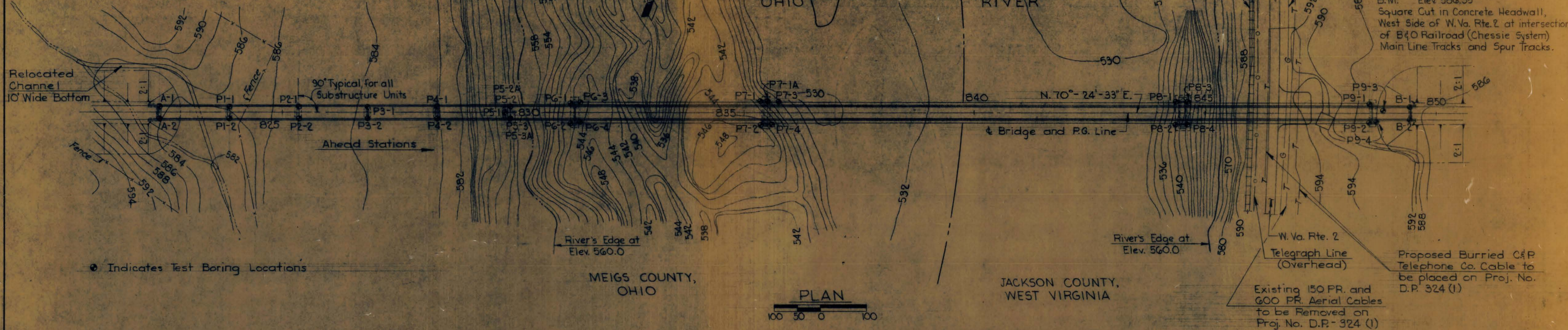


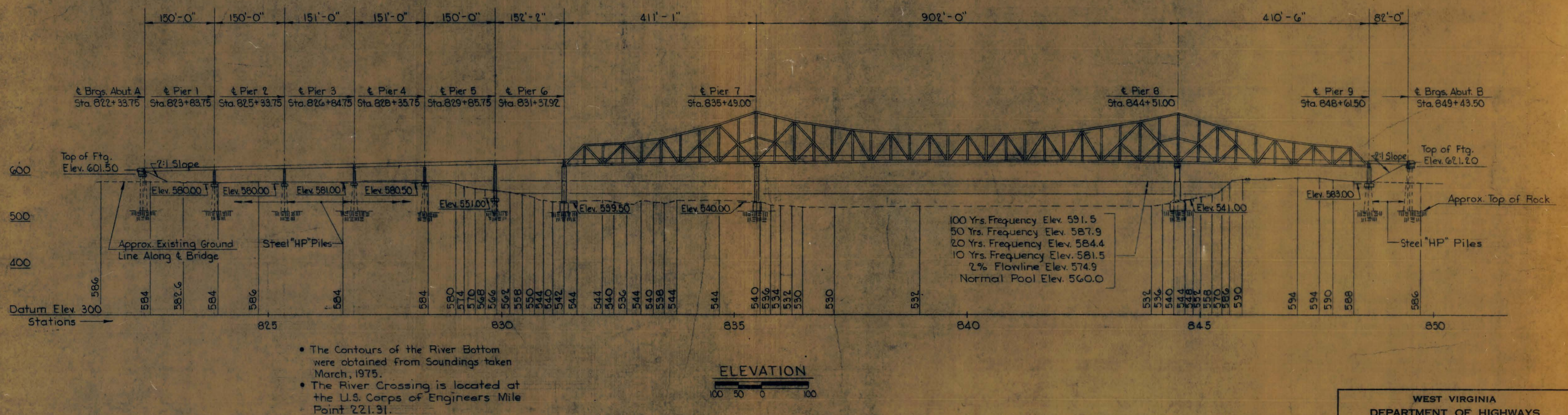
B.M. Elev. 610.16
 Square Cut in Headwall of
 Concrete Box Culvert,
 Left of Sta. 123+50.00, Reloc. S.R. 338

Public Roads Div.	State Dist. No.	State Proj. No.	Federal Proj. No.	Fiscal Year	County	Sheet No.	Total Sheets
W.Va.	3	318-AL56-0.00	358 (road)	1976	Jackson, W. Va. Meigs, Ohio	18	18



● Indicates Test Boring Locations

PLAN
 100 50 0 100



ELEVATION
 100 50 0 100

- The Contours of the River Bottom were obtained from Soundings taken March, 1975.
- The River Crossing is located at the U.S. Corps of Engineers Mile Point 221.31.

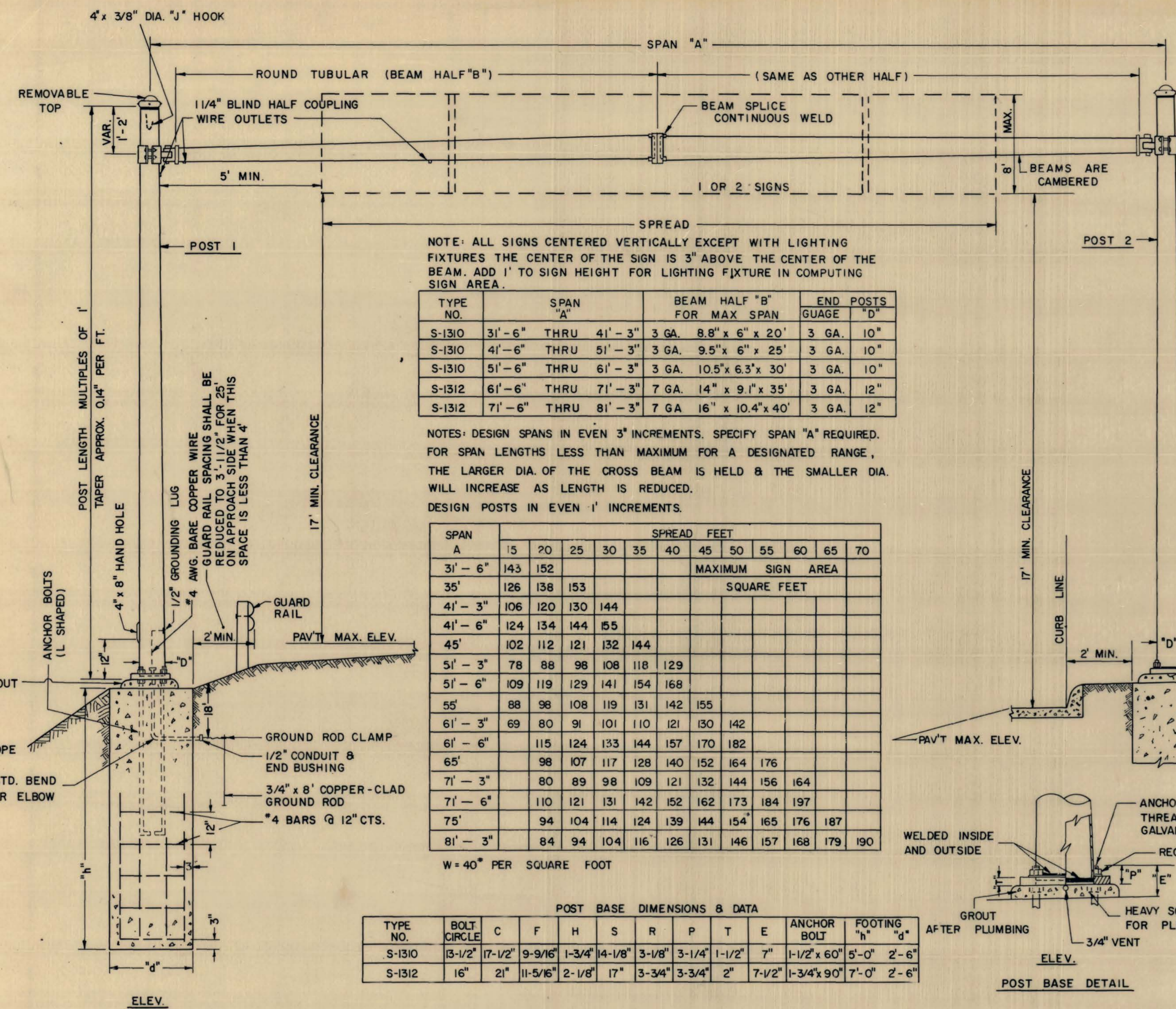
**WEST VIRGINIA
 DEPARTMENT OF HIGHWAYS**

OHIO RIVER BRIDGE AT RAVENSWOOD
 SITUATION PLAN

MICHAEL BAKER, JR., INC.
 CONSULTING ENGINEERS
 CHARLESTON, W. VA. BEAVER, PA.

REV. NO.	SHEET NUMBER	REVISIONS	DATE	BY	
DESIGNED BY	PBA	CHECKED BY	GGB	DATE	5/1/75
DETAILED BY	T.M.K.	CHECKED BY	GGB	DATE	5/1/75
TRACED BY	T.M.K.	CHECKED BY	GGB	DATE	5/1/75

DATE	SCALE	BRIDGE NO.	DWG. NO.
	AS SHOWN	2972	18 of 18



NOTE: ALL SIGNS CENTERED VERTICALLY EXCEPT WITH LIGHTING FIXTURES THE CENTER OF THE SIGN IS 3" ABOVE THE CENTER OF THE BEAM. ADD 1' TO SIGN HEIGHT FOR LIGHTING FIXTURE IN COMPUTING SIGN AREA.

TYPE NO.	SPAN "A"	BEAM HALF "B" FOR MAX SPAN	END POSTS GAUGE "D"
S-1310	31'-6" THRU 41'-3"	3 GA. 8.8" x 6" x 20'	3 GA. 10"
S-1310	41'-6" THRU 51'-3"	3 GA. 9.5" x 6" x 25'	3 GA. 10"
S-1310	51'-6" THRU 61'-3"	3 GA. 10.5" x 6.3" x 30'	3 GA. 10"
S-1312	61'-6" THRU 71'-3"	7 GA. 14" x 9.1" x 35'	3 GA. 12"
S-1312	71'-6" THRU 81'-3"	7 GA. 16" x 10.4" x 40'	3 GA. 12"

NOTES: DESIGN SPANS IN EVEN 3" INCREMENTS. SPECIFY SPAN "A" REQUIRED. FOR SPAN LENGTHS LESS THAN MAXIMUM FOR A DESIGNATED RANGE, THE LARGER DIA. OF THE CROSS BEAM IS HELD & THE SMALLER DIA. WILL INCREASE AS LENGTH IS REDUCED. DESIGN POSTS IN EVEN 1' INCREMENTS.

