

STATE OF MAINE STATE HIGHWAY COMMISSION

PLANS

SIDNEY KENNEBEC COUNTY MAINE FEDERAL AID INTERSTATE PROJECT NO. I-95-6(7) III

TOTAL LENGTH 2.443 MILES

SCALES { PLAN 1 IN. = 100 FT.
PROFILE { HOR. 1 IN. = 100 FT.
VER. 1 IN. = 10 FT.
CROSS SECTIONS 1 IN. = 10 FT.

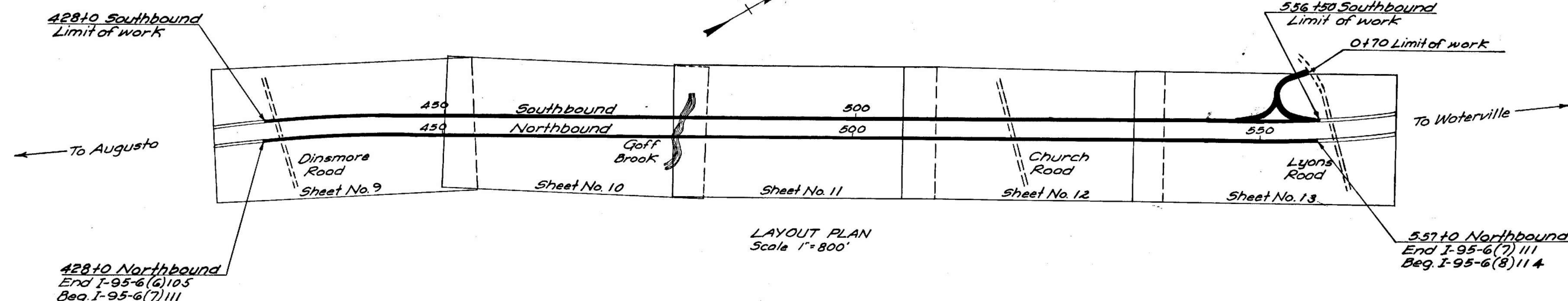
CONVENTIONAL SIGNS

STATE OR NATIONAL LINE	---	SURVEY LINE	—+—
COUNTY LINE	----	CULVERT	—+—+—
TOWN LINE	-----	DROP INLET	—+—+—+—
UNFENCED PROPERTY	-----	TROLLEY POLE	—+—+—+—+—
FENCE	-----	POWER POLE	—+—+—+—+—+—
RIGHT OF WAY LINE	=====	TEL. POLE	—+—+—+—+—+—+—
TRAVELED WAY	=====	MARSH	—+—+—+—+—+—+—+—
RAILROAD	=====	TREES	—+—+—+—+—+—+—+—+—
RETAINING WALL	=====	STONE WALL	—+—+—+—+—+—+—+—+—+—

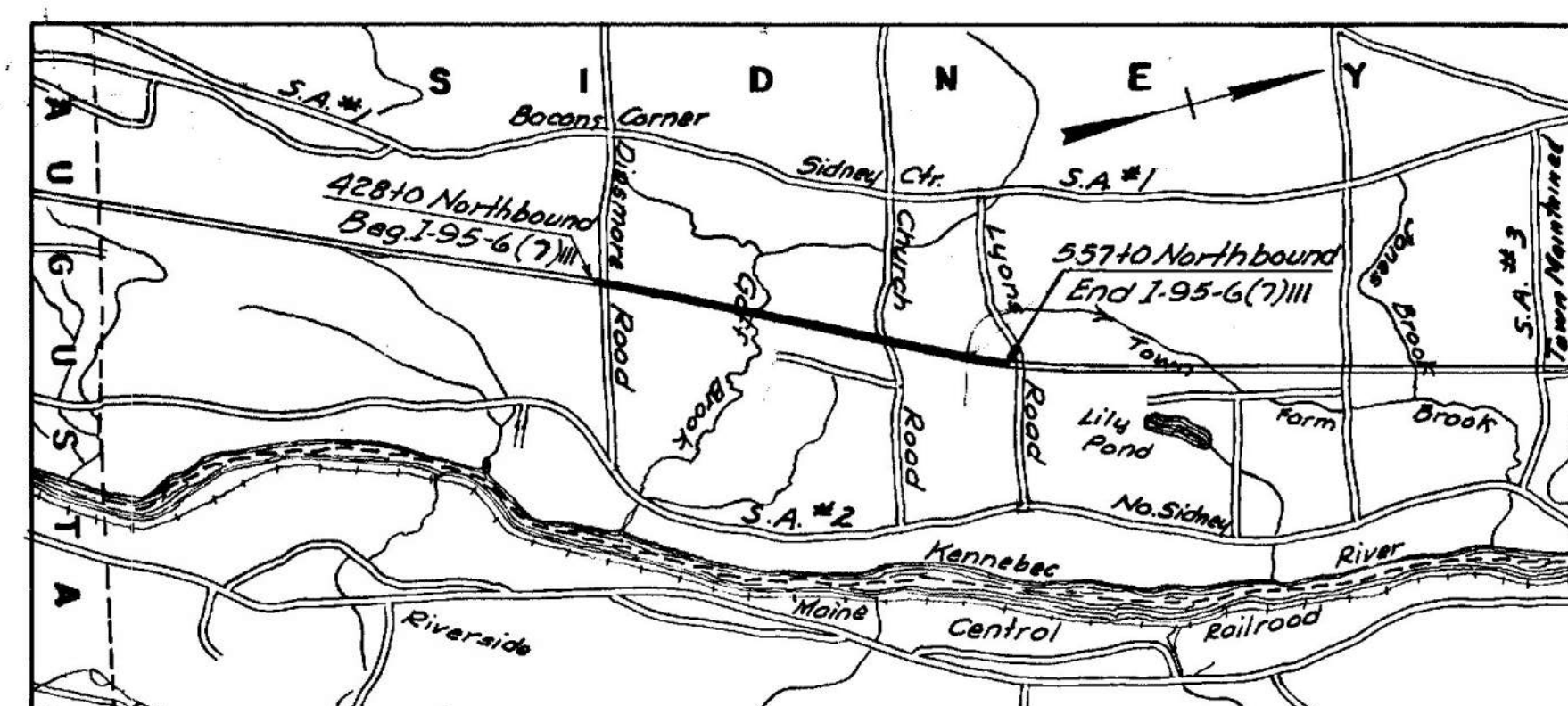
INDEX OF SHEETS

SHEET NO. 1	TITLE PAGE	STA. 428+00 TO 557+00
SHEET NO. 2	TYPICAL SECTIONS	
SHEET NO. 3	QUANTITIES	
SHEET NO. 4 THRU 6	STANDARD DETAILS	
SHEET NO. 9	PLAN AND PROFILE	STA. 428+00 TO 557+00
SHEET NO. 15	CROSS-SECTIONS	STA. 428+00 TO 557+00
SHEET NO. 7	BRIDGES - BOX CULVERT	STA. 478+78 N.B. - 479+45 S.B.
SHEET NO.	SPECIAL DETAILS	

Assume 748 to Br MAINT.



A.D.T. (1960) 7260
A.D.T. (1980) 9900
D.H.V. 1485
D. 65%
T. 15%
V. 60



A Portion of Kennebec County
Scale 1 inch=1 mile

NOTE: - All work contemplated under this contract to be governed by and in conformity with the Specifications adopted January 1956 except as modified on these plans and in the special provisions.

APPROVED:
MAINE STATE HIGHWAY COMMISSION

David W. Stearns
CHAIRMAN
George H. Thibault
CHIEF ENGINEER
W. L. Williams
DIVISION ENGINEER

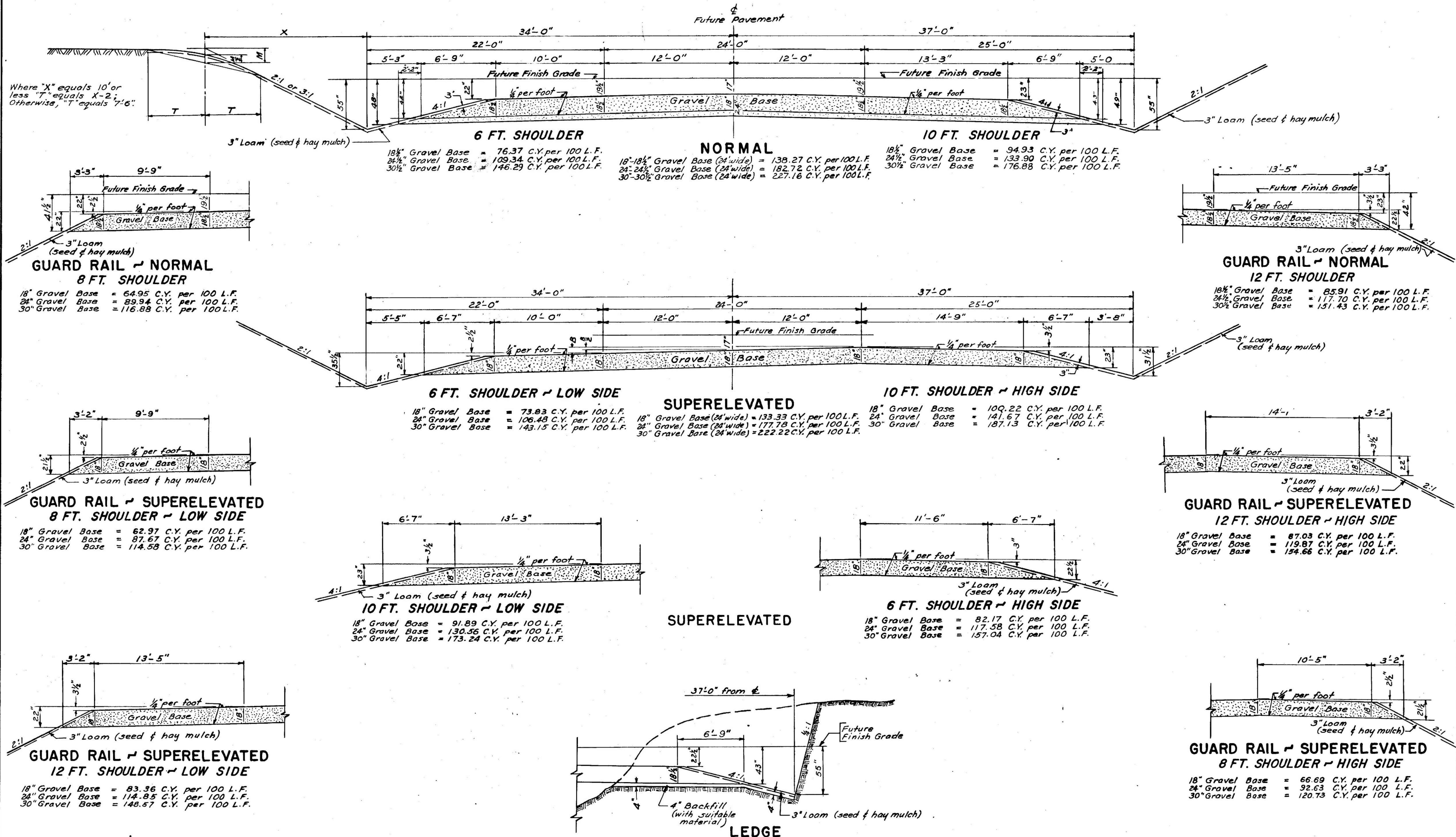
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 1

APPROVED:

DIVISION ENGINEER DATE

STAGE CONSTRUCTION = GRADING AND GRAVEL BASE

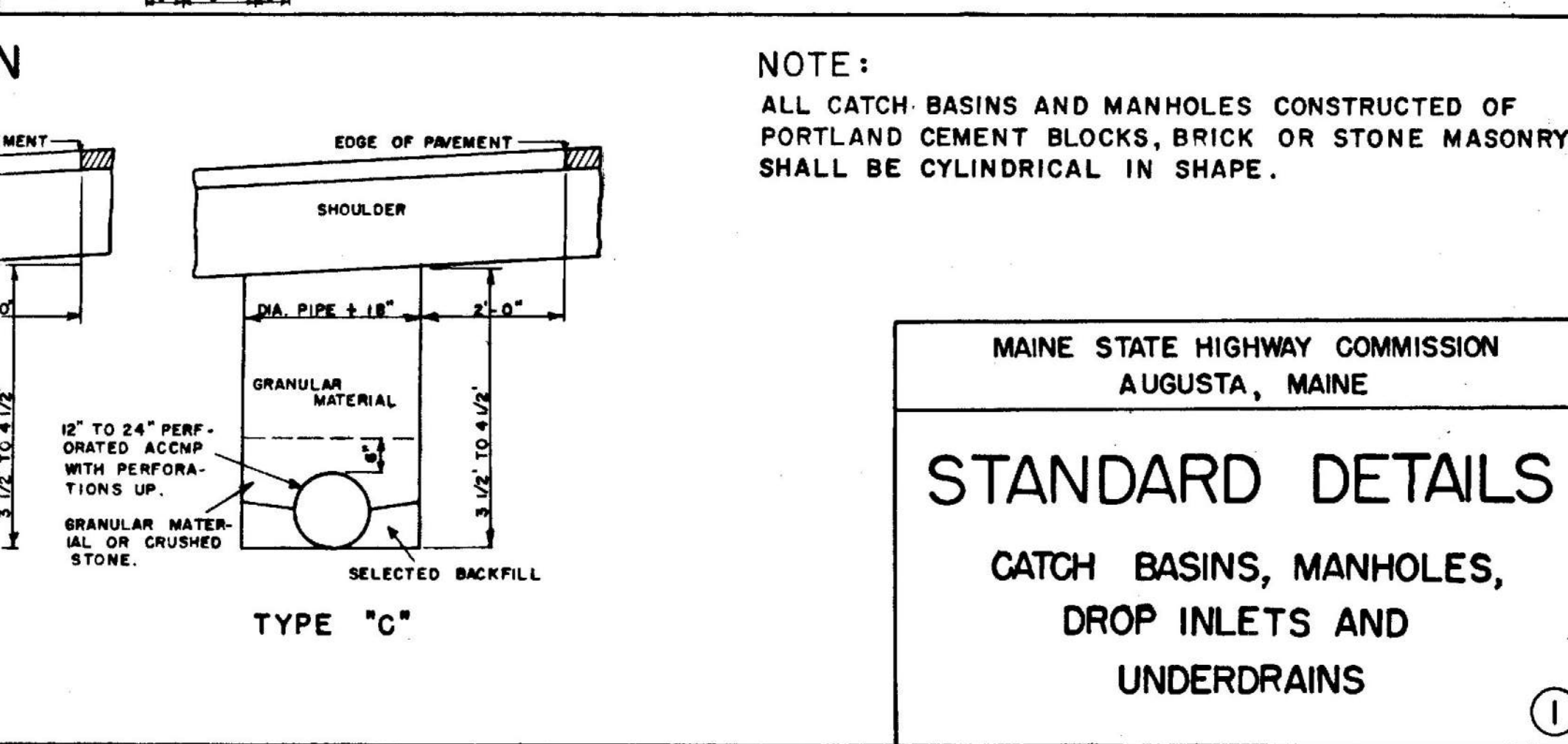
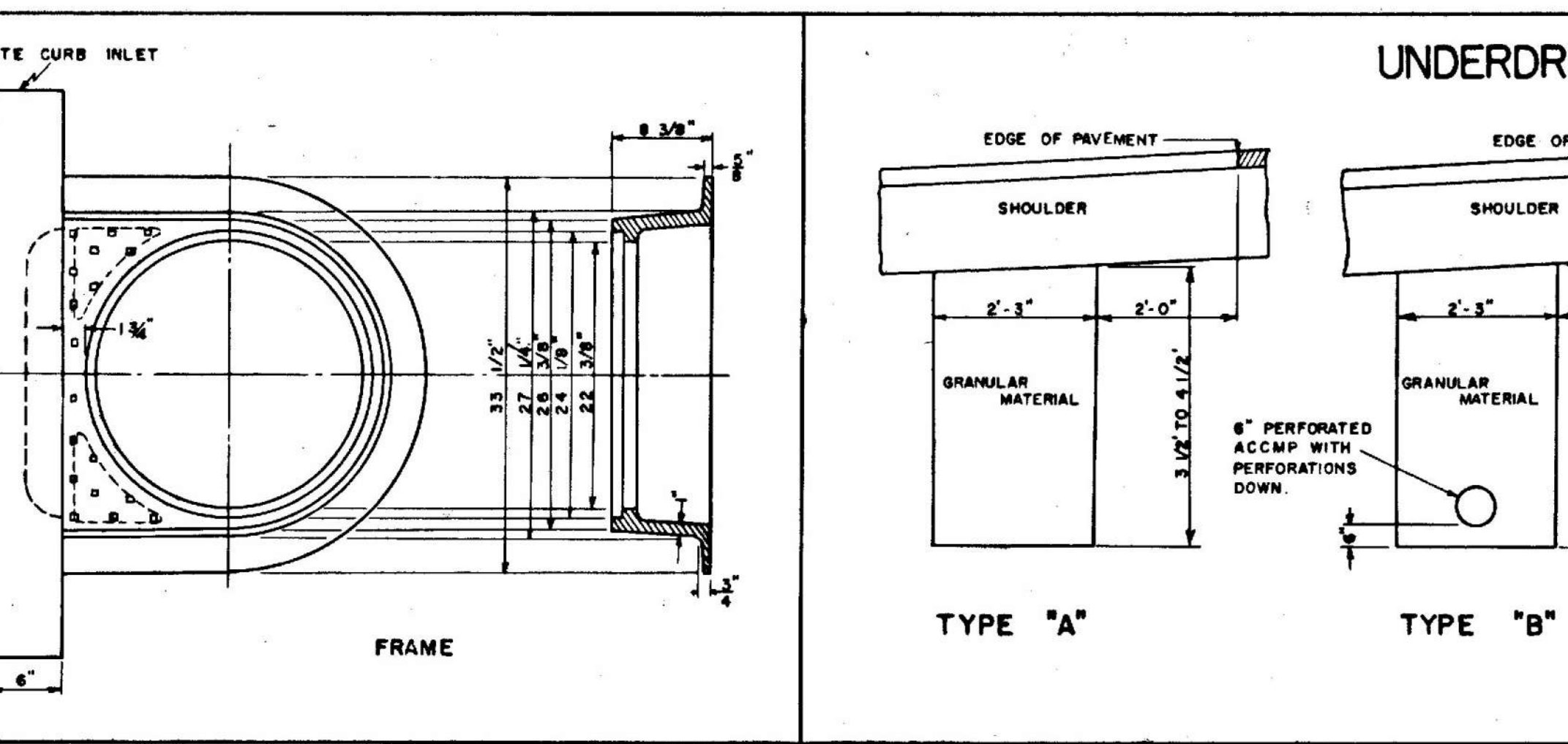
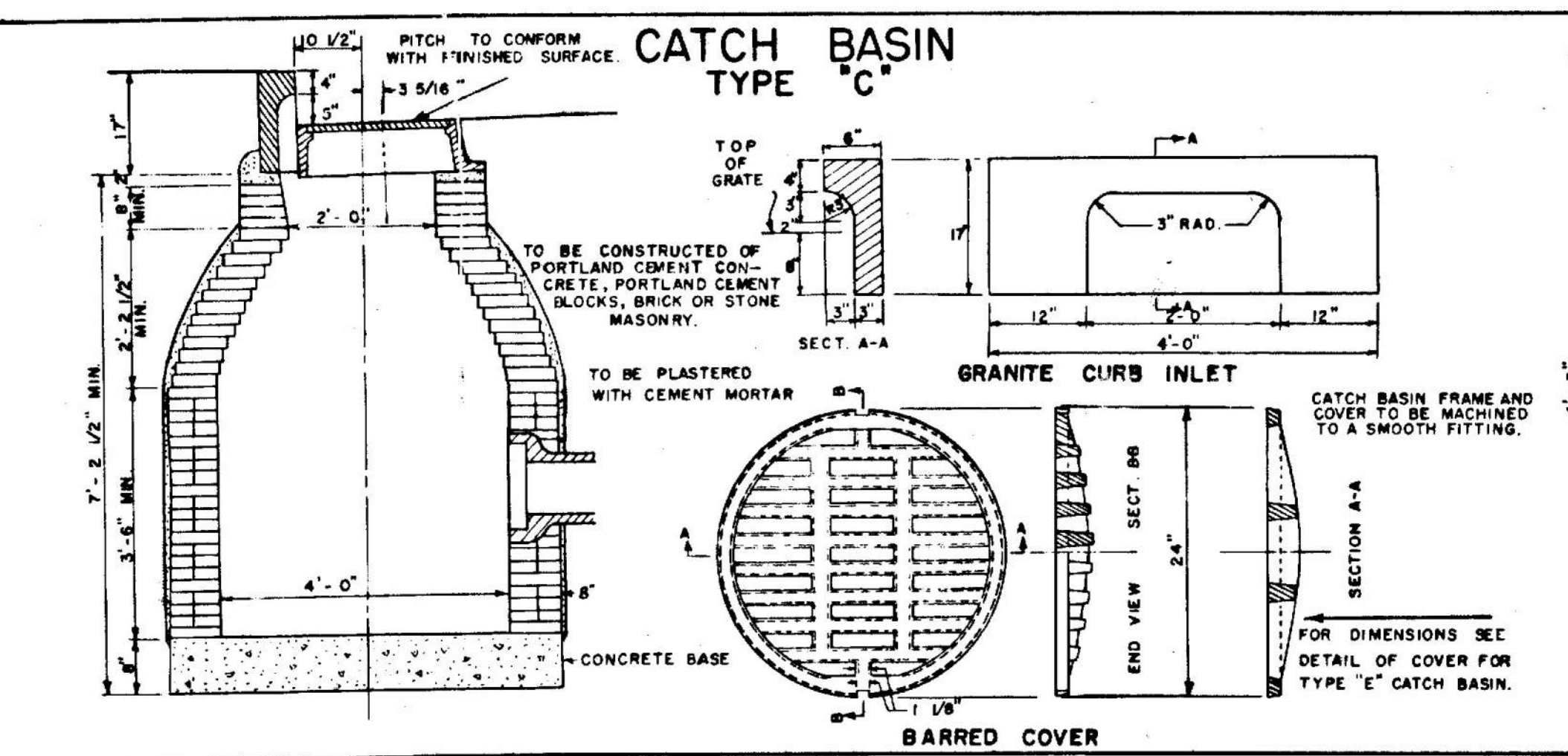
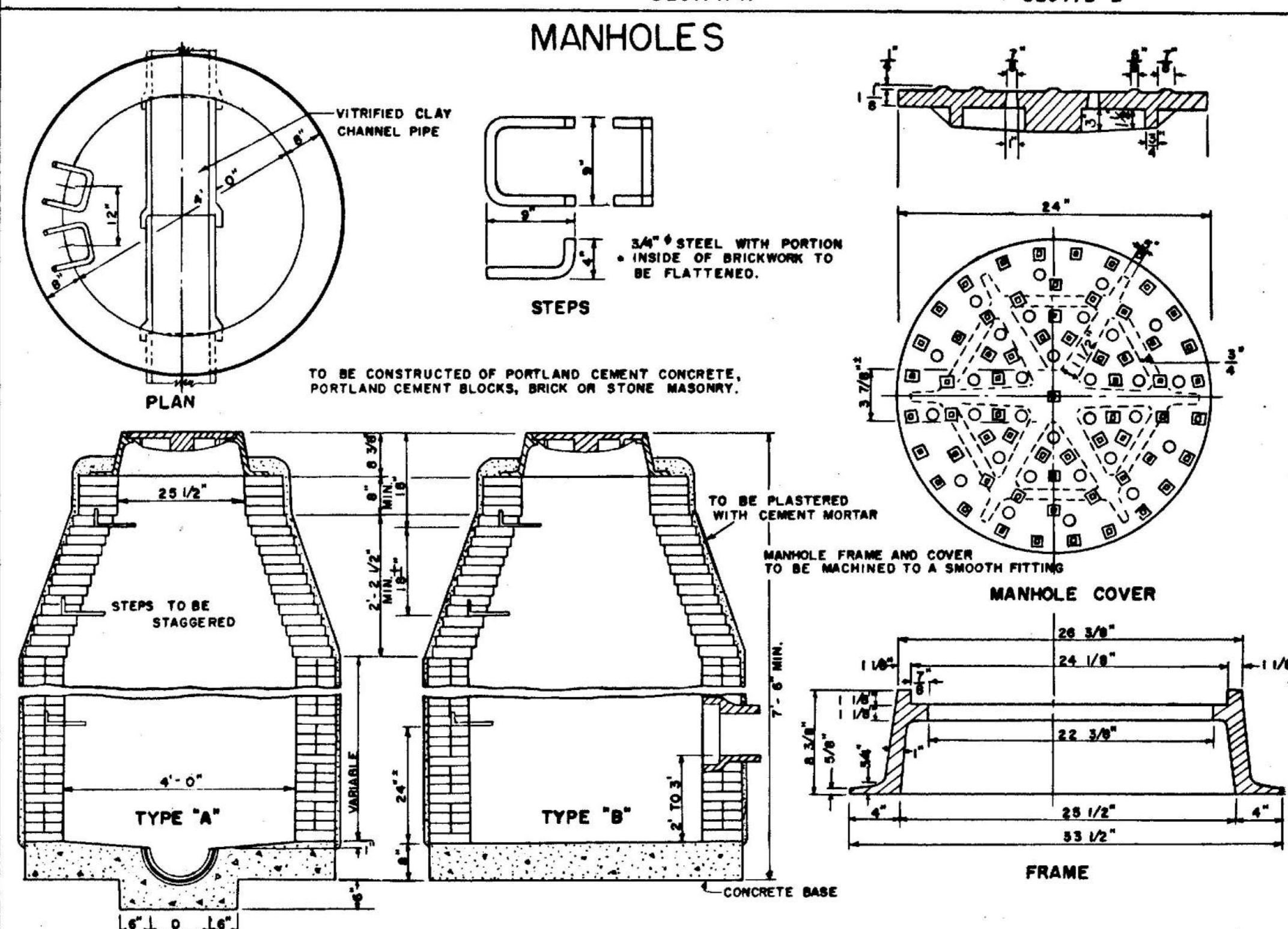
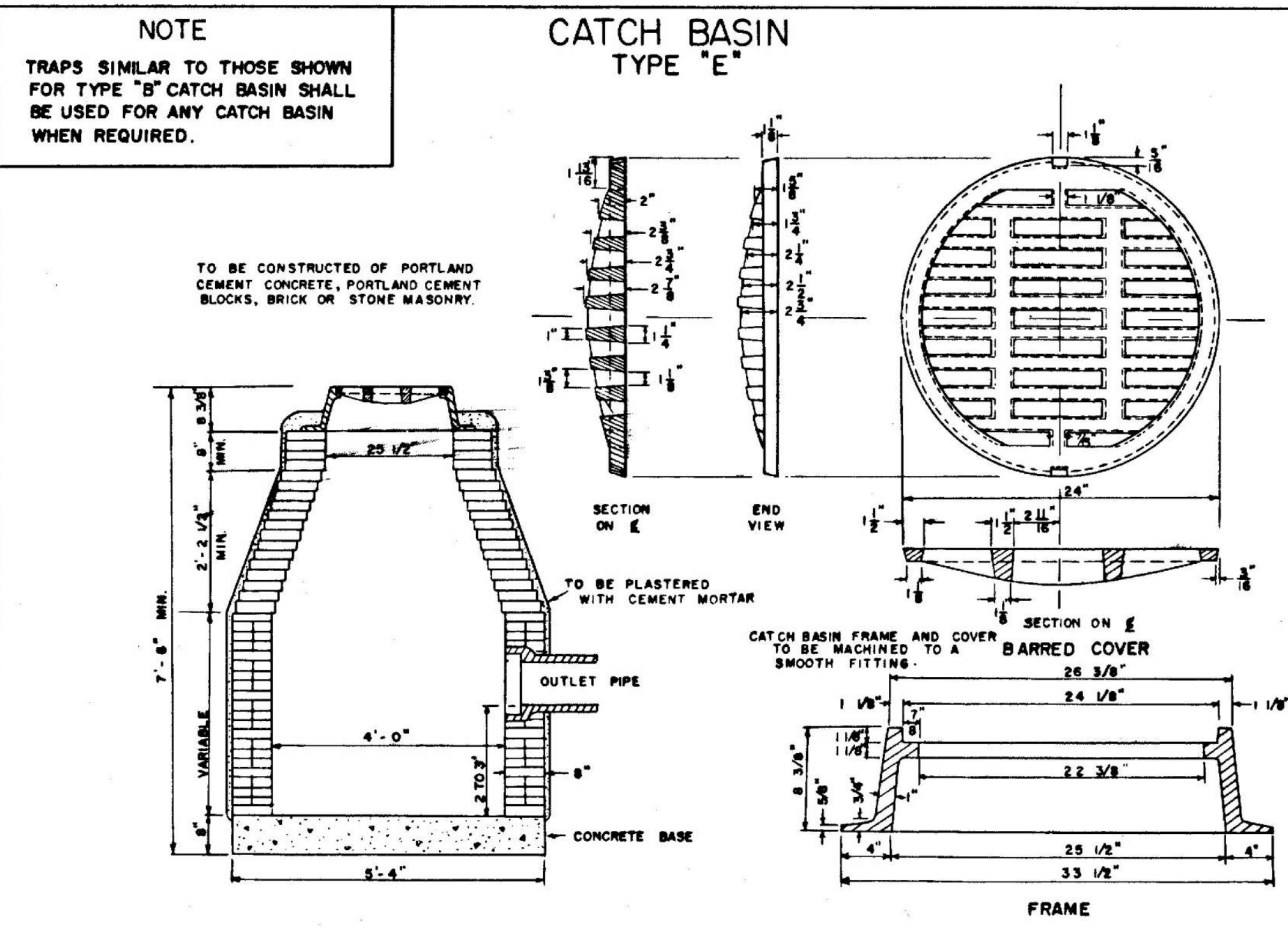
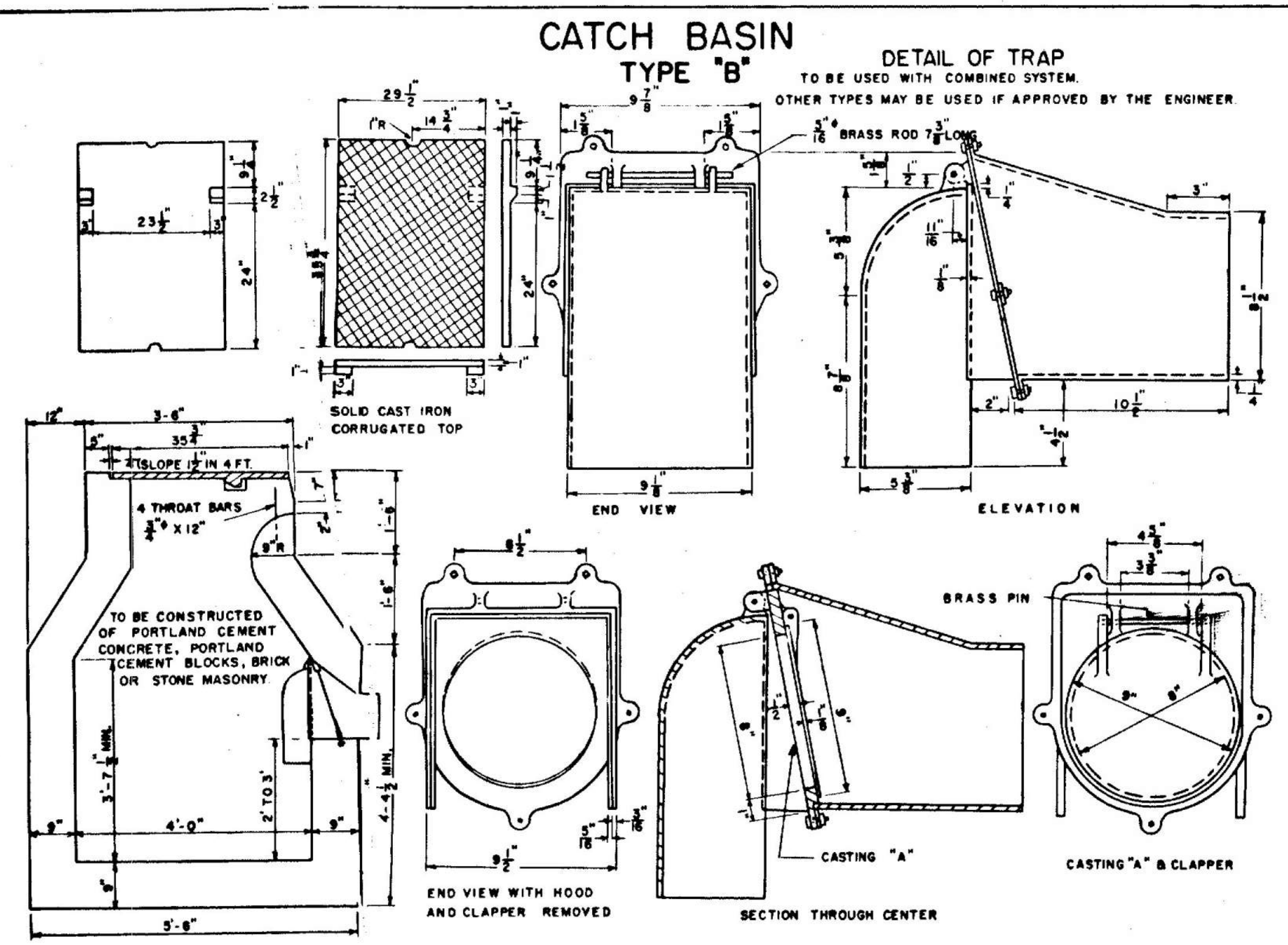
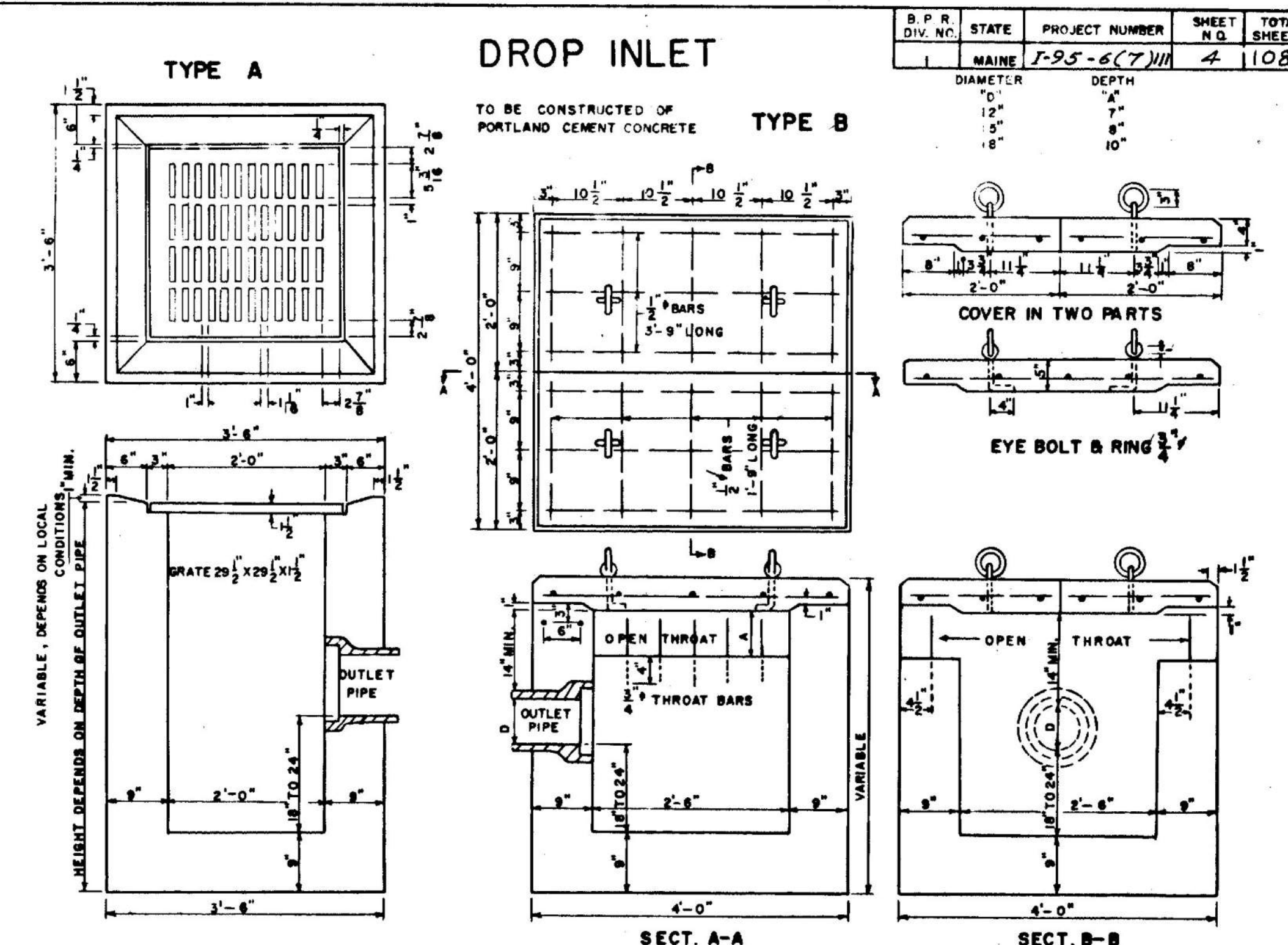
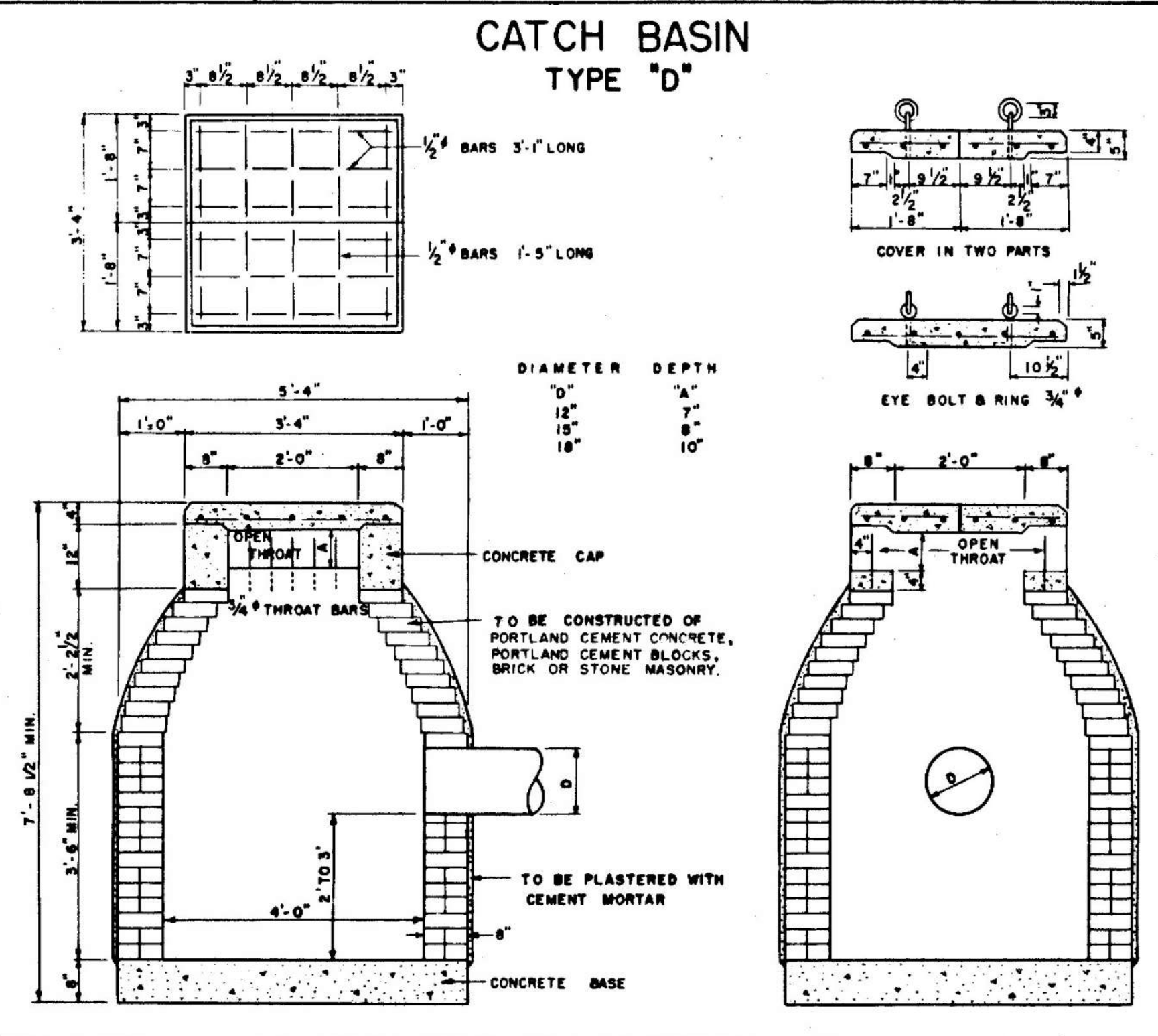
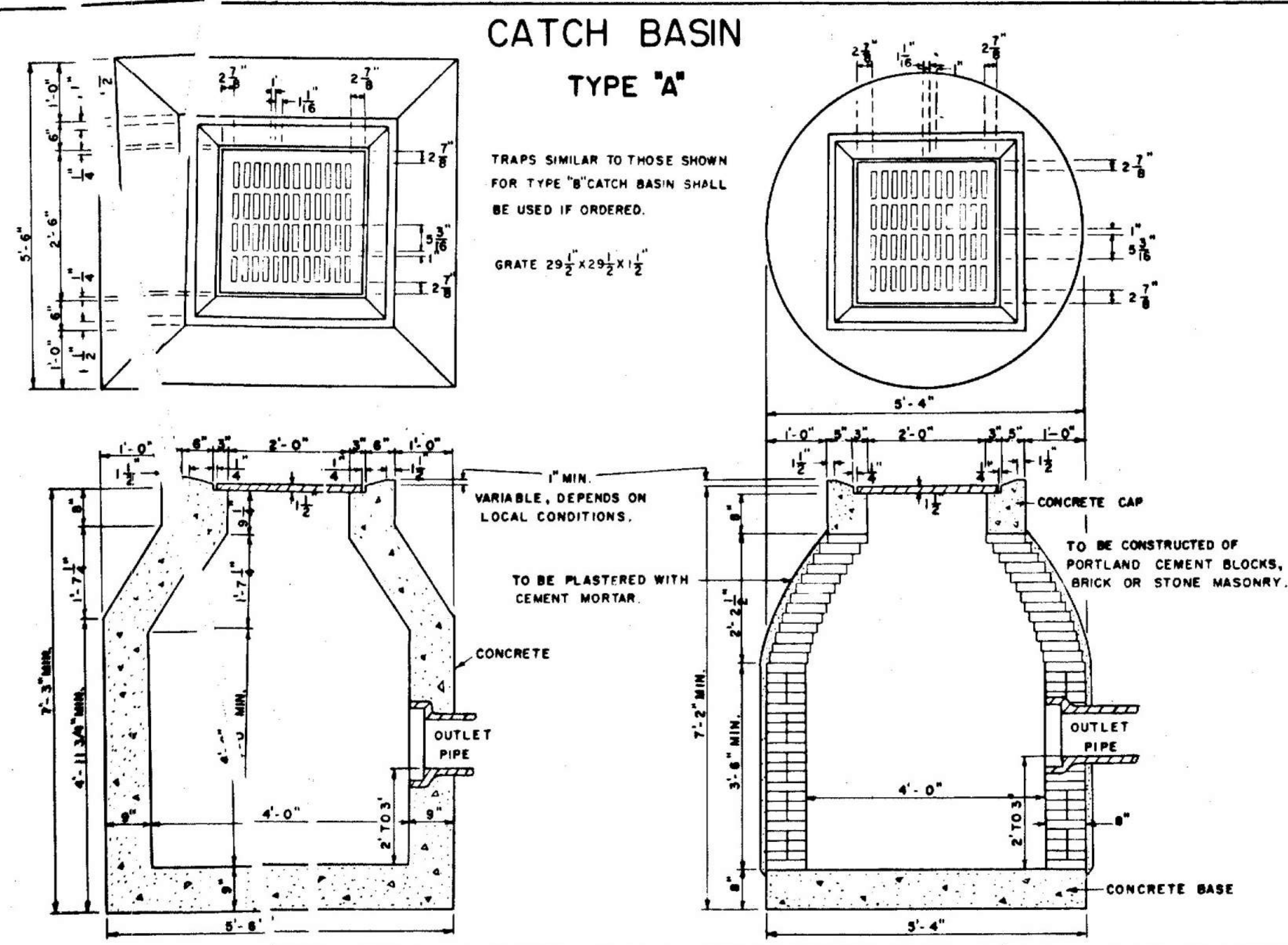
B. P. R. REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-6(7)111	2	108



