

FILL 3599

225-3(2)48 61 84

FILL 1014

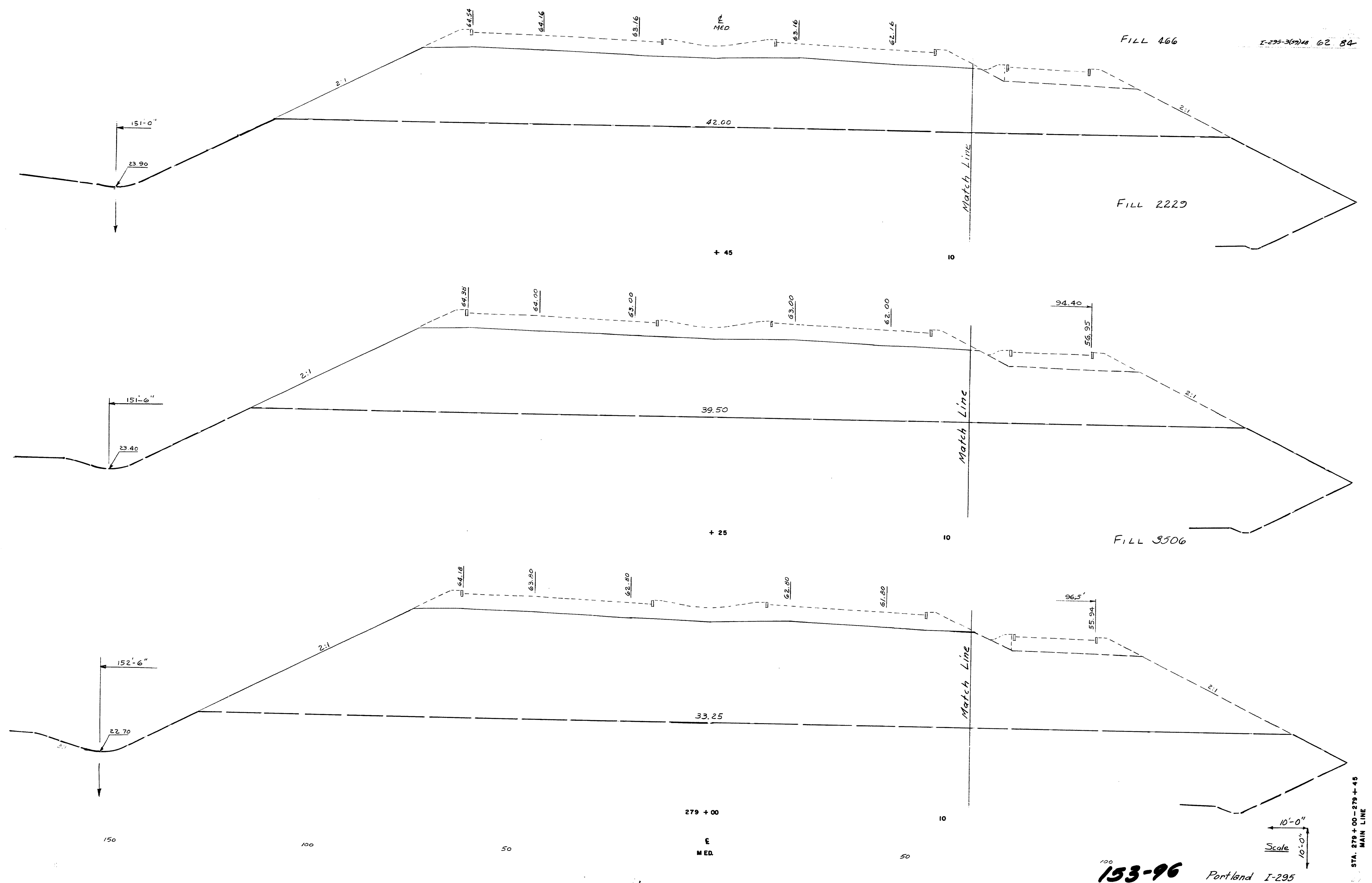
FILL 5715
CUT 19

10'-0"
Scale
10'-0"

153-95 Portland I-295

STA. 278+50 - 278+80
MAIN LINE

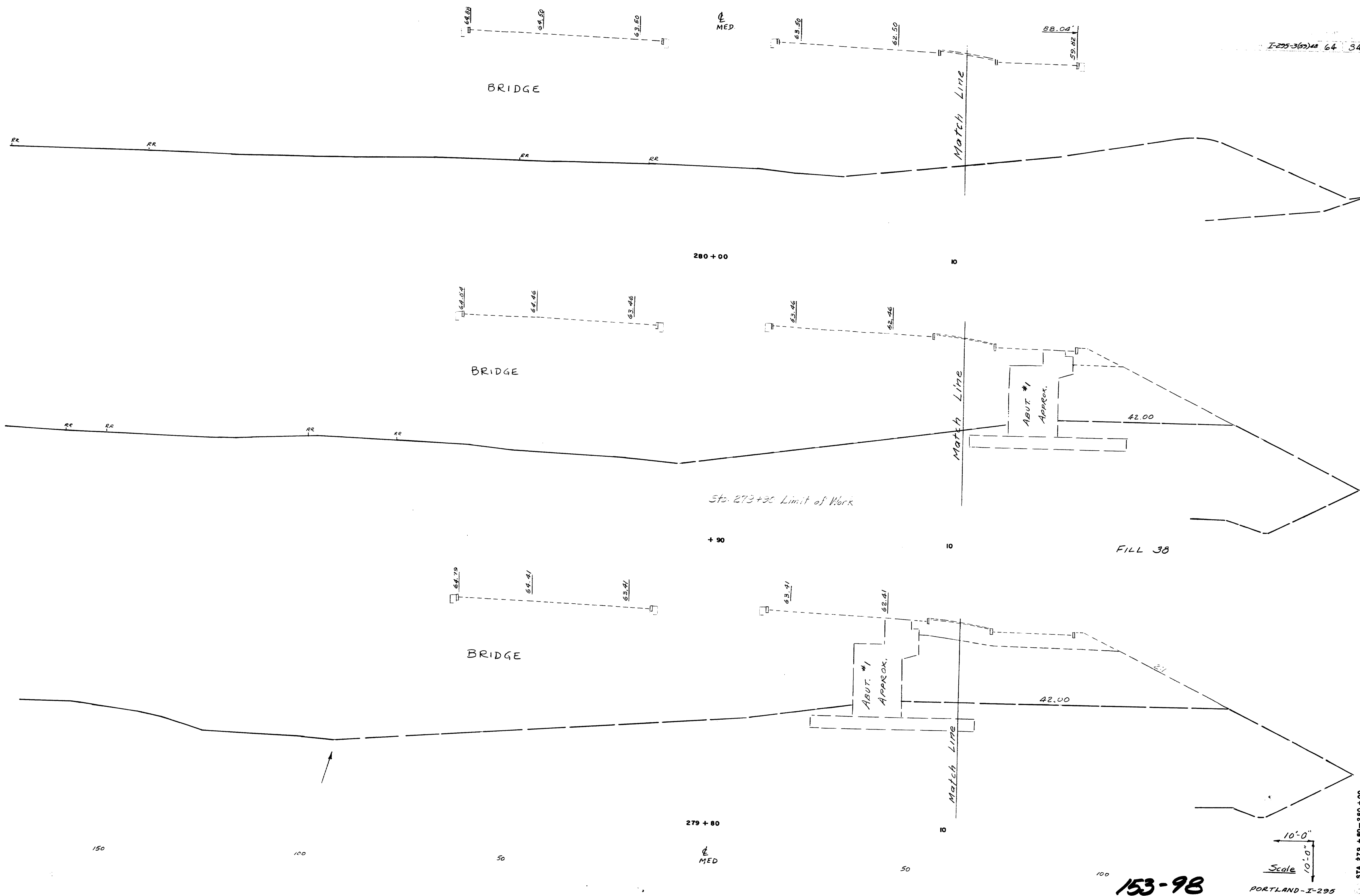
Part of Bridge (Range) for the



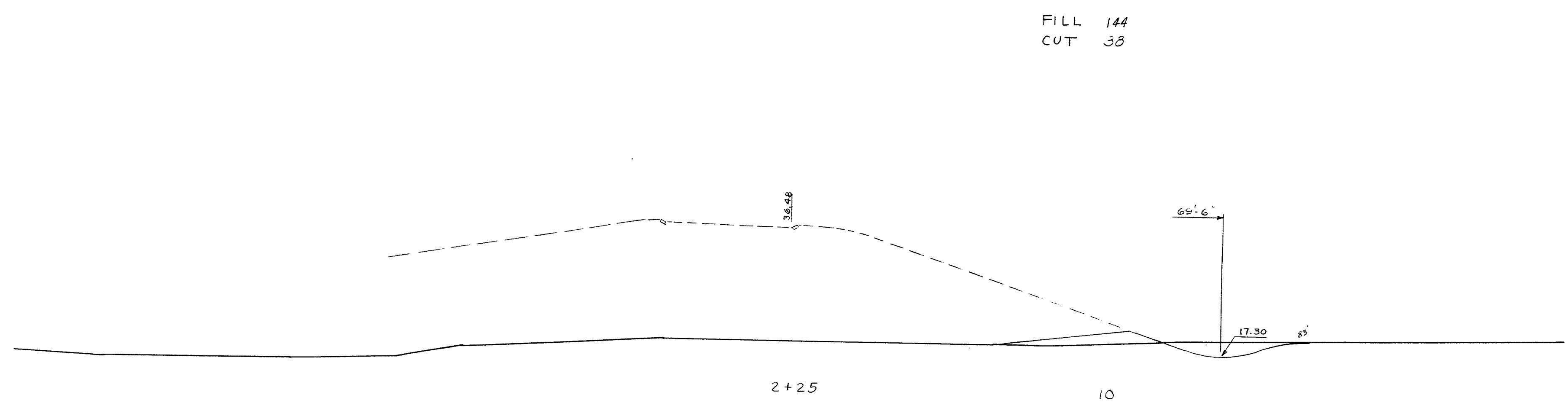
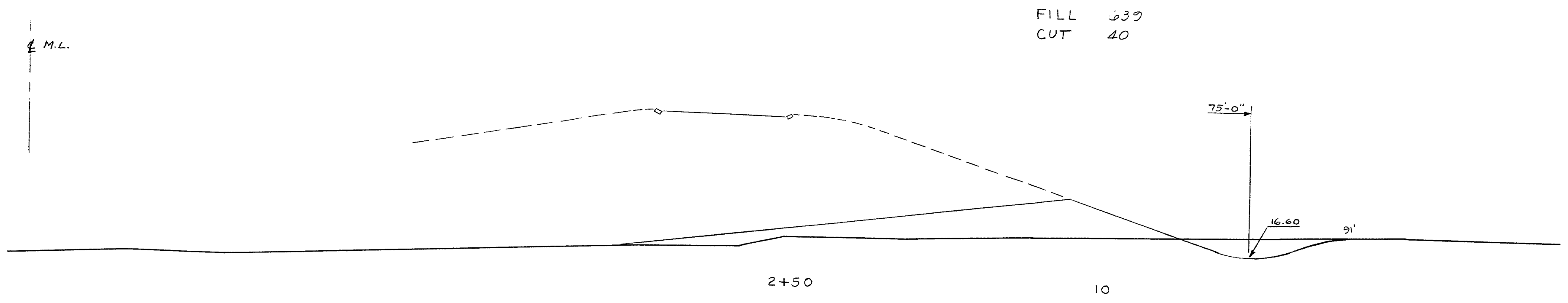
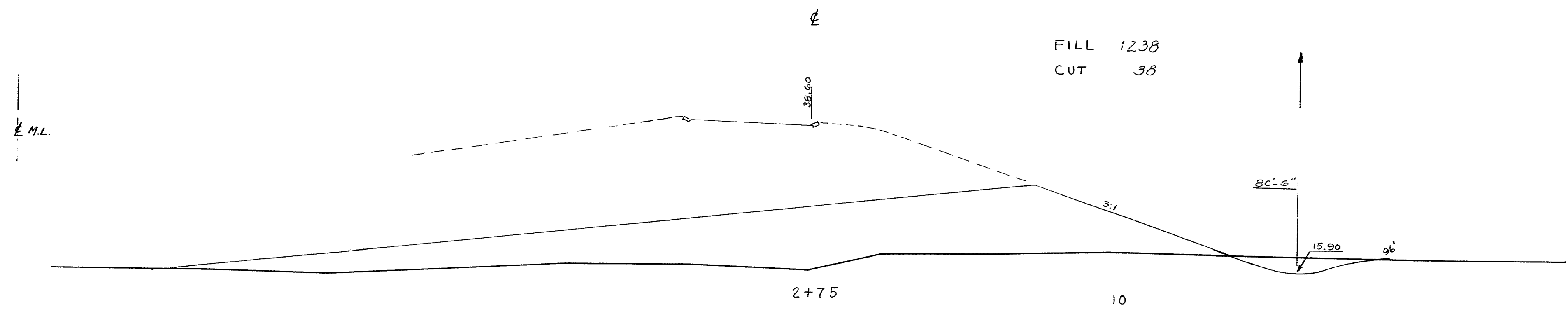
¹⁰⁰
153-96 *Portland I-295*

MAIN LINE

I-295-3(62)48 64 34



I-295-36940 65 84



Sta Sta Limit of Work - 03-7

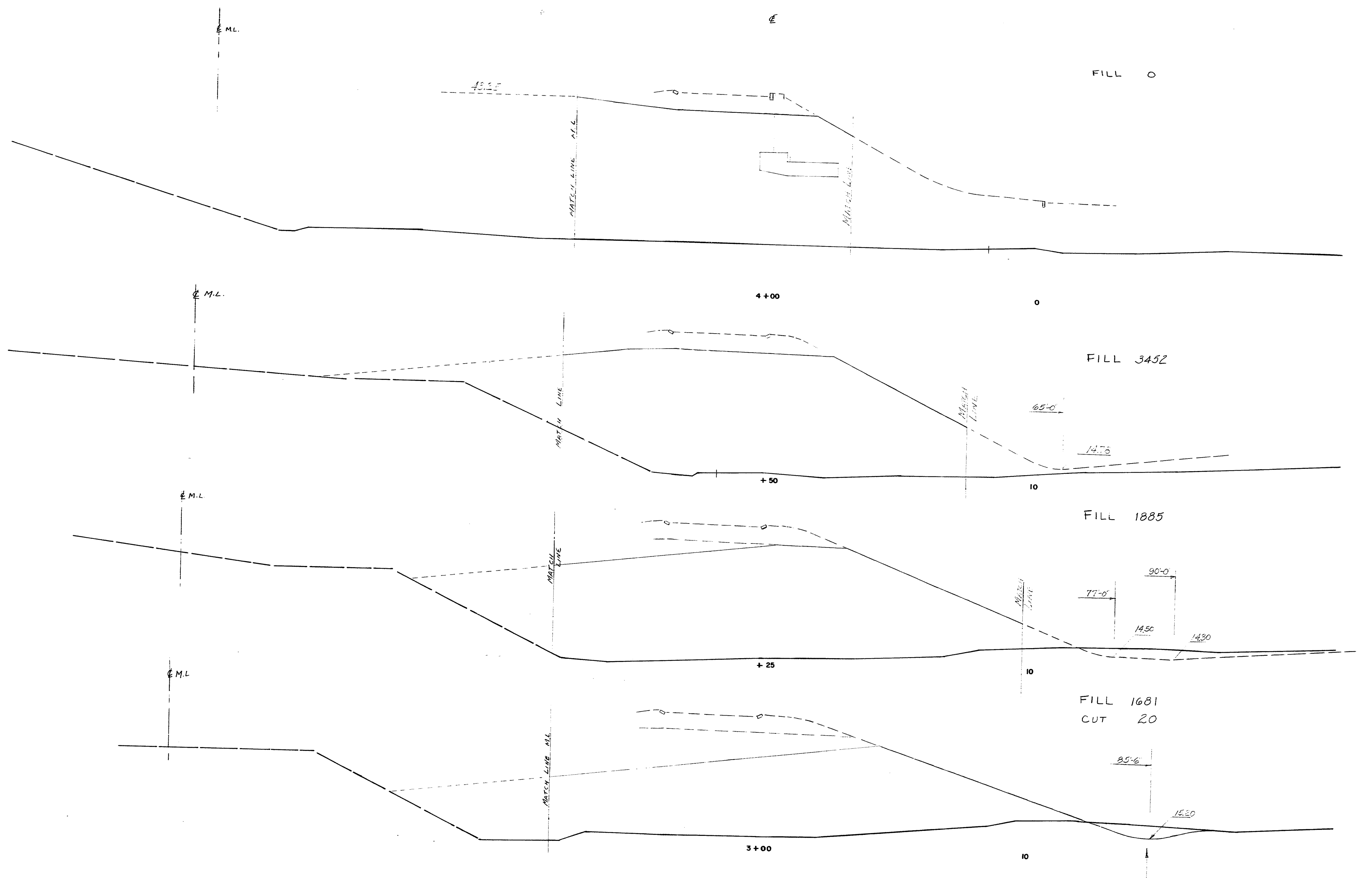
10'-0"
10'-0"
Scale

CS-7 STA 2+25 to 2+75

153-99

PORTLAND-I-295

I-295-387100 66 84



WELLS
SHT. B (FRANCO RES) 988.1/2

25% 1/10

10'-0"
Scale
10'-0"

153-100

PORTLAND - I-295

STA. 3+00 - 4+00
RAMP CS-7

12

FILL 2515
CUT 5

10.00

12.40' 19'

5+50

0

Hand-drawn engineering plan view of a road relocation project. The drawing shows a road alignment with stationing from 5+25 to 5+31. Key features include a 'MATCH LINE' on the left, a 'FENCE' and 'FENCE GATE' crossing the road, a 'MANHOLE RT.' (MH RT.) at station 5+31, and a 'DRAIN TO DITCH' structure. A vertical line on the right indicates a 'RELOCATED ST.' (relocated station). Annotations include 'FILL 2441' and 'CUT 11'. The drawing is a technical sketch with various lines, dimensions, and labels.

10'-0"

Scale

PORTLAND-T-29

CS-7 STA. 5+25 to STA. 5+50

153-101

I-295-36344 68 84

FILL 2543

FILL 4315

FILL 2594

10'-0"
Scale
10'-0"

