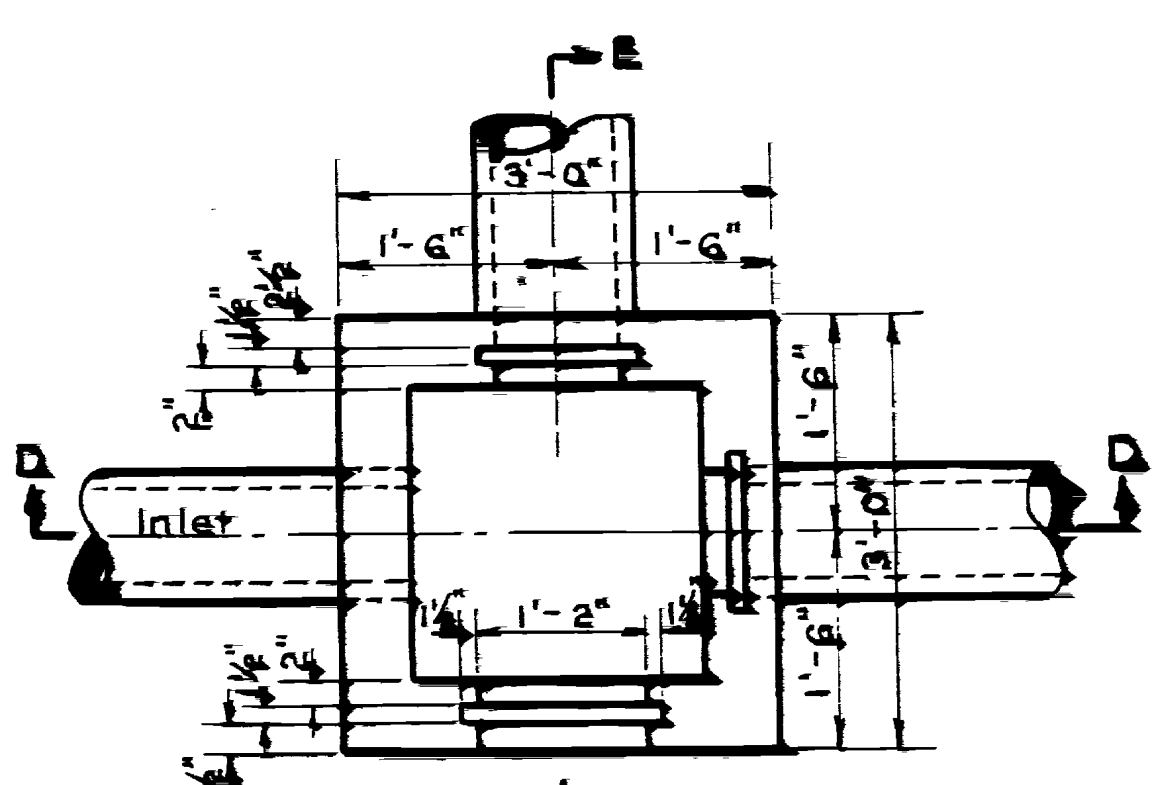


ELEV SIDE ELEV
CONCRETE HEAD WALL
 (2-REQ) STA. 26+50[±] & 31+00[±]
 1" = 1'-0"



NOTE: Wood Covers to be No 2 Douglas Fir or better Cast to be included in unit price bid for concrete.

SECTION A-A SECTION B-B
STILLING BOX
 (3-REQ) STA. 27+50[±], 32+50[±] & 44+75[±]
 3/4" = 1'-0"



NOTE: Lumber for diversion box headgates to be No 2 Douglas Fir or better and cost to be included in unit price bid for concrete.