DRAINAGE																								
STATION	A.C.C.M.P.		R.C.P.		A.C.C.M.P.		A.C.C.M.P.		C.M.P.		CATCH BASINS					DROP INLETS		MAN-HOLES		UNDERDRAINS				REMARKS
	LEFT EXTENSION				RIGHT EXTENSION															TYPE		TYPE C		
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A	B	C	D	E	A	B	A	B	A	B	SIZE	LENGTH	
<i>Northbound</i>																								
439+54	30"	14'	30"	50'	30"	14'																		Plus Pipe Connector - 1 Metal E.W.
442+0	24"	20'	24"	60'	24"	20'																		" " " - / " "
464+80	24"	20'	24"	60'	24"	22'																		" " " - / " "
468+82	24"	10'	24"	54'	24"	10'																		" " " - / " "
494+55	30"	24'	30"	52'	30"	24'																		" " " - / " "
500+50	24"	20'	24"	52'	24"	16'																		" " " - / " "
508+0	24"	26'	24"	52'	24"	28'																		" " " - / " "
516+0	24"	14'	24"	56'	24"	12'																		" " " - / " "
530+48	24"	16'	24"	52'	24"	18'																		" " " - / " "
539+0	24"	8'	24"	50'	24"	12'																		" " " - / " "
551+18	24"	10'	24"	52'	24"	12'																		" " " - / " "
555+0	24"	12'	24"	56'	24"	18'																		" " " - / " "
<i>Southbound</i>																								
431+50	24"	12'	24"	56'	24"	10'																		Plus Pipe Connector - 1 Metal E.W.
438+50	24"	20'	24"	52'	24"	28'																		" " " - / " "
443+50	24"	10'	24"	56'	24"	10'																		" " " - / " "
459+0	24"	14'	24"	58'	24"	14'																		" " " - / " "
471+0	24"	10'	24"	48'	24"	10'																		" " " - / " "
490+50	24"	20'	24"	62'	24"	18'																		" " " - / " "
494+50	30"	8'	30"	60'	30"	10'																		" " " - / " "
497+0	24"	16'	24"	60'	24"	16'																		" " " - / " "
501+50	24"	14'	24"	52'	24"	16'																		" " " - / " "
507+0	24"	12'	24"	56'	24"	8'																		" " " - / " "
515+50	24"	10'	24"	64'	24"	8'																		" " " - / " "
523+0	24"	10'	24"	54'	24"	8'																		" " " - / " "
530+50	24																							