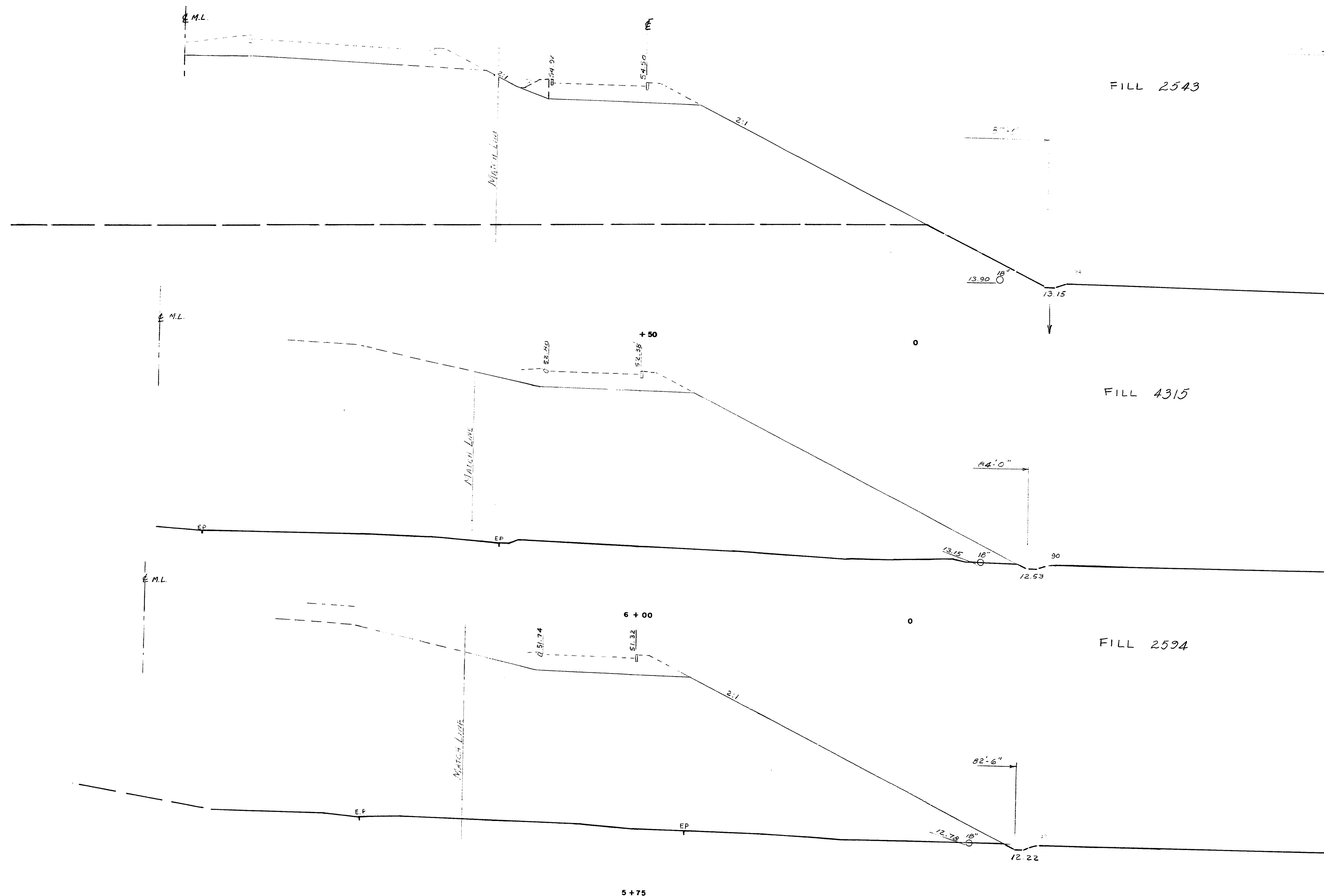
153-102

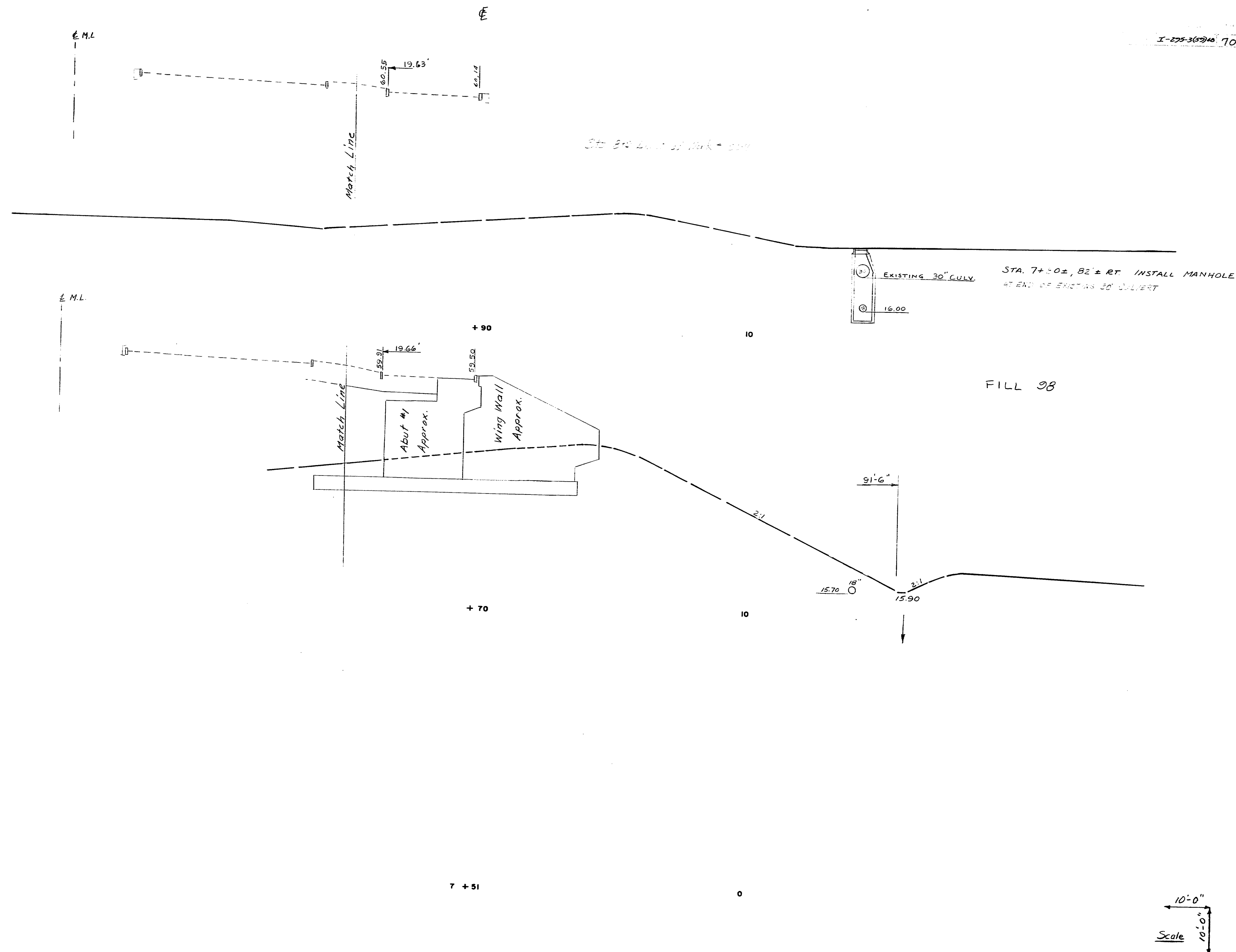
PORTLAND - I-295

STA. 5+75 - 6+50
RAMP CS-7

WELLS
SMB (TRACED RES) 4-69
4-13/12

205/440

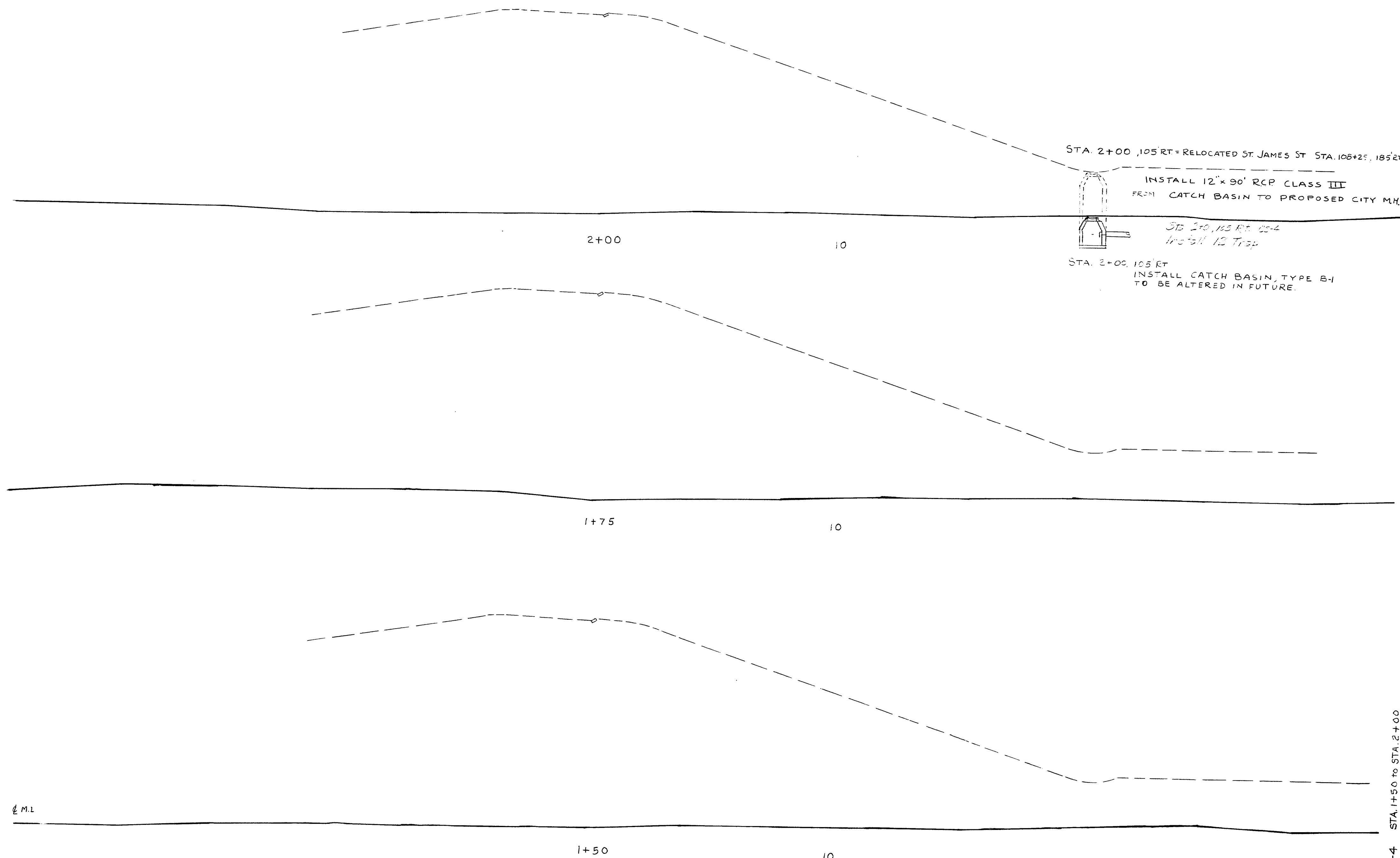




WELLS
SUB (FACED RES) 1/100
10/1/60

153-103B PORTLAND-I-295

STA. 7+51-7+90
RAMP CS-7

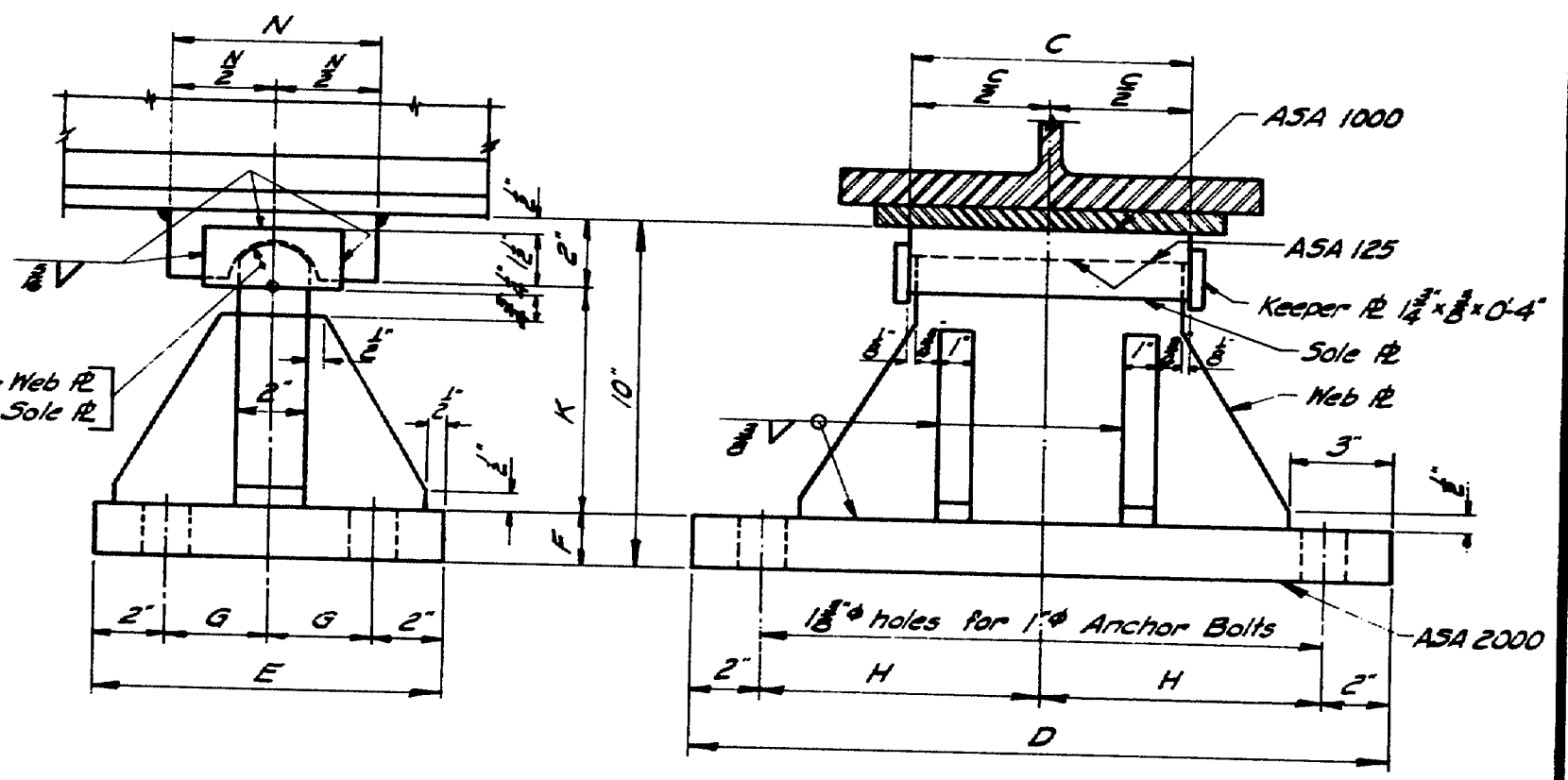
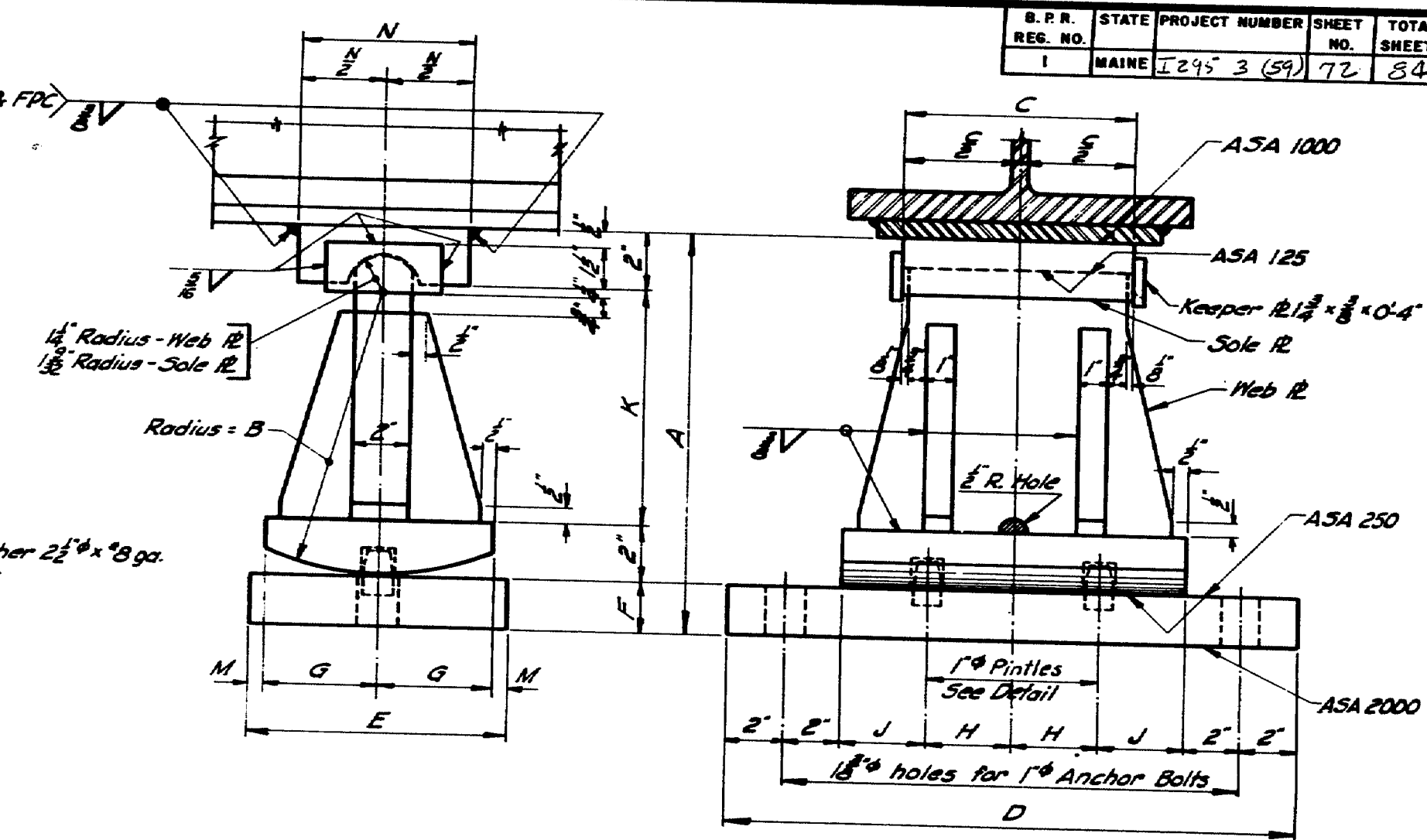
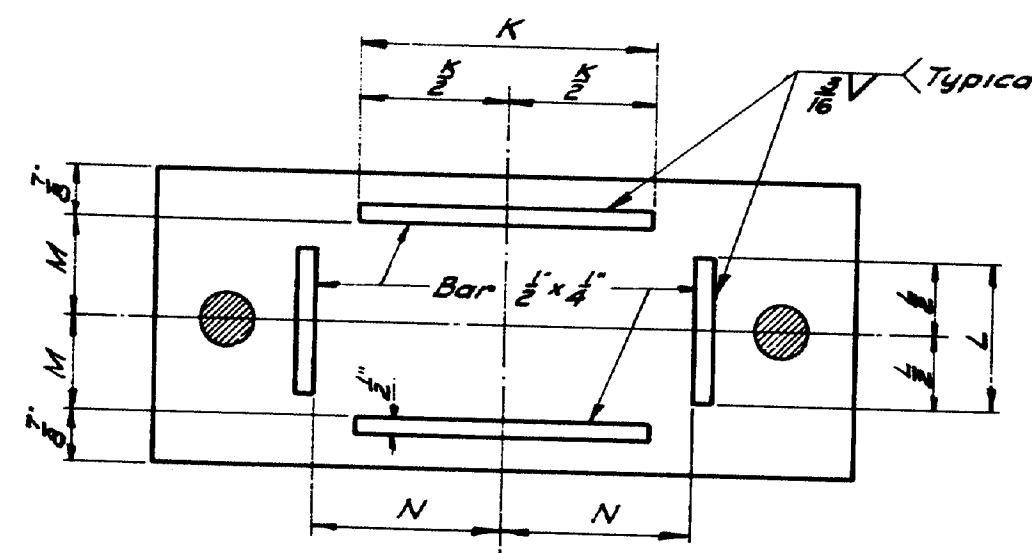
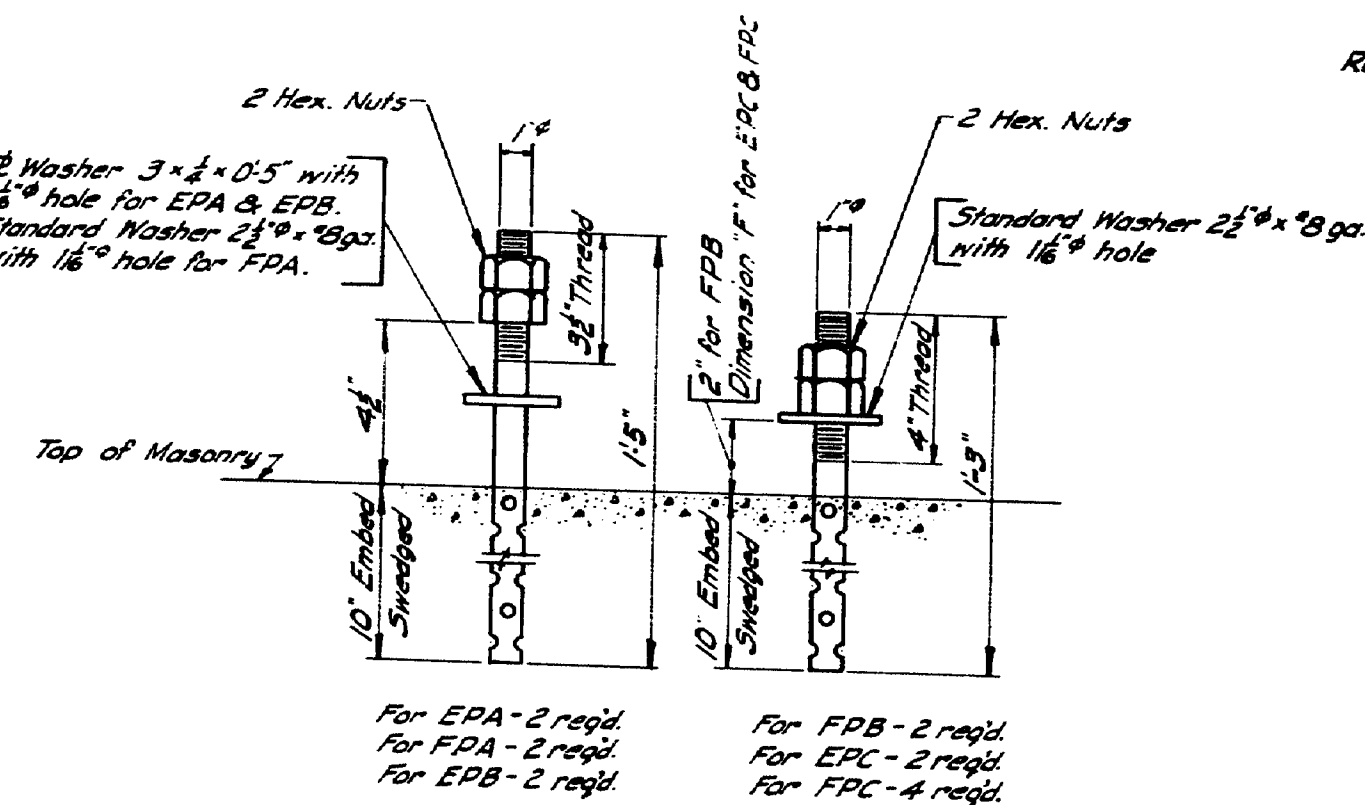
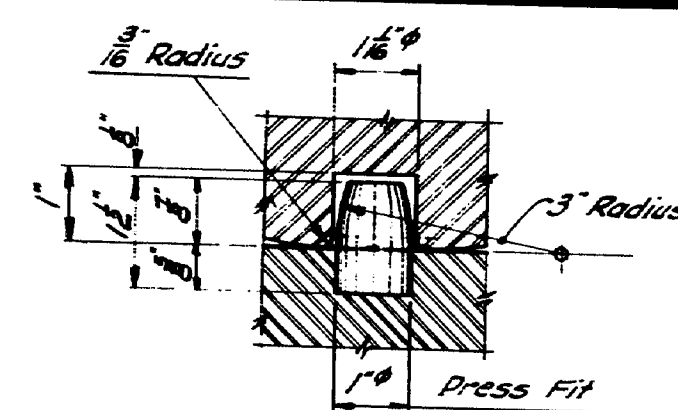
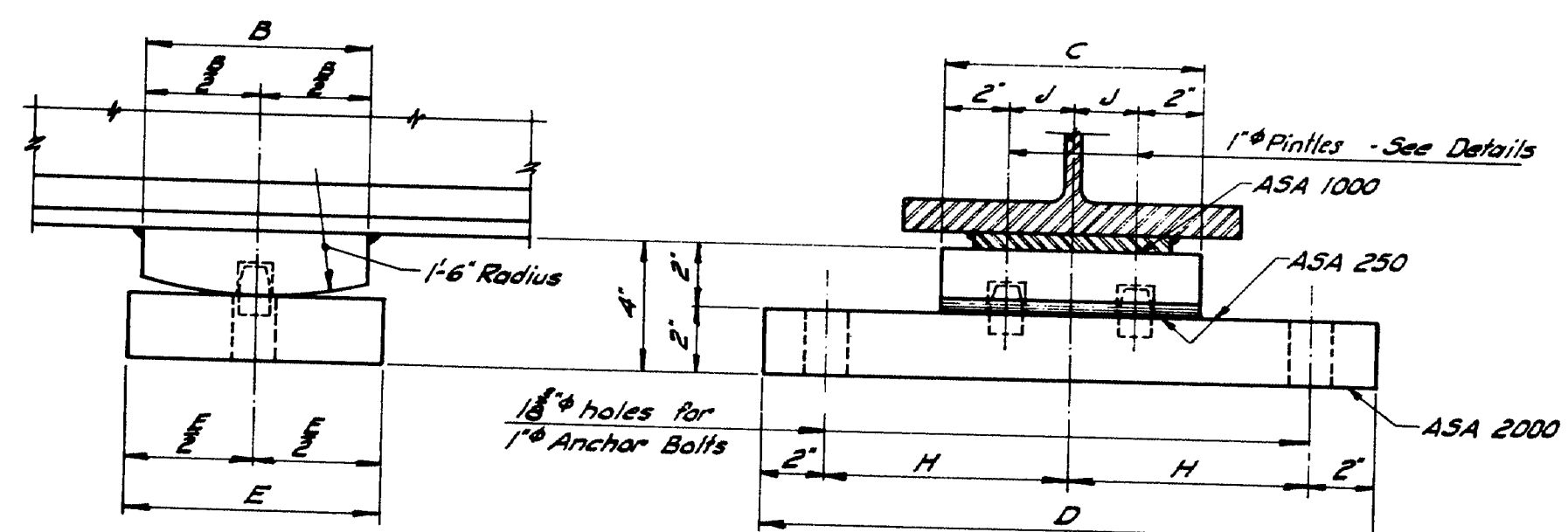
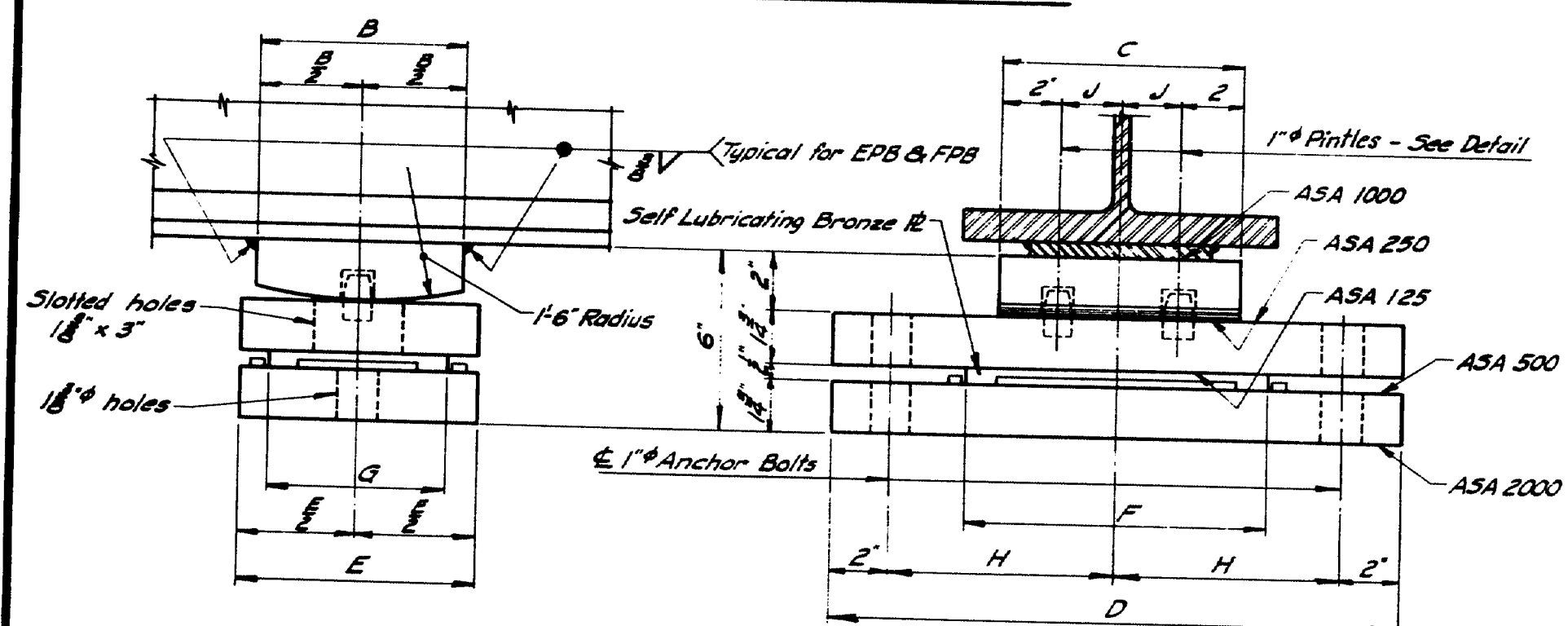
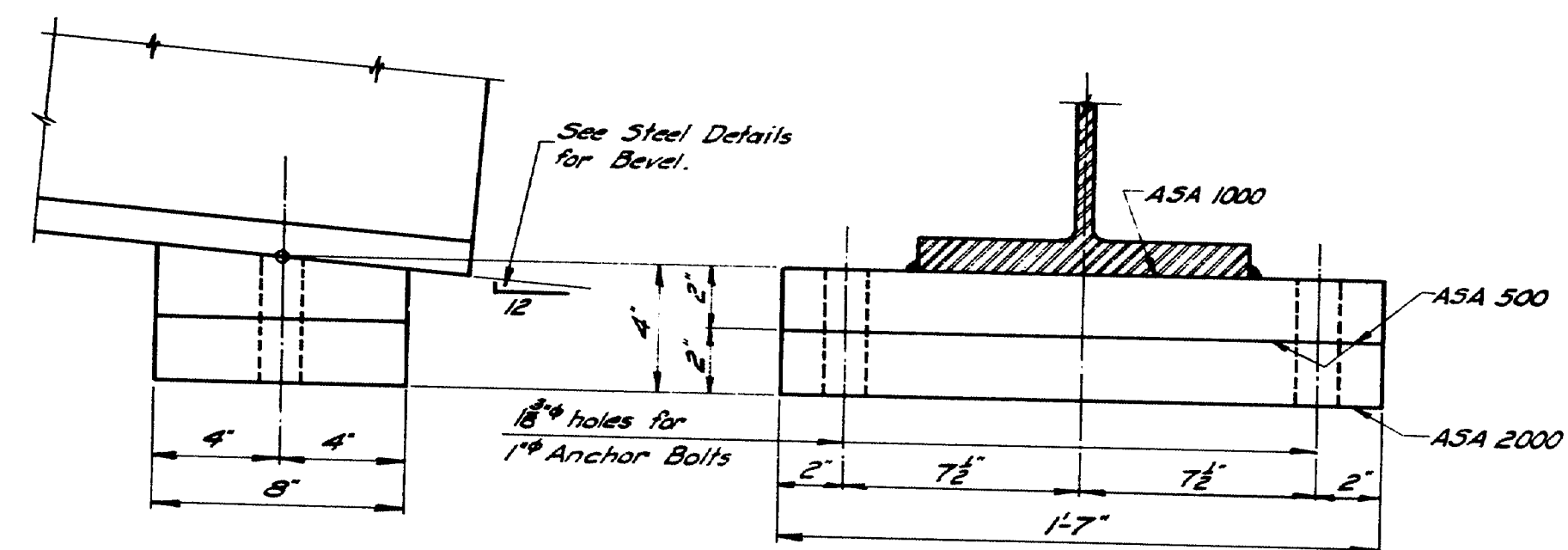
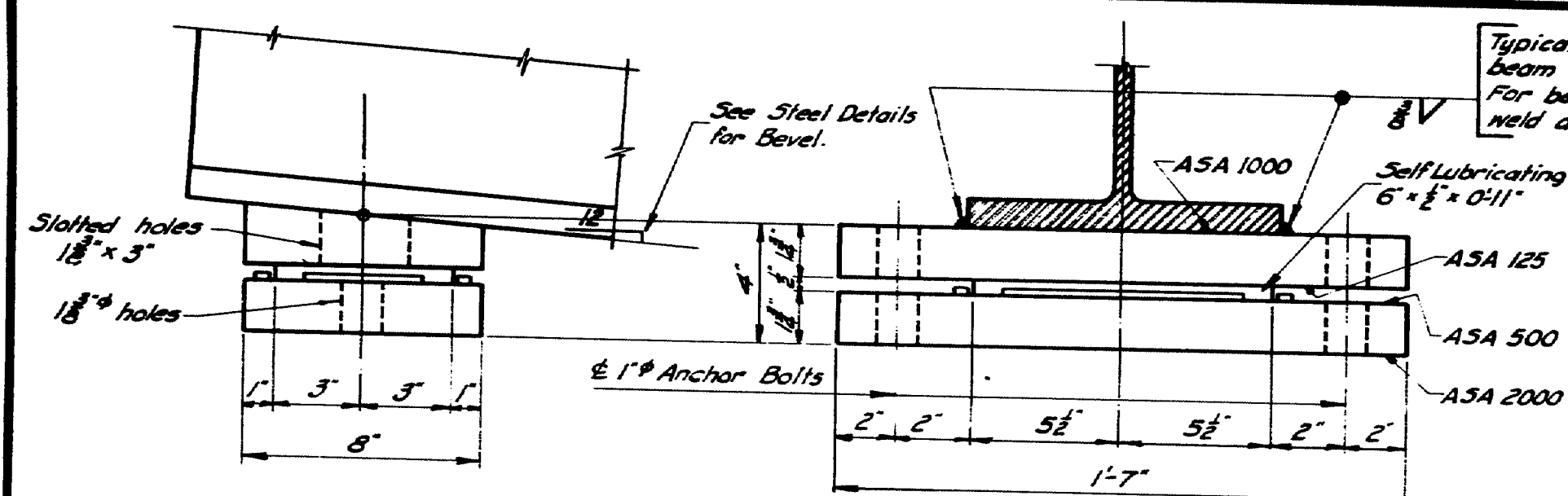


10'-0"
Scale
10'-0"

153-105

Portland I-295

CS-4 STA. 1+50 to STA. 2+00



PEDESTALS — ALLOWABLE LOADS & DIMENSIONS														
<i>Pedestal</i>	<i>Load</i>	A	B	C	D	E	F	G	H	J	K	L	M	N
EPA	132 ^K	—	—	—	—	—	—	—	—	—	8"	4"	36"	58"
FPA	130 ^K	—	—	—	—	—	—	—	—	—	—	—	—	—
EPB-1	120 ^K	—	6"	8"	14"	8"	10"	6"	7 1/2"	2"	8"	4"	36"	58"
EPB-2	165 ^K	—	7"	10"	14 1/2"	9"	14 1/2"	7"	8"	3"	10"	5"	36"	60"
EPB-3	224 ^K	—	8"	14"	20"	10"	14"	7"	10"	4 1/2"	12"	5"	36"	60"
FPB-1	120 ^K	—	6"	8"	14"	8"	—	7 1/2"	2"	—	—	—	—	—
FPB-2	165 ^K	—	7"	10"	14 1/2"	9"	—	8"	3"	—	—	—	—	—
FPB-3	224 ^K	—	8"	14"	20"	10"	—	10"	5"	—	—	—	—	—
EPG-1	70 ^K	9 1/2"	6"	8"	14 1/2"	8"	12"	3 1/2"	3"	3"	4 1/2"	—	1 1/2"	6"
EPG-2	100 ^K	11 1/2"	8"	8"	14 1/2"	8"	12"	3 1/2"	3"	3"	6 1/2"	—	1 1/2"	6"
EPG-3	130 ^K	14 1/2"	10"	8"	14 1/2"	9"	14"	4"	3"	3"	8 1/2"	—	1 1/2"	7"
EPG-4	160 ^K	17 1/2"	10"	8"	14 1/2"	9"	14"	4"	3"	3"	8 1/2"	—	1 1/2"	7"
EPG-5	190 ^K	19 1/2"	10"	9"	20"	10"	2"	4 1/2"	5"	3"	28"	—	1"	8"
EPG-6	220 ^K	19 1/2"	10"	10"	20"	10"	2 1/2"	5"	5"	3"	10 1/2"	—	1"	8"
EPG-7	280 ^K	19 1/2"	10"	10"	20"	10"	2 1/2"	5"	5"	4"	10 1/2"	—	1"	8"
FPG-1	100 ^K	—	8"	14 1/2"	9"	14"	2 1/2"	8"	—	6 1/2"	—	—	6"	—
FPG-2	160 ^K	—	8"	14 1/2"	10"	14"	2 1/2"	8"	—	6 1/2"	—	—	6"	—
FPG-3	190 ^K	—	8"	20"	10"	14"	3"	10"	—	6 1/2"	—	—	7"	—
FPG-4	220 ^K	—	10"	20"	10"	14"	4"	10"	—	6 1/2"	—	—	8"	—
FPG-5	250 ^K	—	10"	20"	10"	14"	4"	10"	—	6 1/2"	—	—	8"	—

NOTE: At the location of bearing pedestals the concrete bridge seats shall be dressed one inch larger all around than size of masonry plates and to exact elevations shown on the plans. If dressed areas are below the surface of the surrounding bridge seat a small channel shall be cut to the edge of the bridge seat for drainage where required by the Engineer. Channels shall have a min. width of 6" and min. slope of 1 inch per foot. No separate payment for this work will be made as it shall be considered incidental to contract items.