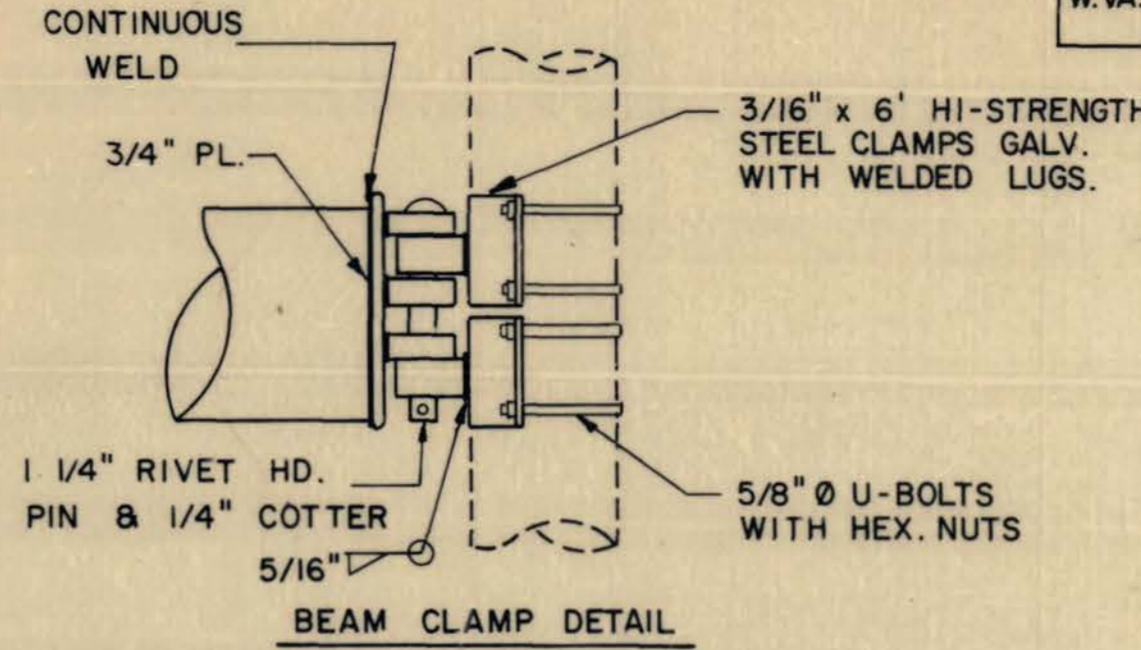
SPAN A	SPREAD FEET											
	15	20	25	30	35	40	45	50	55	60	65	70
31'-6"	143	152										
35'	126	138	153									
41'-3"	106	120	130	144								
41'-6"	124	134	144	155								
45'	102	112	121	132	144							
51'-3"	78	88	98	108	118	129						
51'-6"	109	119	129	141	154	168						
55'	88	98	108	119	131	142	155					
61'-3"	69	80	91	101	110	121	130	142				
61'-6"	115	124	133	144	157	170	182					
65'	98	107	117	128	140	152	164	176				
71'-3"	80	89	98	109	121	132	144	156	164			
71'-6"	110	121	131	142	152	162	173	184	197			
75'	94	104	114	124	139	144	154	165	176	187		
81'-3"	84	94	104	116	126	131	146	157	168	179	190	

W = 40# PER SQUARE FOOT

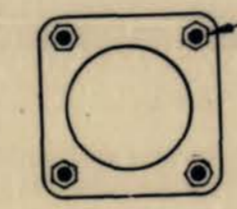
POST BASE DIMENSIONS & DATA											
TYPE NO.	BOLT CIRCLE	C	F	H	S	R	P	T	E	ANCHOR BOLT	FOOTING "h" "d"
S-1310	13-1/2"	17-1/2"	9-9/16"	1-3/4"	14-1/8"	3-1/8"	3-1/4"	1-1/2"	7"	1-1/2" x 60"	5'-0" 2'-6"
S-1312	16"	21"	11-5/16"	2-1/8"	17"	3-3/4"	3-3/4"	2"	7-1/2"	1-3/4" x 90"	7'-0" 2'-6"

TYPE NO.	DIA. "d"	ESTIMATED QUANTITIES						
		CL.B CONC. FOOTINGS		REINFORCING STEEL *				
		1' DEPTH	1' DEPTH	* 6	* 4			
		C. Y.	C. Y.	NO. FT. IN.	NO. FT. IN.	LBS.	LBS.	
S-1310	2'-6"	.1818	.01515	8	4'-6"	6	4'-6"	46
S-1312	2'-6"	.1818	.01515	8	6'-3"	7	6'-6"	58

* NOT A PAY ITEM

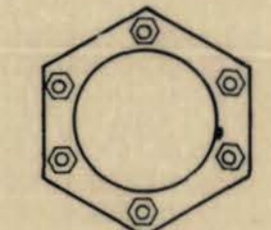


1-1/4" x 4" HIGH-TENSILE HEX. HD. BOLTS
2-3/4" THREAD LENGTH 4" BOLT

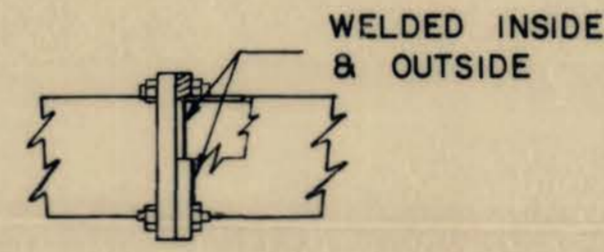


BEAM SPLICE DETAIL
TUBE DIA. 9.5" & UNDER

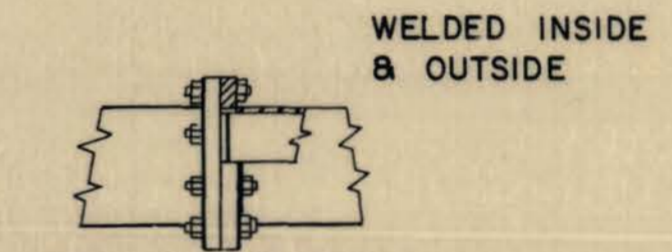
1-1/4" x 4" HIGH-TENSILE HEX. HD. BOLTS
6 REQ D. 2-3/4" THREAD LENGTH



BEAM SPLICE DETAIL
TUBE DIA. OVER 9.5"



BEAM SPLICE DETAIL



BEAM SPLICE DETAIL

NOTES:
SIGN BRACKETS AND/OR SIGN LIGHTING FOR DETAILS SEE TE6-3D.

CONNECTIONS SHALL BE DESIGNED FOR THE LOAD ON THE MEMBERS BUT NOT LESS THAN 75 PERCENT OF THE STRENGTH OF THE MEMBERS. MINIMUM WELD SIZE 3/16 INCHES.

TUBULAR STEEL POST NUMBERING SYSTEM

THE FIRST SYMBOL (LETTER) INDICATES TYPE AS, C FOR CANTILEVER, B FOR BUTTERFLY, S FOR SPAN TYPE.

THE SECOND SYMBOL (NUMBER) INDICATES SINGLE (1) OR DOUBLE (2) MASTARMS OR TRUSS.

THE THIRD SYMBOL (NUMBER) INDICATES GAUGE OF POST
7 = 7 GAUGE (.1793)" 77 = 7+7 GAUGE (.3585)"
3 = 3 GAUGE (.2500)" 33 = 3+3 GAUGE (.5000)"
0 = 0 GAUGE (.3125)" 00 = 0+0 GAUGE (.6250)"

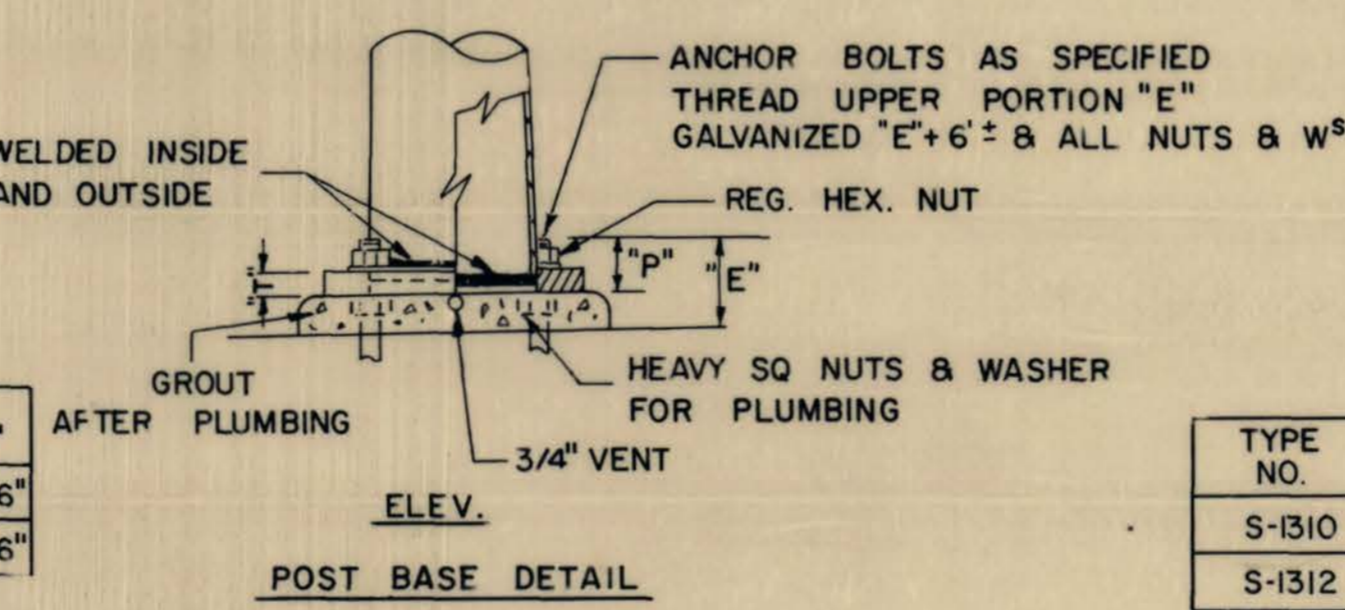
THE FOURTH SYMBOL (NUMBER) INDICATES DIAMETER IN INCHES OF POST BASE.

THE FIFTH SYMBOL INDICATES SPAN LENGTH IN FEET.