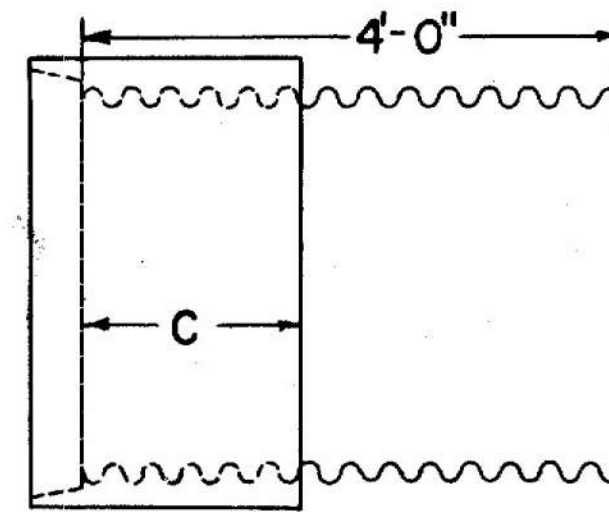
ESTIMATED QUANTITIES			
ITEM NO	DESCRIPTION	QUANTITY	UNIT
201-5	Clearing	49	Acres
203-9	Earth Excavation	67,000	Cu. Yds.
203-10	Rock Excavation	8,500	Cu. Yds.
204-10	Structural Earth Excavation - Drainage	3,800	Cu. Yds.
	Structural Rock Excavation - Drainage	250	Cu. Yds.
204-16	Structural Earth Excavation - Channel	800	Cu. Yds.
205-8	Common Borrow	115,000	Cu. Yds.
205-9	Granular Borrow	73,000	Cu. Yds.
302-7	Gravel Base Course (In Place Measurement)	83,000	Cu. Yds.
	Gravel for Foundations	1,500	Cu. Yds.
302-13	Washing Gravel Base (wise (In Place Measurement))	83,000	Cu. Yds.
308-5	Overhaul (In Place Measure)	166,000	Yd. Mi.
309-5	Stripping Pits	5,000	Cu. Yds.
310-6	Sprinkling	100	Units
311-6	Calcium Chloride	30	Tons
601-11	15" Corrugated Metal Pipe	150	Lin. Ft.
602-14	24" Asphalt Coated Corr. Metal Pipe	900	Lin. Ft.
602-15	30"	150	Lin. Ft.
603-13	24" Reinforced Concrete Pipe	1600	Lin. Ft.
603-14	30"	232	Lin. Ft.
606-10	Underdrain, Type "B"	500	Lin. Ft.
606-16	Underdrain Outlets	500	Lin. Ft.
607-7	Metal End Walls For 24" Pipe	26	Each
607-8	Metal End Walls For 30" Pipe	4	Each
701-47	Portland Cement	1,035	Bbls.
701-50	Portland Cement Concrete Reinforced Box Culvert	690	Cu. Yds.
703-13	Reinforcing Steel, Delivered	101,700	Lbs.
703-14	Reinforcing Steel, Placing	101,700	Lbs.
806-5	Cut Slope Drains	1,000	Lin. Ft.
806-18	Fencing - Metal Post (Galvanized)	27,000	Lin. Ft.
907-10	Hand Laid Rip-rap	150	Cu. Yds.
908-8	Loom Excavation	11,000	Cu. Yds.
908-9	Loom Borrow	1,500	Cu. Yds.
909-7	Sodding	7,000	Sq. Yds.
910-9	Seeding - Roadside Mixture	1,255	Units
912-6	Hay Mulch	145	Tons
914-6	Project Markers	4	Each
915-6	Right of Way Monuments	26	Each
916-6	Underdrain Outlet Markers	14	Each
929-10	Portable Barricades	5	Each
202-5	Removing Trees (9"-12")	4	Each
202-6	Removing Trees (over 24")	4	Each

B.P.R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-25-6(7)11	4	108



NOTE:
ALL CATCH BASINS AND MANHOLES CONSTRUCTED OF PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY SHALL BE CYLINDRICAL IN SHAPE.

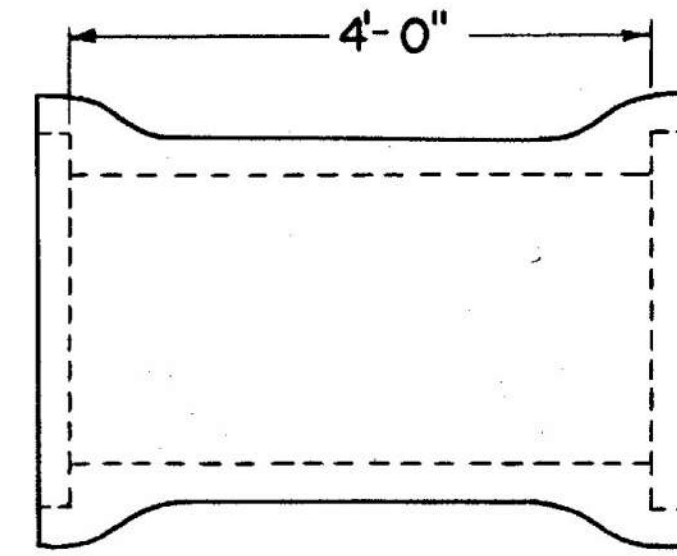
PIPE CONNECTIONS



GROOVE END COMBINATION
For 30" to 72", inclusive, diameter connection
between concrete and metal pipe

"C" = 17" min. for sizes 30" to 48" incl.
"C" = 23" min. for sizes over 48"

Asphalt coated corrugated metal pipe
shall conform to the latest
standard specifications

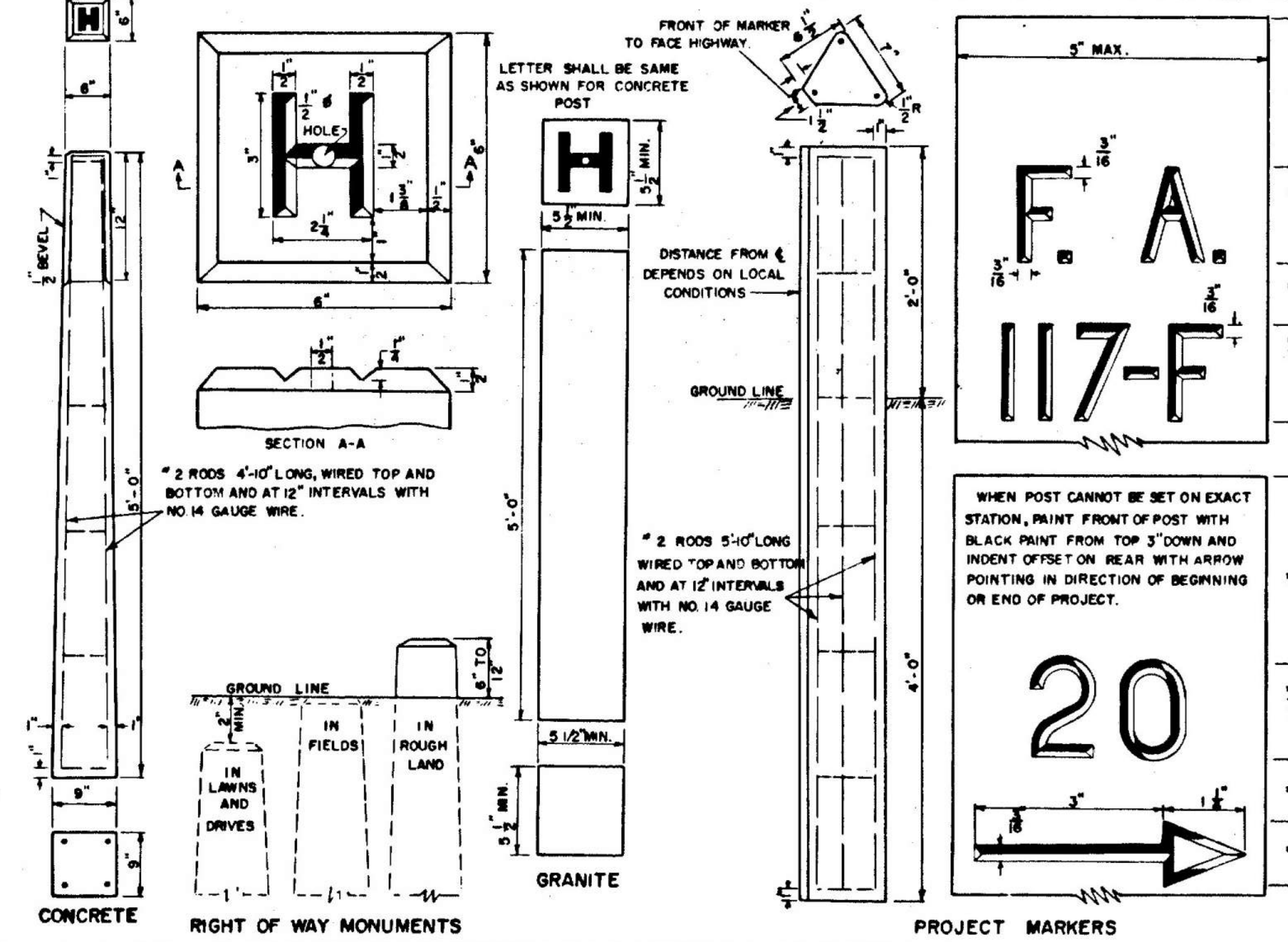


**REINFORCED CONCRETE PIPE CONNECTOR
DOUBLE BELL**

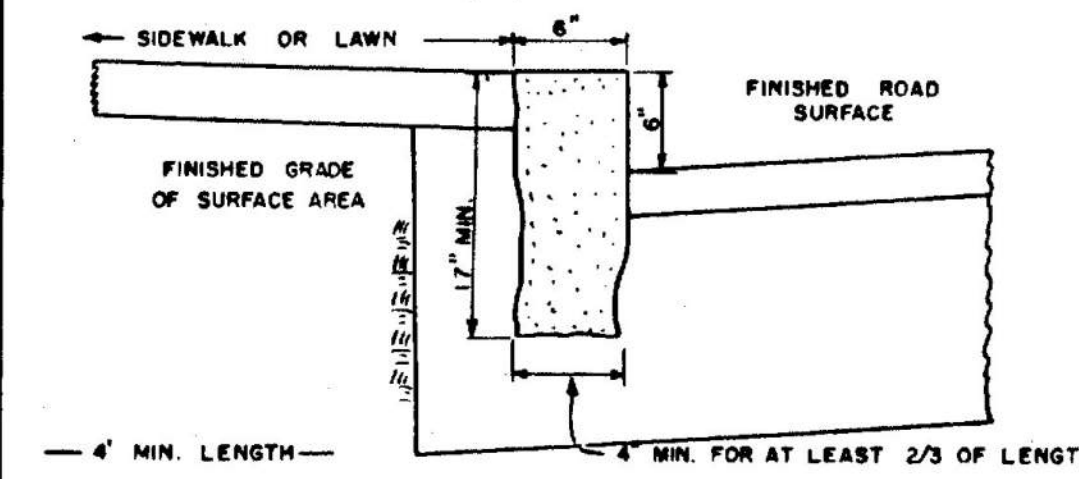
For 12" to 24", inclusive, diameter connection
between concrete and metal pipe

Reinforced concrete pipe shall
conform to the latest standard
specifications

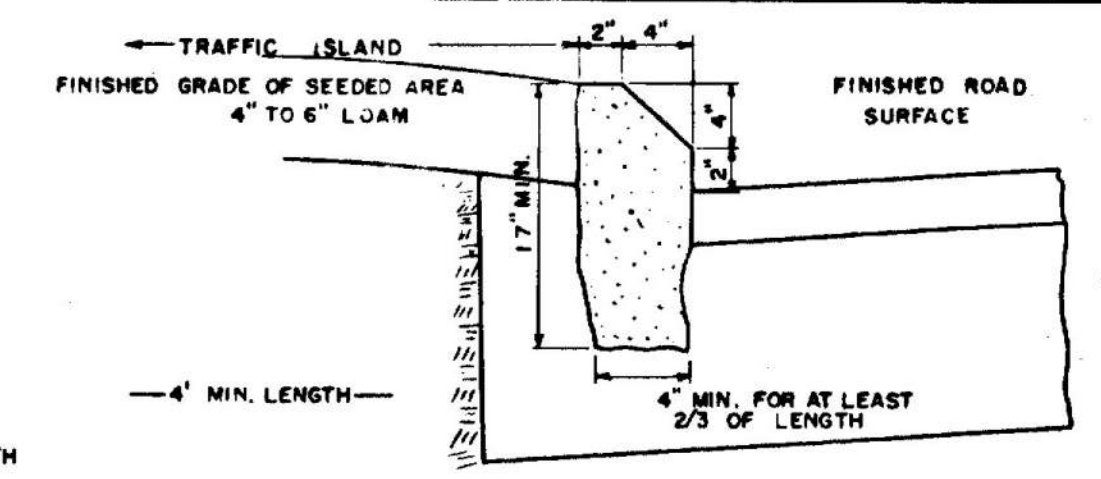
RIGHT OF WAY MONUMENTS & PROJECT MARKERS