DESIGN SPECIFICATIONS
*A.A.S.H.O., Standard Specifications
for Highway Bridges, 1969*

A.S.T.M. STEEL CLASSIFICATION
Anchor Bolts - A36
All other - A36

*Revised- Design Specifications and
A.S.T.M. Steel Classification 1969.*

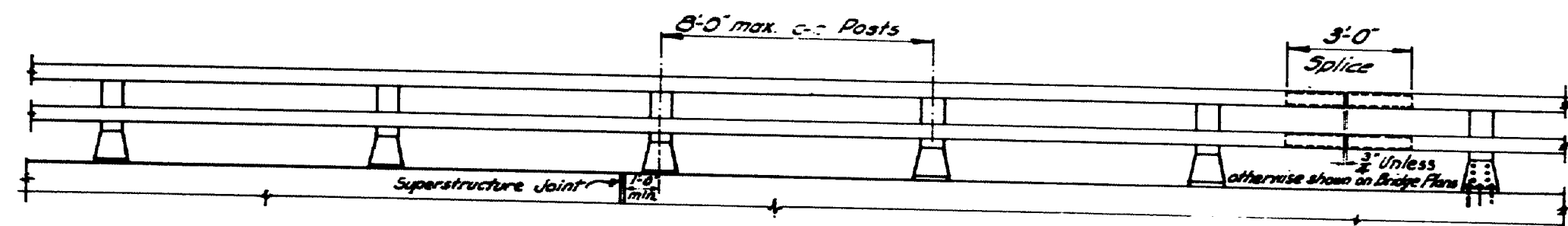
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS
(BD 101 - 70)

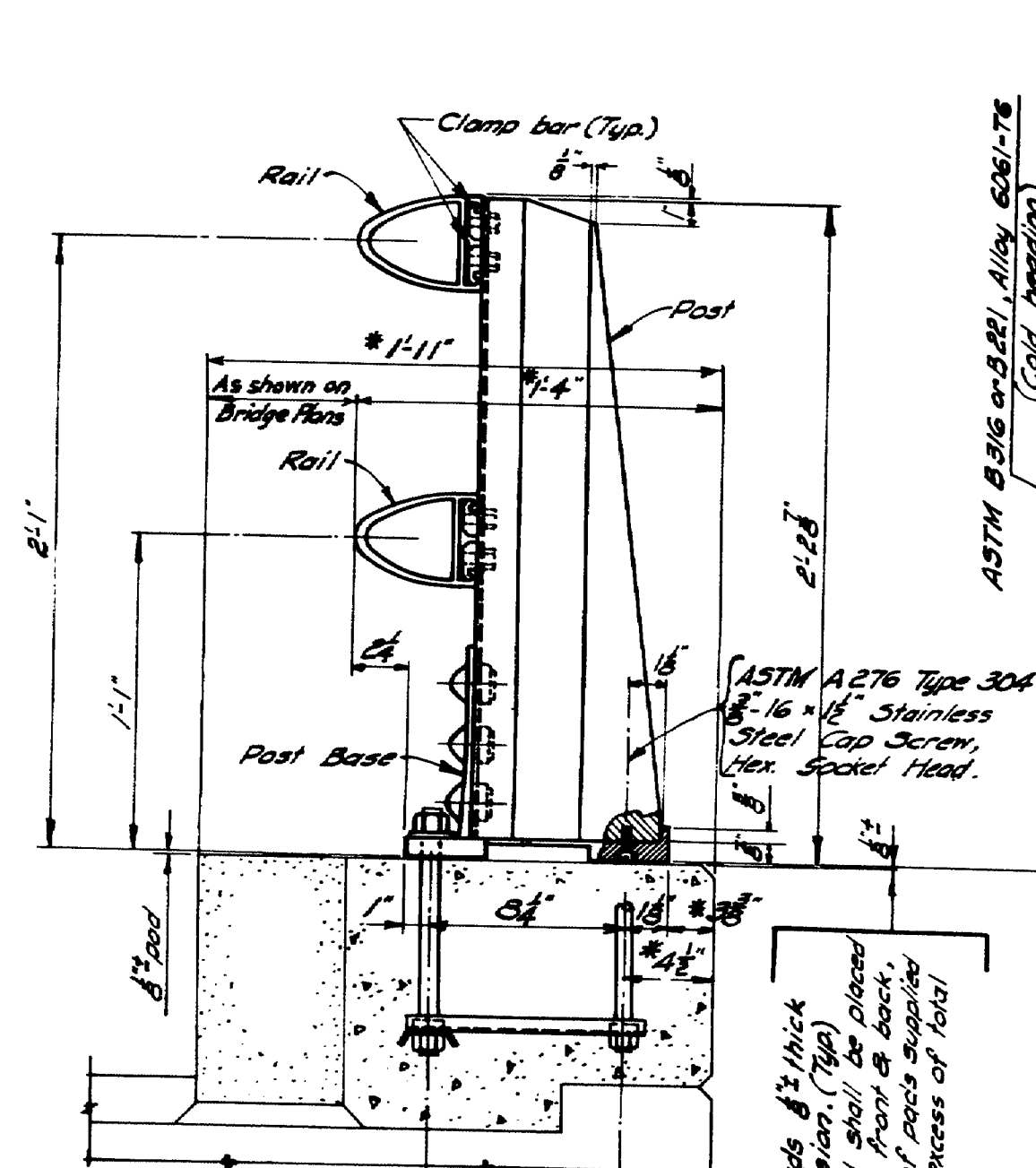
BEARING PEDESTALS

JANUARY 1970

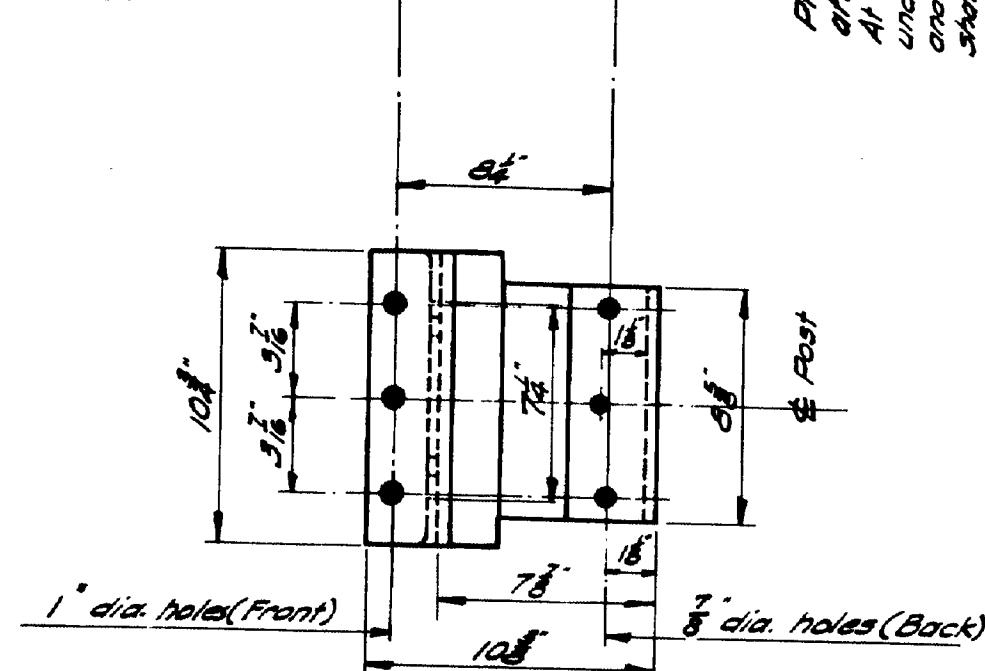
153-106



RAIL - ELEVATION
Lengths of rail shall be attached to a minimum of (4) four rail posts, wherever possible, and in any case never less than (2) two.

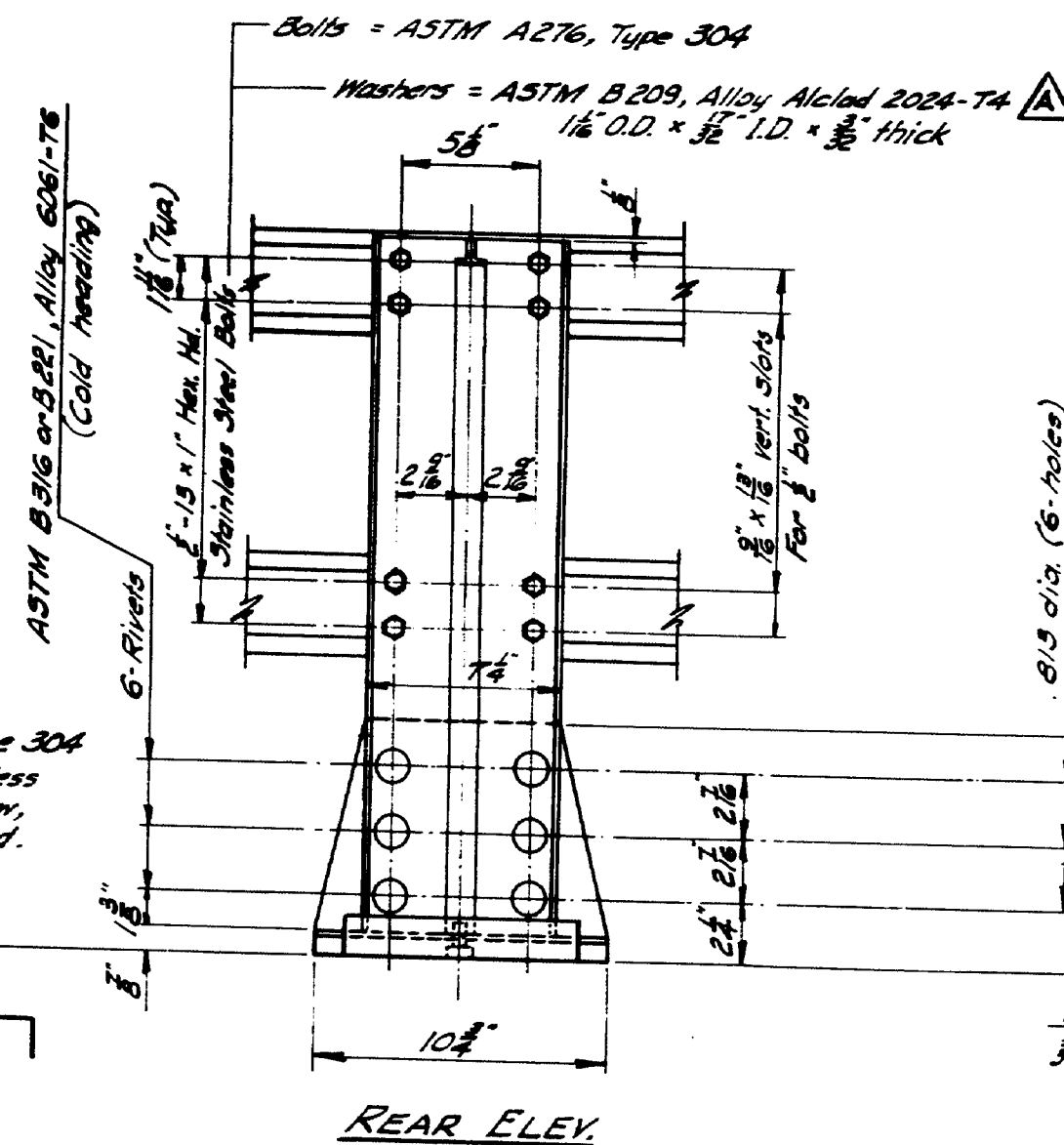


BRIDGE RAIL Assembly
* Preferable minimum dimensions.

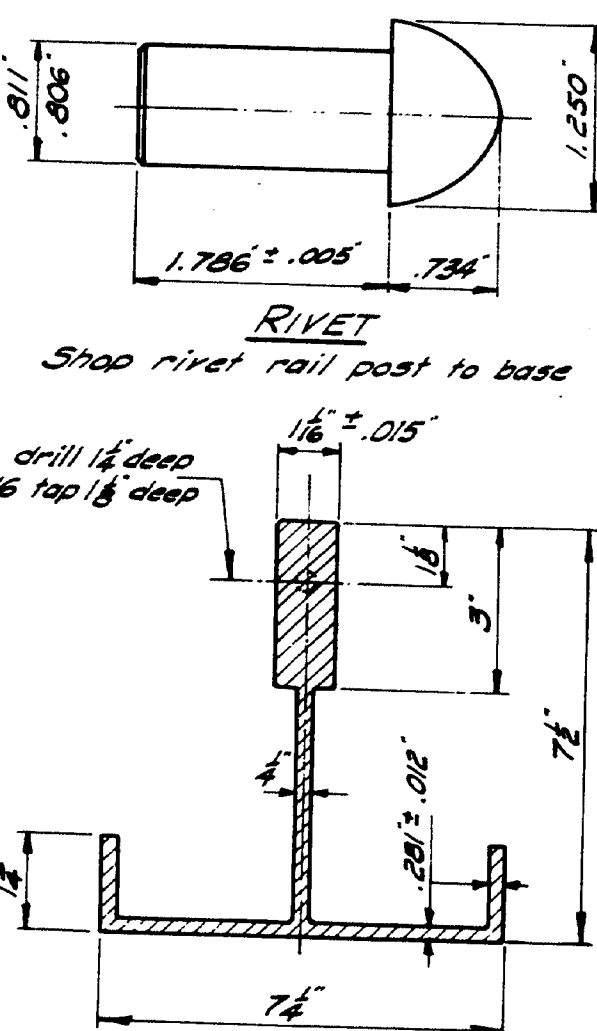


POST BASE (Bottom View)

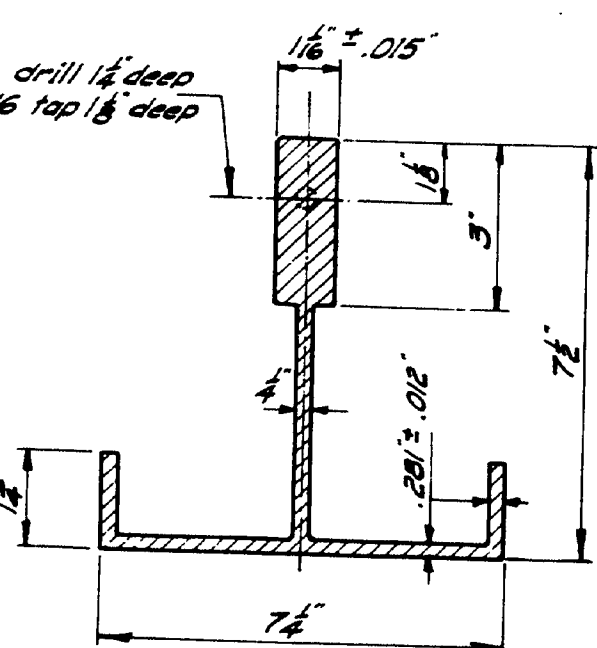
Post & Post Base = ASTM B221, Alloy 6061-T6.



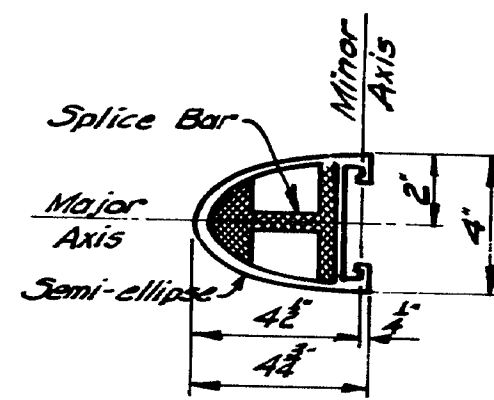
REAR ELEV



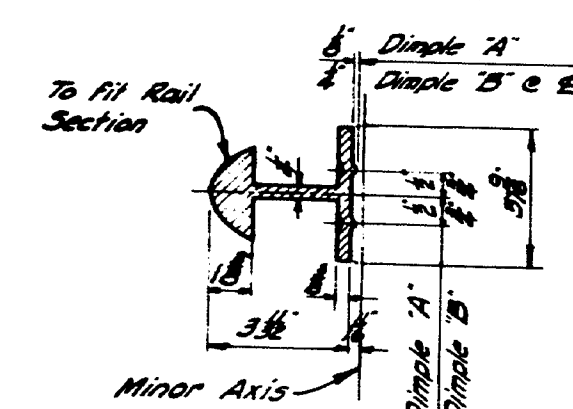
RIVET
Shap rivet rail post to base



POST SECTION

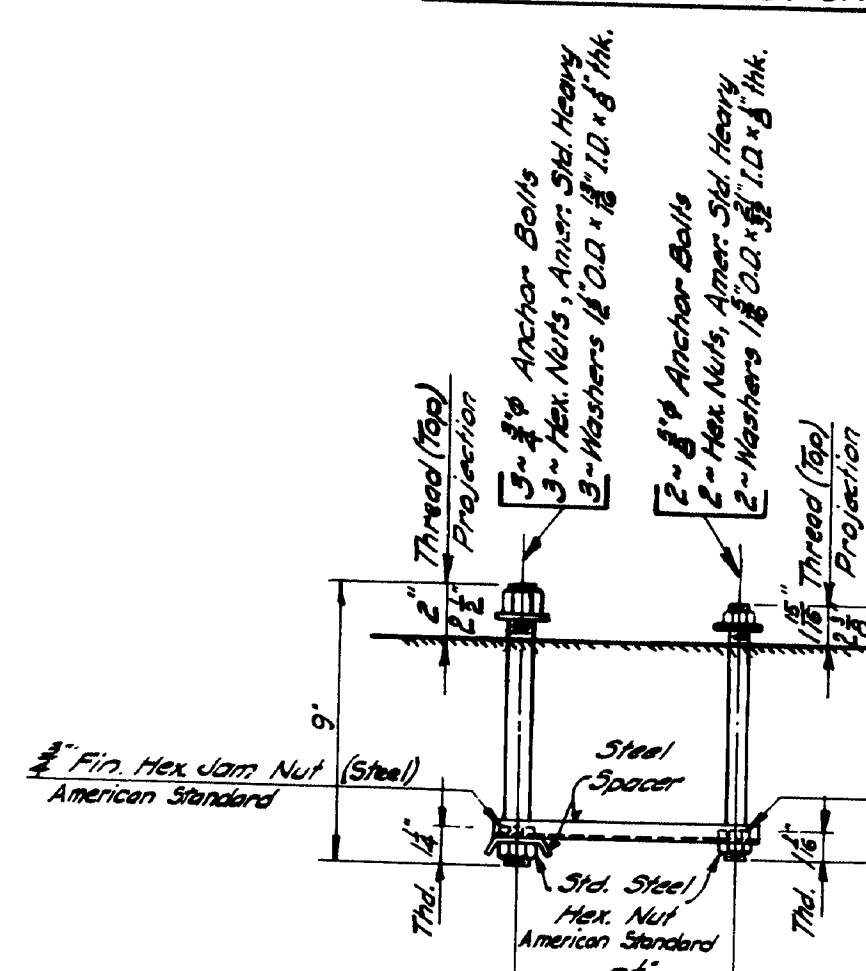


RAIL SECTION
See "Rail Detail"



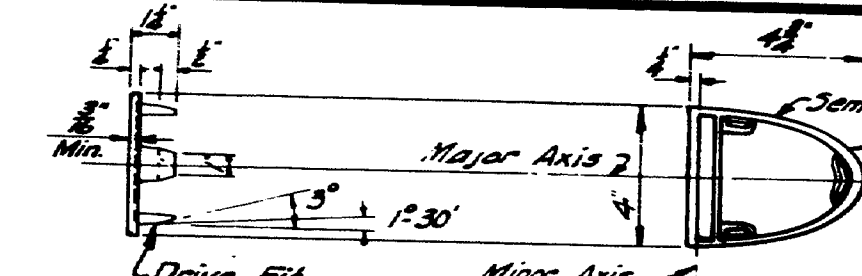
SECTION B-B

POST BASE SECTION

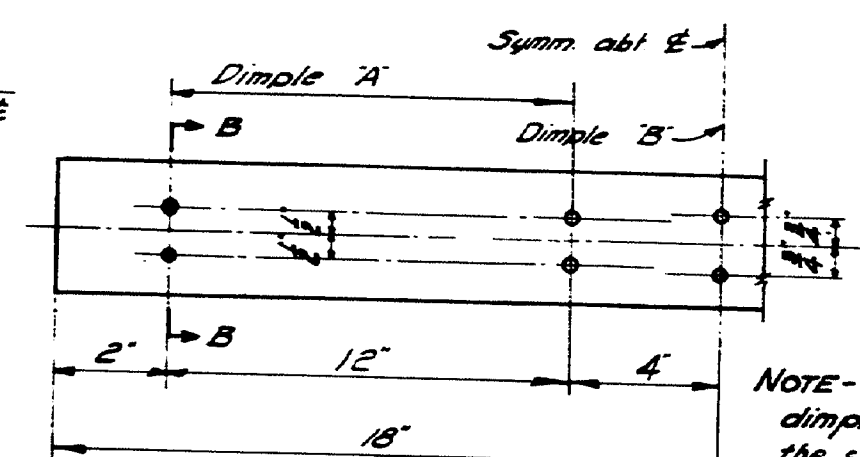


RAIL POST ANCHORAGE Assembly

NOTE: Anchor Bolts, exposed Hex Nuts (Amer Std. Heavy) and washers shall conform to Designation "Stainless Steel" - A276 Type 304, minimum elongation 15% minimum.
Hex Nuts embedded in concrete shall conform to Steel Designation ASTM A 307.
* See Supplemental Specification.



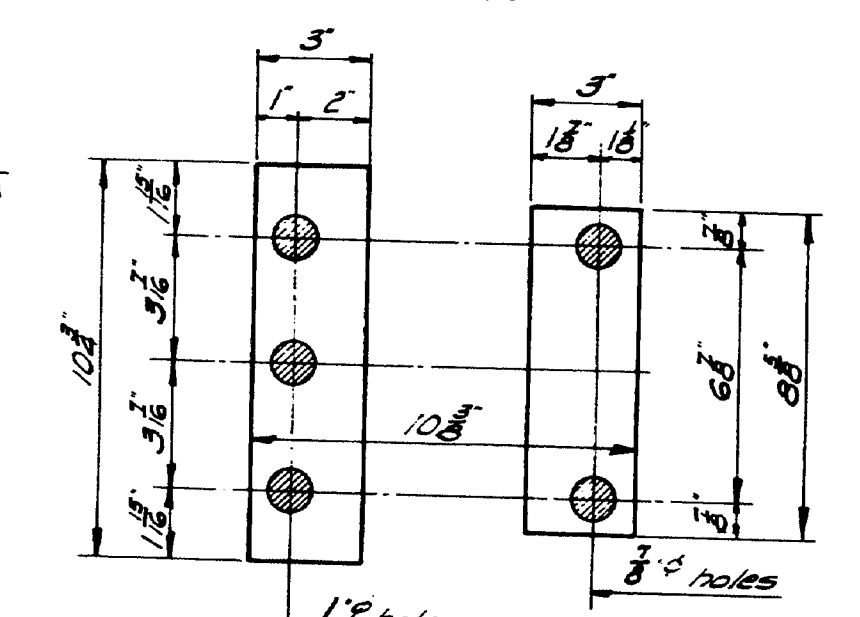
RAIL CAP
ASTM B26 or B108, Aluminum Assoc. Alloy 43-F or 356F



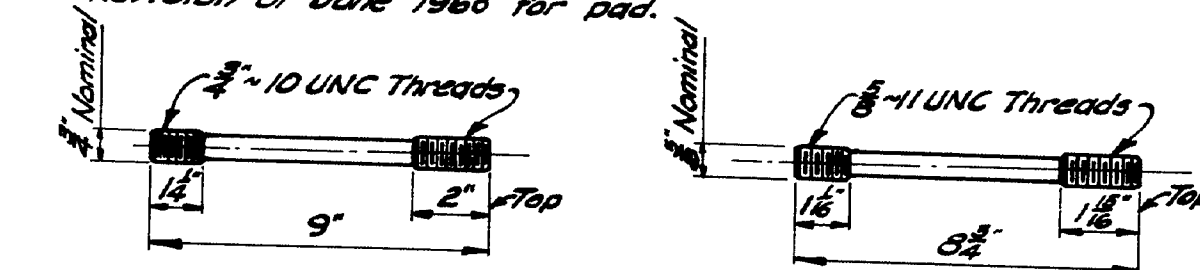
CLAMP BAR

NOTE - An alternate to the dimple system for holding the splice bar in position may be used if approved by the Engineer.

SPlice BAR
Rail, Splice Bar, & Clamp Bar = ASTM B221, Alloy 6061-T6 or 6061-T6.



PREFORMED PADS
See Subsection 713.03 Standard Specifications Revision of June 1968 for pad.



ANCHOR BOLTS

If cut threads are used bolt diameter shall be not less than nominal diameter.
If rolled threads are used bolt diameter shall be not less than root diameter of nominal diameter.



STEEL SPACERS
FOR ANCHORAGE
ASTM A 36

DESIGN SPECIFICATIONS
A.A.S.H.O. 1969 and
Interim Specifications.

B.P.R. REV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1295-3 (29)	14	34

MARK	ALTERATIONS
1	Changed ASTM B221, to include Alloy 6061-T6 for Rail, Splice & Clamp Bars.
2	Changed ASTM Designations A276 & B209 A276 Type 304 to 304 (Post Anchorage)
3	Changed A.A.S.H.O. Design Specifications from 1965 to 1969.

MAINE STATE HIGHWAY COMMISSION AUGUSTA, MAINE
STANDARD DETAILS (BD 106 - 69)
ALUMINUM RAILING 2 - BAR (SEMI-ELLIPSE) EXTRUDED POST
JANUARY 1969

153-108

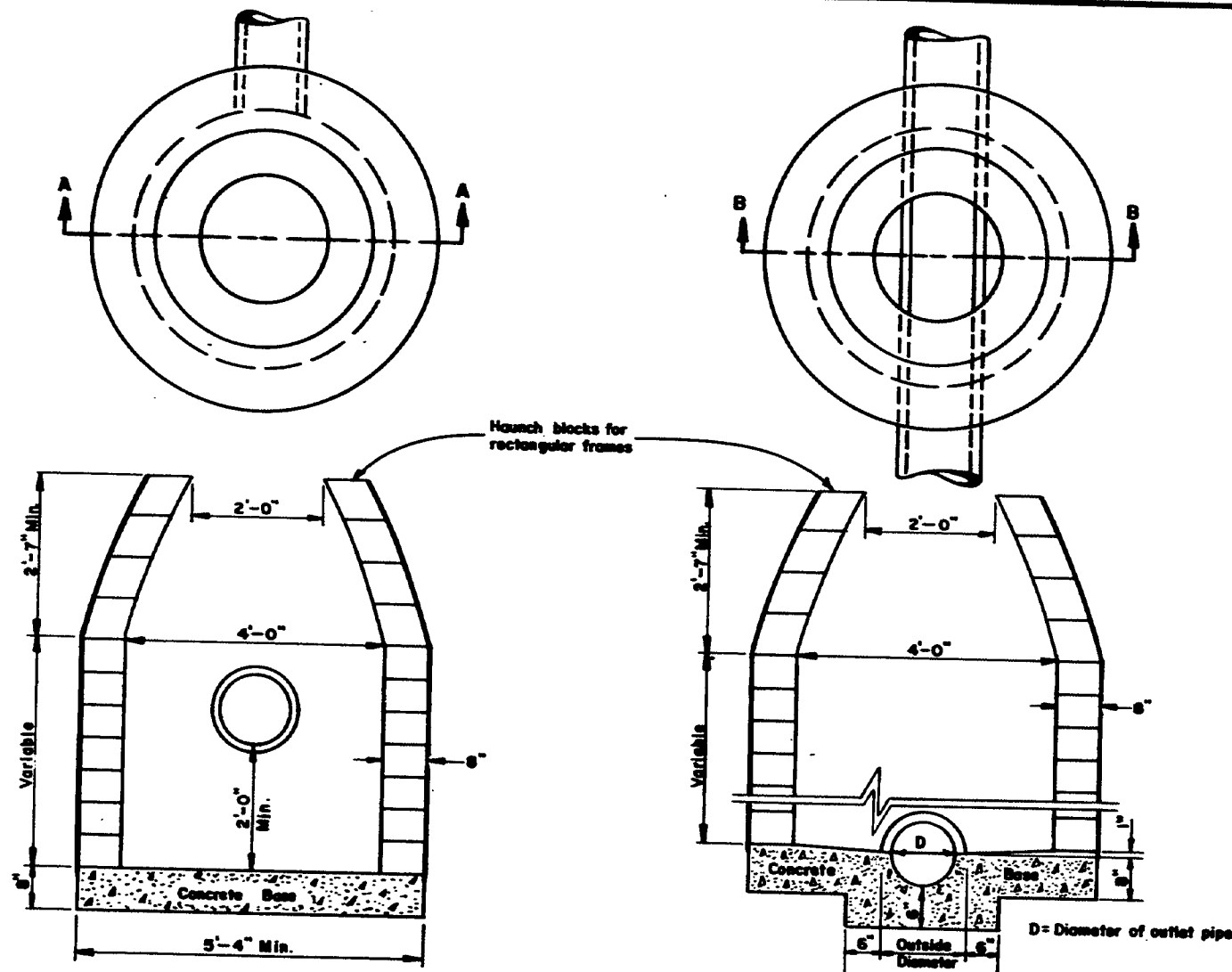
GENERAL NOTES—ALL CATCH BASINS AND MANHOLES

- Any Catch Basin in excess of 6' in depth shall, if directed be provided with steps similar to those detailed for Manholes.
- Frames, Grates & Covers shall be considered as part of the structure, and no separate payment shall be made.