EXAMPLE DESIGN NO. S-10018-60.25 INDICATES SPAN TYPE

ONE TUBE BEAM, 2 PLY OGA, 18" DIA. AT BASE, & SPAN LENGTH 60.25'

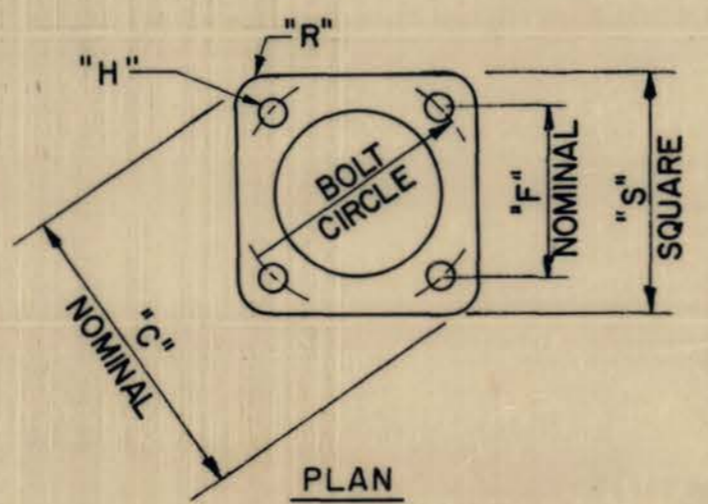
ENTIRE STRUCTURE TO BE H.D. GALVANIZED IN ACCORDANCE WITH ASTM A123



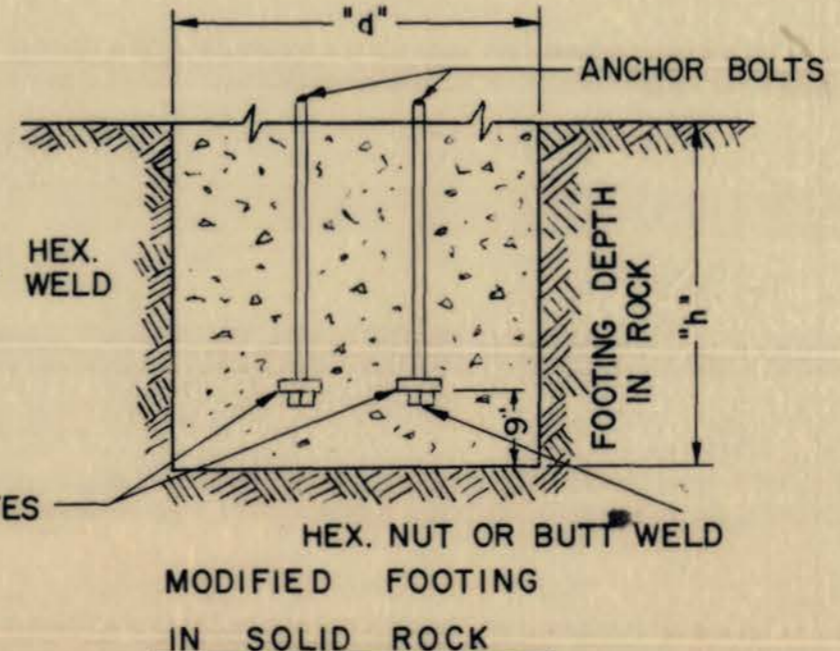
POST BASE DETAIL

MODIFIED FOOTING IN SOLID ROCK				
TYPE NO.	ANCHOR BOLT	ANCHOR BOLT PLATE	FOOTING	
			"h"	"d"
S-1310	1-1/2" DIA.	3-1/2" x 3-1/2" x 3/4"	2'-6"	2'-6"
S-1312	1-3/4" DIA.	3-1/2" x 3-1/2" x 3/4"	2'-6"	2'-6"

ANCHOR BOLT LENGTH AS REQUIRED



PLAN POST BASE DETAIL



MODIFIED FOOTING IN SOLID ROCK

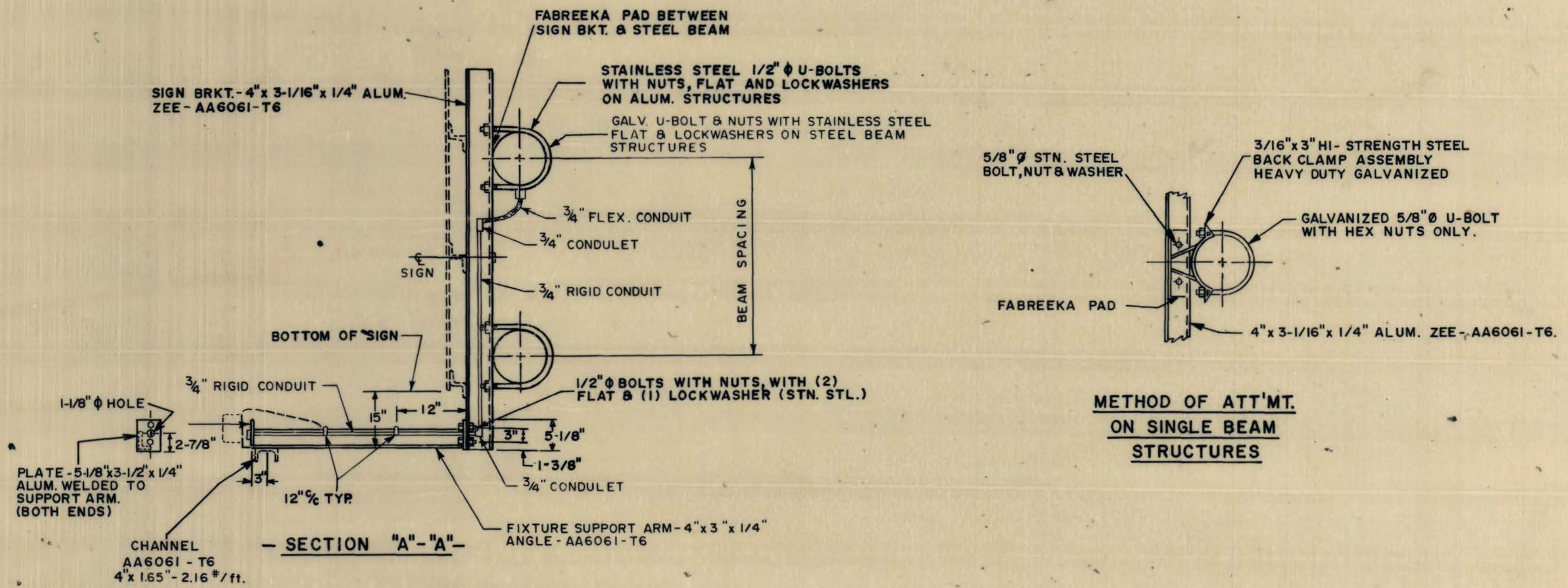
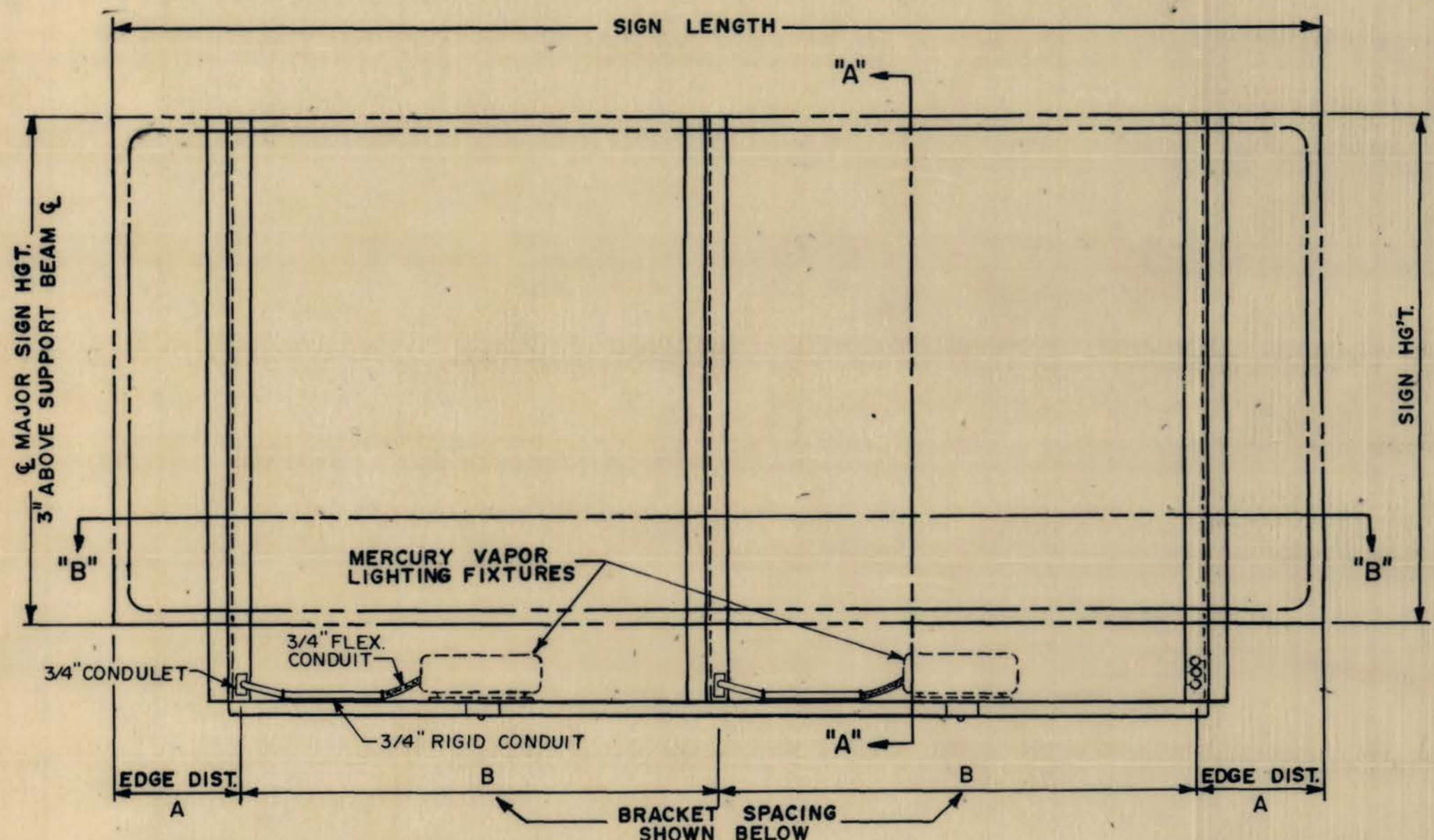
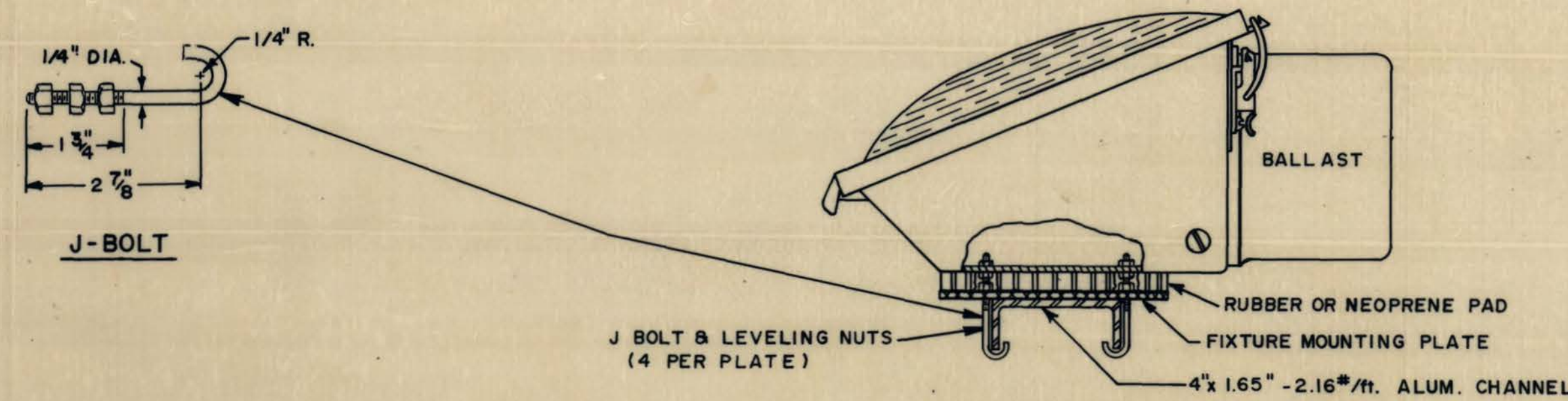
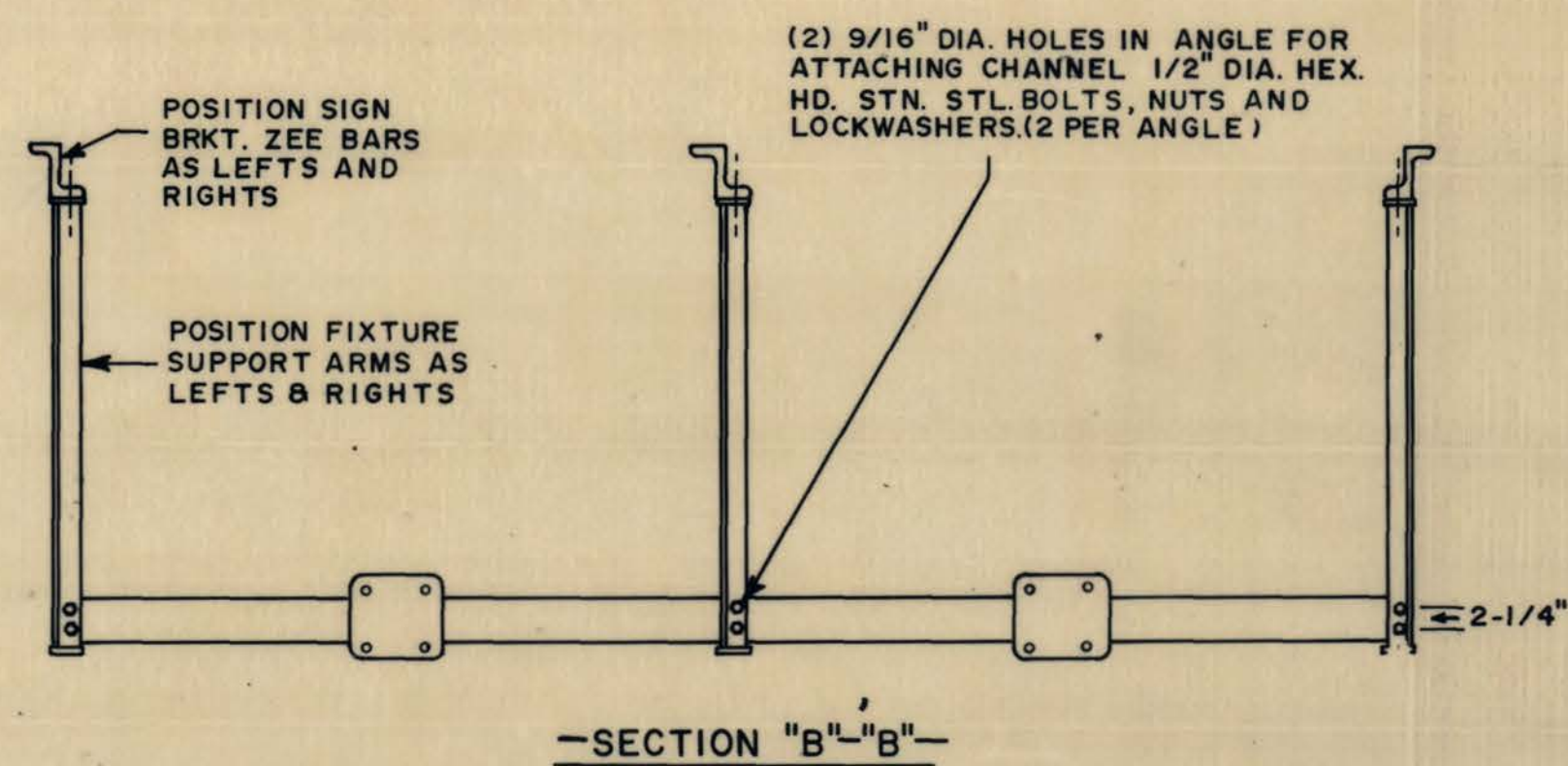
FASTEN ANCHOR BOLTS TO R WITH HEX. NUTS OR BY BUTT WELD