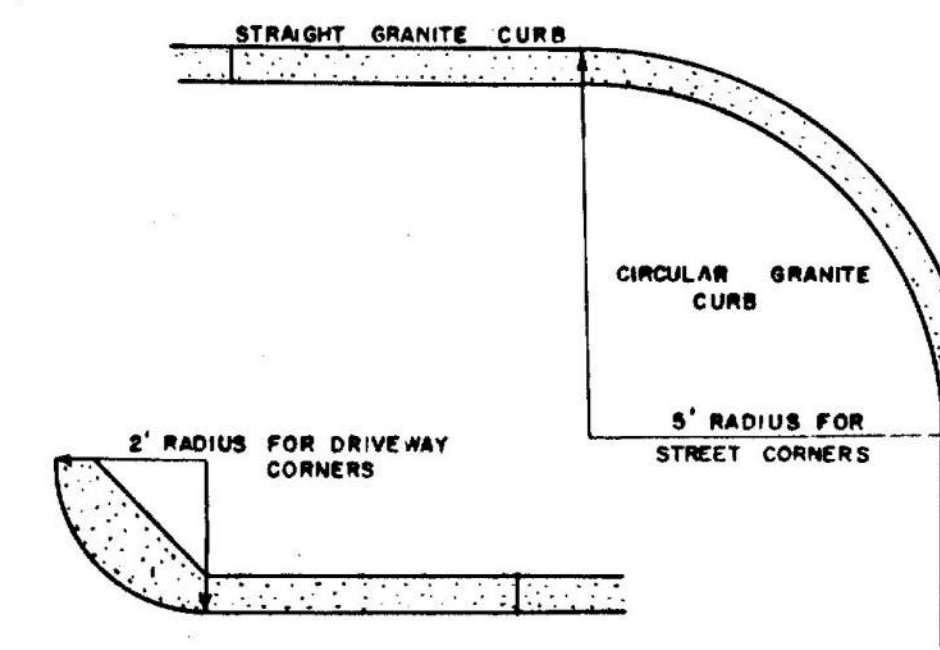
GRANITE CURB & EDGING



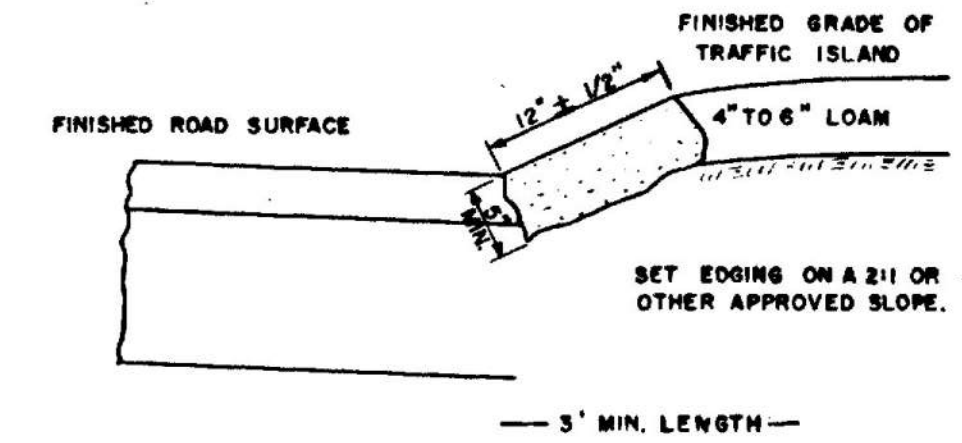
STRAIGHT GRANITE CURB



SLOPED GRANITE CURB

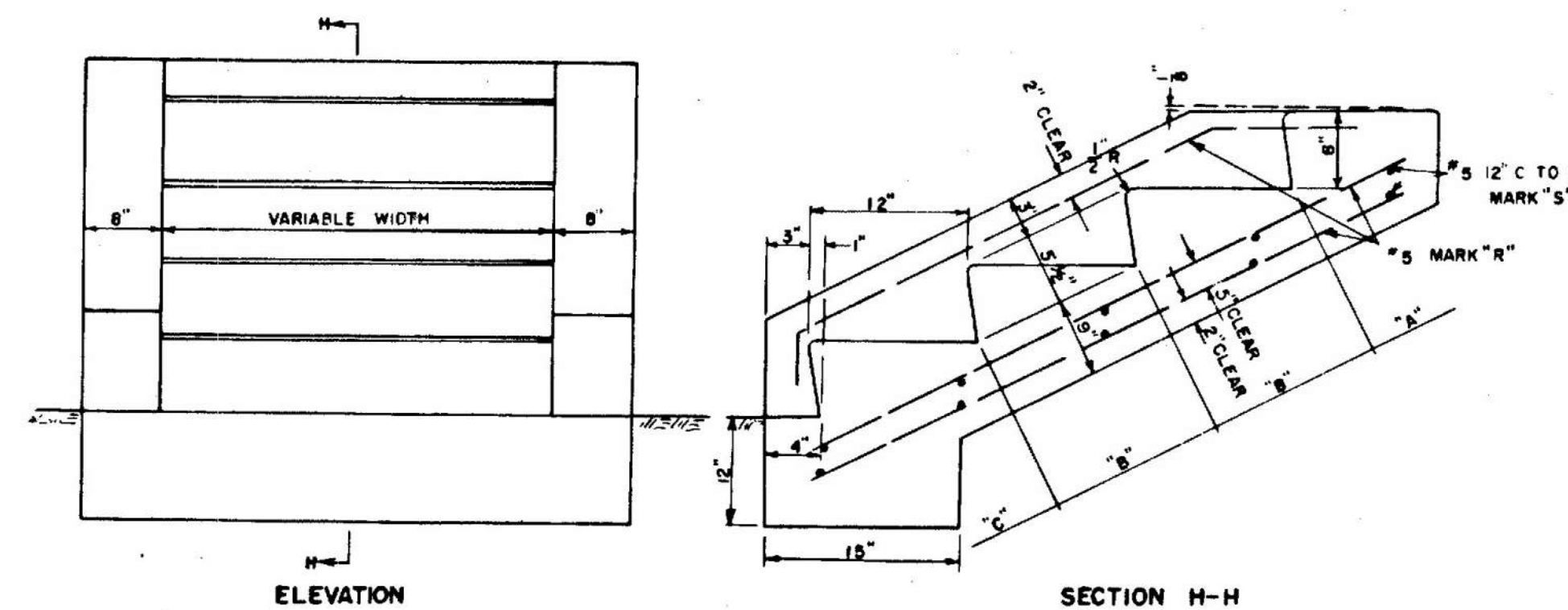


CIRCULAR GRANITE CURB



GRANITE EDGING

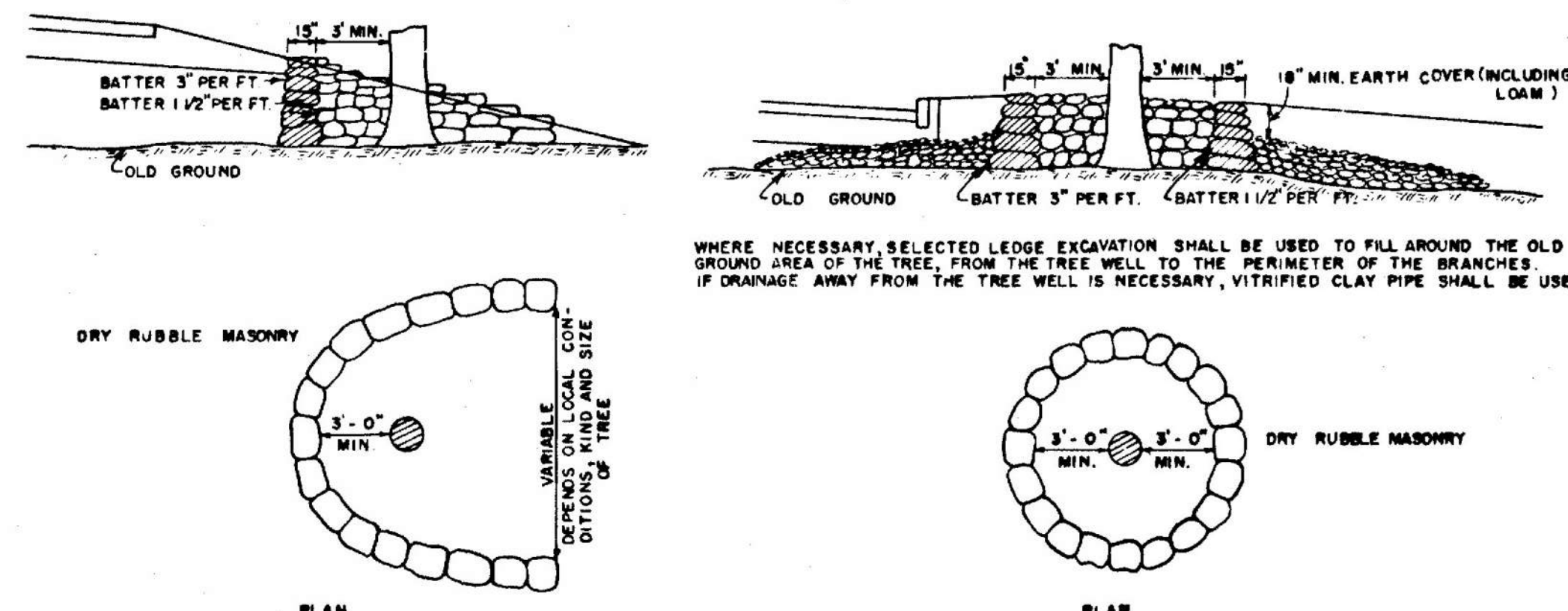
CONCRETE STEPS



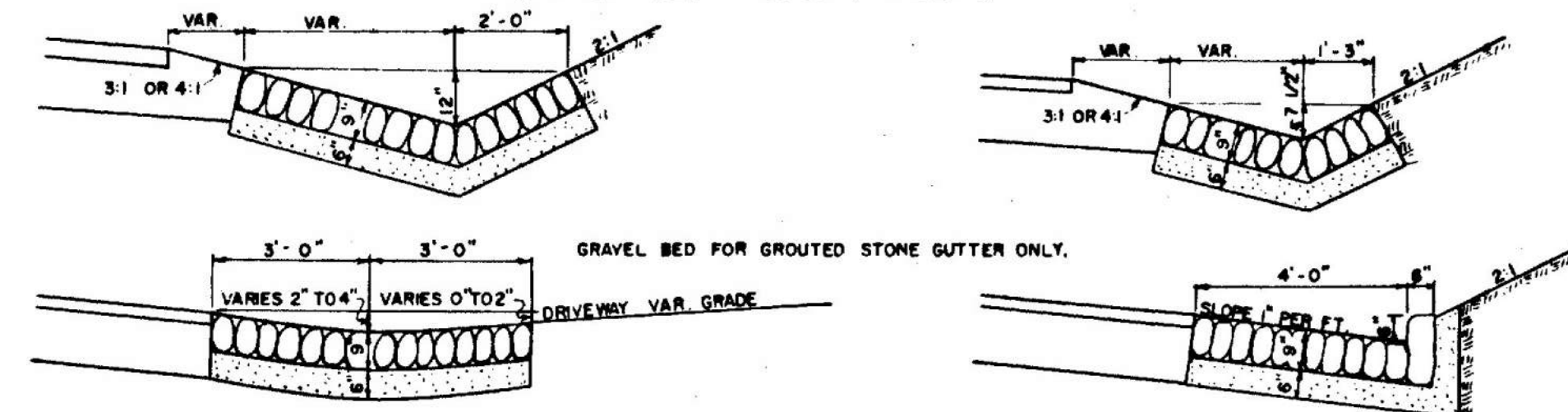
CONCRETE CLASS "A"		
SECTION	STEPS PER FT. OF WIDTH	PARAPET EACH WALL
"A" HEADER	.032 CU. YDS.	.032 CU. YDS.
"B" EA. INTER. ST.	.040 CU. YDS.	.040 CU. YDS.
"C" FOOTER	.071 CU. YDS.	.065 CU. YDS.

REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH (EACH)
R	#5 1043 LBS. PER FT.	3 EACH PARAPET 2 EACH FT. OF WIDTH	8" FOR "A" +13" FOR EACH "B" +16" FOR "C"
S	#5 1043 LBS. PER FT.	2 FOR "A" 2 FOR EACH "B" 2 FOR "C"	6" EACH PARAPET +2" PER FT. OF WIDTH