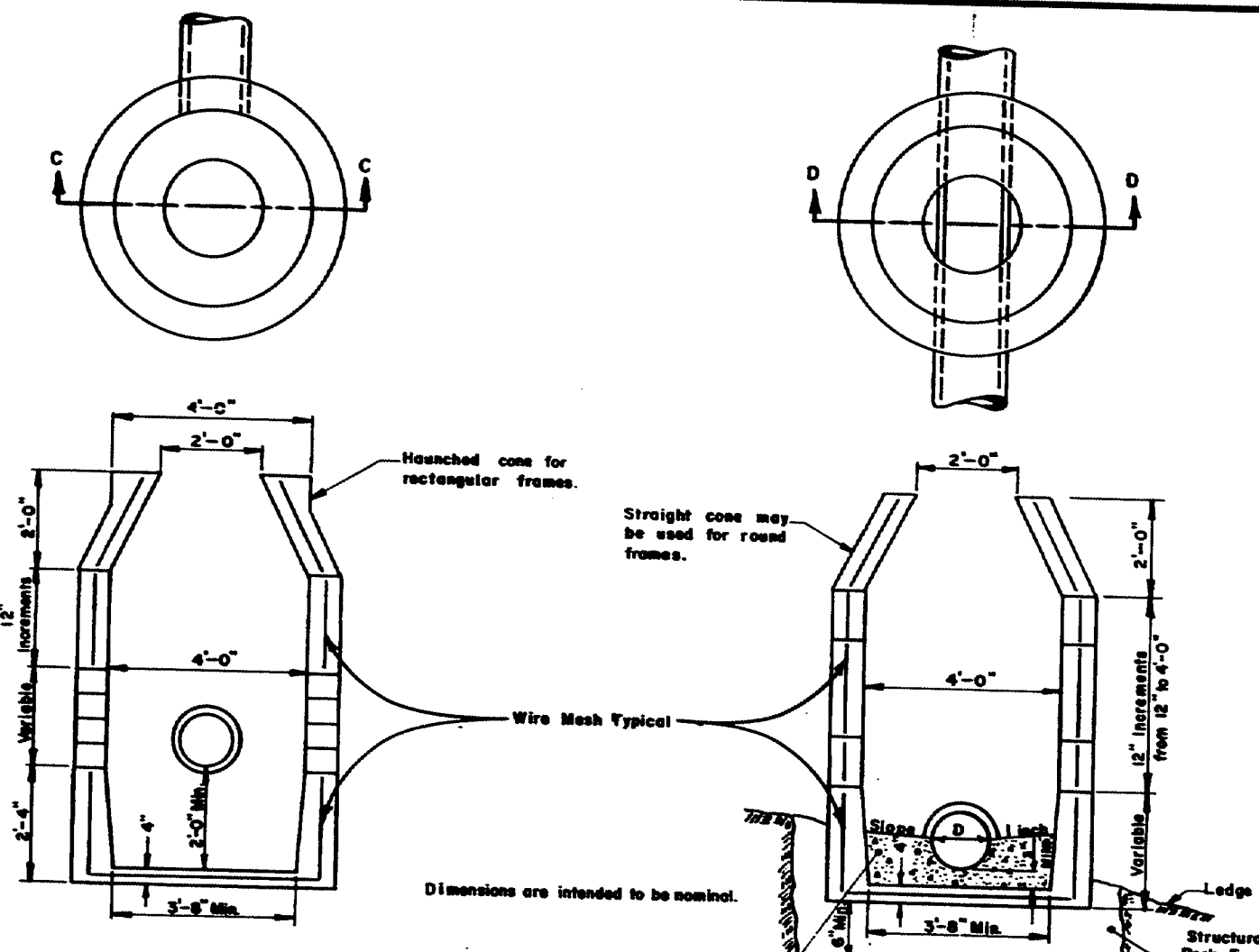
GENERAL NOTES—PRECAST CATCH BASINS AND MANHOLES

- Drain holes in precast sumps to be not over 3" in diameter, and shall be plugged with mortar when constructed.
- All precast sections of less than 6" wall thickness shall have haunches and grooves joints.
- Cone and Ring sections wall thickness min. 4", max. 6".
- Minimum wall thickness of sump may be 4" as specified in A.S.T.M. C-470, however, if concrete blocks are used around the inlet and outlet pipes, the wall thickness of sump shall be 6".
- Wall around inlet and outlet pipes may be built of 8" concrete blocks or a precast ring with an opening 2" larger than the outside diameter of the pipe may be used.
- Lift Holes shall be provided.

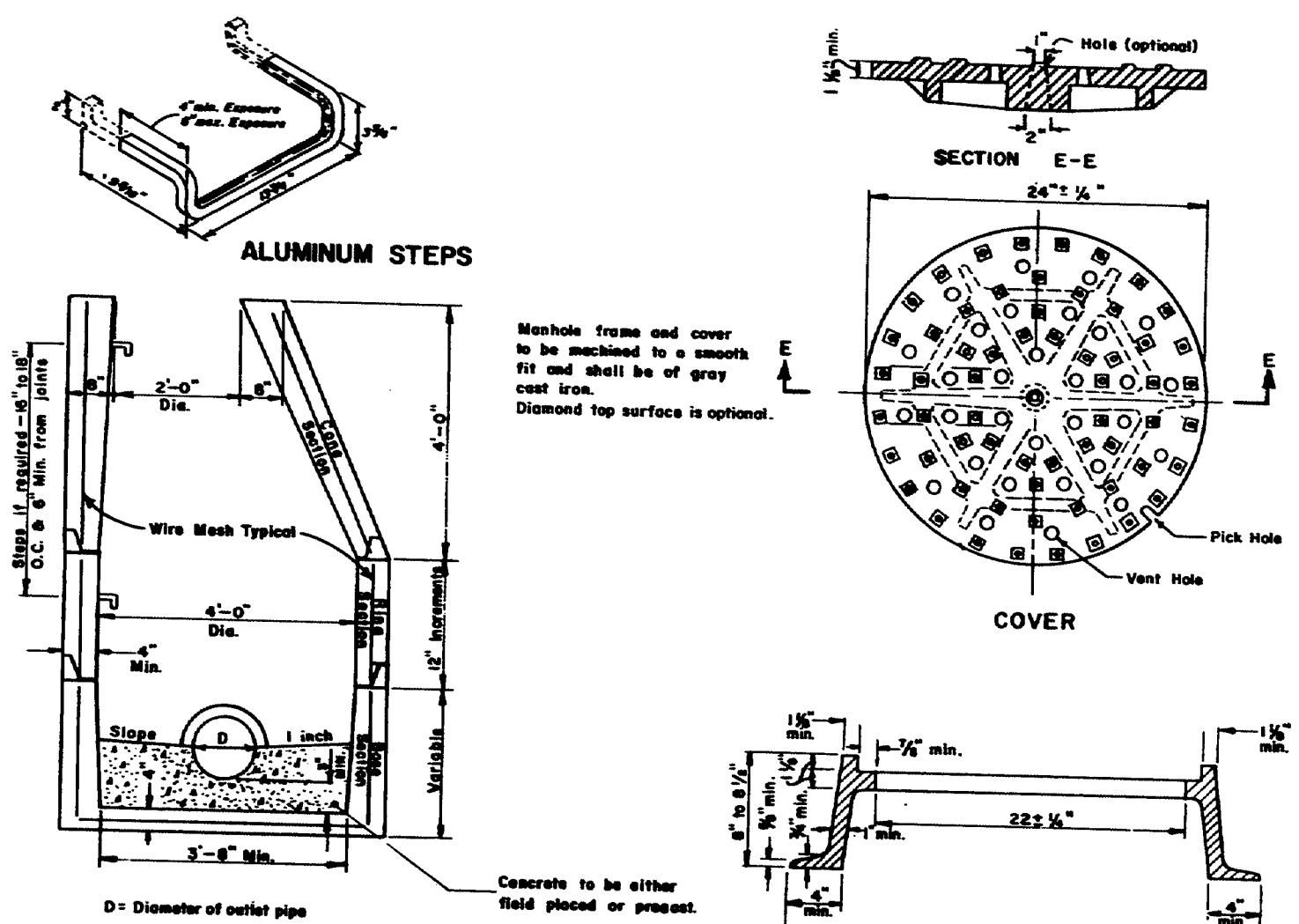
R.P.R. STATE PROJECT NUMBER SHEET TOTAL
1 MAINE 2-225-3(67) 48 75 84



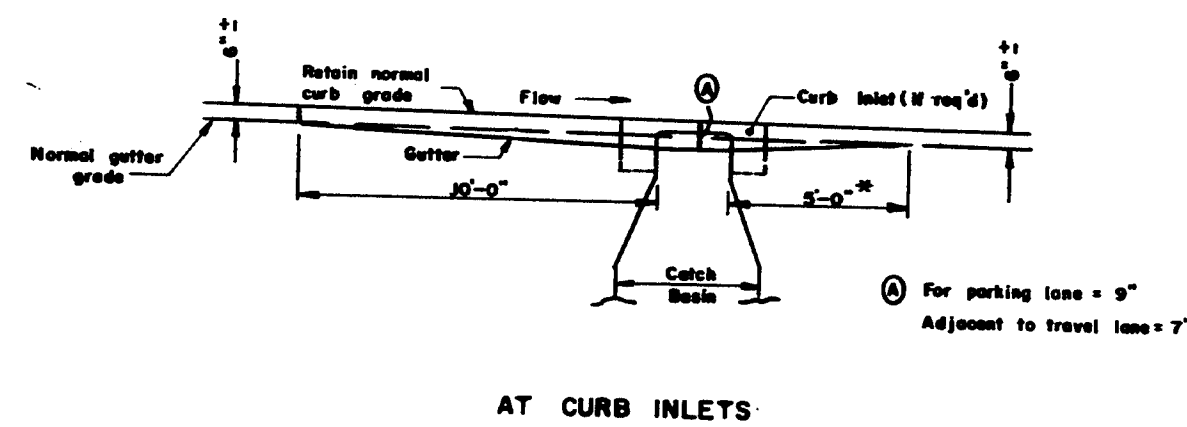
**CATCH BASINS
(Concrete Blocks or Bricks)**



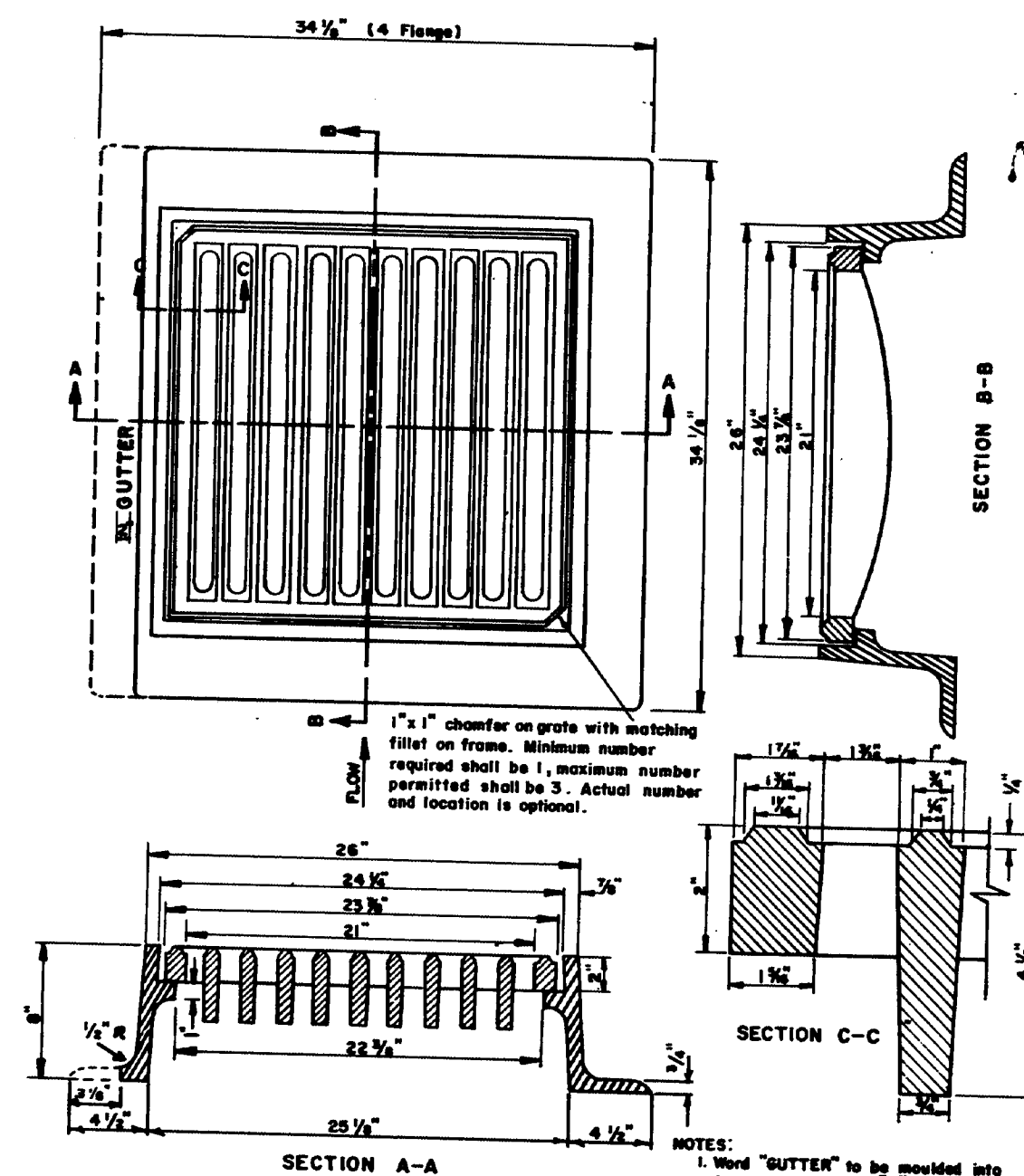
**CATCH BASINS
(Precast Units)**



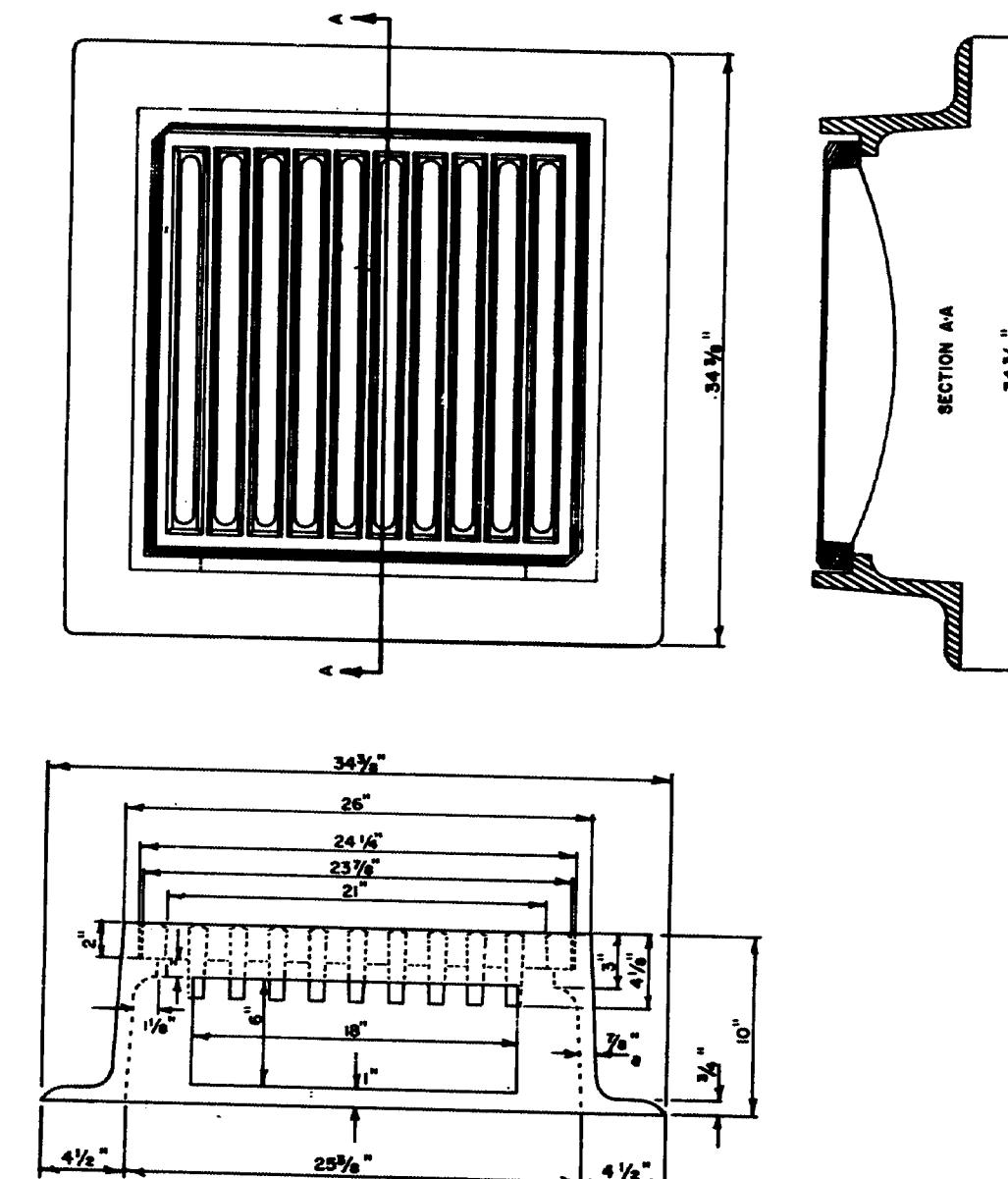
**MANHOLE
FRAME**



GUTTER GRADE TRANSITION AT CATCH BASIN



TYPE "A" & "B" CATCH BASIN TOPS

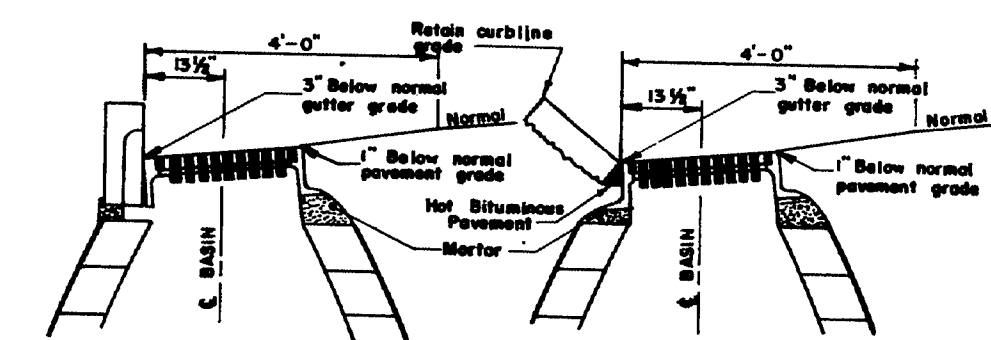


TYPE "C" CATCH BASIN TOPS

STRUCTURE	TOP				SHAPE				
	A	B	C	D	1	2	3	4	5
CATCH BASIN									
Type A-1	X				X				
Type A-2	X					X			
Type B-1		X			X		X		
Type B-2		X				X		X	
Type C-1			X		X		X		
Type C-2			X			X		X	
MANHOLE				X		X		X	X

**TABLE OF CATCH BASIN TYPES
(COMBINATION OF TOPS AND SHAPES)**

For Type "E" & Type "F" C.B. See Sheet No. 3

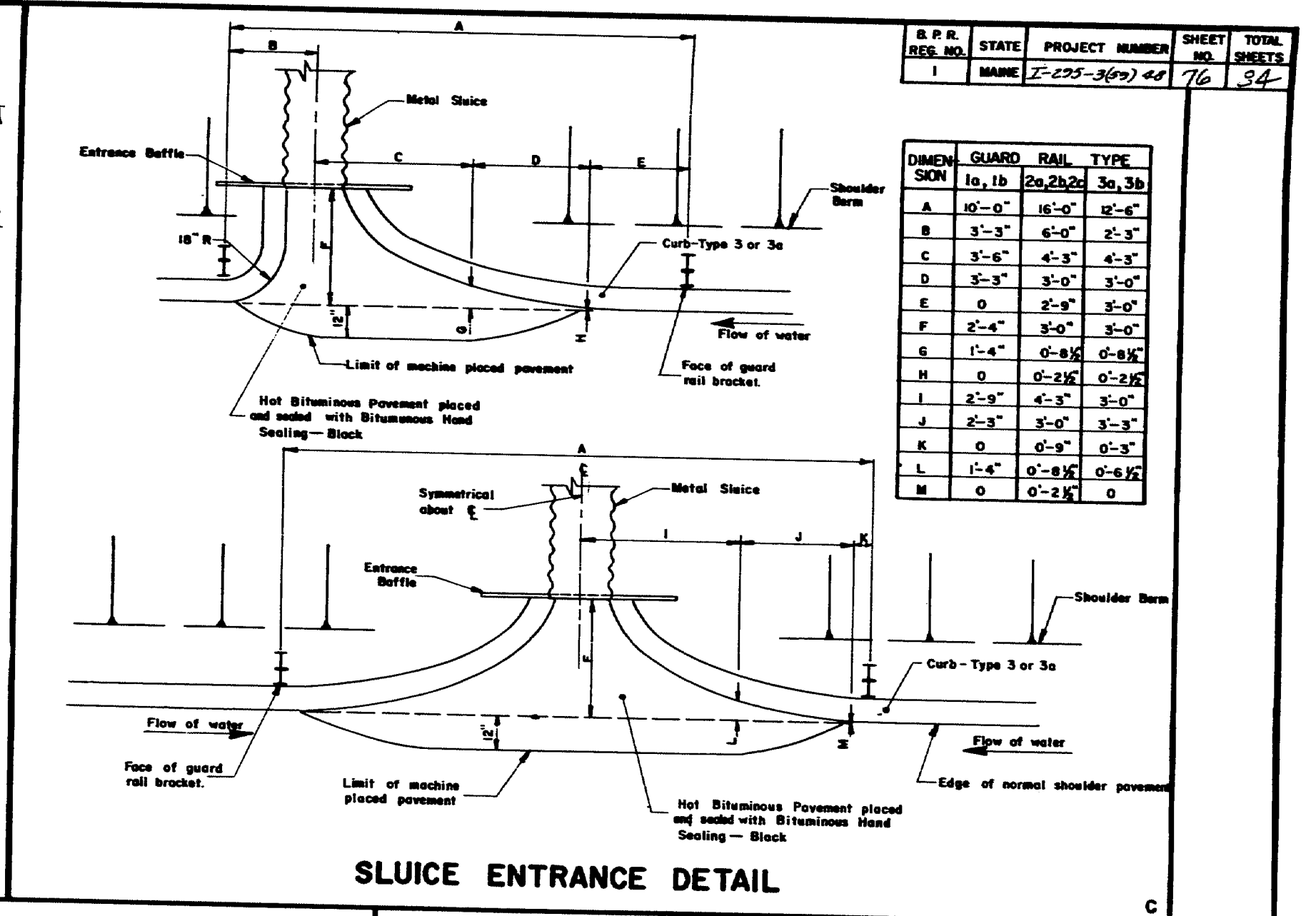
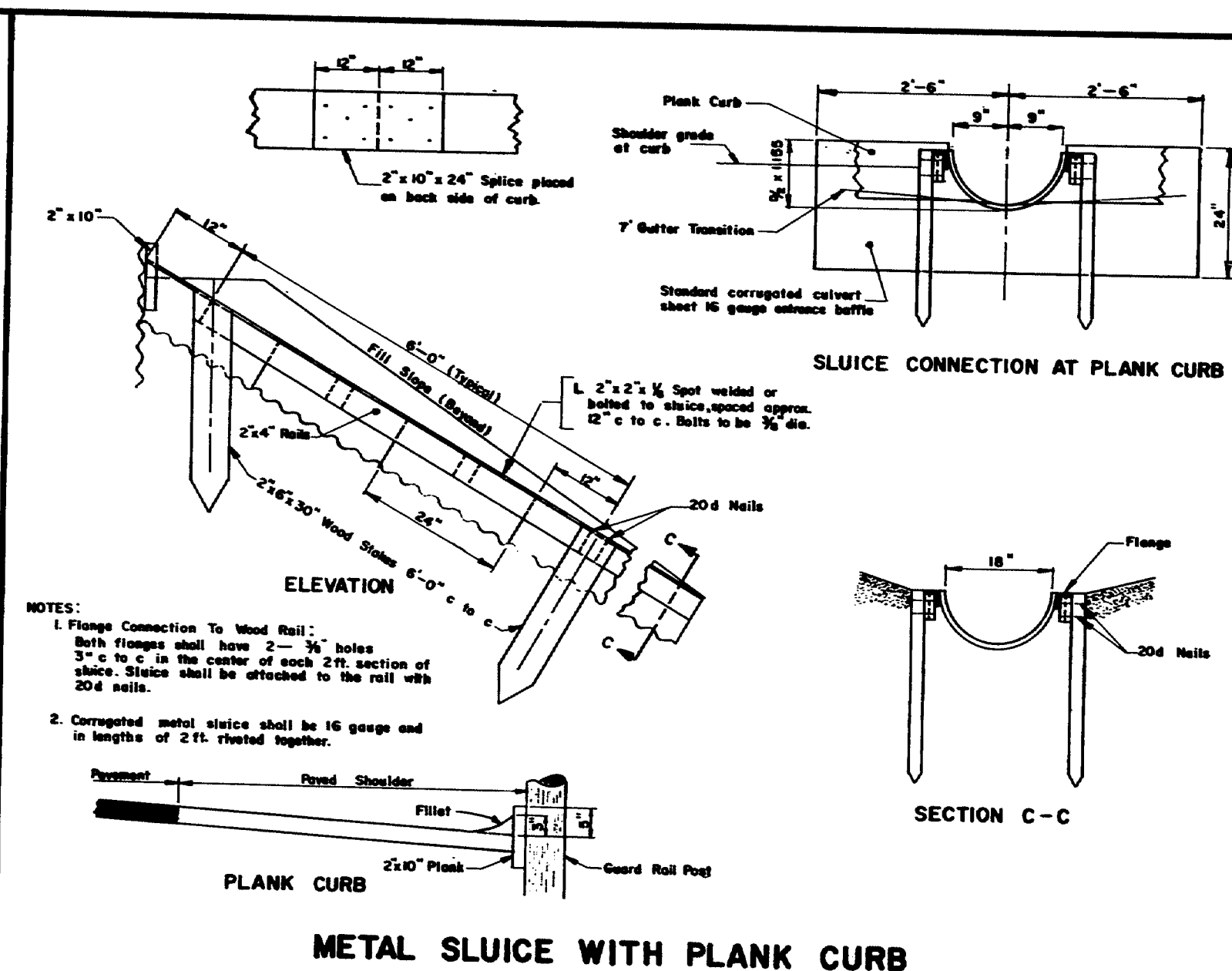
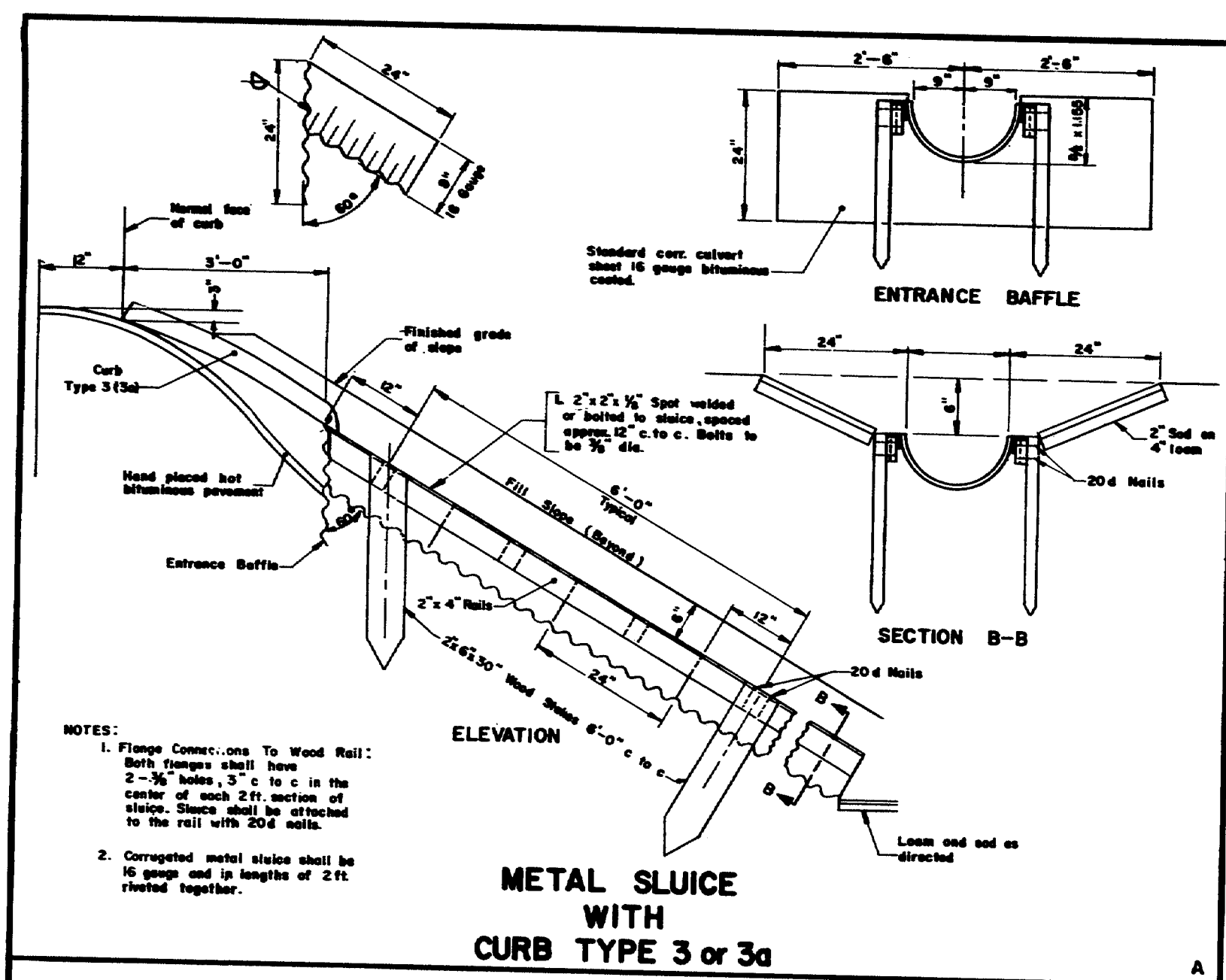