REINFORCEMENT PLACED SAME AS STANDARD FOOTING

ANCHOR BOLT PLATES

WEST VIRGINIA DEPARTMENT OF HIGHWAYS STANDARD DETAIL OVERHEAD SIGN SUPPORT-STEEL ONE TUBE SPAN

PREPARED - 2-3-75
REVISIONS
10-22-75



SIGN LENGTH	Q'TY OF FIXTURES	SIGN BRACKET	BRACKET SPACING		SIGN LENGTH	Q'TY OF FIXTURES	SIGN BRACKET	BRACKET SPACING		SIGN LENGTH	Q'TY OF FIXTURES	SIGN BRACKET	BRACKET SPACING	
			A	B				A	B				A	B
4'-0"	1	2	12"	1@24"	13'-6"	2	3	27"	2@54"	23'-0"	3	4	24"	3@76"
4'-6"	1	2	13"	1@28"	14'-0"	2	3	28"	2@56"	23'-6"	3	4	27"	3@76"
5'-0"	1	2	15"	1@30"	14'-6"	2	3	29"	2@58"	24'-0"	3	4	30"	3@76"
5'-6"	1	2	16"	1@34"	15'-0"	2	3	30"	2@60"	24'-6"	3	4	30"	3@78"
6'-0"	1	2	18"	1@36"	15'-6"	2	3	30"	2@63"	25'-0"	3	4	30"	3@80"
6'-6"	1	2	19"	1@40"	16'-0"	2	3	30"	2@66"	25'-6"	3	4	30"	3@82"
7'-0"	1	2	21"	1@42"	16'-6"	2	3	30"	2@69"	26'-0"	3	4	30"	3@84"
7'-6"	1	2	22"	1@46"	17'-0"	2	3	30"	2@72"	26'-6"	3	4	30"	3@86"
8'-0"	1	2	24"	1@48"	17'-6"	2	3	30"	2@75"	27'-0"	3	4	30"	3@88"
8'-6"	1	2	25"	1@52"	18'-0"	2	3	30"	2@78"	27'-6"	3	4	30"	3@90"
9'-0"	1	2	27"	1@54"	18'-6"	2	3	30"	2@81"	28'-0"	3	4	30"	3@92"
9'-6"	1	2	28"	1@58"	19'-0"	2	4	24"	3@60"	28'-6"	3	5	27"	4@72"
10'-0"	1	2	30"	1@60"	19'-6"	2	4	24"	3@62"	29'-0"	3	5	24"	4@75"
10'-6"	2	3	21"	2@42"	20'-0"	2	4	24"	3@64"	29'-6"	4	5	9"	4@84"
11'-0"	2	3	22"	2@44"	20'-6"	3	4	9"	3@76"	30'-0"	4	5	12"	4@84"
11'-6"	2	3	23"	2@46"	21'-0"	3	4	12"	3@76"					
12'-0"	2	3	24"	2@48"	21'-6"	3	4	15"	3@76"					
12'-6"	2	3	25"	2@50"	22'-0"	3	4	18"	3@76"					
13'-0"	2	3	26"	2@52"	22'-6"	3	4	21"	3@76"					

TOTAL SIGN H'GT	FIXTURE SUPPORT ARM LENGTH	APPROX. AIMING ANGLE	LAMP WATTS	A.N.S.I. CODE	LAMP WATTS	A.N.S.I. CODE	LAMP WATTS	A.N.S.I. CODE
3'-0" to 5'-0"	2'-9"	0°	100	H38-4HT	175	H39-22KB	250	H37-5KB
5'-1" to 6'-6"	3'-3"	0°						
6'-7" to 10'-0"	4'-3"	2°						
10'-1" to 14'-0"	5'-9"	2°						

△ ADDED 100W AND 175W LAMPS
 △ MOVED WIRING TO TOP

WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
 TYPE 3
SIGN LIGHTING-MOUNTING