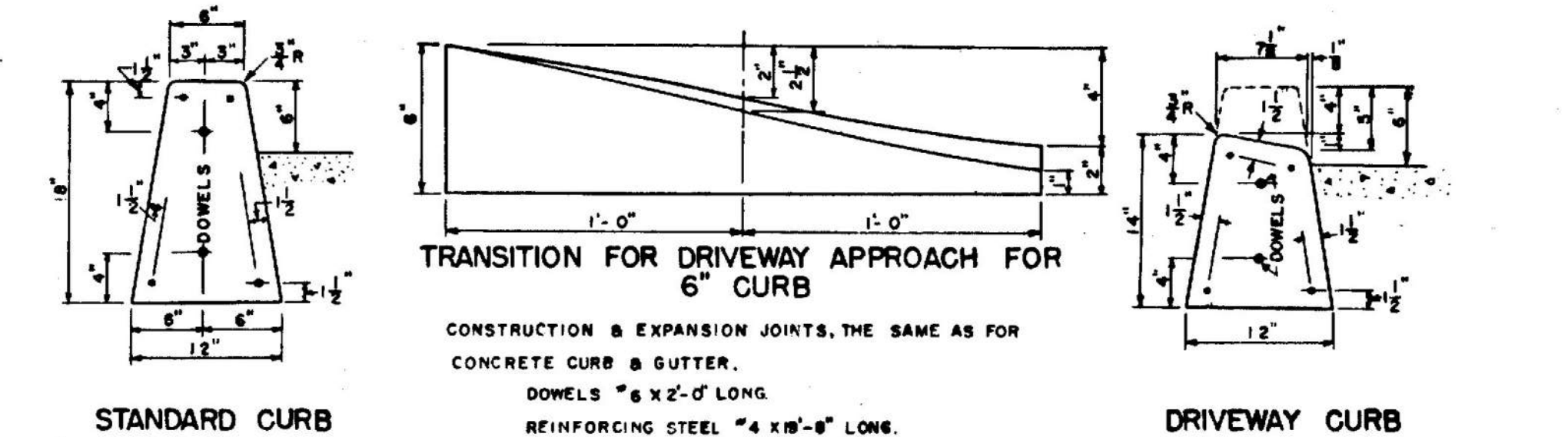
TREE WELLS



STONE GUTTER



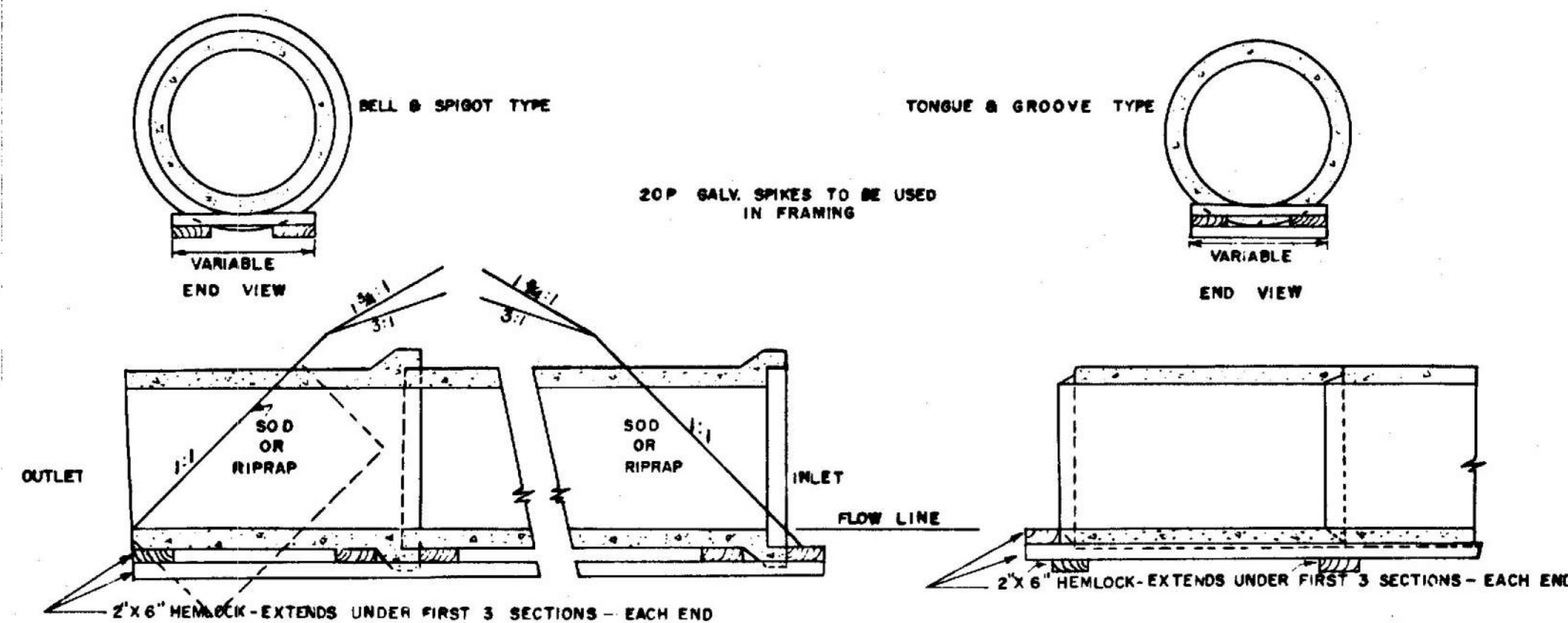
CONCRETE CURB



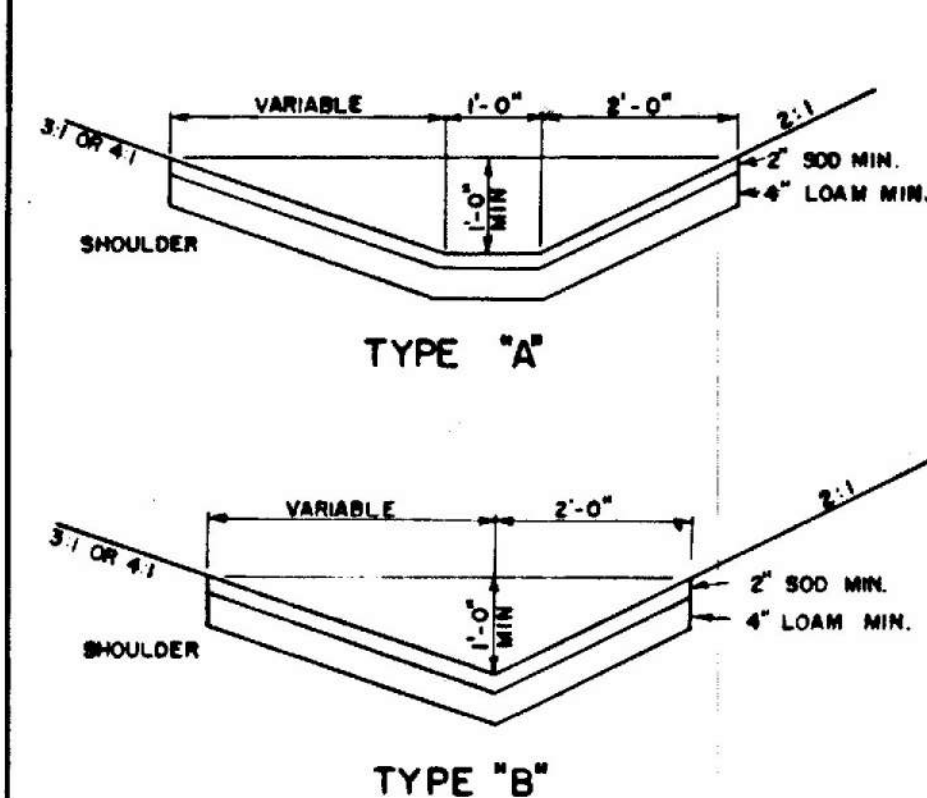
CONCRETE CURB & GUTTER

INTEGRAL CONCRETE CURB

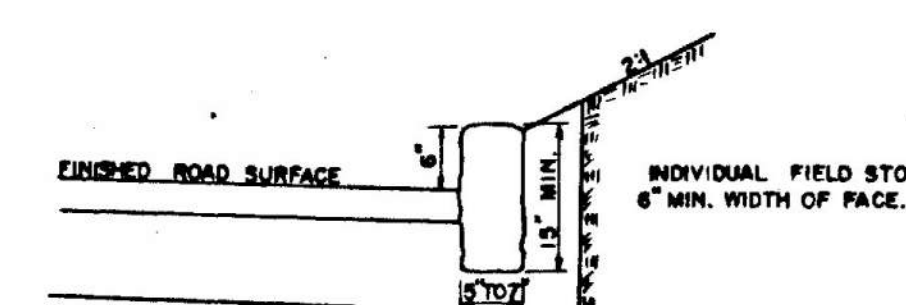
CONCRETE PIPE CRADLE



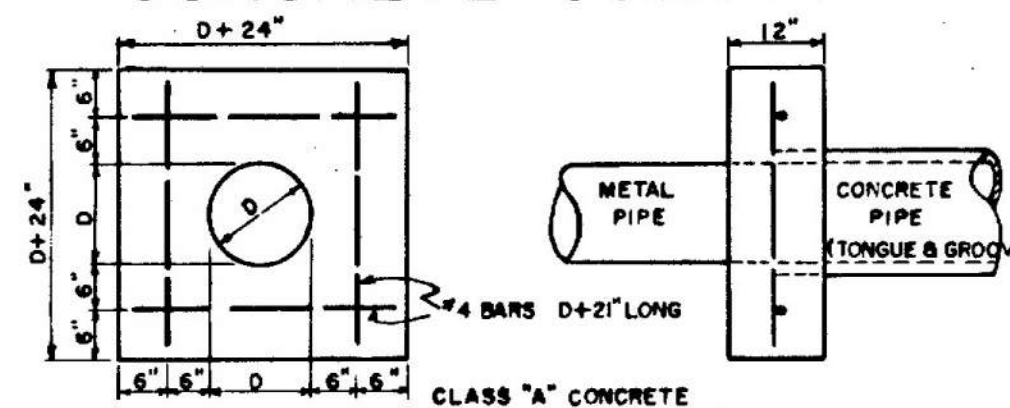
SODDED GUTTER



FIELD STONE CURB



CONCRETE COLLAR

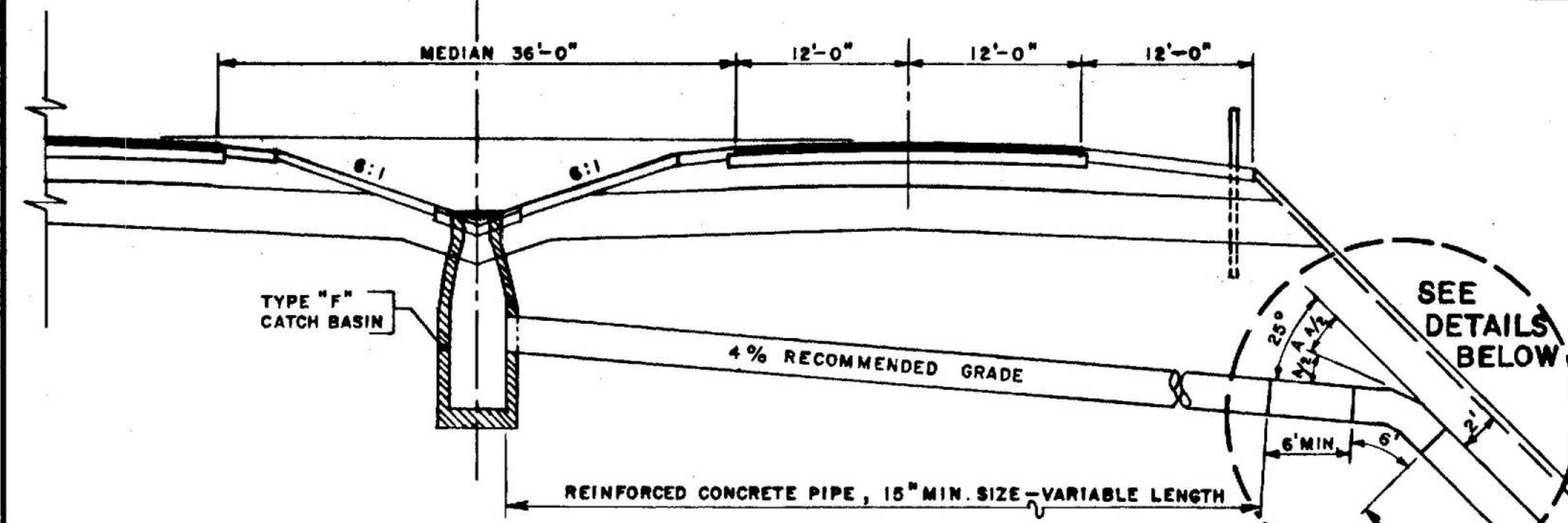


MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

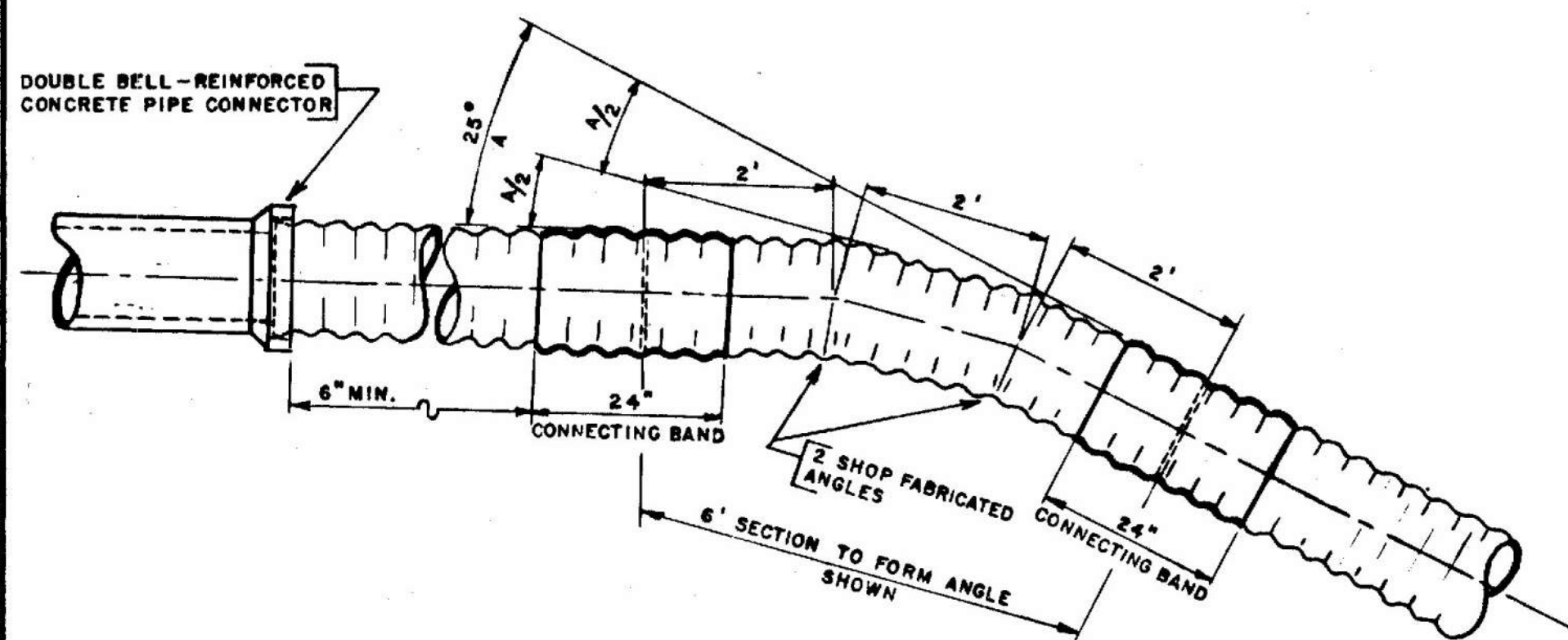
STANDARD DETAILS

MISCELLANEOUS ITEMS

BENDS AND BANDS for A.C.C.M.P. MEDIAN DRAINAGE



DRAINAGE SECTION



DETAIL OF SIX-FOOT BENDS

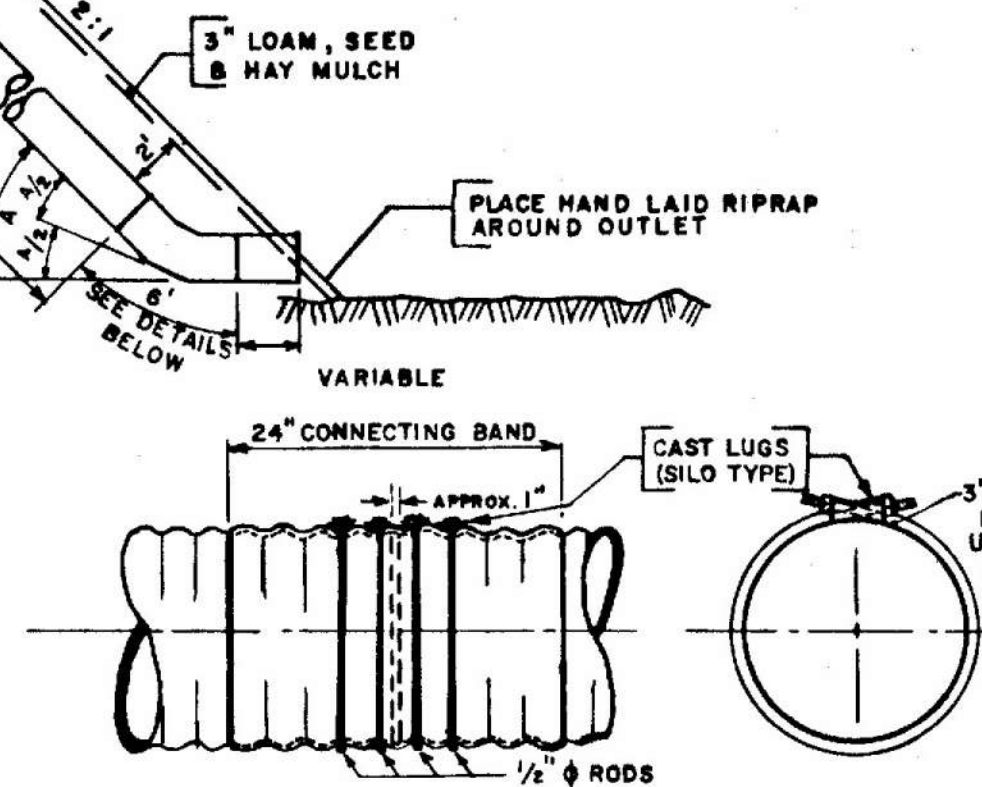
NOTE: 24" CONNECTING BANDS SHALL BE USED ON THE ENDS OF EACH ANGLE SECTION. THESE BANDS SHALL BE WATER TIGHT AND DRAWN SECURE BY MEANS OF FOUR THREADED GALVANIZED RODS 1/2" ROUND, PLACED UNIFORMLY EACH SIDE OF THE PIPE ENDS, AND TIGHTENED WITH SILO TYPE LUGS. THE LONGITUDINAL SEAM UNDER THE COLLAR SHALL BE WELDED AND RIVETS OMITTED.

WHEN STRAIGHT LENGTH OF A.C.C.M.P. ON SLOPE EXCEEDS 20 FEET, 24" BAND OR BANDS SHALL BE USED IN THE SAME MANNER AS DESCRIBED ABOVE.