CATCH BASIN TOP INSTALLATION

REVISIONS		MAINE STATE HIGHWAY COMMISSION AUGUSTA, MAINE	
CATCH BASIN TOPS A-B-C	10-21-69	STANDARD DETAILS	
PLATE "E"	4-21-71		
		CATCH BASINS AND MANHOLES	
		AUG. 1969	

153-109

PORTLAND-I-225

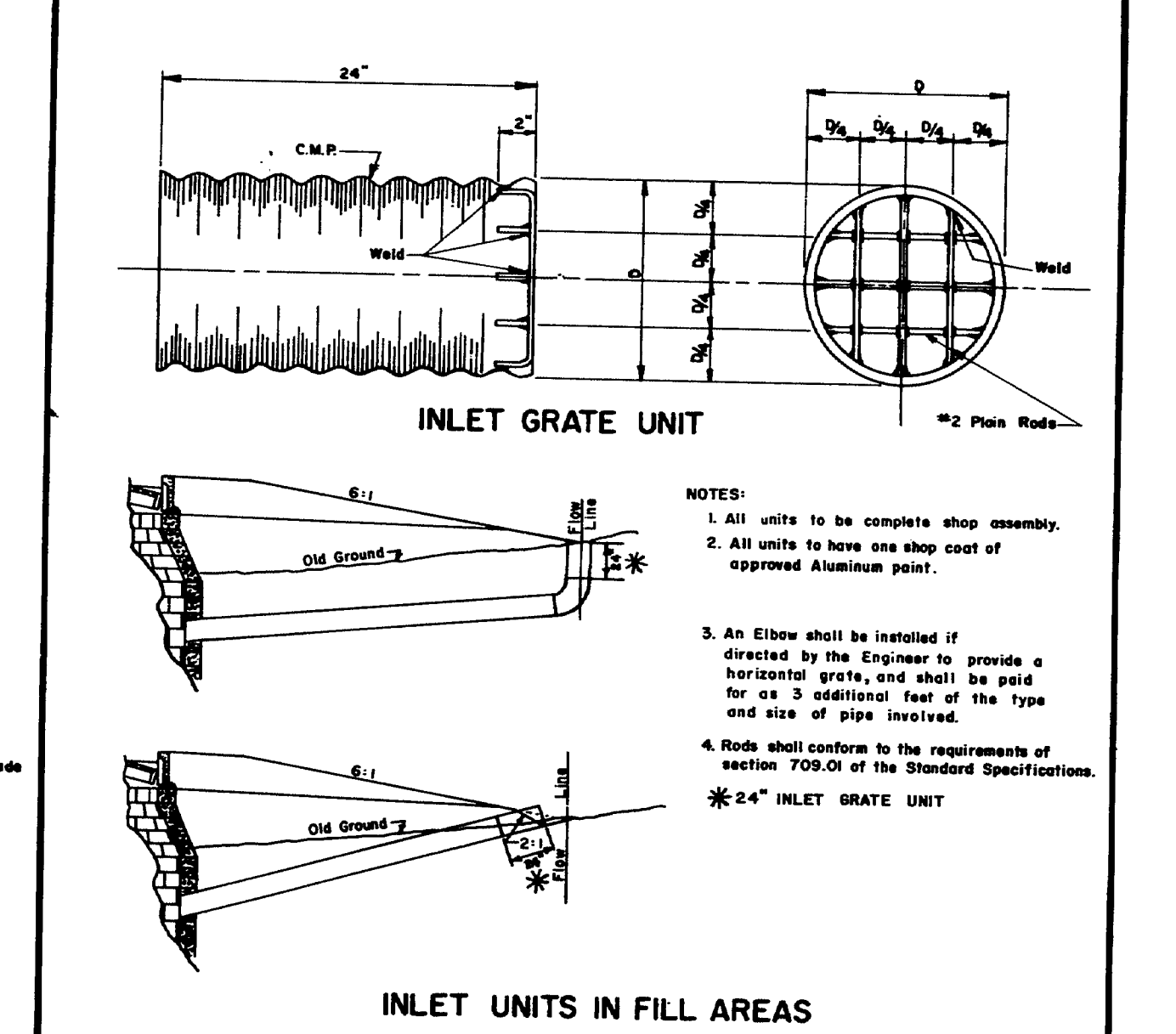
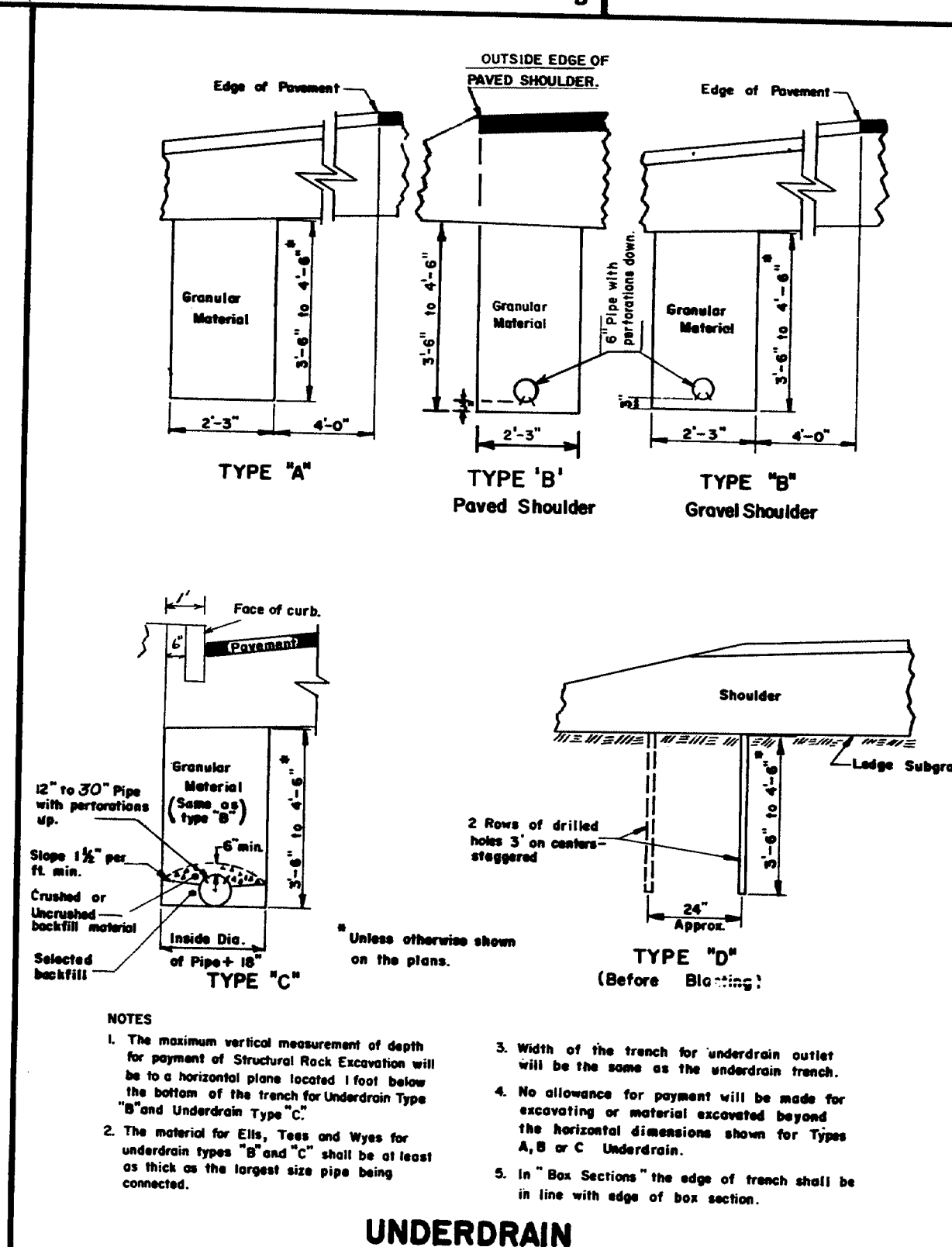
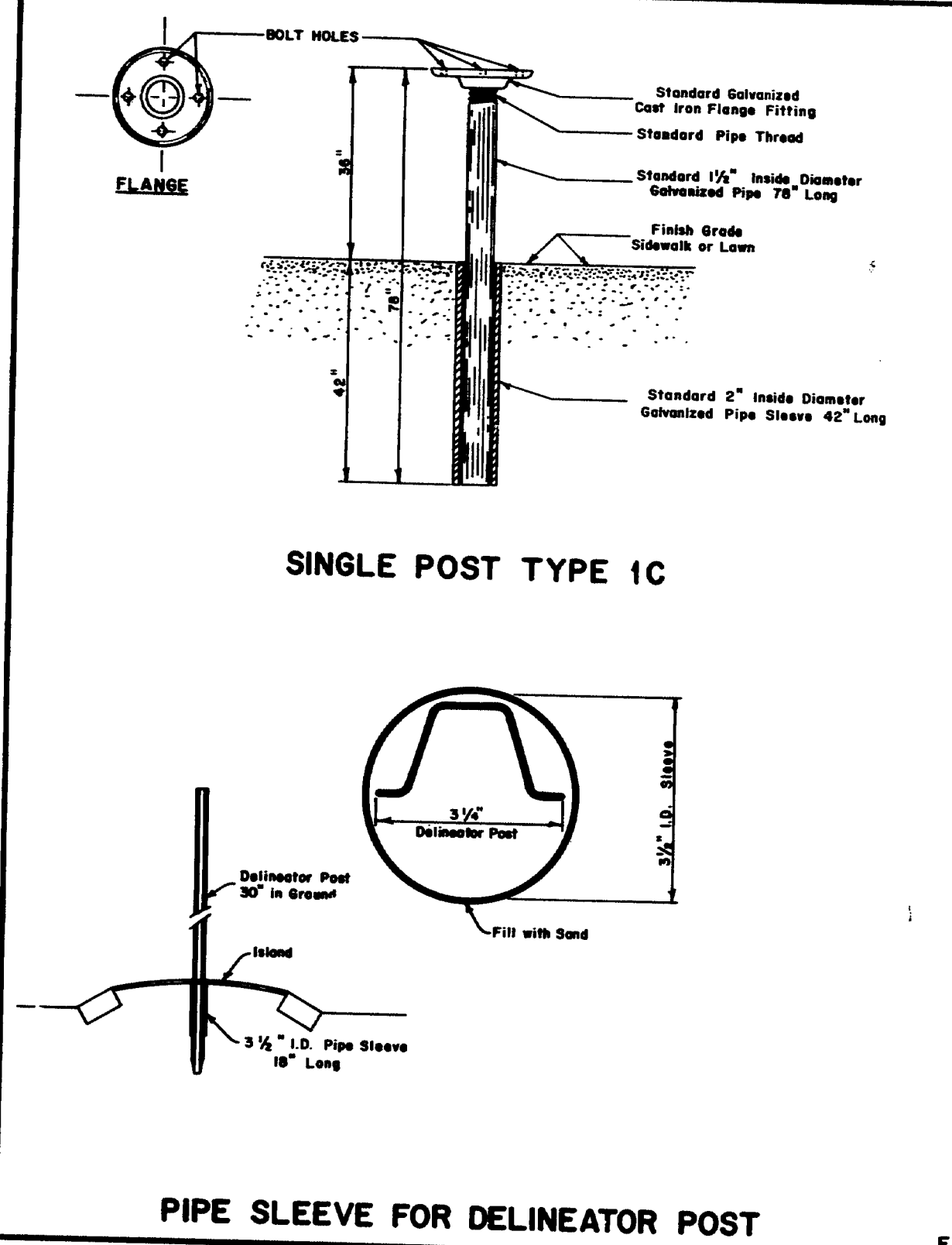


CIRCULAR				
NOMINAL INSIDE DIAMETER	THICKNESS IN INCHES	CLASS	CLASS	
8 inch	.064	CAP	ASBESTOS	
10 "	.064	CAP	CEMENT PIPE	
12 "	.064	CAP		
15 "	.064	CAP		
18 "	.064	CAP		
21 "	.064	CAP		
24 "	.064	CAP		
30 "	.079	CAP		
36 "	.079	CAP		
42 "	.109	CAP		
48 "	.109	CAP		
54 "	.109	CAP		
60 "	.138	CAP		
66 "	.138	CAP		
72 "	.168	CAP		
84 "	.168	CAP		