PREPARED-C.B.JR. 2/75
 REVISIONS
 △ 7/22/76
 △ 2/15/77

STANDARD SHEET TE6-3D

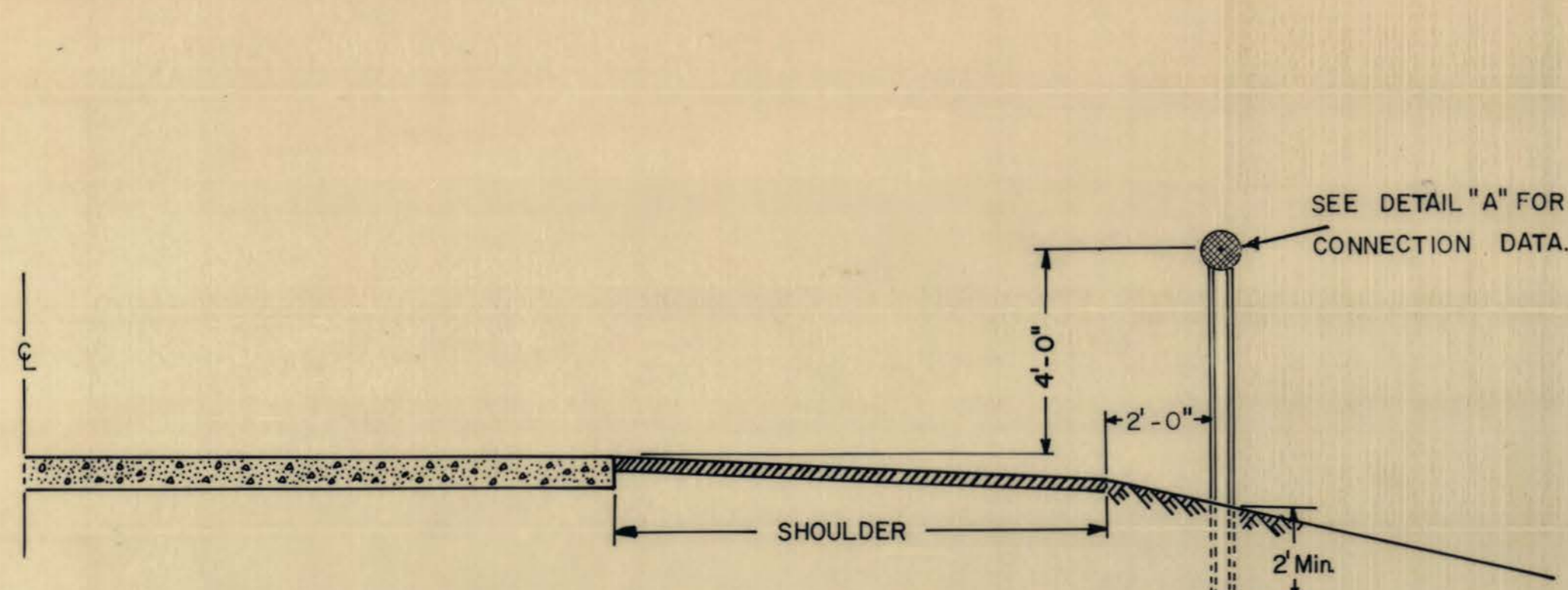
SPACING FOR HIGHWAY DELINEATORS

DEGREE OF CURVE	RADIUS IN FEET	SPACING ON CURVE	SPACING IN ADVANCE & BEYOND CURVE		
			1st SPACE	2nd SPACE	3rd SPACE
0 to 1.5	>10,000 to 3,821	300	300	300	300
1.5-1.7	3,820-3,400	185	300	300	300
1.8-2.2	3,399-2,600	160	300	300	300
2.3-2.7	2,599-2,100	140	280	300	300
2.8-3.2	2,099-1,800	130	260	300	300
3.3-3.8	1,799-1,500	120	240	300	300
3.9-4.5	1,499-1,300	110	220	300	300
4.6-5.4	1,299-1,100	100	200	300	300
5.5-6.7	1,099-850	90	180	270	300
6.8-8.5	849-670	80	160	240	300
8.6-11.0	669-520	70	140	210	300
11.1-14.9	519-390	60	120	180	300
15.0-21.0	389-270	50	100	150	300
21.1-31.0	269-180	40	80	120	240
31.1-48.0	179-120	30	60	90	180
48.1-75.0	119-75	20	40	60	120
> 75	> 75	20	20	30	60

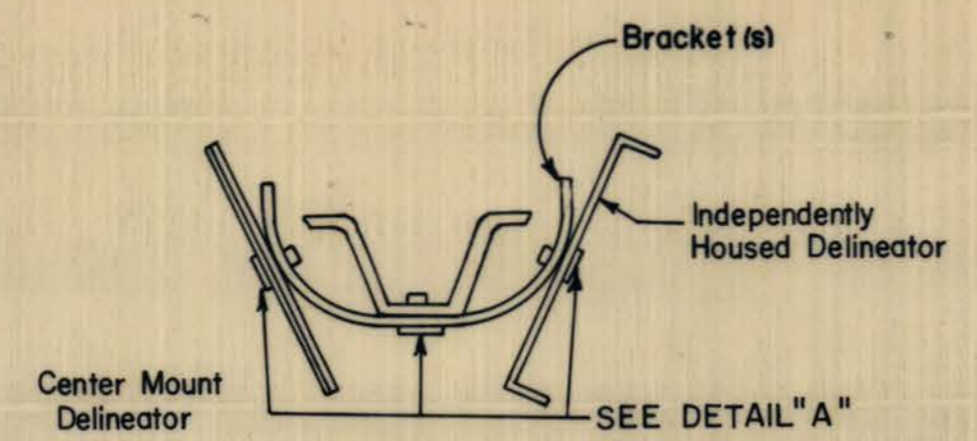
NOTES

DELINEATOR SPACING SHALL BE MEASURED AT THE EDGE OF PAVEMENT NEAREST TO THE LOCATION OF DELINEATOR. SPACING SHALL BE DETERMINED FROM THE CURVE DATA SHOWN ON THE CURVE DATA SHEET OF THE PLANS. SPACING ON TANGENTS SHALL BE 300 FEET.

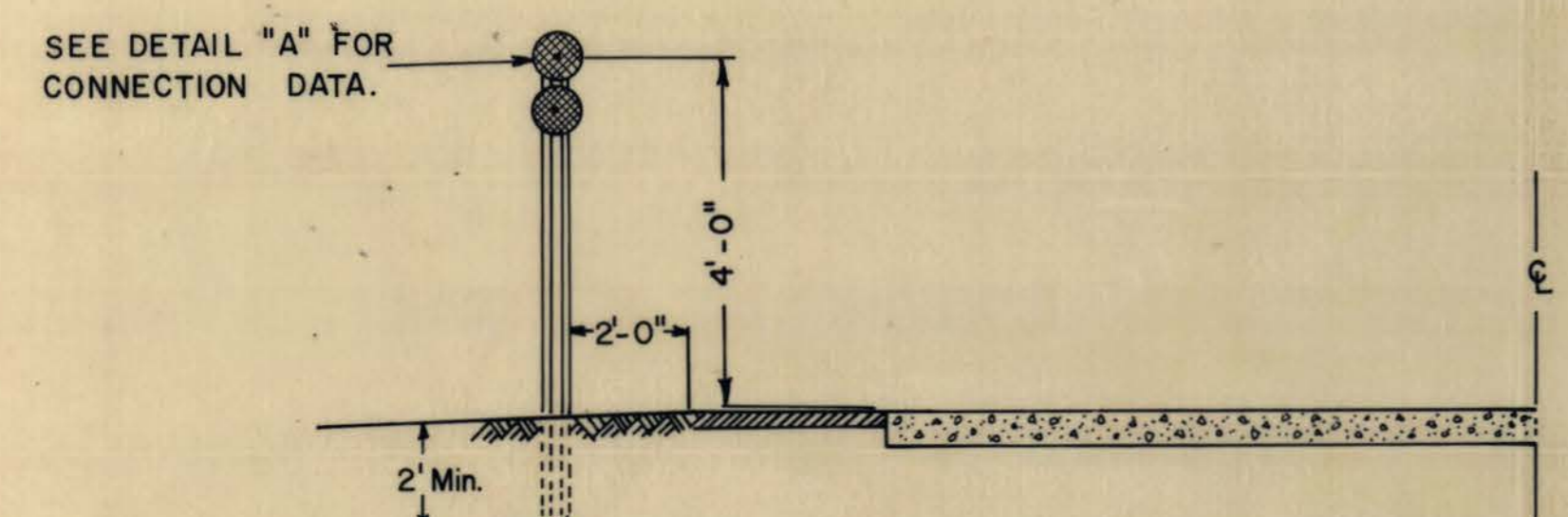
THE SPACING S ON THE CURVE IS FOUND FROM THE FORMULA $S = 3\sqrt{R-50}$, WHERE R IS THE RADIUS OF THE CURVE IN FEET. THE SPACING TO THE FIRST DELINEATOR IN ADVANCE OF AND BEYOND THE CURVE IS $2S$, TO THE NEXT DELINEATOR $3S$, AND TO THE NEXT $6S$, BUT NOT TO EXCEED 300 FEET. MINIMUM SPACING IS 20 FEET.



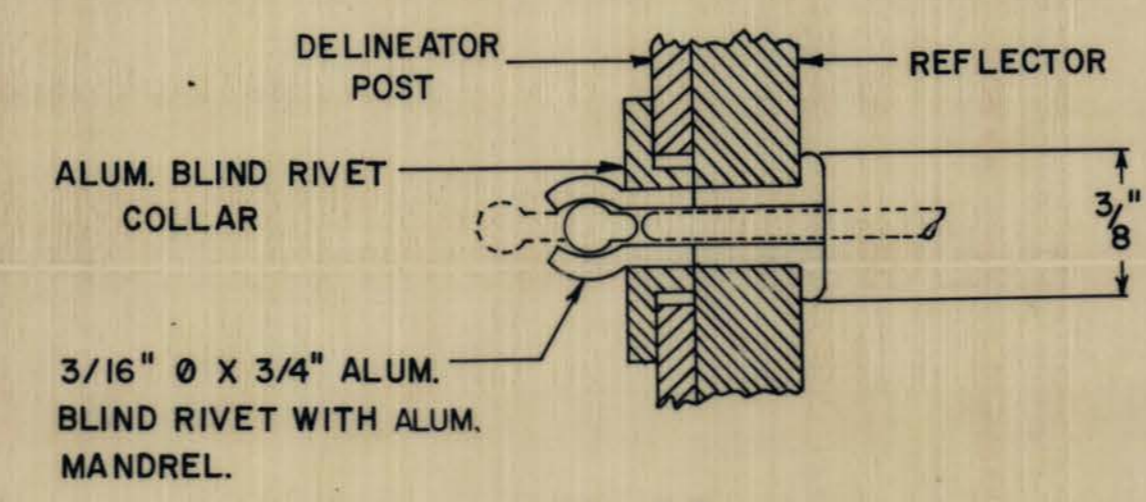
DELINEATOR PLACEMENT
TYPICAL SECTION



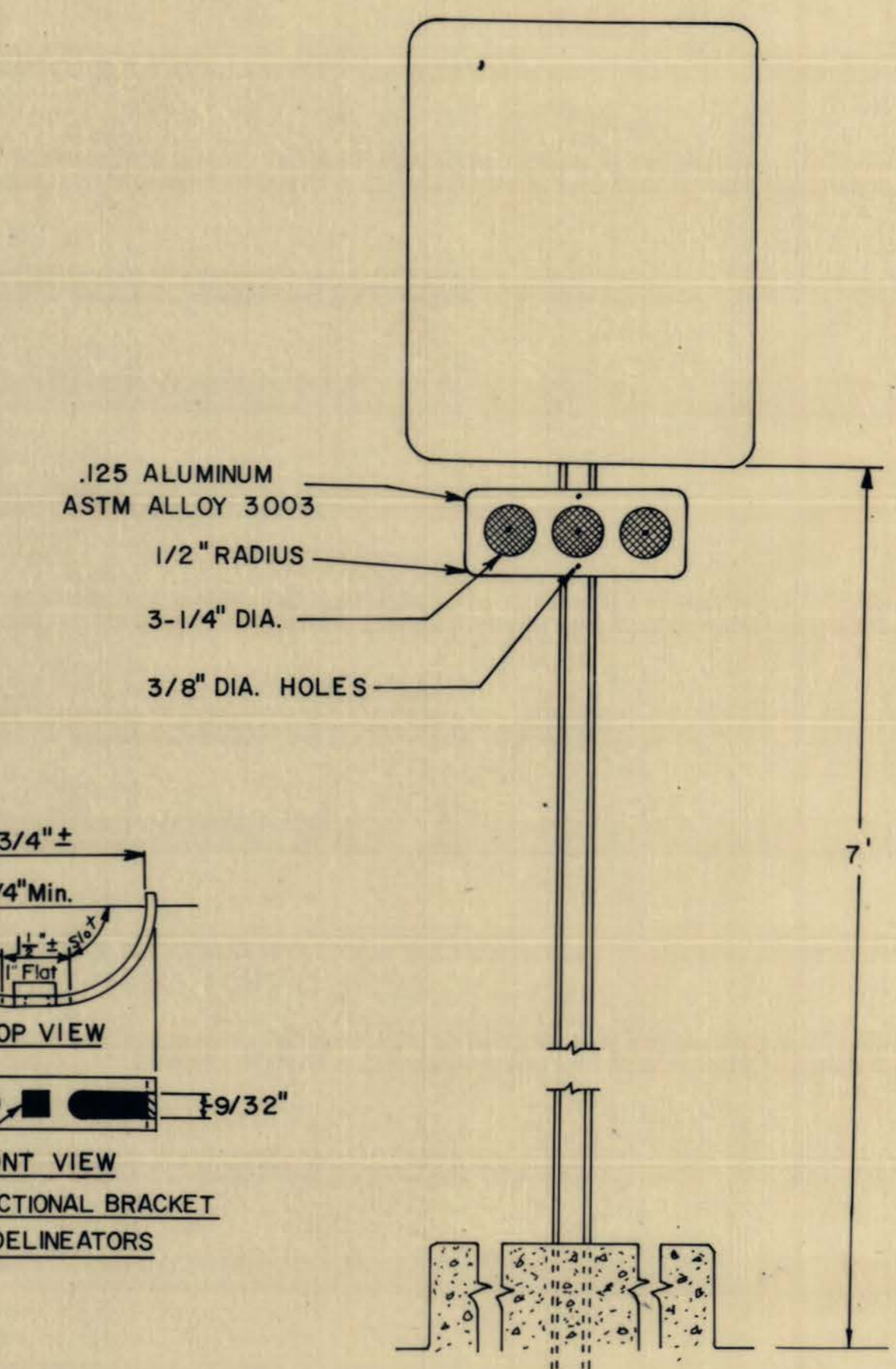
WINGED CHANNEL
BIDIRECTIONAL MOUNTING
DELINEATORS (WHEN NOTED
ON PLANS FOR 2-LANE ROADWAYS)