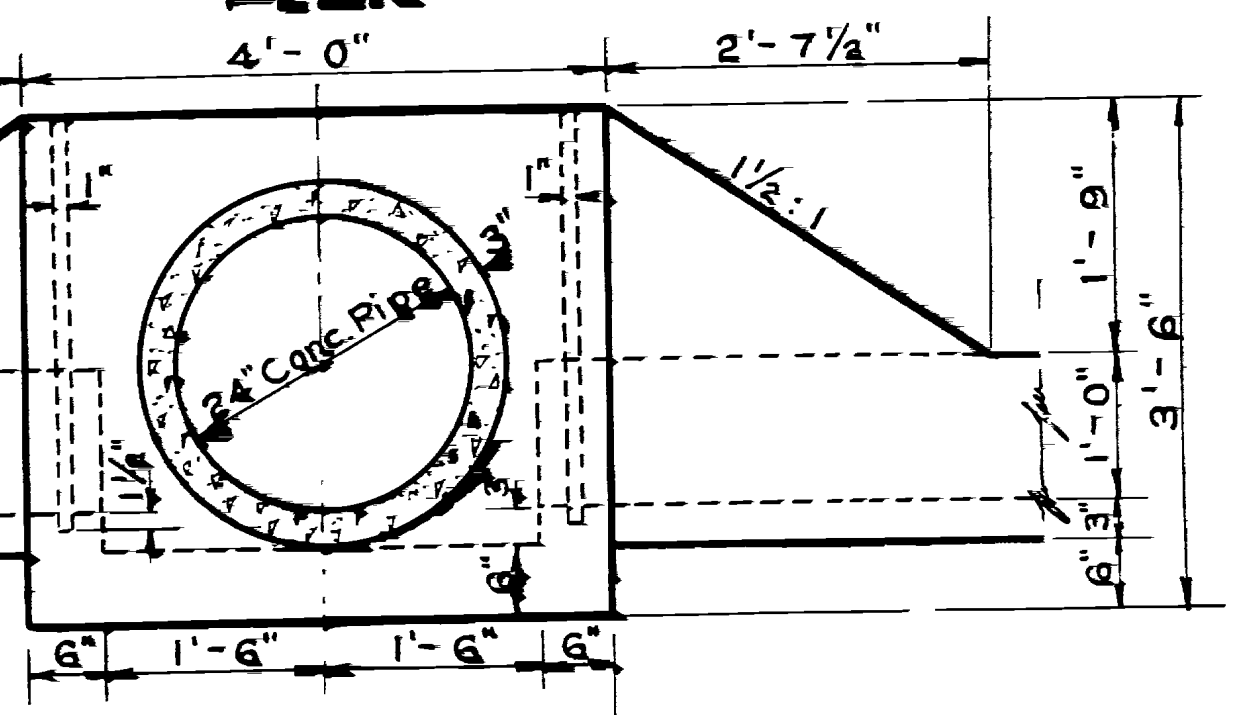
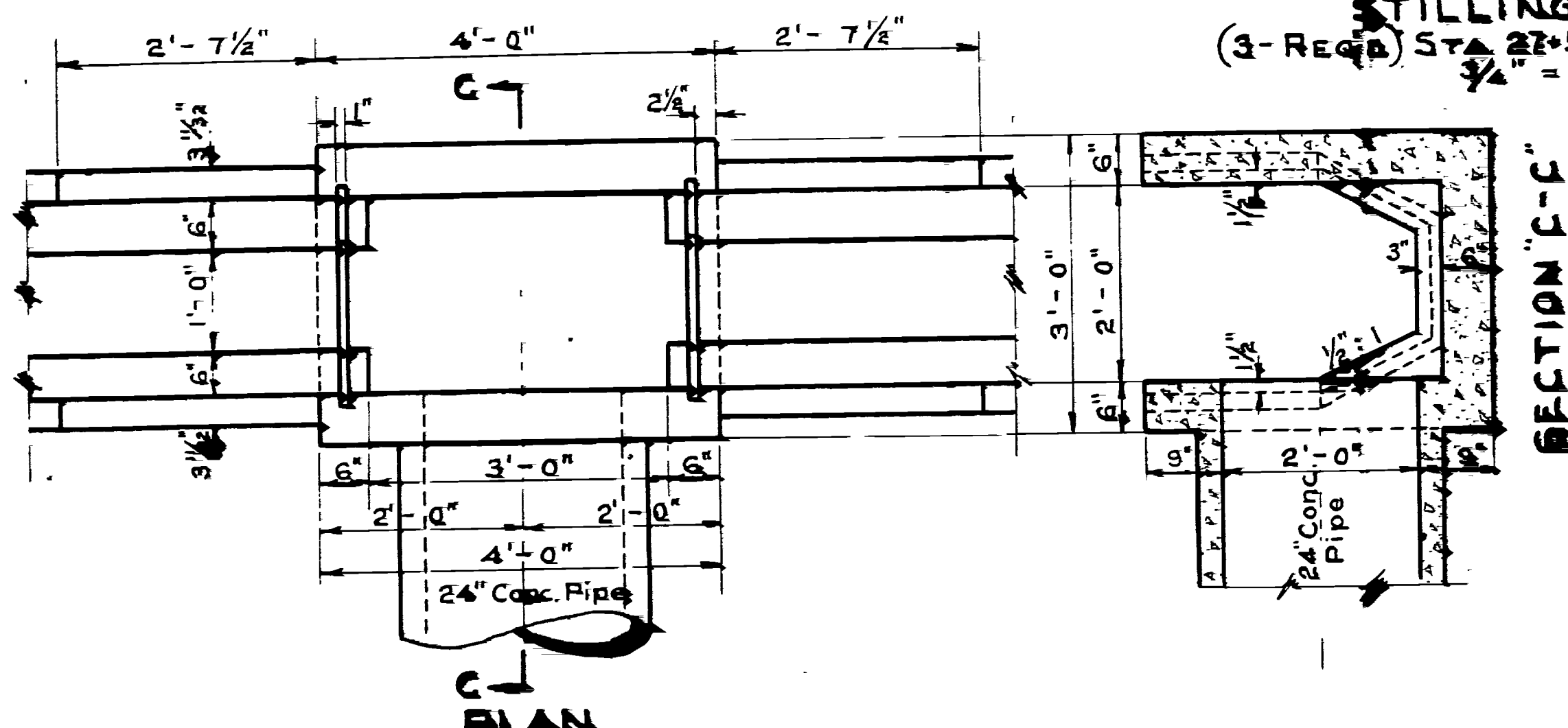
SECTION D-D SECTION E-E
STANDARD DIVERSION BOX
 FOR STA. 40+25[±], 42+00[±] AND 48+50[±]
 3/4" = 1'-0"