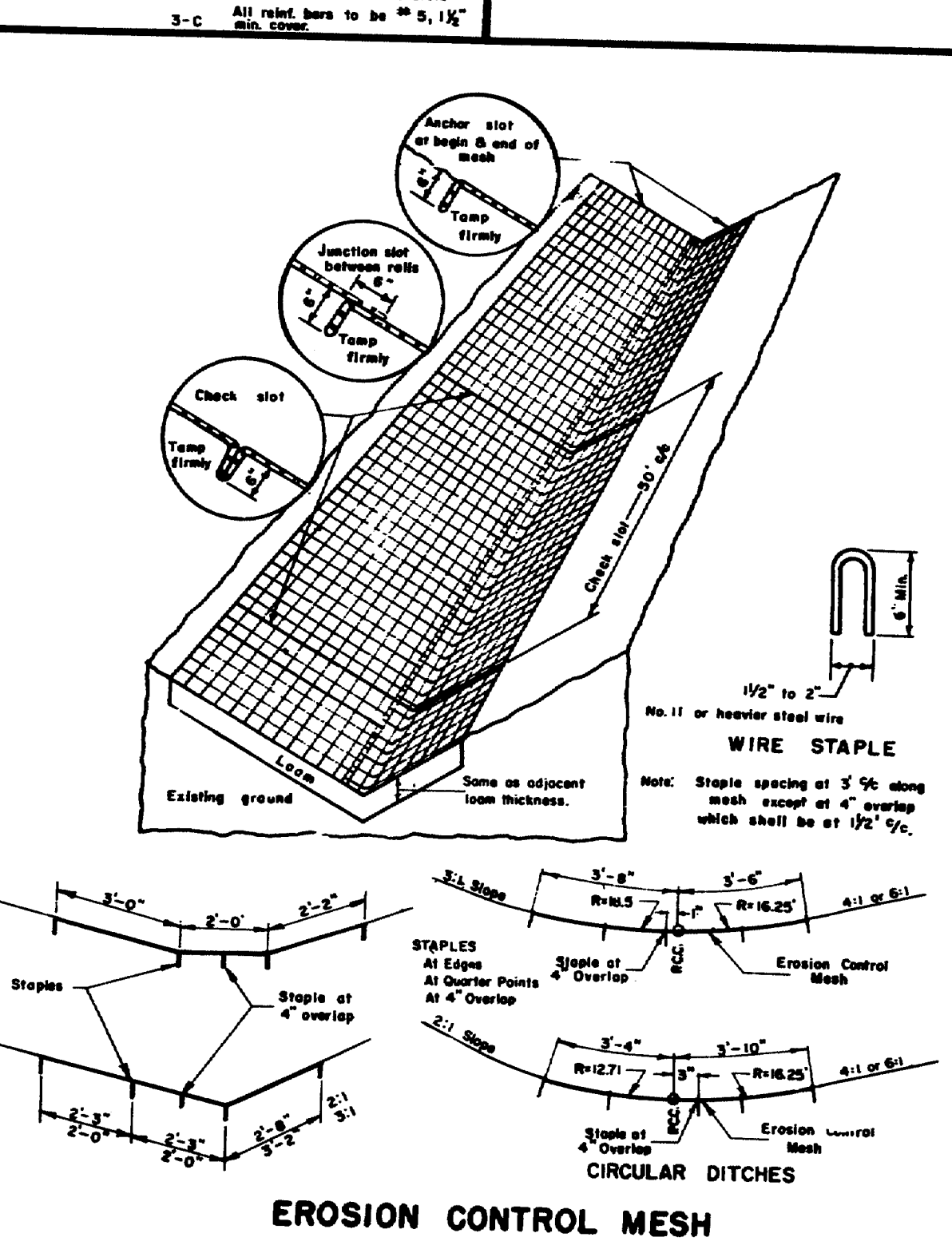
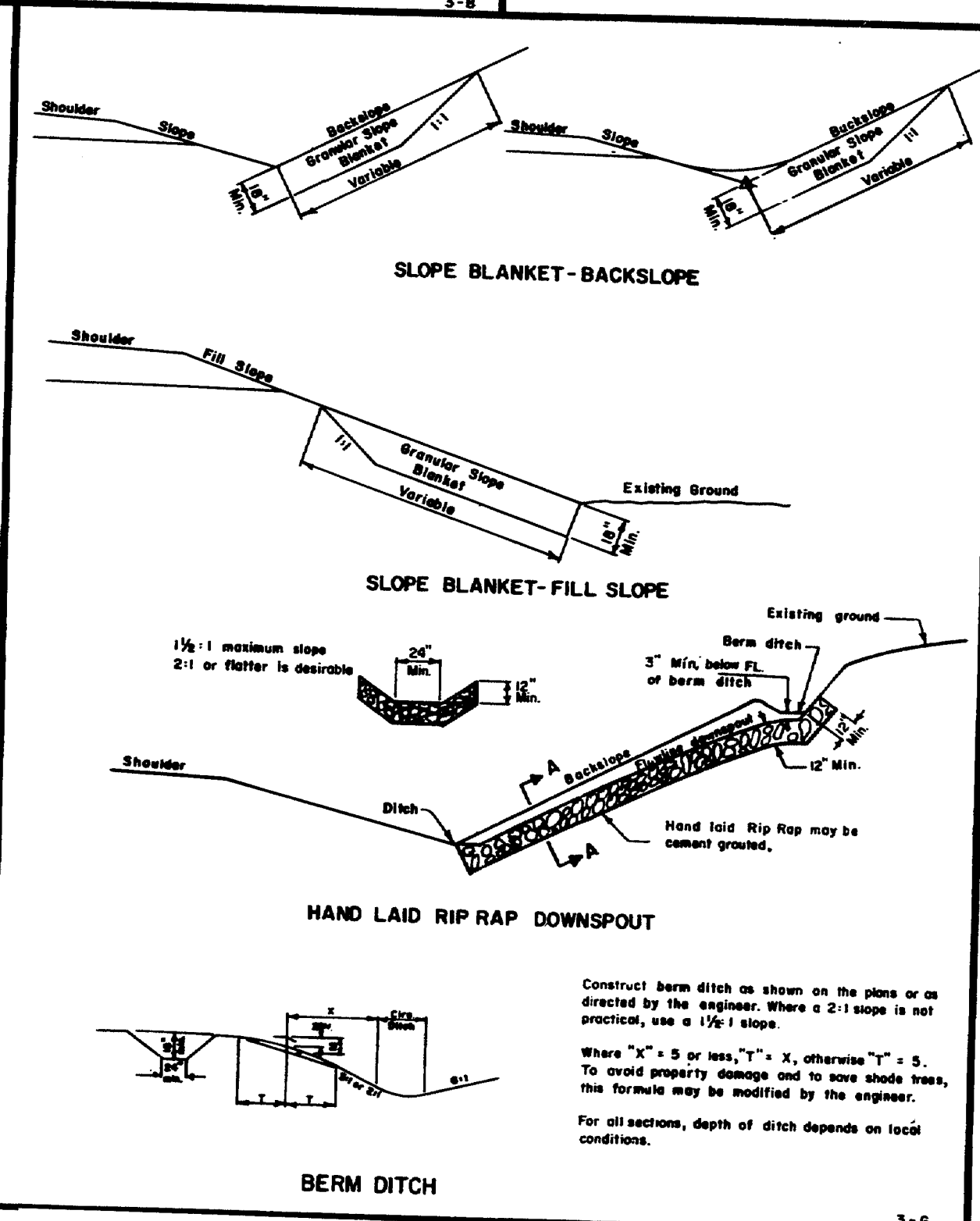
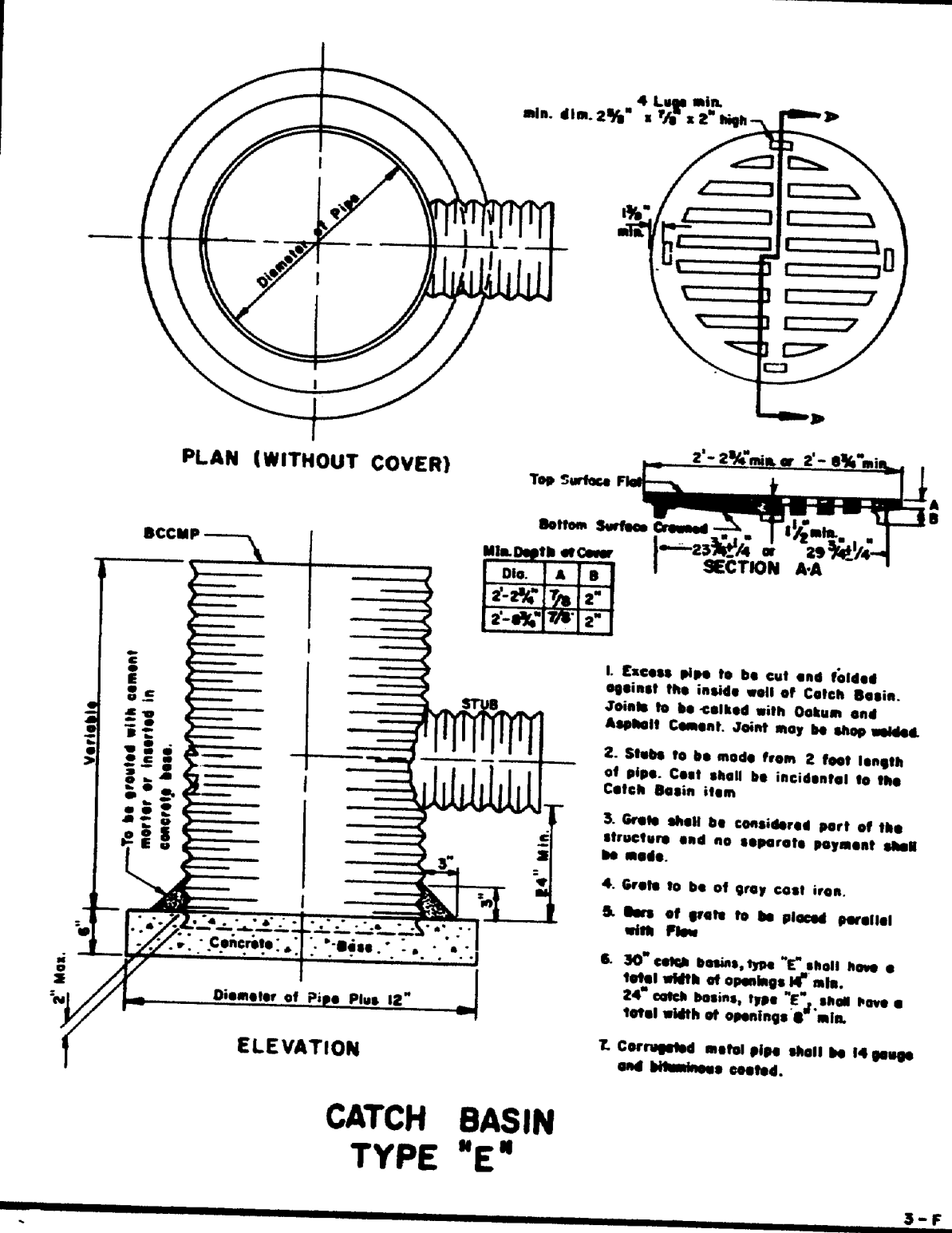
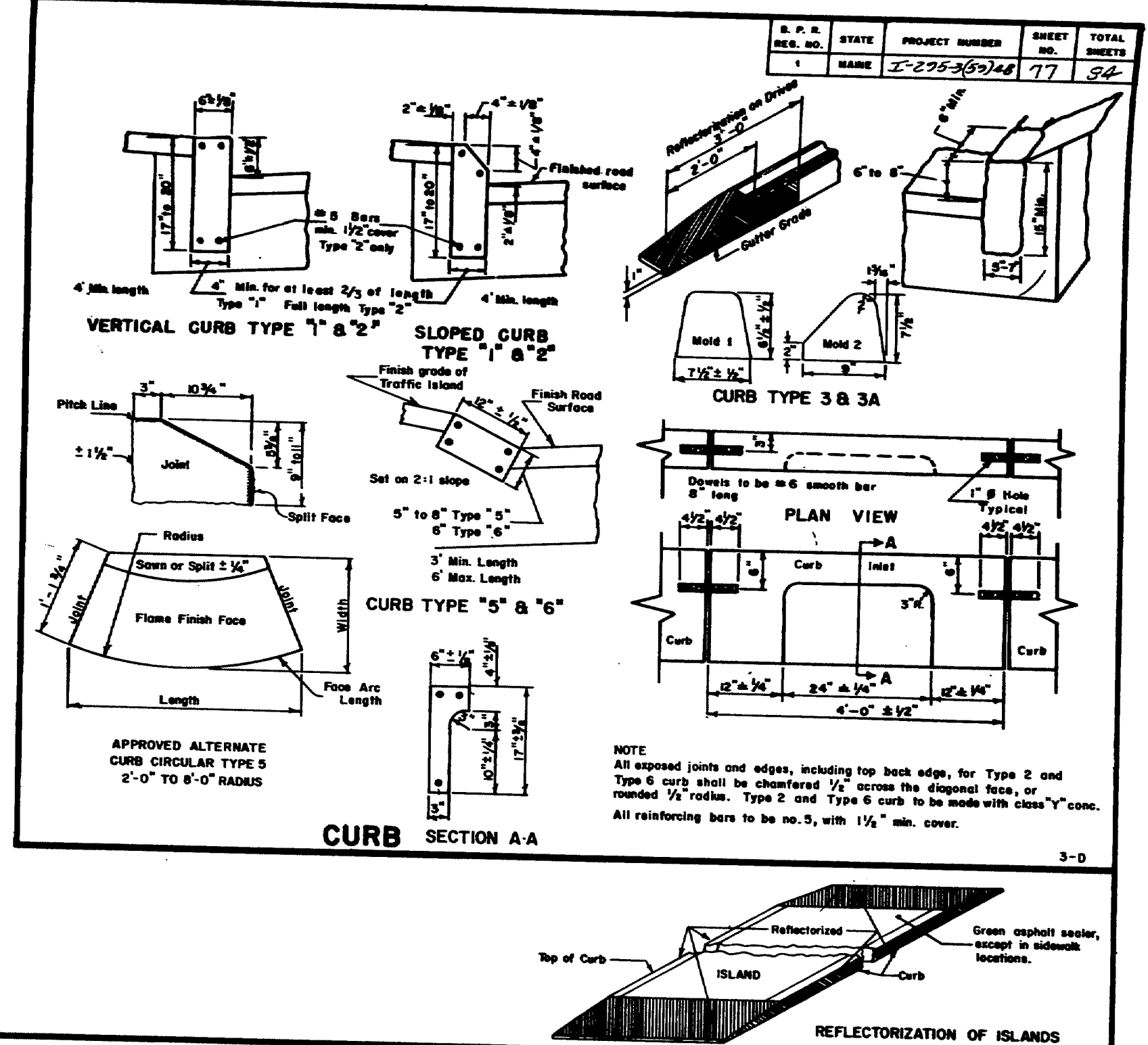
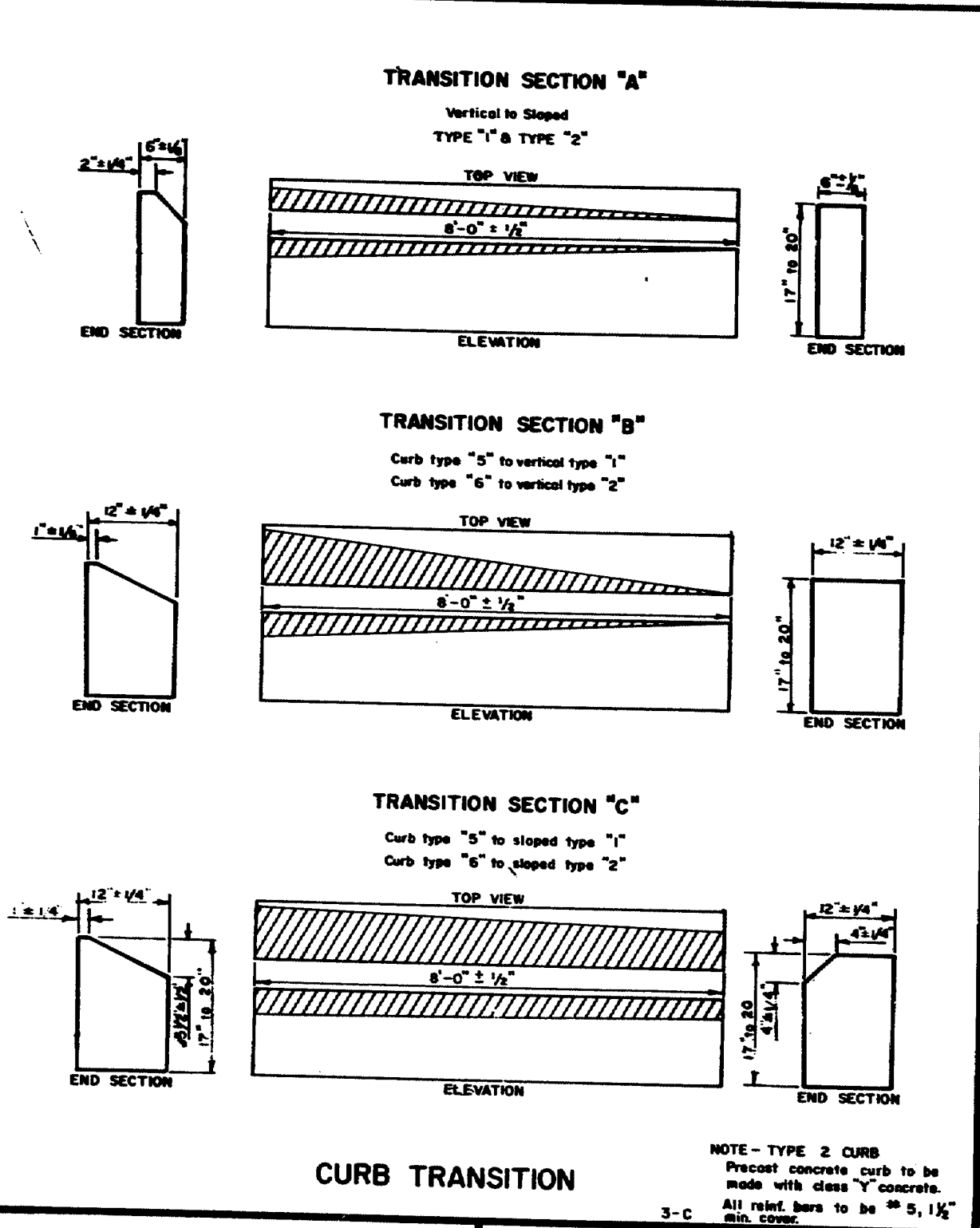
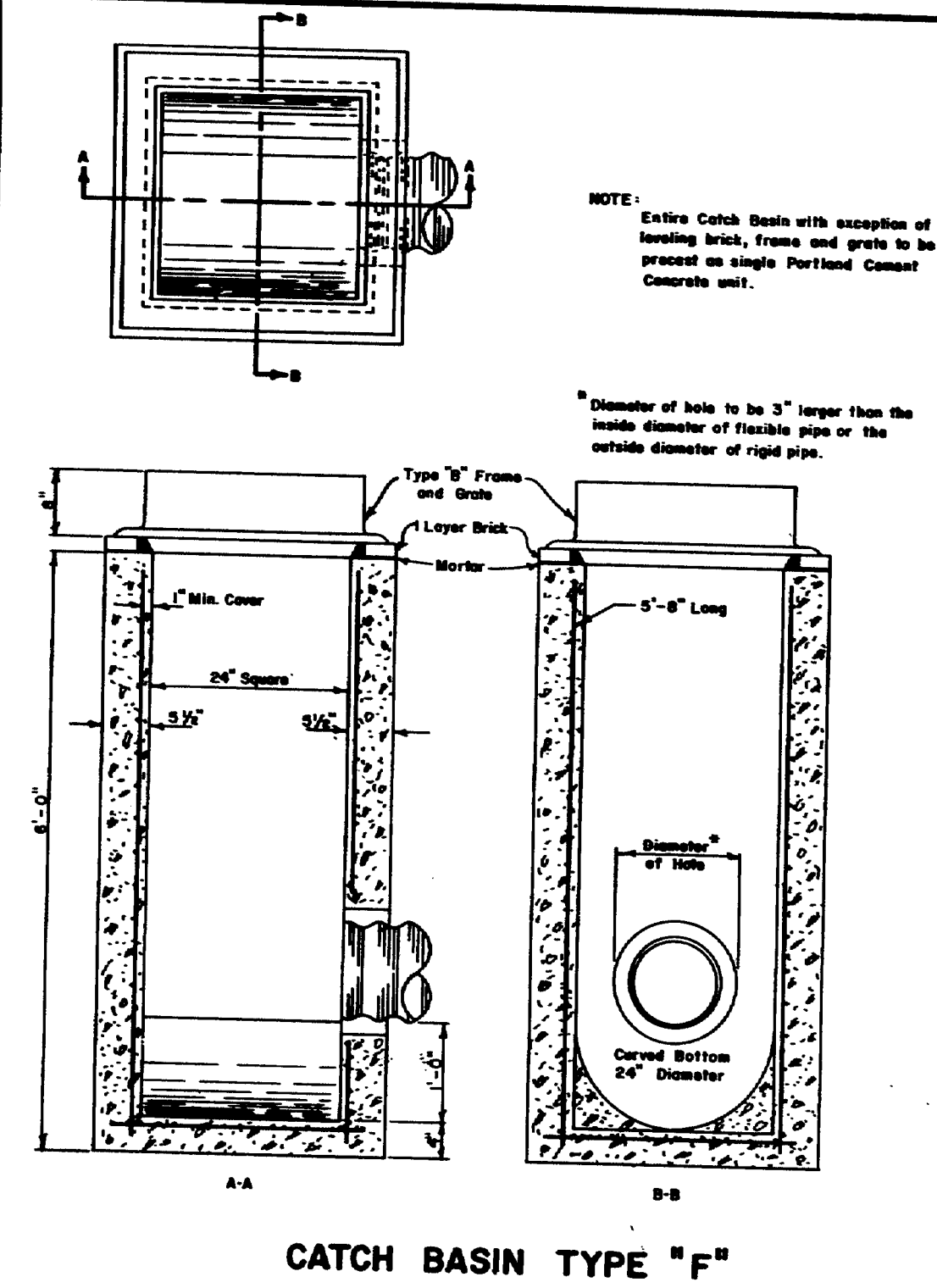
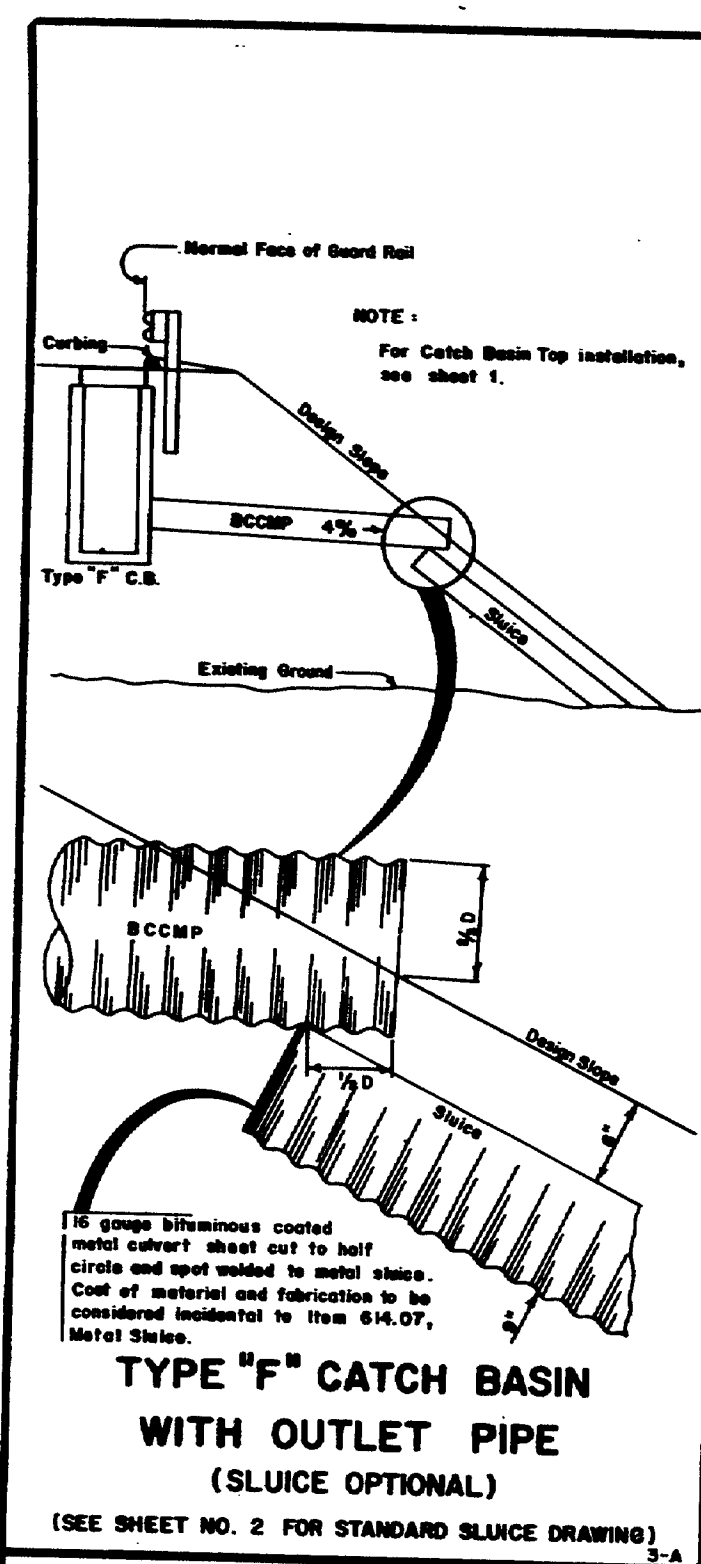
PIPE ARCH		
NOMINAL SIZES	GAUGE	THICKNESS
18" span x 11" rise	16	.060
22" " x 15" "	16	.060
25" " x 16" "	16	.060
29" " x 18" "	14	.075
36" " x 22" "	14	.075
43" " x 27" "	12	.105
50" " x 31" "	12	.105
58" " x 36" "	10	.135
65" " x 40" "	10	.135
72" " x 44" "	8	.164

CMP = Corrugated Metal Pipe
 BCCMP = Bituminous Coated Corrugated Metal Pipe
 CAP = Corrugated Aluminum Pipe
 RCP = Reinforced Concrete Pipe
 Above abbreviations followed by "A" indicate "Arch"
 All RCPA shall be class III
 Minimum thickness, class, and wall types for culvert pipe, unless otherwise designated.

CULVERT PIPE DATA



REVISIONS		MAINE STATE HIGHWAY COMMISSION AUGUSTA, MAINE	
PLATE "F"	9-17-70	STANDARD DETAILS	
PLATE "G"	8-15-71		
PLATE "D"	12-20-71		
		METAL SLUICE - UNDERDRAIN - CULVERT PIPE DATA CULVERT INLET GRATE	
		AUG. 1969	



CURB TYPES (1&2), (5&6) ON CURVES				
RADIUS OF CURVE	LENGTH	PAID FOR AS	STONE IS CUT OR CAST	
0' To 60' Incl.	4' Min.	Circular	Arc To Fit Curve	
Over 60' To 160'	4' To 6'	Straight	Straight Places	
0' To 8' Incl.	2' Min.	Circular	To Fit Curve	
Over 8' To 30' Incl.	12' Min. Chord	Circular	Straight Places, Radial Ends	
Over 30' And Under 160'	2' To 3'	Straight	Straight Places	
160' And Over	3' To 6'	Straight	Straight Places	

TERMINAL CURB SECTION	
Top of Curb	4'-0" Min.
Exposed Face	2'-0" Nominal
Limit of Payment	Limit of Payment
Curb Type 1 or 2	Terminal Section
TERMINAL SECTION TYPE "1" & "2"	
Top of curb Type 5 or 6	11'-0" ±
Edge of Pavement	2'-0" ±
TERMINAL SECTION TYPE "5" & "6" (Use when shown on plans only)	

REVISIONS	
Plate 3-0	12-23-69
Plate 3-F	5-27-70
Plate 3-J	7-15-70
PLATE 30	8-6-71

MAINE STATE HIGHWAY COMMISSION	
AUGUSTA, MAINE	
STANDARD DETAILS	
CURB, DITCHES AND SLOPES, AND CATCH BASINS TYPE "E"	

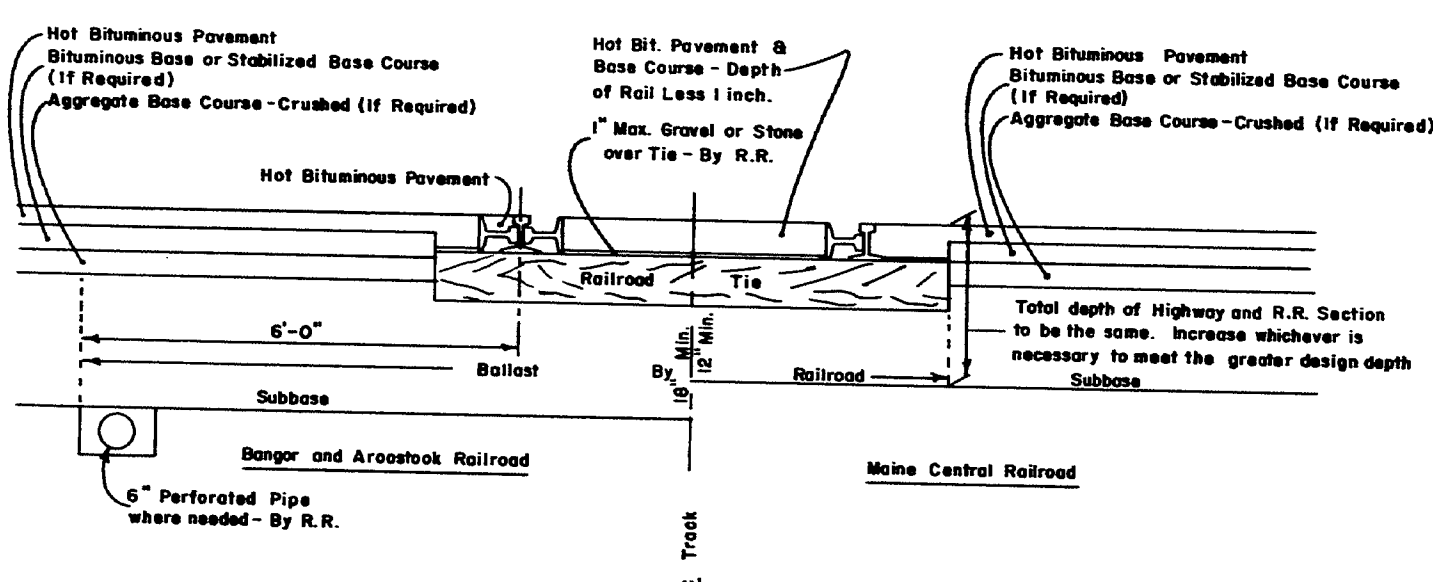
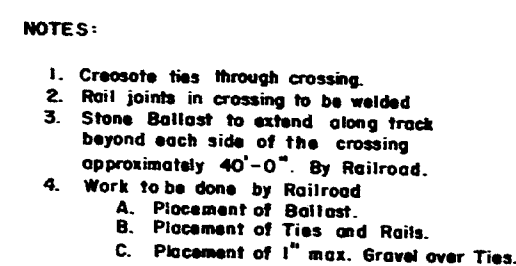
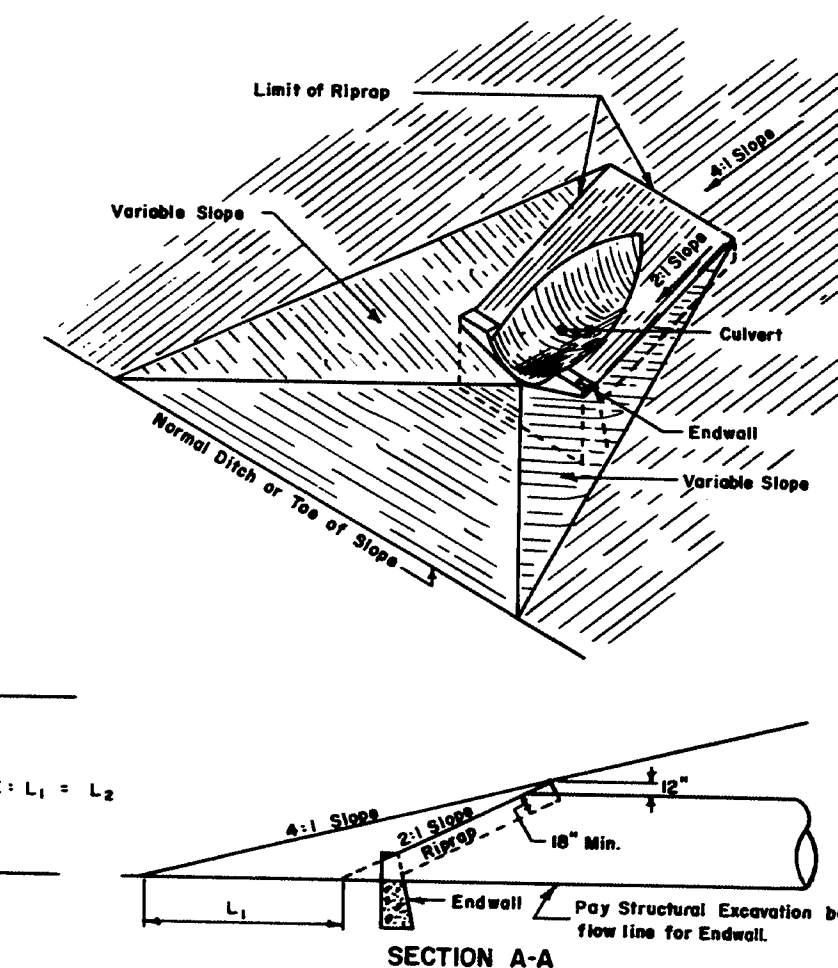
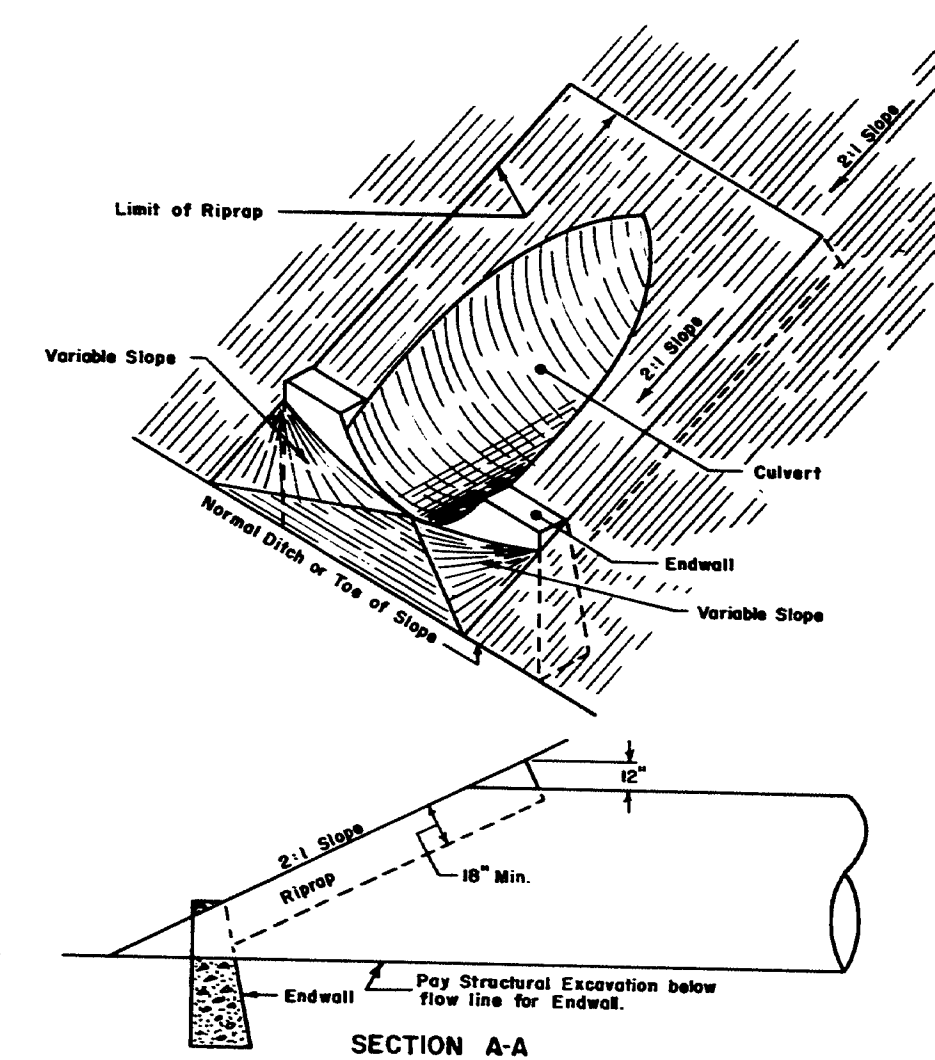


TABLE A		
RIVETED PIPES		
SIZE	NO. HOOK BOLTS REQUIRED	"X" DIMENSION
60"	4	1.5
65"	4	1.5
72"	4	1.5
78"	5	1.5
84"	5	1.5

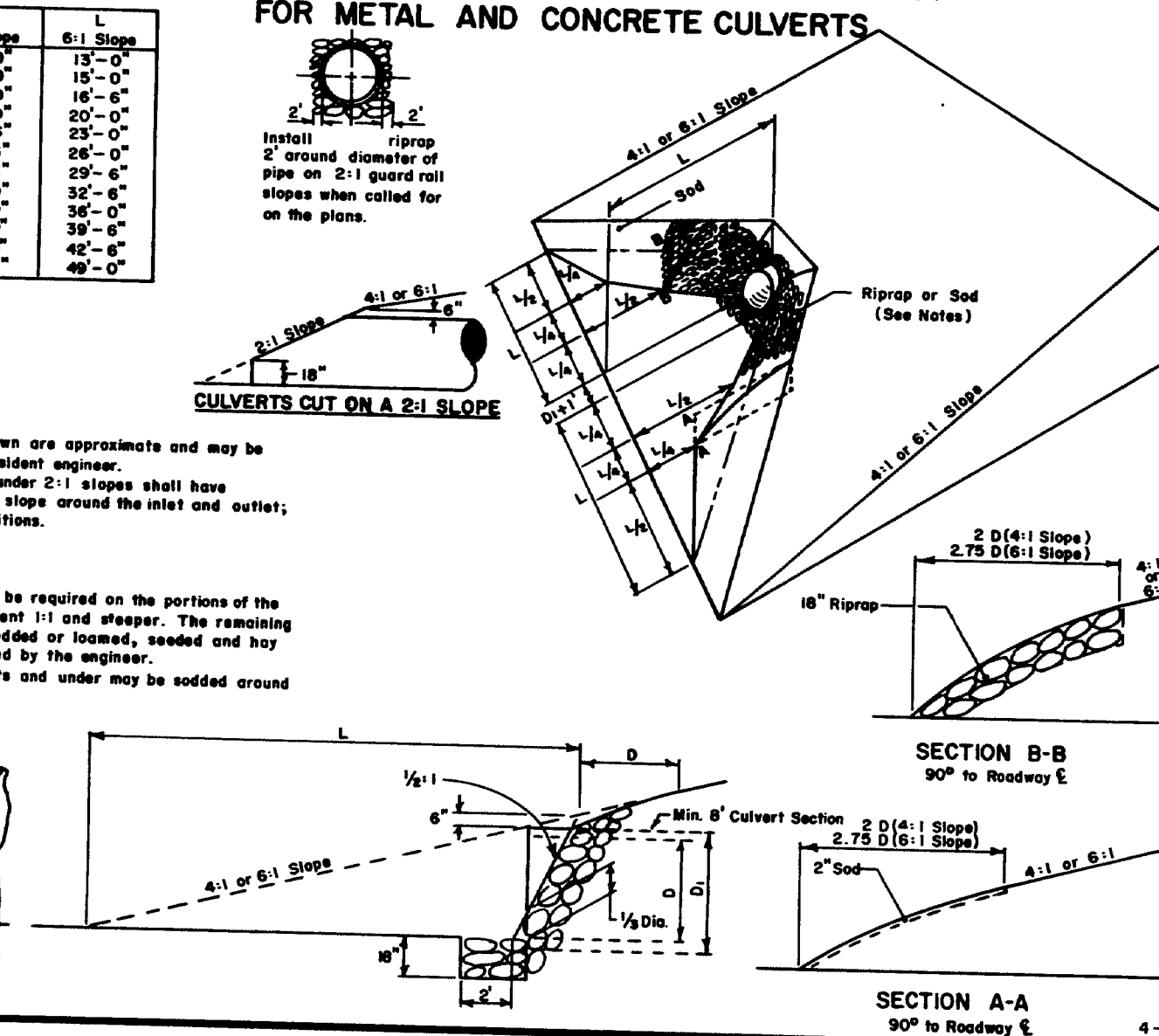
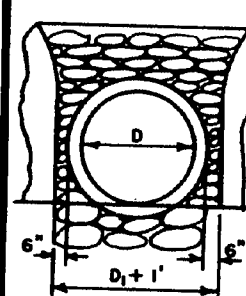
STRUCTURAL PLATE PIPE		
SIZE	NO. HOOK BOLTS REQUIRED	"X" DIMENSION
72"	5	1.5"
78"	5	1.625"
84"	5	1.75"
90"	5	1.875"
96"	6	2.0"
102"	6	2.125"
108"	6	2.25"
114"	7	2.375"
120"	7	2.5"
126"	7	2.625"
132"	8	2.75"
138"	8	2.875"
144"	9	3.0"
150"	9	3.125"
156"	9	3.375
162"	10	3.20"
168"	10	3.3"
174"	10	3.5"
180"	11	3.625"

- ### NOTES
1. Culverts installed under 2:1 slopes shall have riprap laid on 2:1 slopes and no ditch transitions.
 2. Excavation required to grade culvert inlets and outlets as shown will not be paid separately, but will be incidental to the culvert.
 3. Hook bolts are required in metal pipes only and will be incidental to concrete item.
 4. Concrete sidewalk shall be structural concrete class "A" and shall be paid for as item 502.32 structural concrete curb and sidewalks.
 5. All riprap as shown shall be hard laid.