DELINEATOR PLACEMENT
TYPICAL SECTION - LEFT EDGE OF RAMP



DETAIL "A"
DELINEATOR ATTACHMENT



TYPICAL XR-3 INSTALLATION

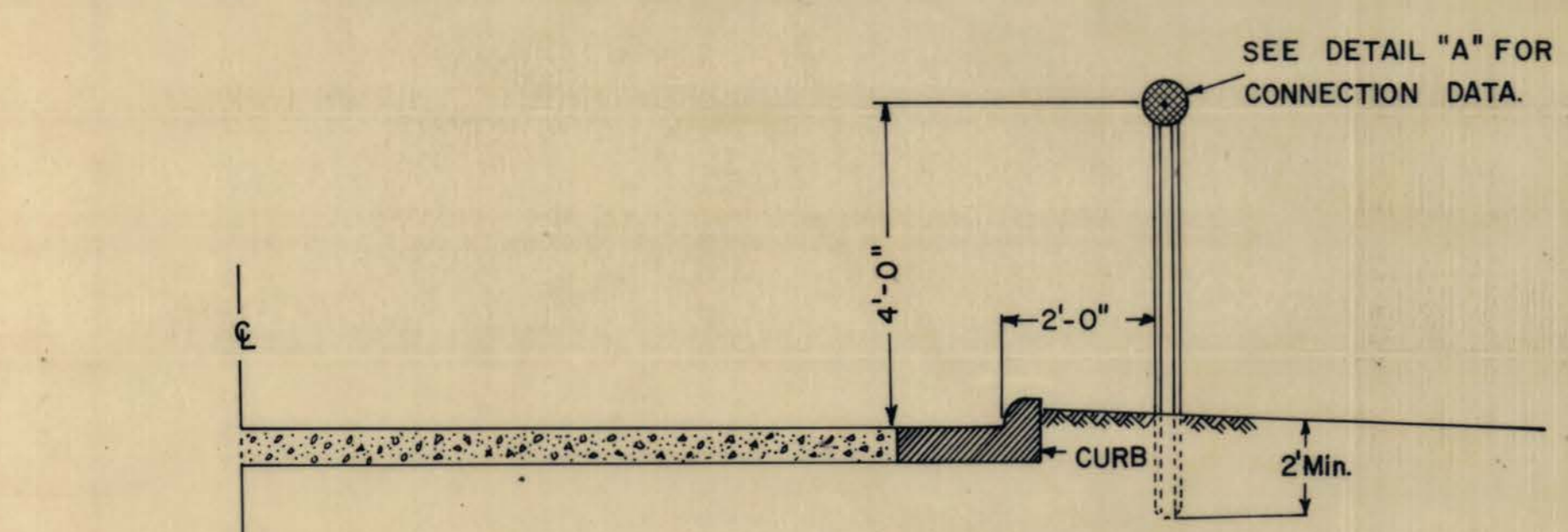
- △ XR-9 from .064 to .125, Spacing formula added, median detail.
- △ XR-3, XR-9
- △ Delineator placement on ramp.
- △ XR-3 Connection Detail.
- △ Bidirectional mounts
- △ Delineator Chart
- △ Deleted Reduced Spacing Below 1.5°

WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
HIGHWAY DELINEATORS - GENERAL