NOTE: Size, Type and Location of openings to be established in field by engineer.

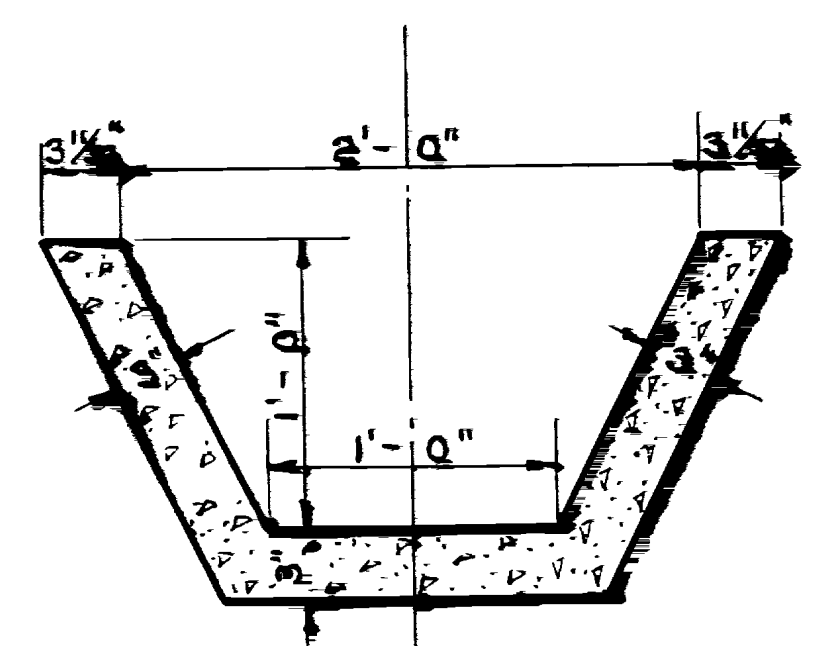
GENERAL NOTES
 Materials, construction and workmanship shall be in accordance with State Standard Specifications for Road and Bridge construction, edition of 1958 and supplements thereto.
 All structures to be class "A" concrete exposed edges to be chamfered 1".

QUANTITIES
 Excavation for Structures 16.1 Cu Yds
 Concrete Class "A" 4.6 Cu Yds

REVISIONS	DATE	BY	REASON



ELEVATION
DIVERSION BOX
 STA. 35+00[±]
 3/4" = 1'-0"



TYPICAL SECTION OF CONC. DITCH
 STA. 32+50[±] TO 48+00[±] & STA. 45+00[±] TO 54+50[±]
 1 1/2" = 1'-0"