AN ITEM COVERING EACH SIZE OF 24" CONNECTING BANDS SHALL BE INCLUDED IN THE PROPOSAL .

BID ITEMS FOR 15", 18" & 24" A.C.C.M.P. SIX FOOT SECTION TO FORM 25° ANGLE SHALL BE SHOWN IN THE ITEM DESCRIPTION AS "SIX FOOT BENDS".

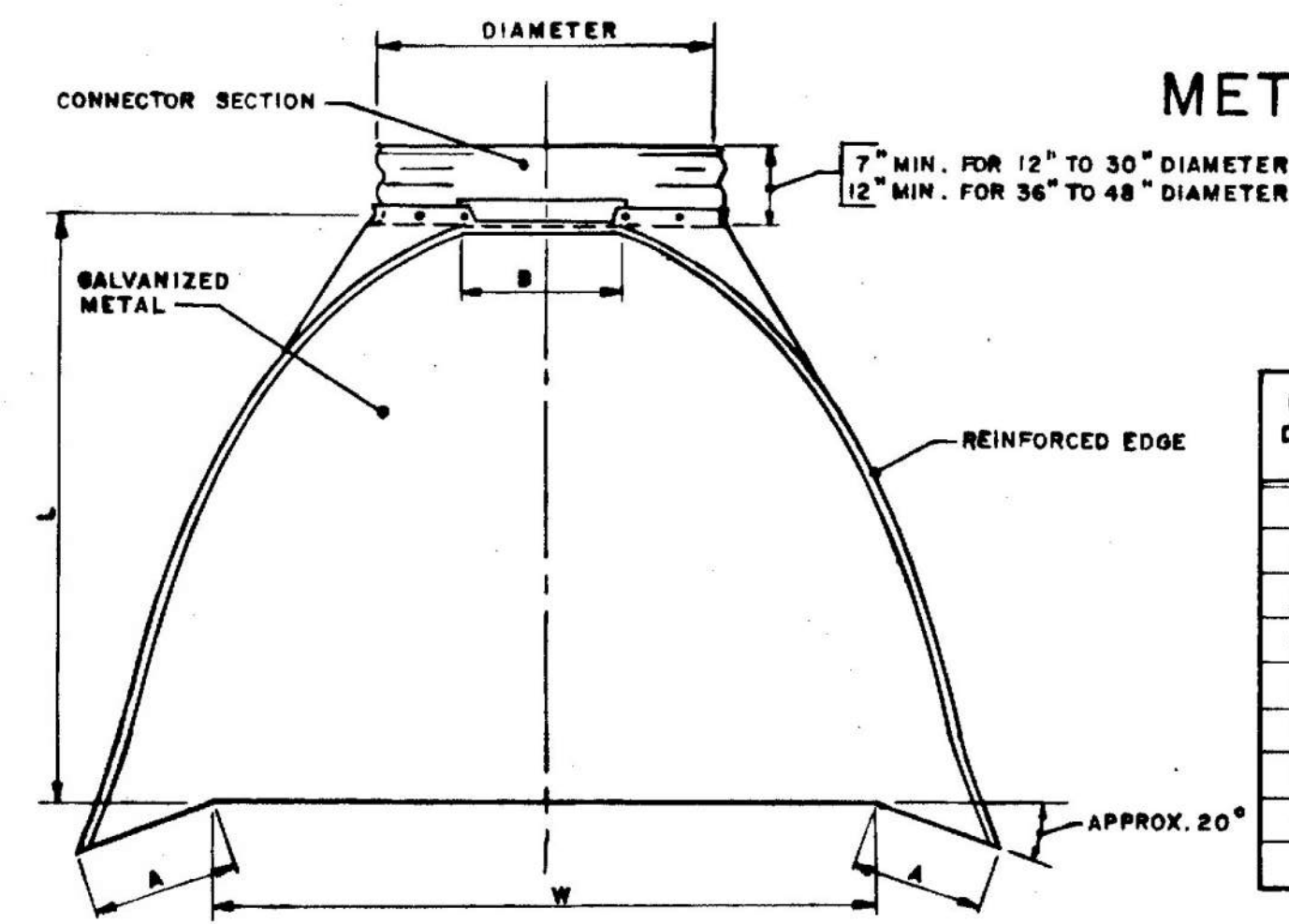
WHEN FILL IS 10' OR MORE IN DEPTH AT THE OUTSIDE SHOULDER BERM
USE OUTLET FROM CATCH BASIN AS SHOWN ; WHEN FILL IS LESS THAN 10'
USE STRAIGHT GRADE LINE FROM CATCH BASIN TO OUTLET END OF PIPE



DETAIL OF 24" CONNECTING BANDS

METAL ENDWALLS

B. P. R. REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	MAINE	1-95-6(7)///	6	108



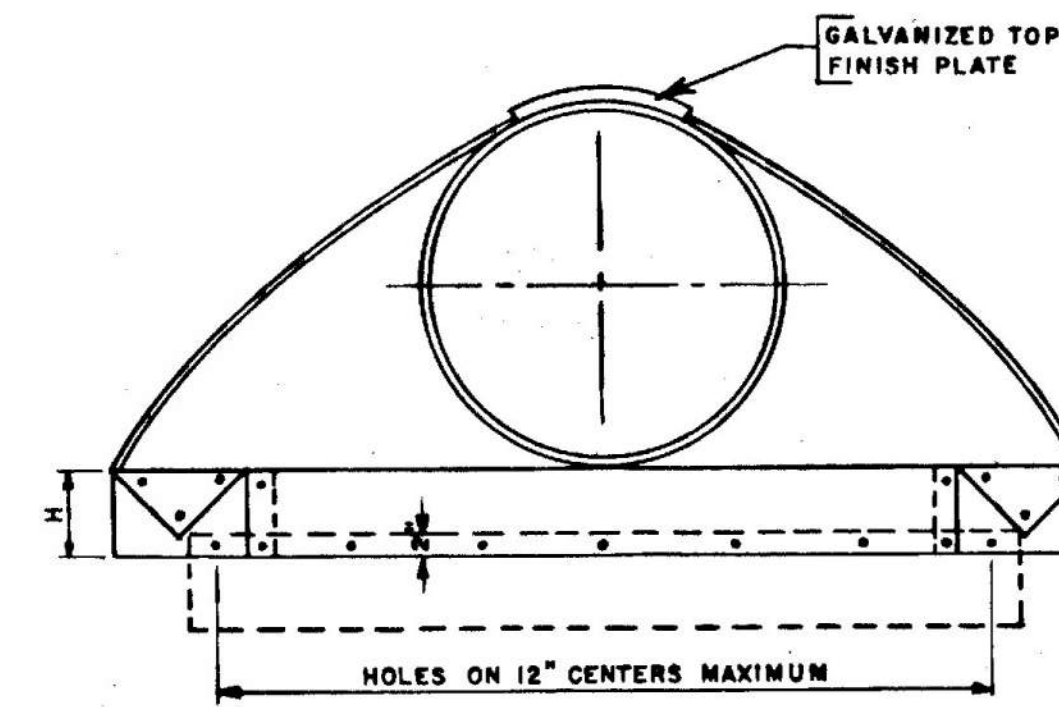
PLAN

PIPE DIAM.	GAUGE	DIMENSIONS				
		A 1" TOL.	B MAX.	H 1" TOL.	L 1 1/2" TOL.	W 2" TOL.
12"	16	4 3/4"	6"	6"	21"	24"
15"	16	6"	8"	6"	26"	30"
18"	16	7"	9"	6"	31"	36"
21"	16	8 1/4"	11"	6"	36"	42"
24"	14	9 1/2"	12"	6"	42"	48"
30"	14	12 1/2"	15"	7 1/4"	52 1/2"	60"
36"	12	14"	18"	9"	63"	72"
42"	12	16"	21"	10 1/4"	73 1/2"	84"

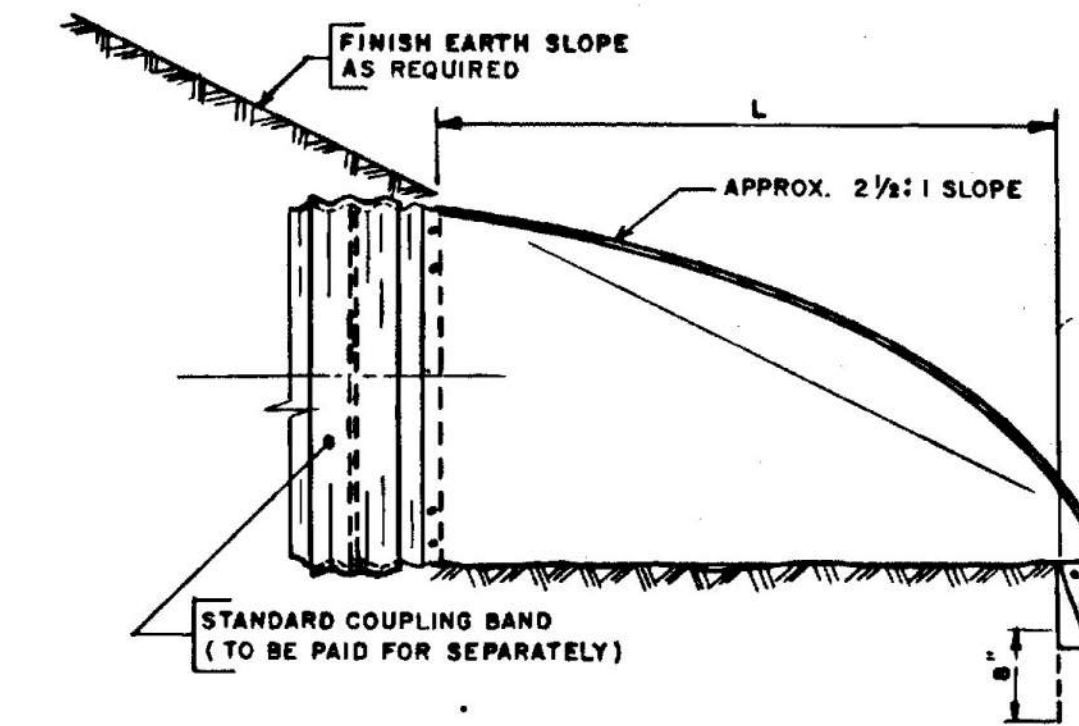
TOE PLATE TO BE PUNCHED TO MATCH HOLES IN SKIRT LIP.
LENGTH OF TOE PLATE IS $W + 10"$ FOR 12" TO 30" DIAMETER
PIPE, INCLUSIVE, AND $W + 22$ FOR 36" TO 42" DIAMETER
PIPE INCLUSIVE.

SKIRT SECTION FOR 12" TO 24" DIAMETER PIPE, INCLUSIVE, TO BE MADE IN ONE PIECE. SKIRT SECTION FOR 30" TO 48" DIAMETER PIPE MAY BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTERLINE.

CONNECTOR SECTION, CORNER PLATE AND TOE PLATE TO BE
SAME GAUGE AS SKIRT AND EACH TO BE GALVANIZED.
TOE PLATE TO BE INCLUDED IN UNIT COST.

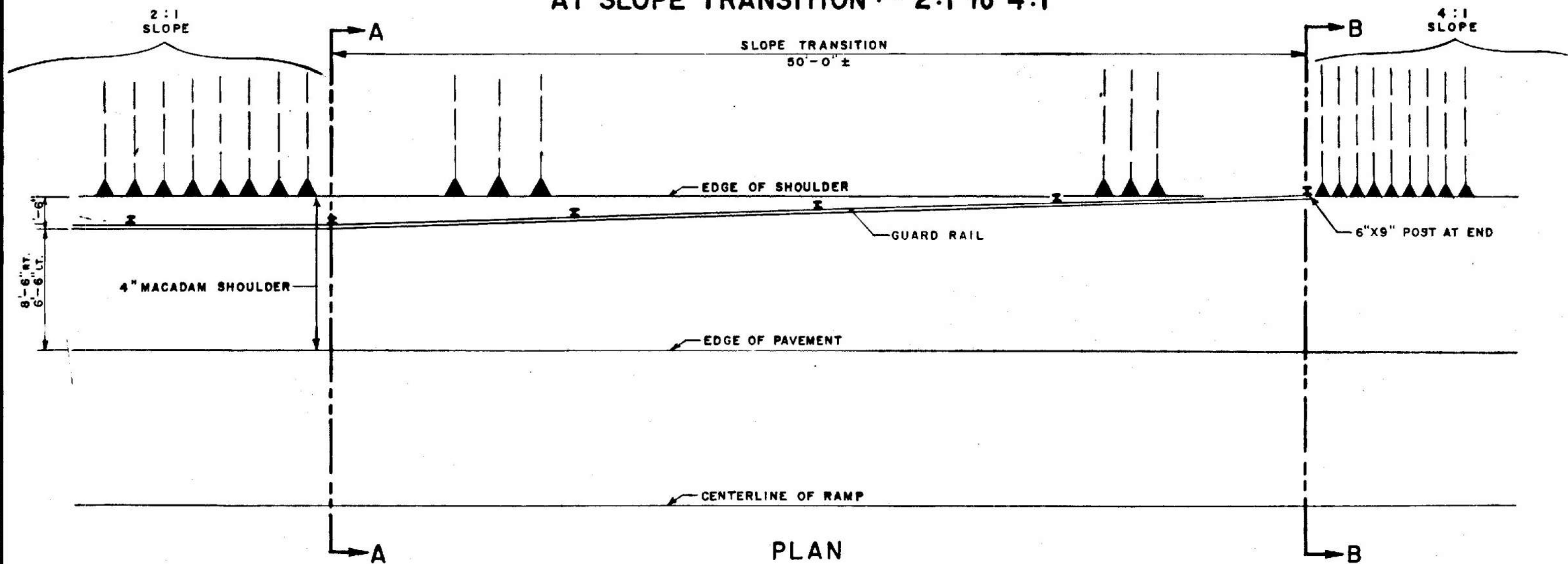


ELEVATION

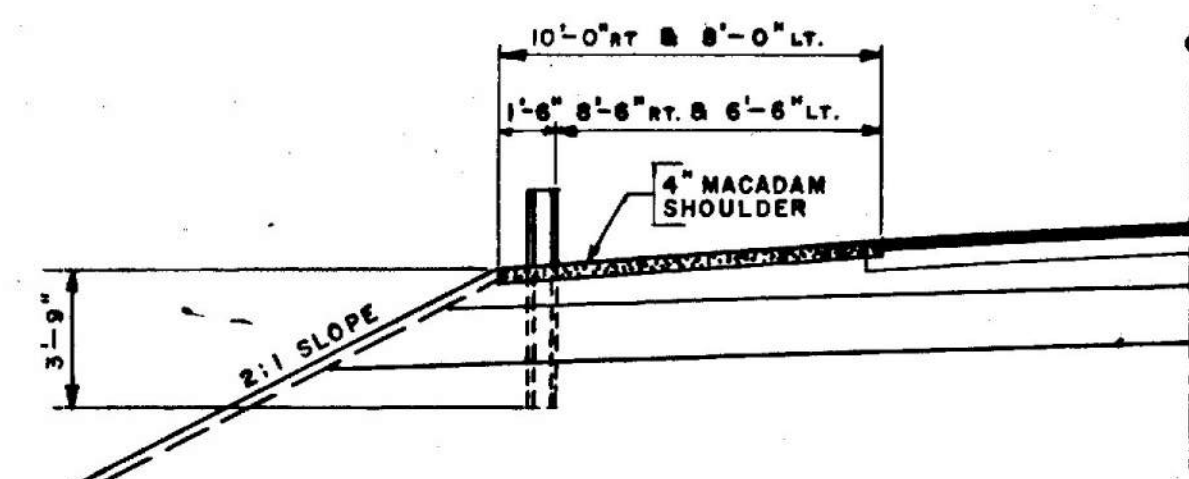


SIDE ELEVATION

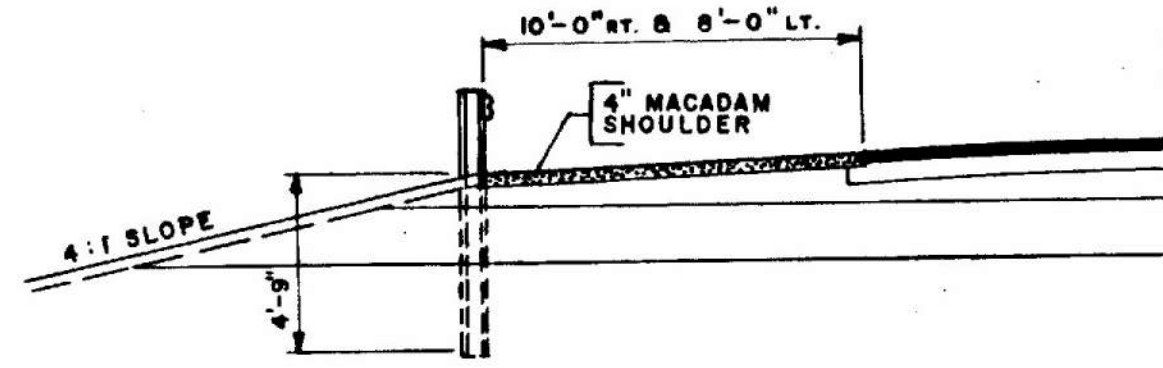
GUARD RAIL LOCATION ON RAMPS AT SLOPE TRANSITION ~ 2:1 to 4:1