[illegible]

Culvert Diameter	L 4:1 Slope	L 6:1 Slope
18"	9'-0"	13'-0"
21"	10'-0"	15'-0"
24"	11'-0"	16'-6"
30"	13'-0"	20'-0"
36"	15'-6"	23'-0"
42"	17'-6"	26'-0"
48"	19'-6"	29'-0"
54"	22'-0"	32'-6"
60"	24'-0"	36'-0"
66"	26'-0"	39'-6"
72"	28'-6"	42'-6"
84"	32'-6"	49'-0"

- NOTES:**
- 1 The dimensions shown are approximate and may be modified by the resident engineer.
 - 2 Culvert installed under 2:1 slopes shall have riprap laid on 2:1 slope around the inlet and outlet; and no ditch transitions.
 - 3 Riprap will be required on the portions of the culvert and treatment 1:1 and steeper. The remaining portion shall be sodded or loamed, seeded and hay mulched as directed by the engineer.
 - 4 24" diameter culverts and under may be sodded around ends of culvert.

[illegible]

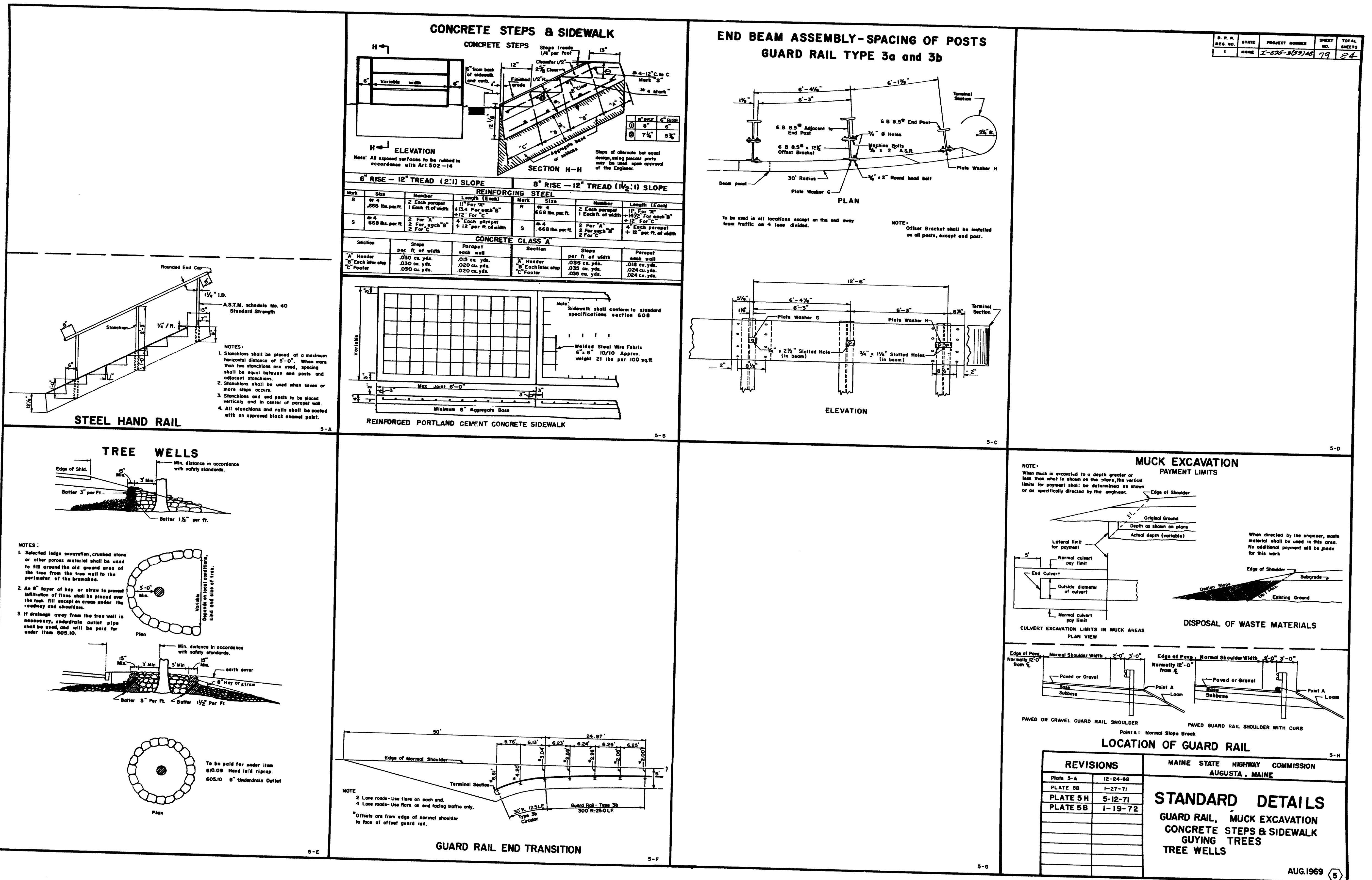
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

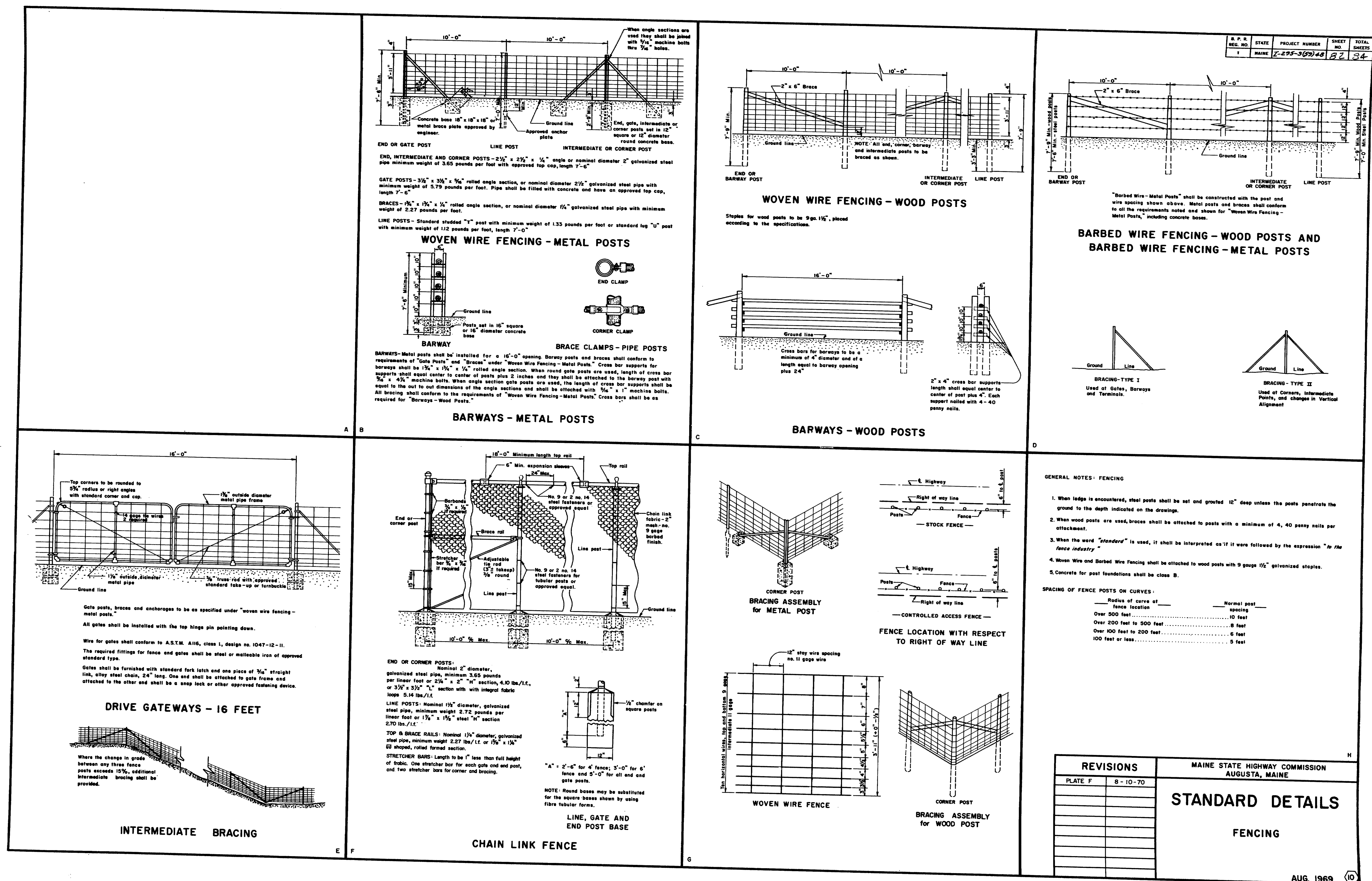
STANDARD DETAILS

CULVERT INLETS & OUTLETS AND TRAPS

AUG. 1969

153-112 PORTLAND-I-295





DRIVE GATEWAYS - 16 FEET

Gate posts, braces and anchorages to be as specified under "woven wire fencing - metal posts."

All gates shall be installed with the top hinge pin pointing down.

Wire for gates shall conform to A.S.T.M. A116, class 1, design no. 1047-12-II.

The required fittings for fence and gates shall be steel or malleable iron of approved standard type.

Gates shall be furnished with standard fork latch and one piece of 3/8" straight link, alloy steel chain, 24" long. One end shall be attached to gate frame and attached to the other end shall be a snap lock or other approved fastening device.

DRIVE GATEWAYS - 16 FEET

INTERMEDIATE BRACING

Where the change in grade between any three fence posts exceeds 15%, additional intermediate bracing shall be provided.

CHAIN LINK FENCE

END OR CORNER POSTS: Nominal 2" diameter, galvanized steel pipe, minimum weight 3.65 pounds per linear foot or 2 1/2" x 2 1/2" x 1/4" section, 4.10 lbs./l.f., or 3 1/2" x 3 1/2" x 1/4" steel "H" section with integral fabric loops 5.14 lbs./l.f.

LINE POSTS: Nominal 1 1/4" diameter, galvanized steel pipe, minimum weight 2.72 pounds per linear foot or 1 1/2" x 1 1/2" steel "H" section 2.70 lbs./l.f.

TOP & BRACE RAILS: Nominal 1 1/4" diameter, galvanized steel pipe, minimum weight 2.27 lbs./l.f. or 1 1/2" x 1 1/2" 60 shaped, rolled formed section.

STRETCHER BARS: Length to be 1" less than full height of fabric. One stretcher bar for each gate and end post, and two stretcher bars for corner and bracing.

CHAIN LINK FENCE

LINE, GATE AND END POST BASE

NOTE: Round bases may be substituted for the square bases shown by using fibre tubular forms.

WOVEN WIRE FENCE

CORNER POST BRACING ASSEMBLY for METAL POST

FENCE LOCATION WITH RESPECT TO RIGHT OF WAY LINE

12" stay wire spacing no. 11 gage wire

WOVEN WIRE FENCE

CORNER POST BRACING ASSEMBLY for WOOD POST

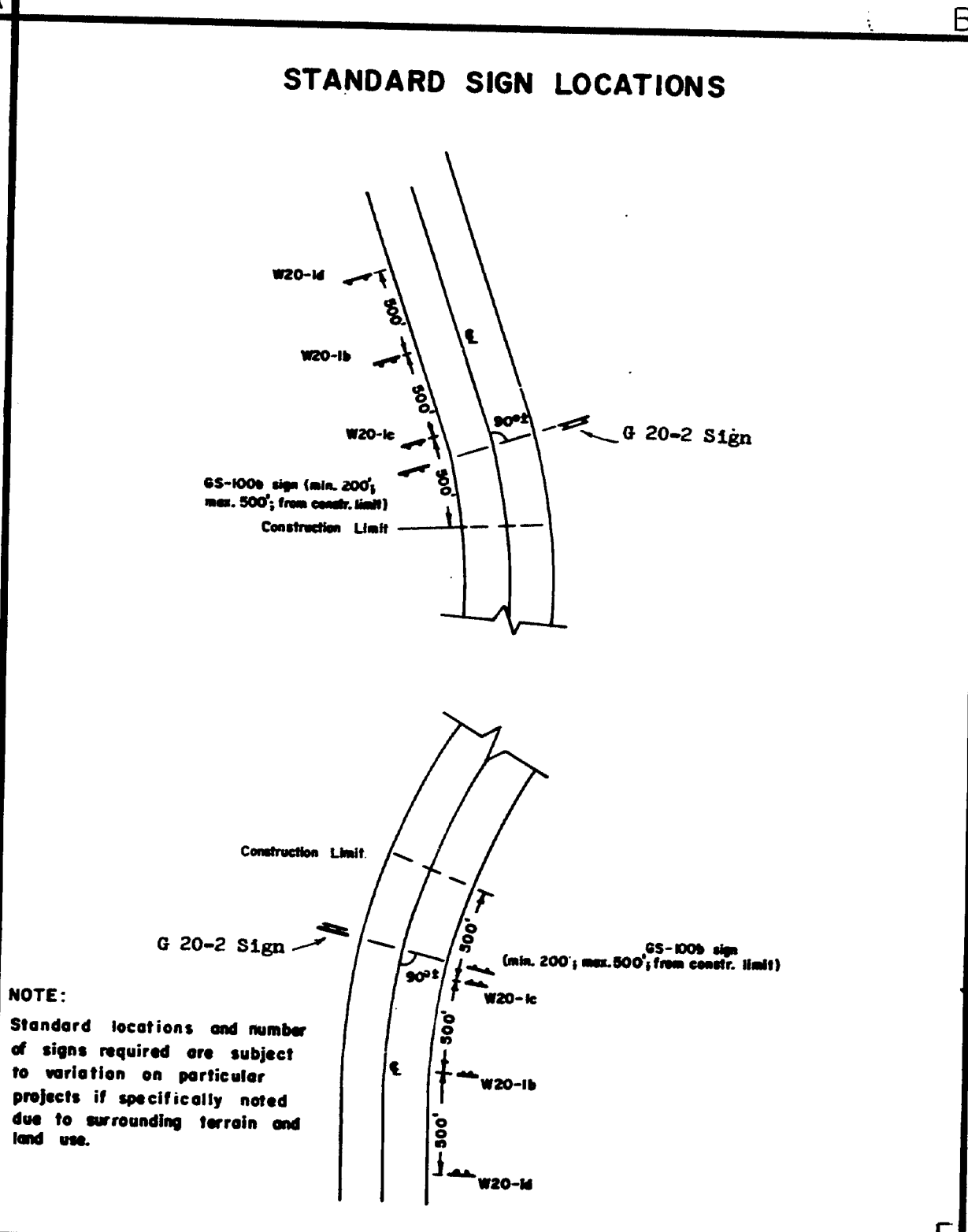
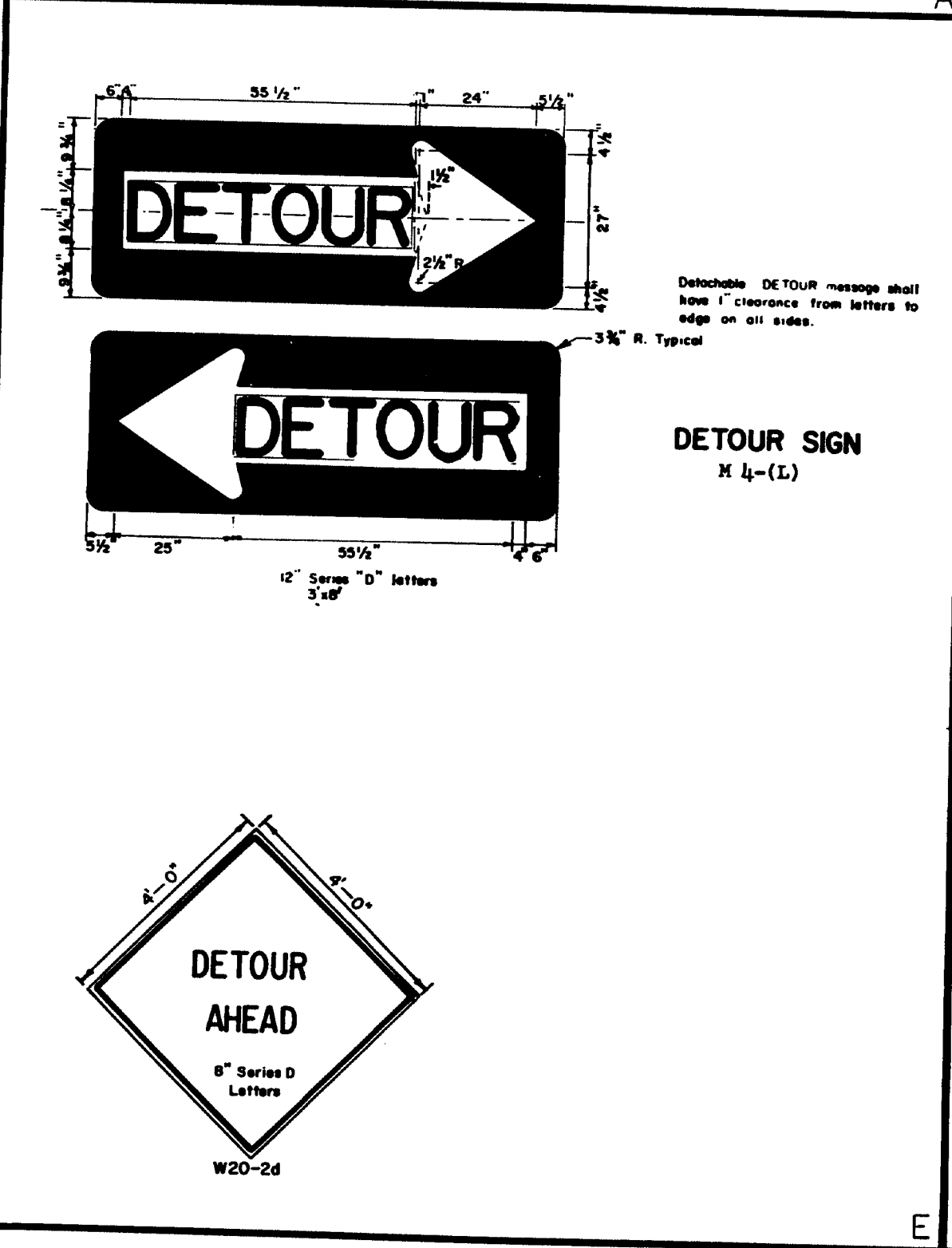
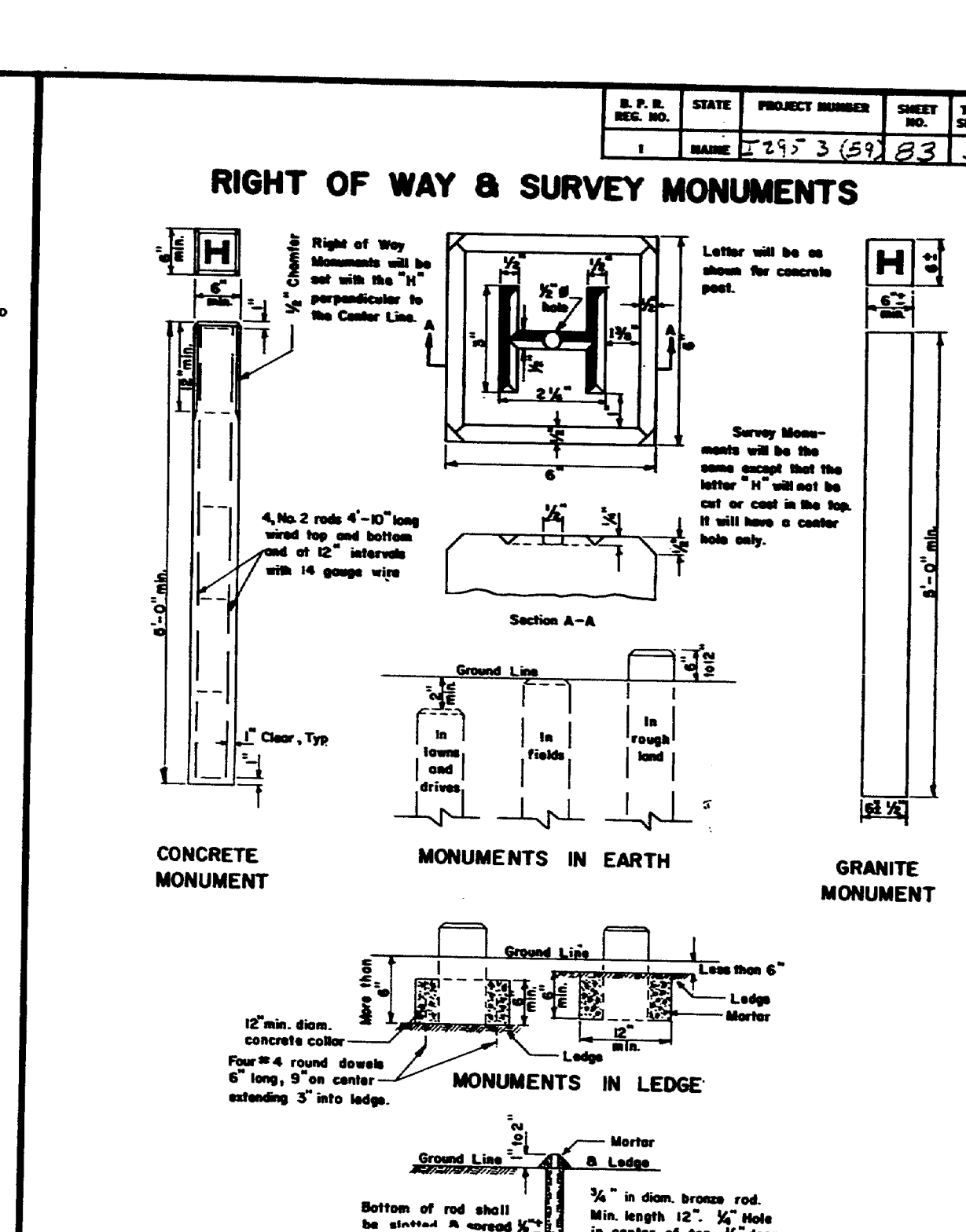
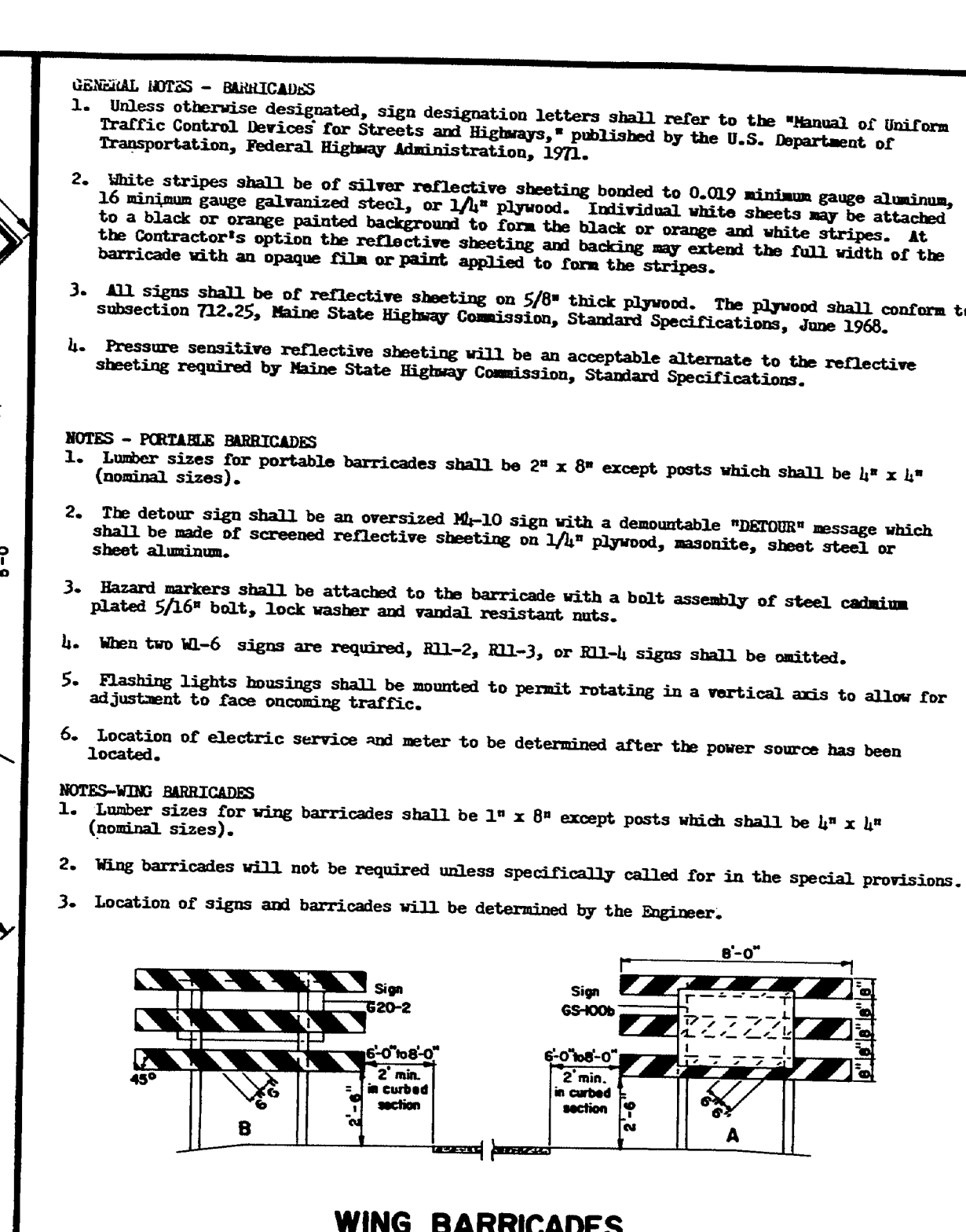
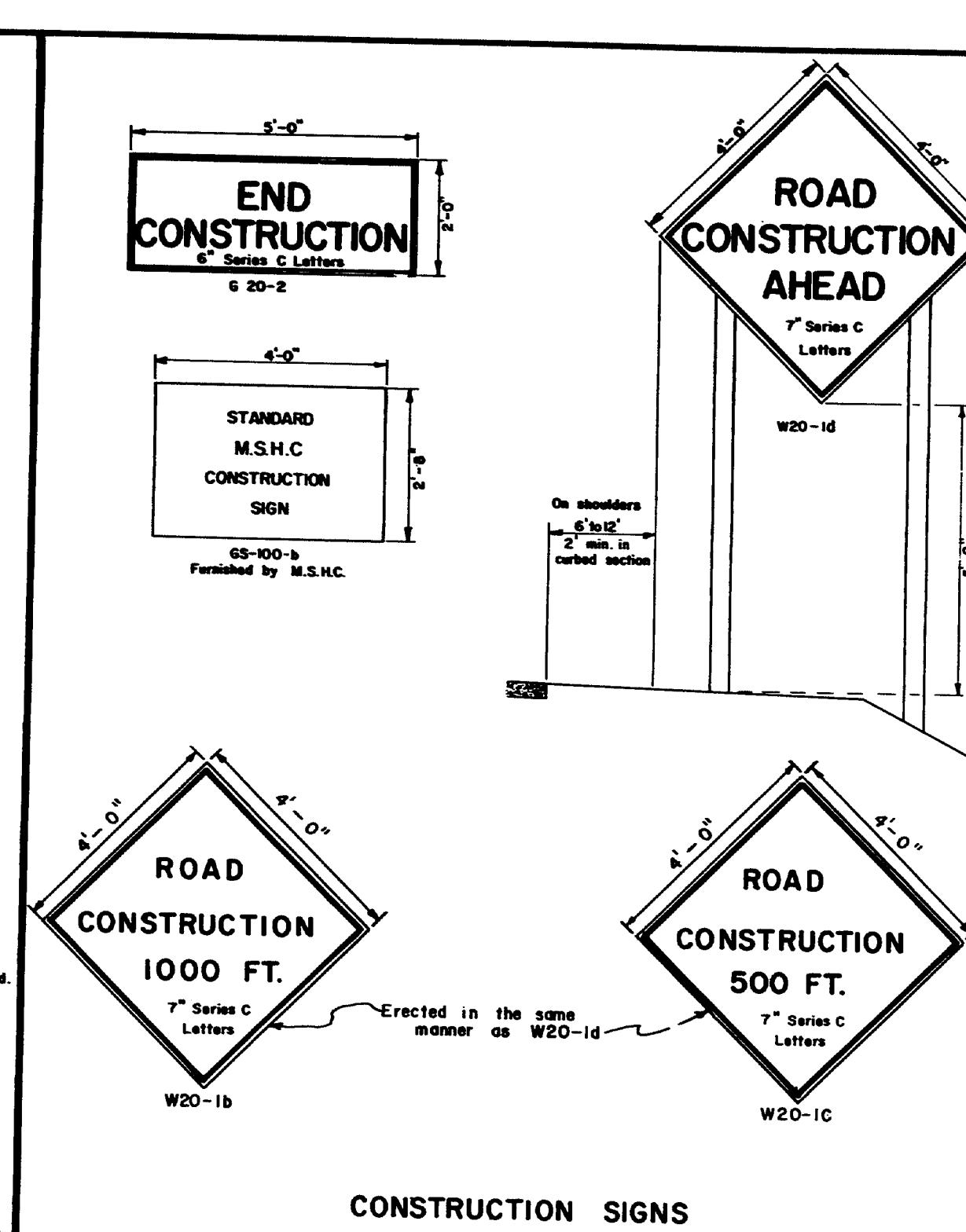
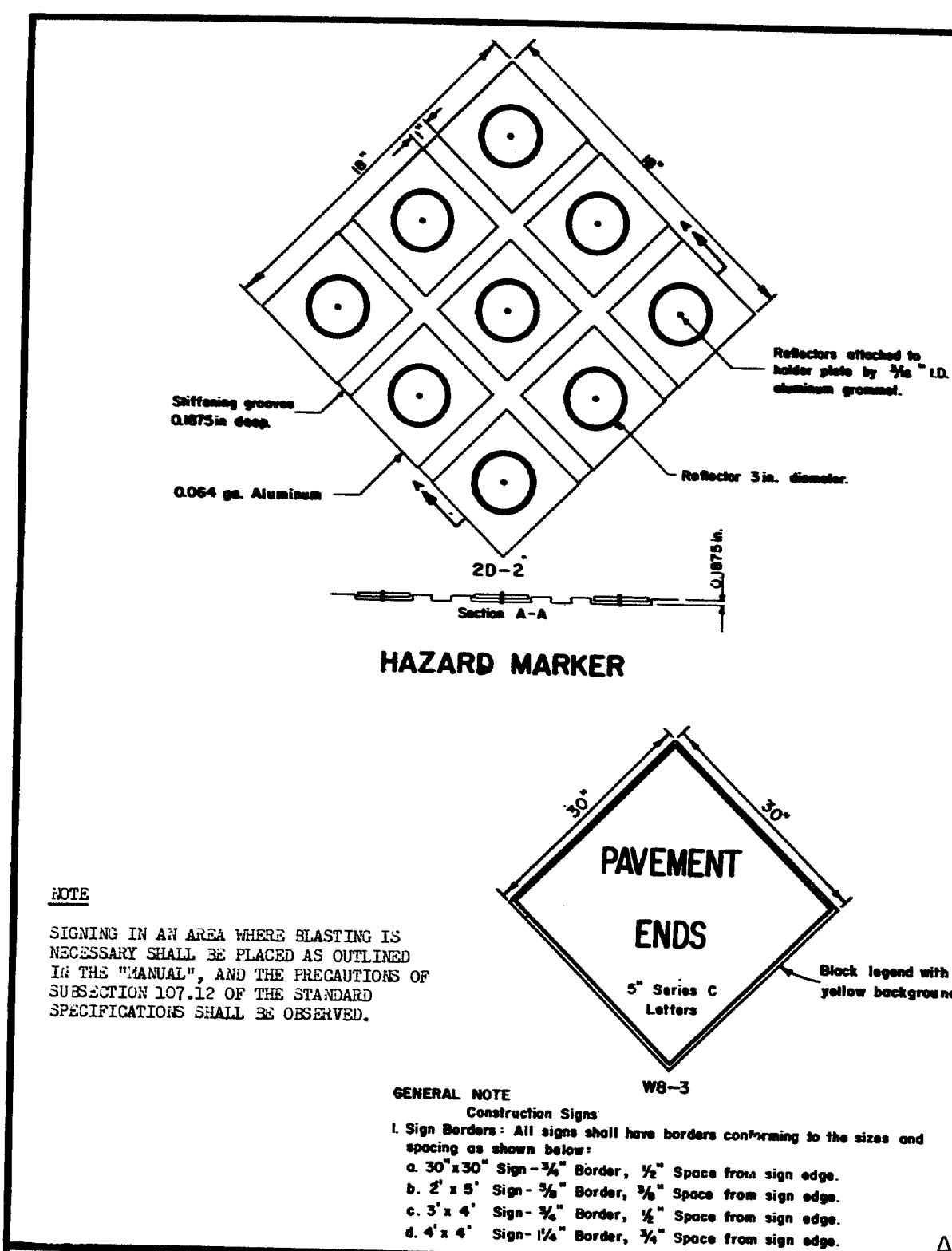
GENERAL NOTES: FENCING