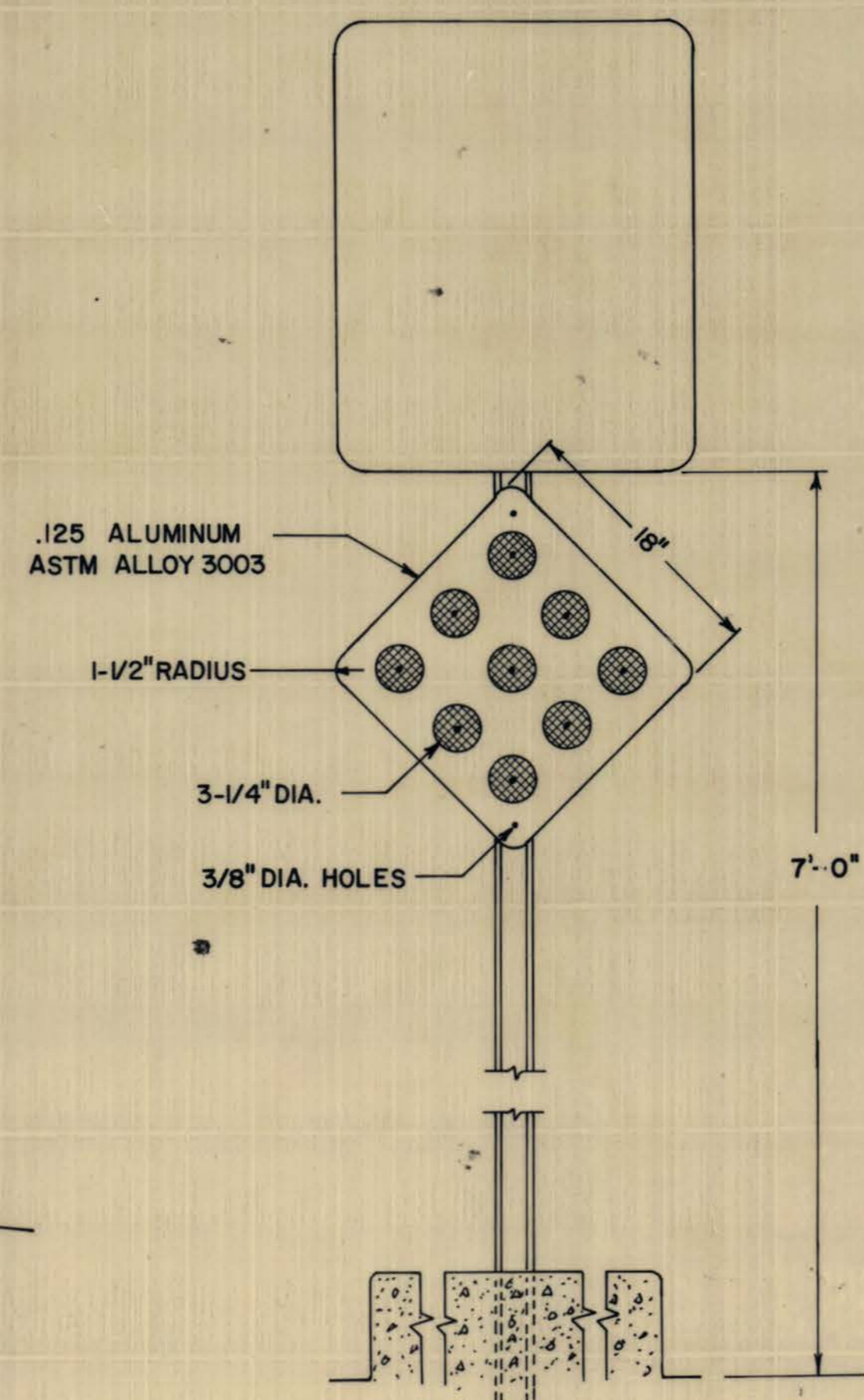
PREPARED - R.E.W. 3-67

REVISIONS
4-22-68
6-6-68
9-9-69
11-25-69
4-1-71
11-15-76
10-6-77

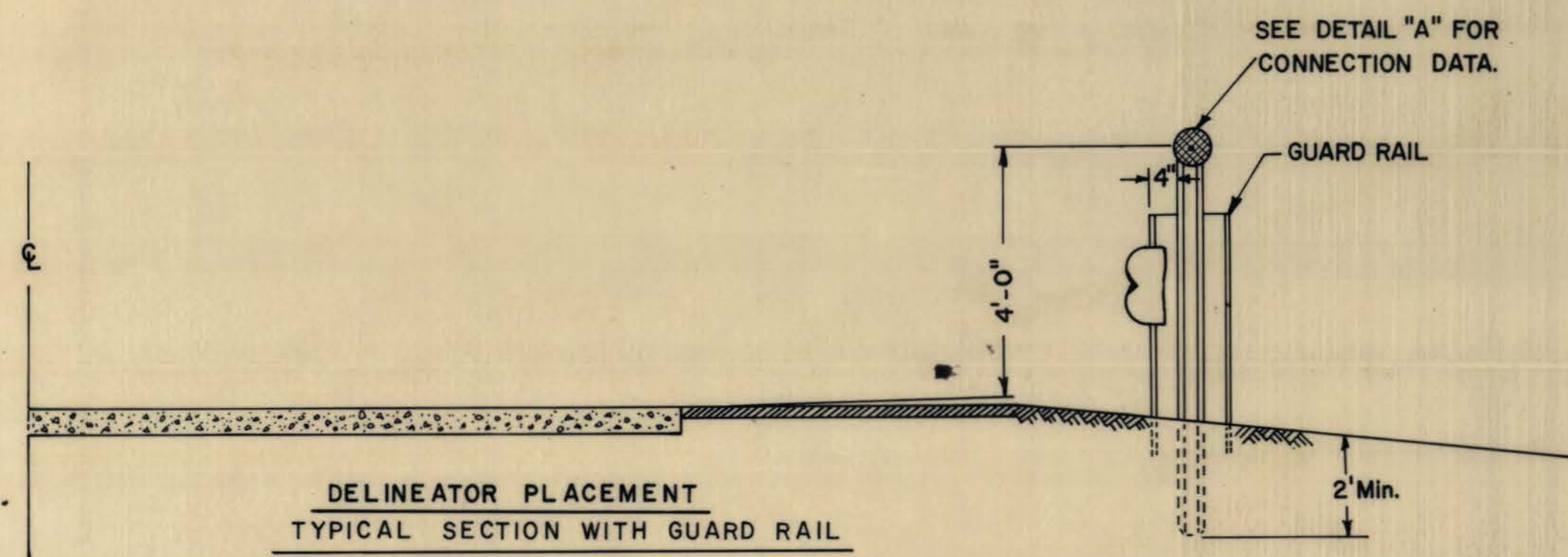
STANDARD SHEET TE11-1



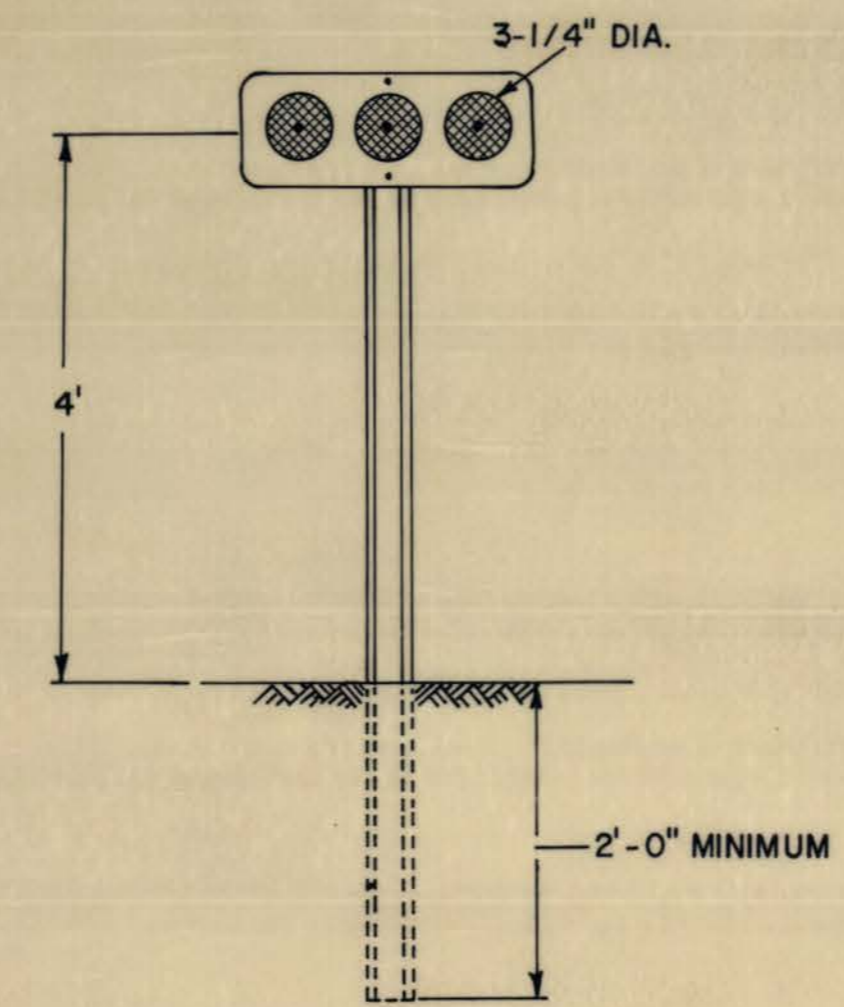
DELINEATOR PLACEMENT
TYPICAL SECTION WITH CURBING



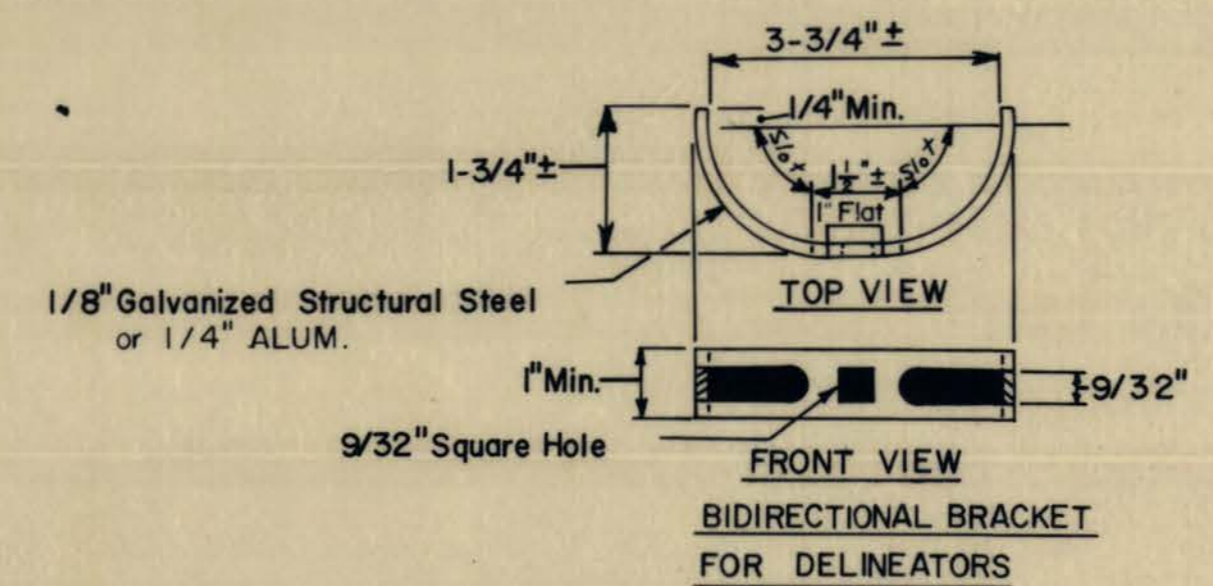
TYPICAL XR-9 INSTALLATION



DELINEATOR PLACEMENT
TYPICAL SECTION WITH GUARD RAIL

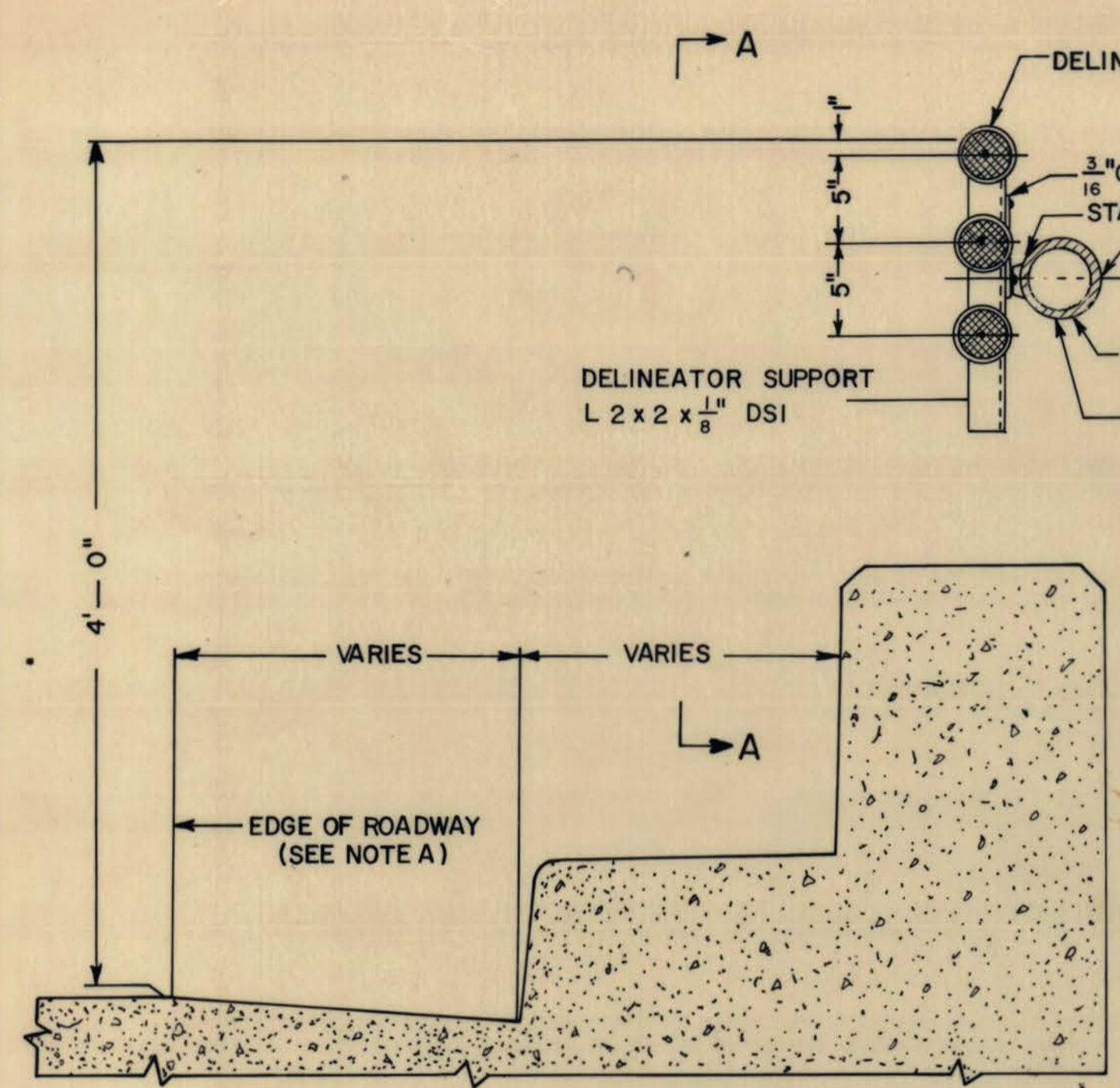


SINGLE DELINEATOR INSTALLATION



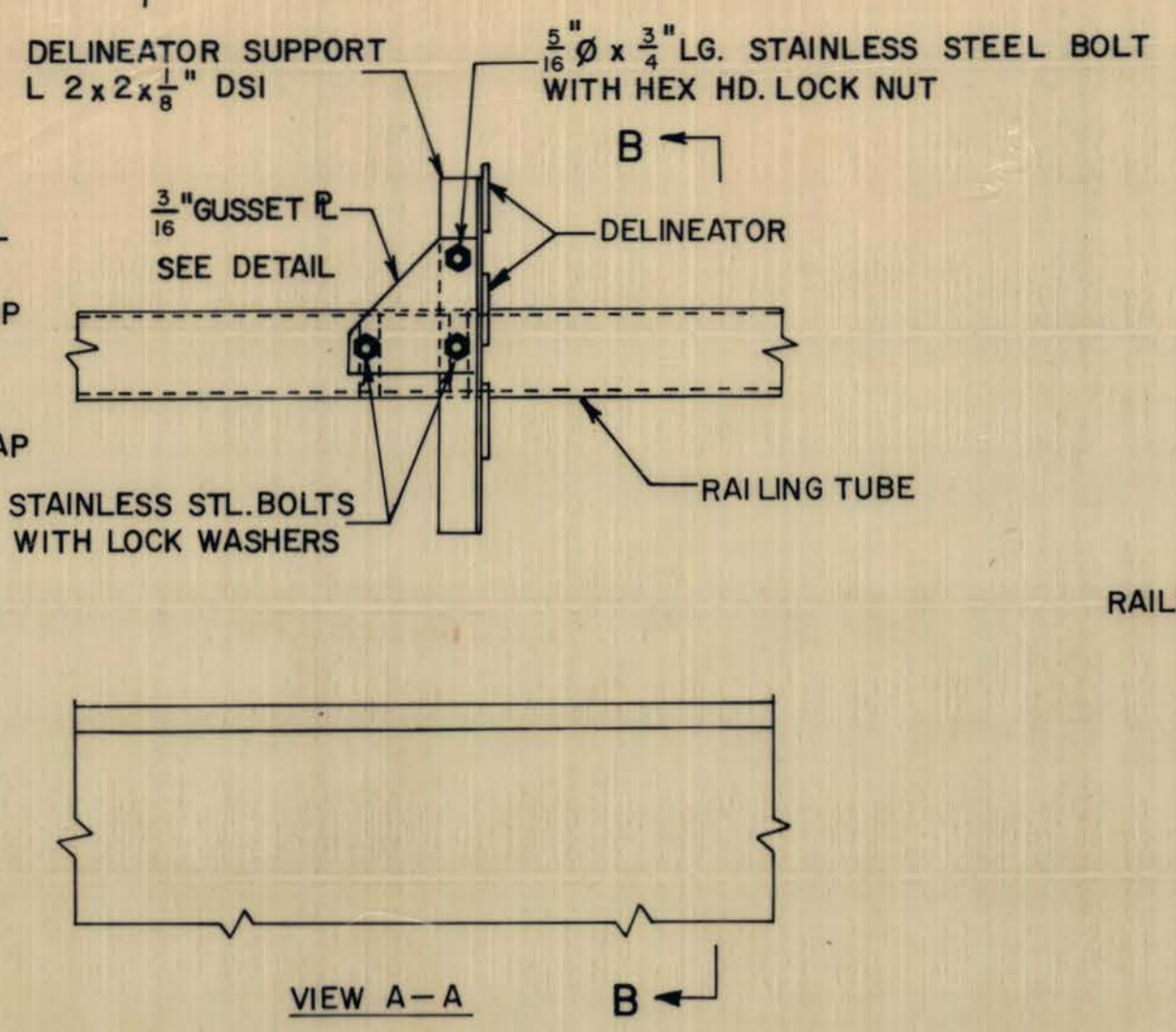