PLAN

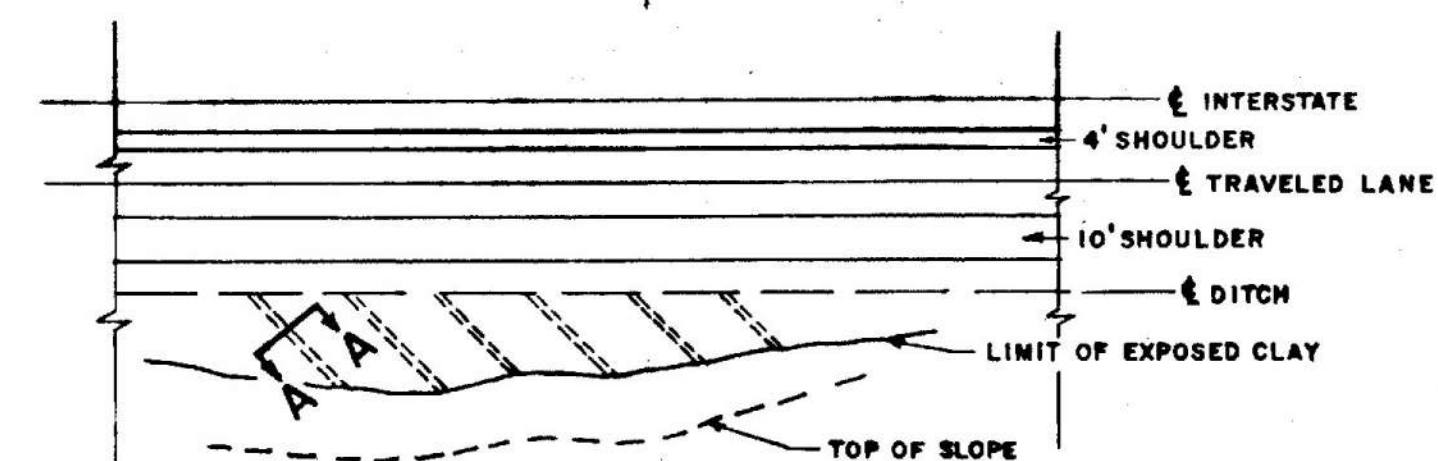


SECTION A-A

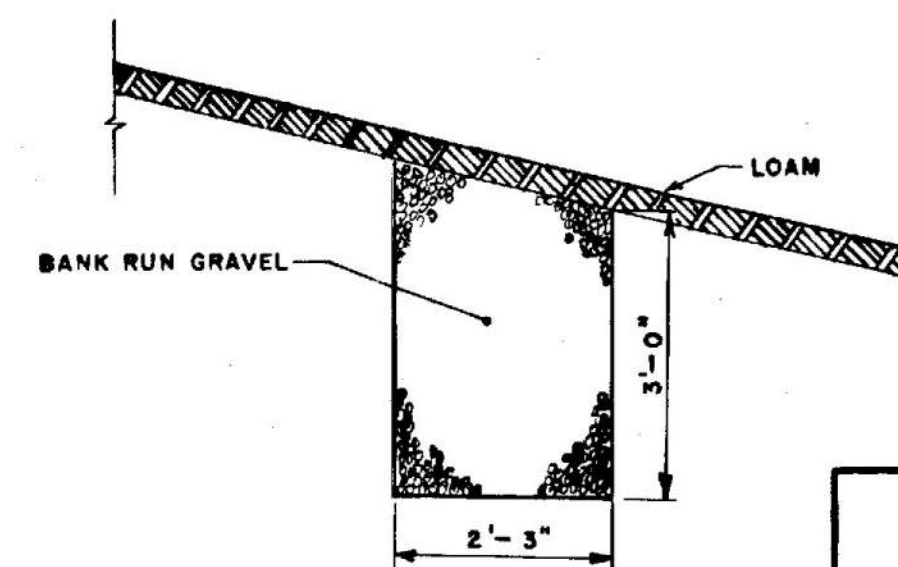


SECTION B-B

CUT SLOPE DRAIN

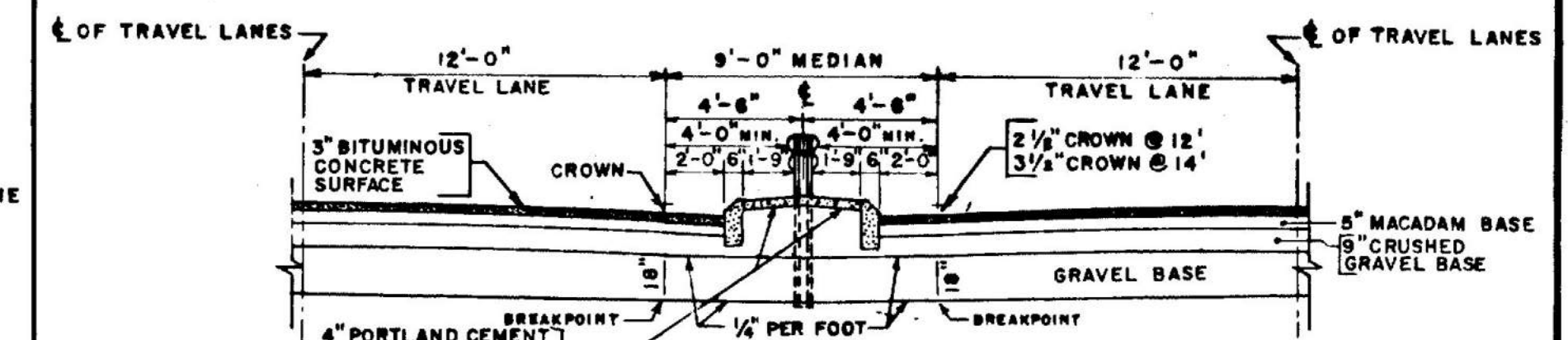


PLAN

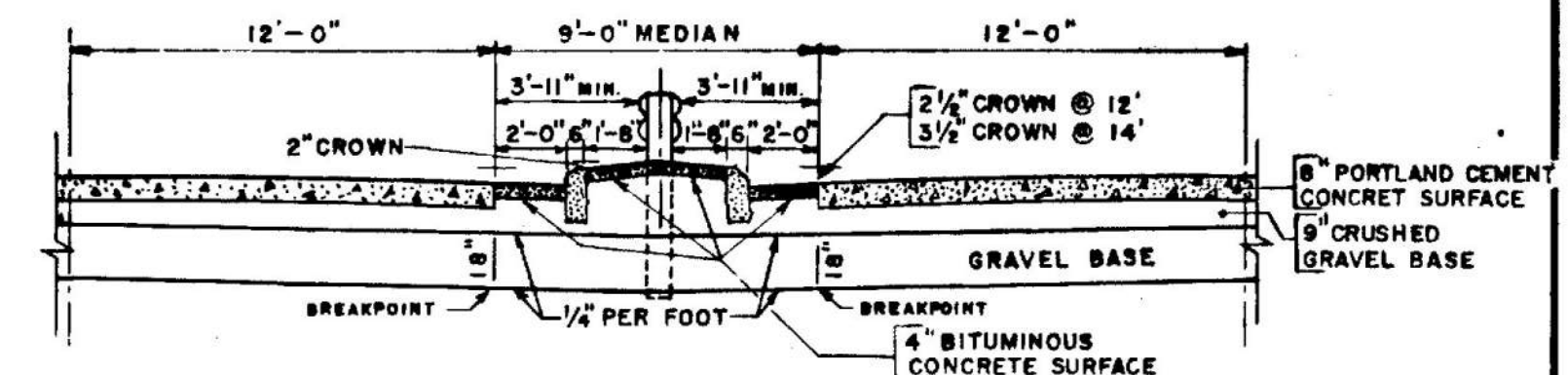


SECTION A-A

9-FOOT MEDIAN

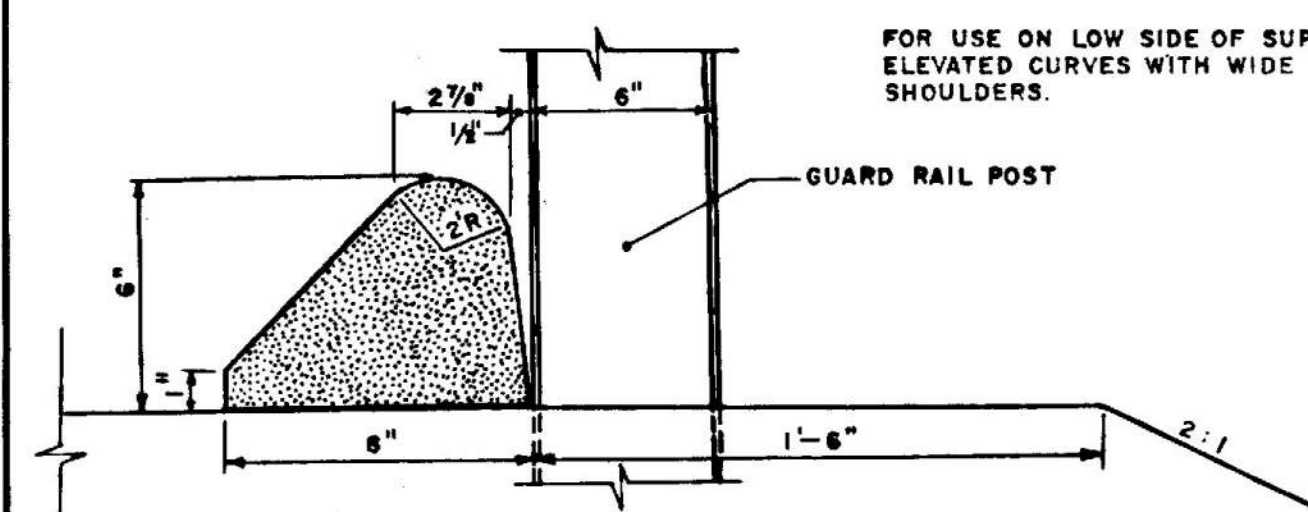


STEEL POST



WOOD POST

BITUMINOUS CONCRETE CURB



FOR USE ON LOW SIDE OF SUPER-ELEVATED CURVES WITH WIDE SHOULDERS.

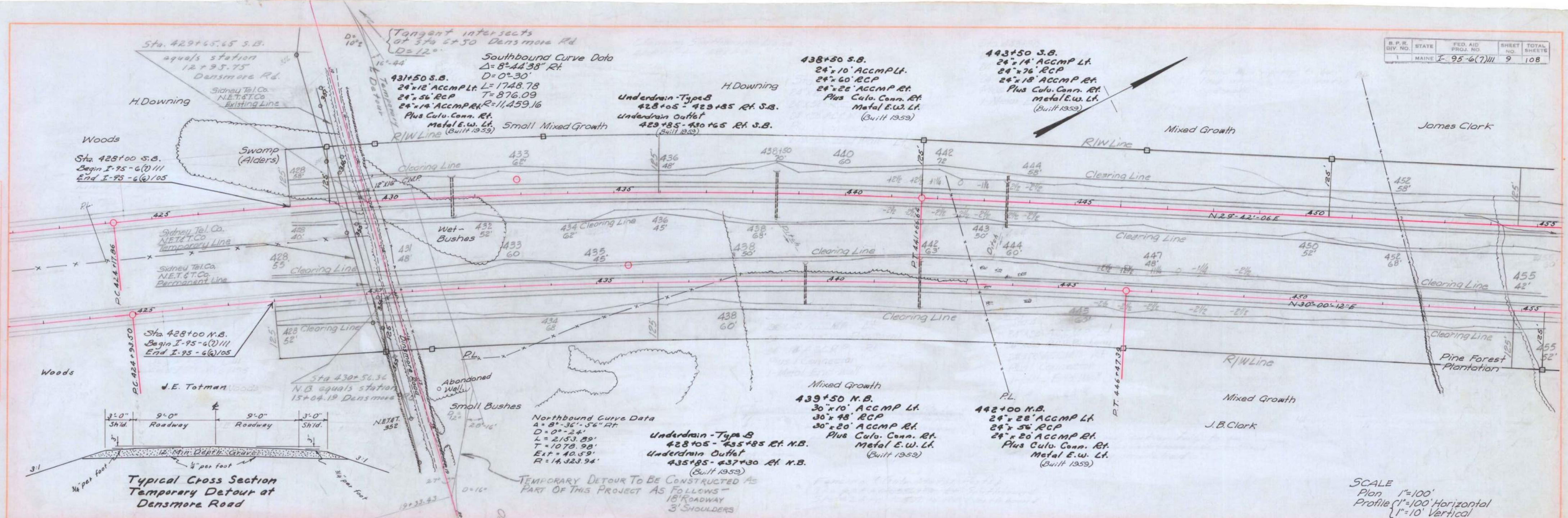
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

BENDS & BANDS, METAL ENDWALLS,
GUARD RAIL ON RAMPS, CUT SLOPE,
DRAIN, 9-FOOT MEDIAN & BITUMINOUS
CONCRETE CURB

PLAN
 1. W. South & Downing
 2. N.B. & T.L.M.
 3. J.B. Clark
 4. J.E. Totman
 5. J.B. Clark
 6. J.B. Clark
 7. J.B. Clark
 8. J.B. Clark
 9. J.B. Clark
 10. J.B. Clark
 11. J.B. Clark
 12. J.B. Clark
 13. J.B. Clark
 14. J.B. Clark
 15. J.B. Clark
 16. J.B. Clark
 17. J.B. Clark
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PROFILE
 1. W. South & Downing
 2. N.B. & T.L.M.
 3. J.B. Clark
 4. J.E. Totman
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Typical Cross Section
 Temporary Detour at
 Densmore Road

SCALE
 Plan 1"=100'
 Profile 1"=100' Horizontal
 1"=10' Vertical