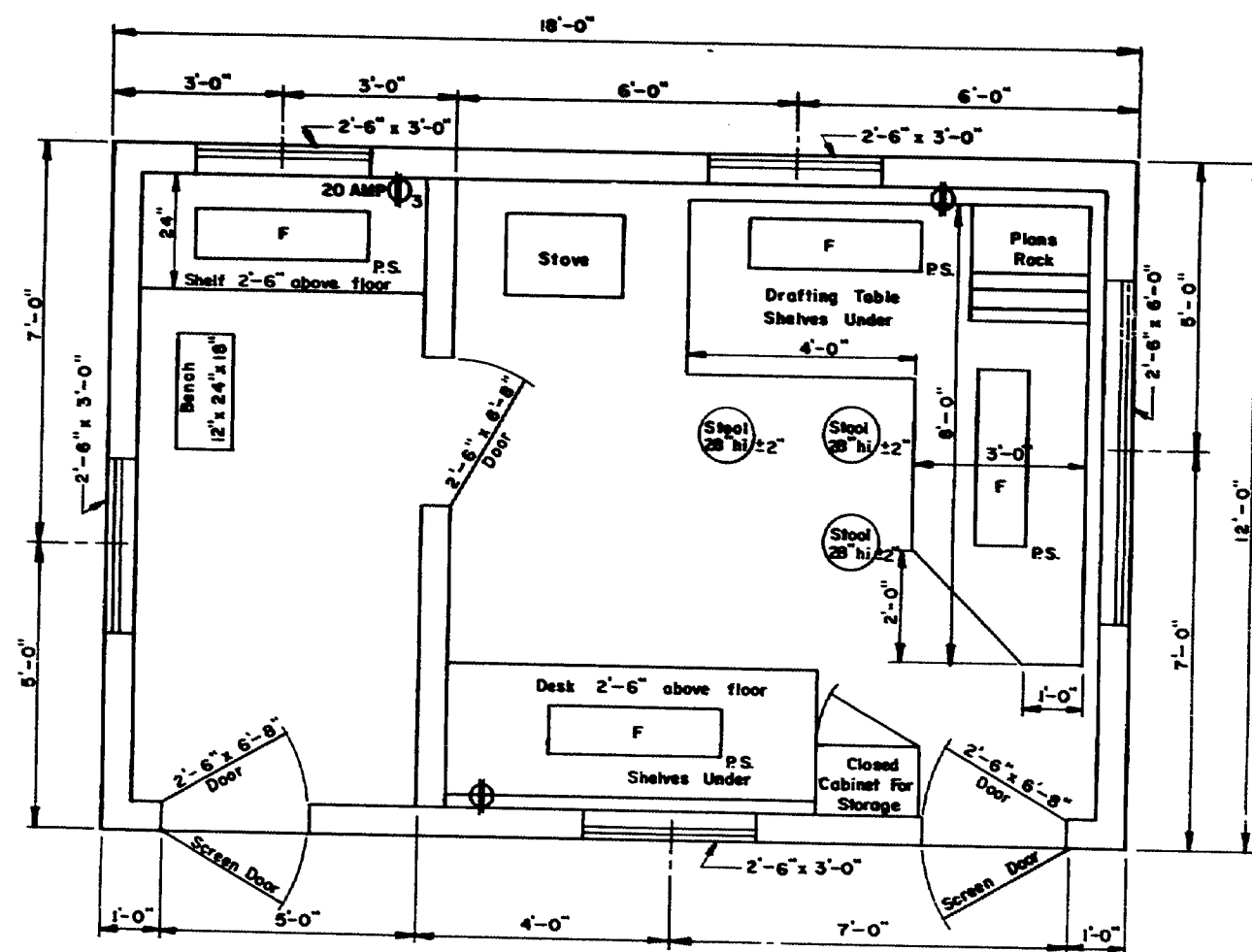
- When ledge is encountered, steel posts shall be set and grouted 12" deep unless the posts penetrate the ground to the depth indicated on the drawings.
- When wood posts are used, braces shall be attached to posts with a minimum of 4, 40 penny nails per attachment.
- When the word "standard" is used, it shall be interpreted as if it were followed by the expression "to the fence industry."
- Woven Wire and Barbed Wire Fencing shall be attached to wood posts with 9 gage 1 1/2" galvanized staples.
- Concrete for post foundations shall be class B.

SPACING OF FENCE POSTS ON CURVES:

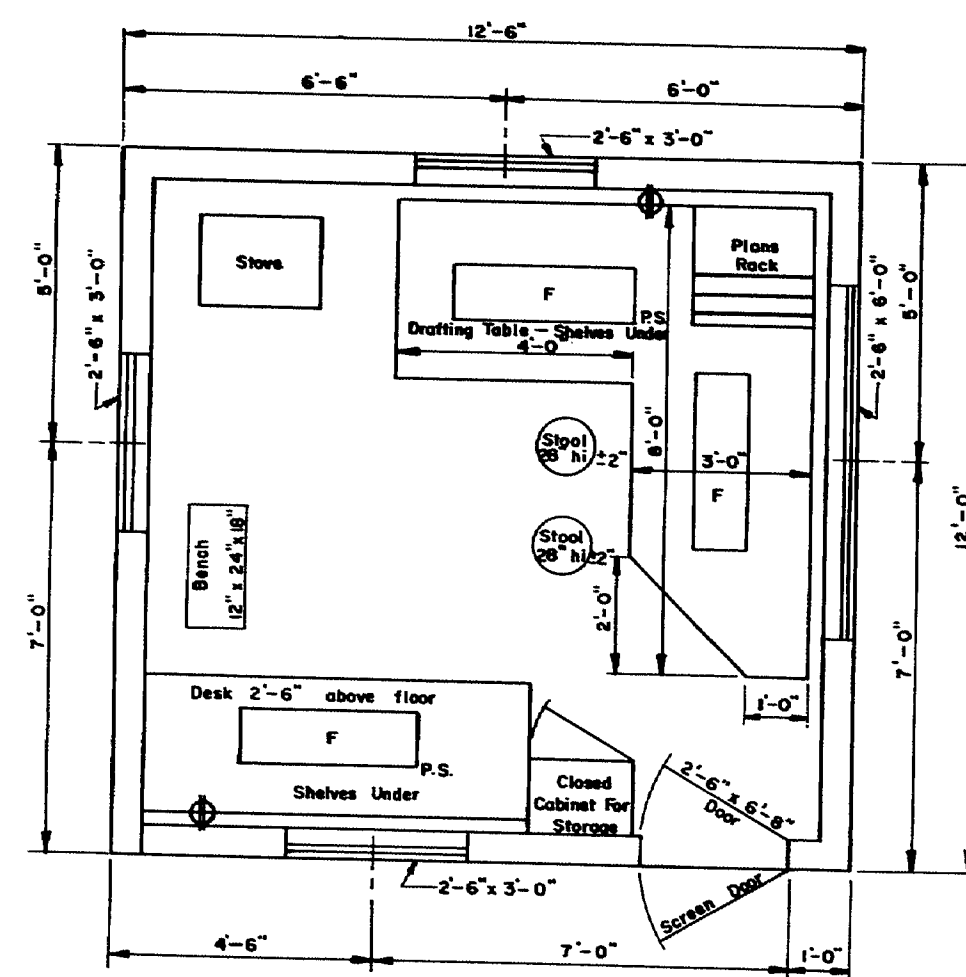
Radius of curve at fence location	Normal post spacing
Over 500 feet	10 feet
Over 200 feet to 500 feet	8 feet
Over 100 feet to 200 feet	6 feet
100 feet or less	5 feet

REVISIONS		MAINE STATE HIGHWAY COMMISSION AUGUSTA, MAINE	
PLATE F	8-10-70	STANDARD DETAILS FENCING	

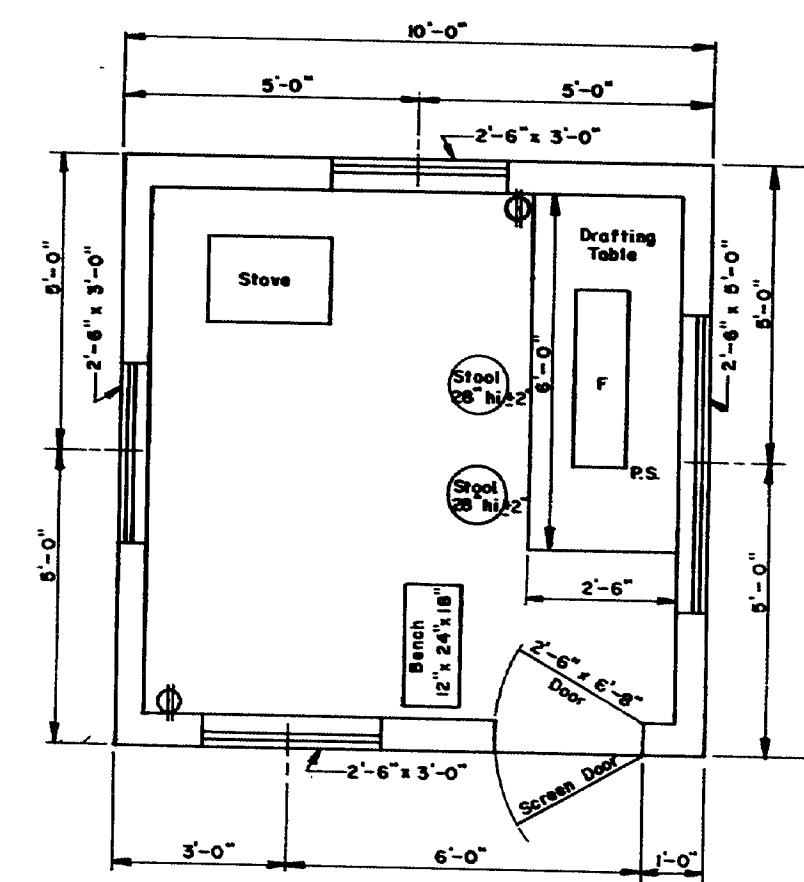




FLOOR PLAN
TYPE "A"

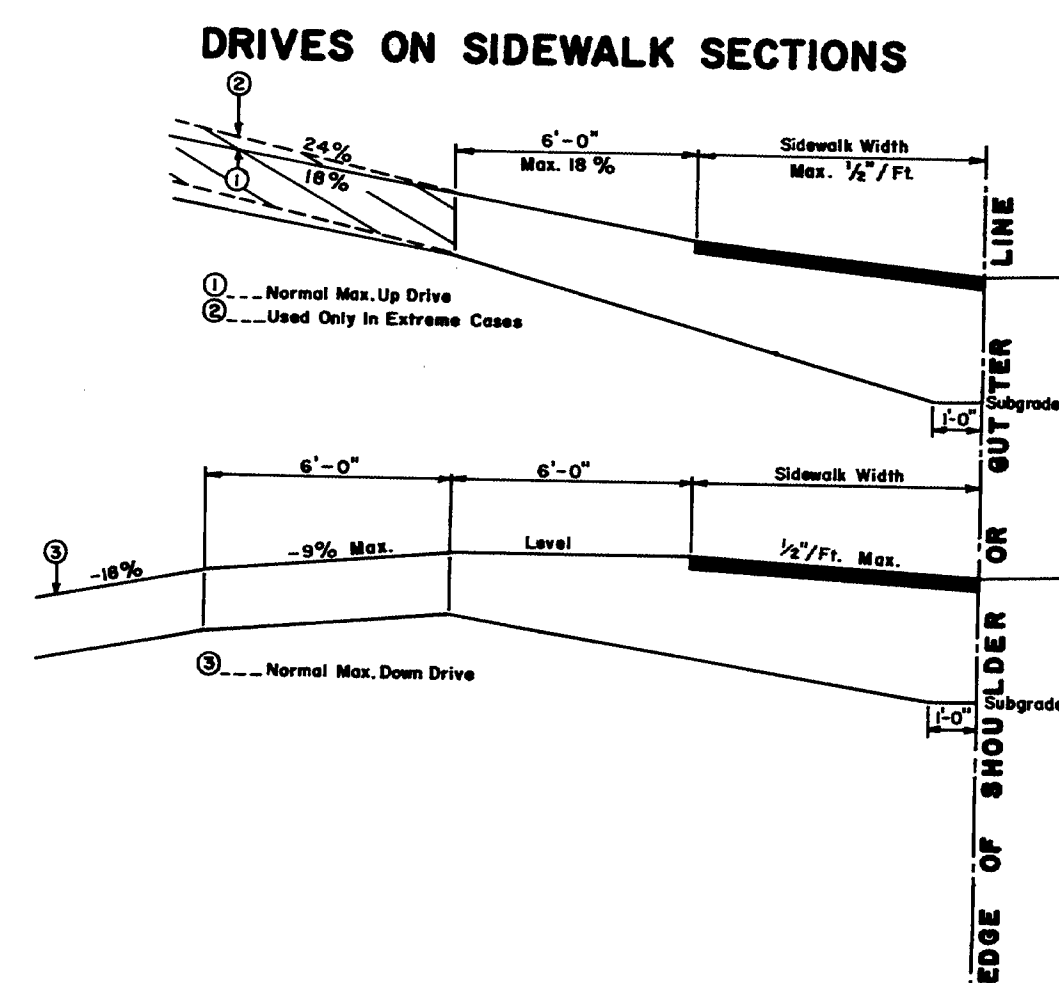


FLOOR PLAN
TYPE "B"



FLOOR PLAN
TYPE "C"

- GENERAL NOTES**
- Drafting table shall be 3'-4" high at front edge and placed 2" from studs to allow prints to hang down behind table when in use.
 - Shelves under desk shall be constructed to receive 11 1/2" x 14" x 25" transfiles.
 - Windows shall be double hung.
 - Stovepipe shall not be in direct contact with combustible material; the pipe shall be surrounded with at least 6" of fireproof material.
 - Continuous 110 volt 60 cycle electric service shall be supplied.
 - The engineer may rearrange the items shown on the plan views during construction of the field office.
 - FURNISHINGS TO BE SUPPLIED:**
 - Straight back chairs for types A and B
 - Bench for types A, B & C
 - Stool for type A
 - Stools for types B & C
 - SYMBOLS:**
 - F Florescent lights (2 light, rapid start 48" strips and 40 watt bulbs.)
 - P.S. Pull switch
 - ⊕ Duplex wall outlet—15 amp unless otherwise noted
 - ⊕ Triplex Wall Outlet
 - For the Type "A" Field Office one clean 55 gal. drum shall be supplied, installed on a suitable rack and equipped with a spigot suitable for drawing off water. The drum shall be furnished with water at all times.

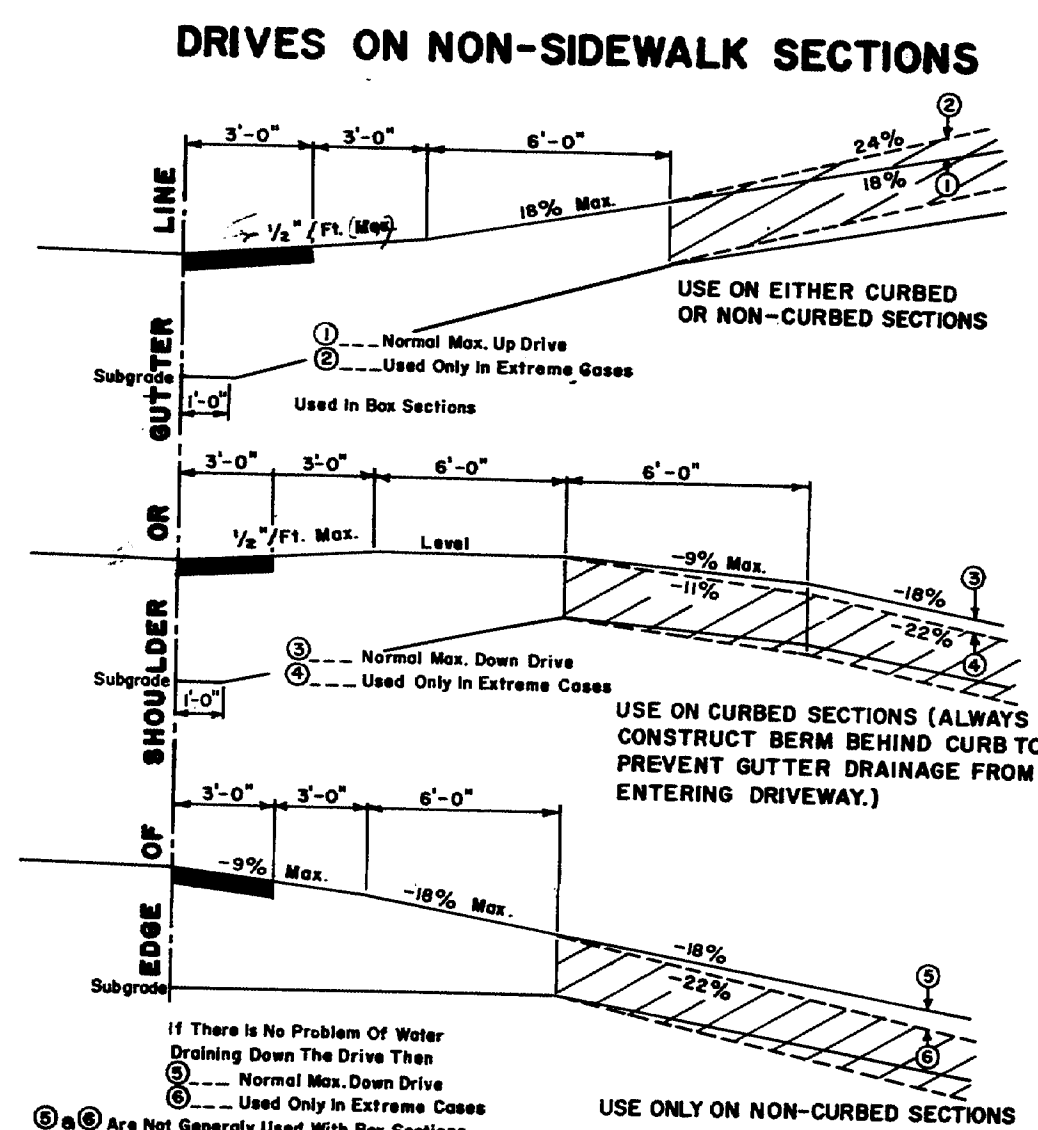


GENERAL NOTES

- The sidewalk width shall be paved in all cases.
- All residential or commercial drives over 10% to be paved.

NOTES ON MAXIMUM DRIVEWAY PROFILES

- These profiles are a guide for the majority of cases, but should be field checked when the main line grade is steep (4% to 6% or greater) or the angle of approach to the drive is unusual.
- Generally the majority of drives on a project will be built with flatter profiles than these maximum cases.
- When grading drives which are flatter than the maximum profiles the following rule of thumb should be used, do not exceed a grade % change of more than 9% in a 6 foot increment of driveway length. This applies to both up and down profiles.

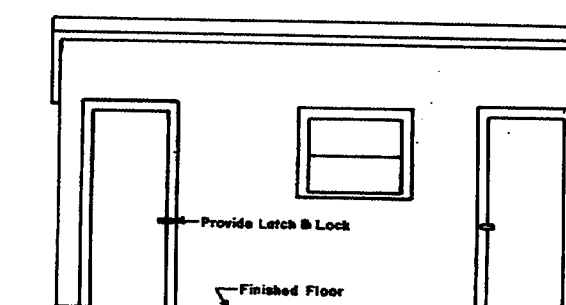


GENERAL NOTES

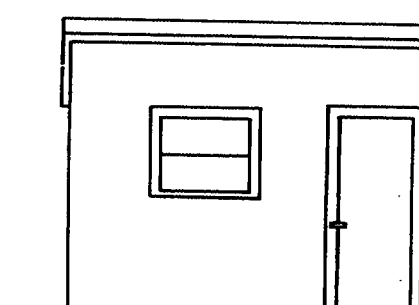
- The first 3' shown as pavement shall be paved only when abutting a paved area.
- All residential or commercial drives over 10% to be paved.

NOTES ON MAXIMUM DRIVEWAY PROFILES

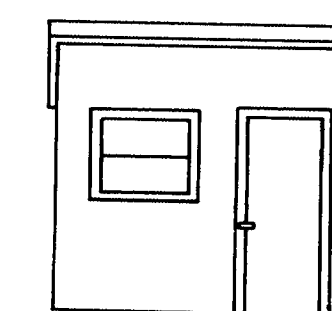
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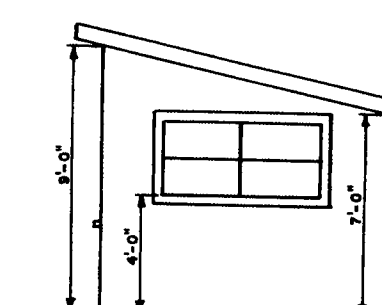
FRONT ELEVATION
TYPE "A"



FRONT ELEVATION
TYPE "B"



FRONT ELEVATION
TYPE "C"



SIDE ELEVATION
TYPES "A" "B" & "C"

REVISIONS

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

DRIVEWAY DETAILS
FIELD OFFICES
TESTING LABORATORY

AUG. 1969

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