BIDIRECTIONAL BRACKET
FOR DELINEATORS

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.VA.	3	318-AL56-0.00	F-338(002)	197	JACKSON W. VA. MEIGS OHIO	116 D	125

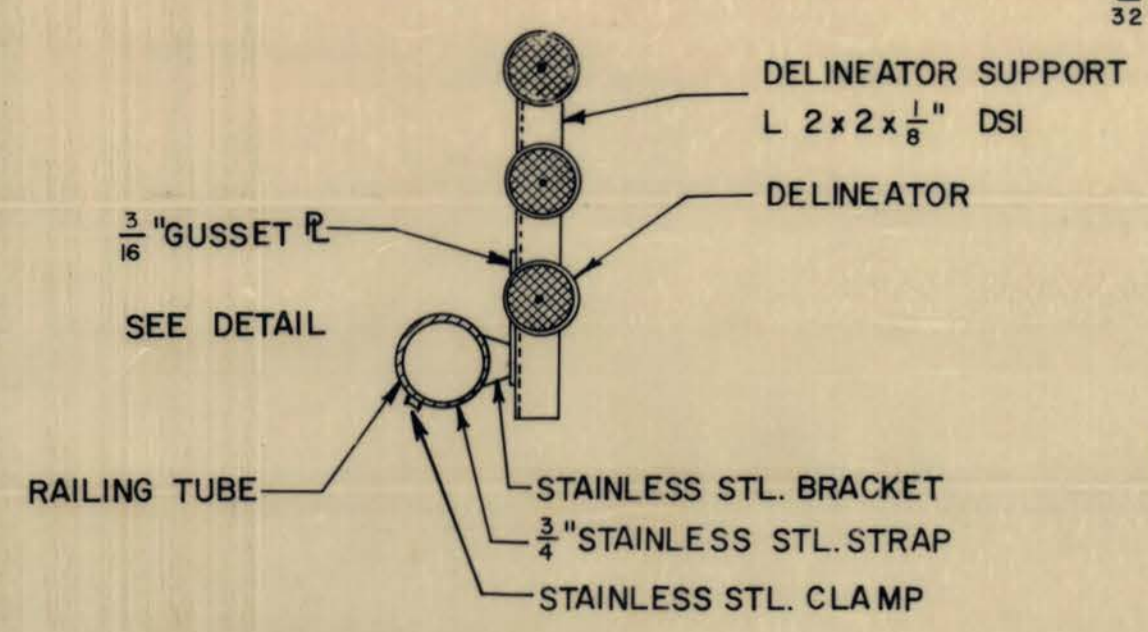


DETAIL SHOWING DELINEATOR ASSEMBLY ATTACHED TO RDWY. SIDE OF TUBE RAILING

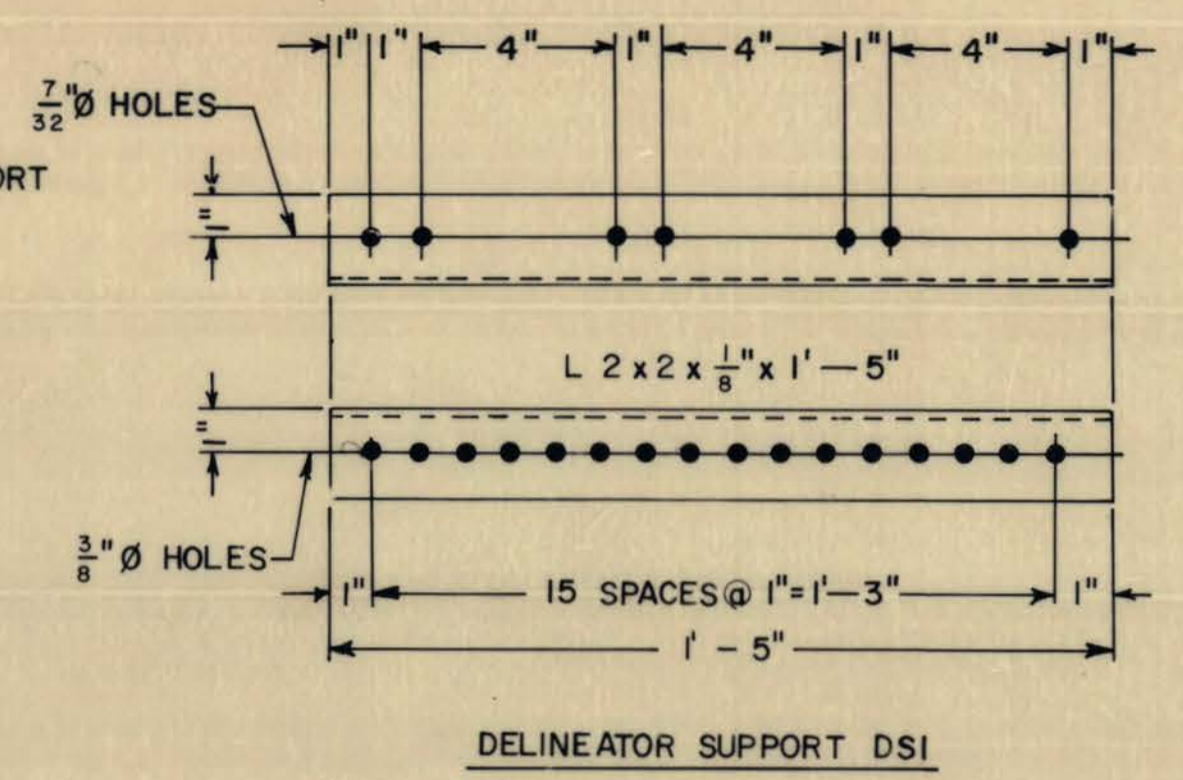
NOTE A
EDGE OF ROADWAY ON BRIDGE IS THIS PROJECTION OF THE EDGE OF ROADWAY ON ADJACENT FILL SECTION OR AS INDICATED BY THE PAVEMENT EDGE MARKINGS.



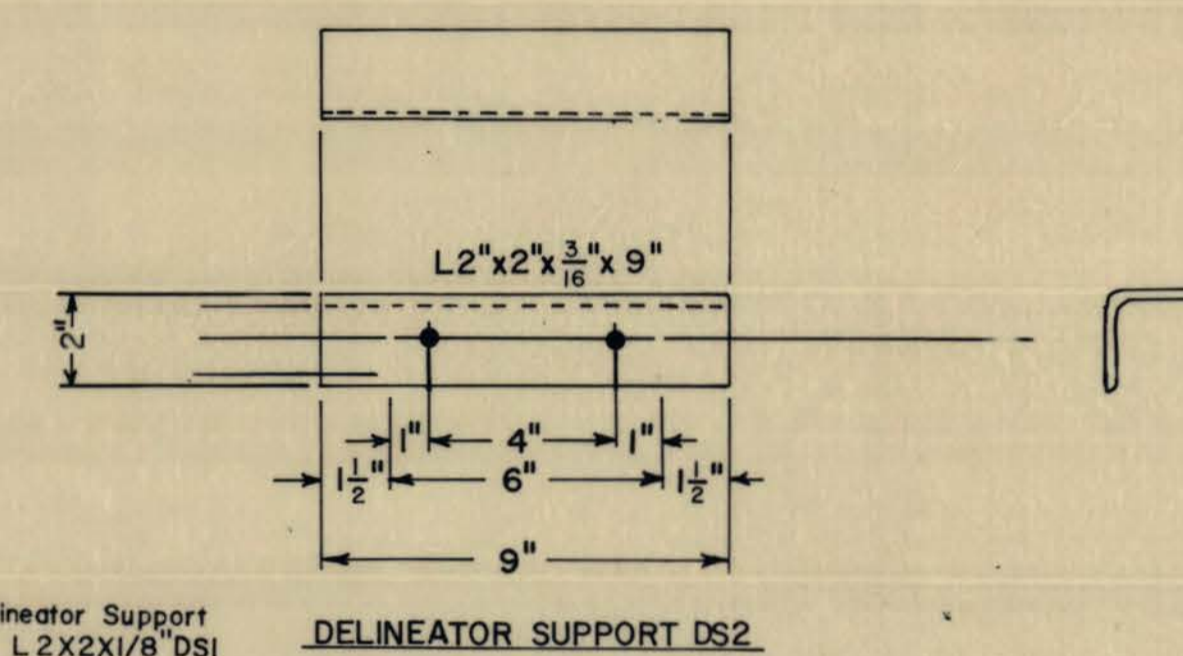
TYPE "A"



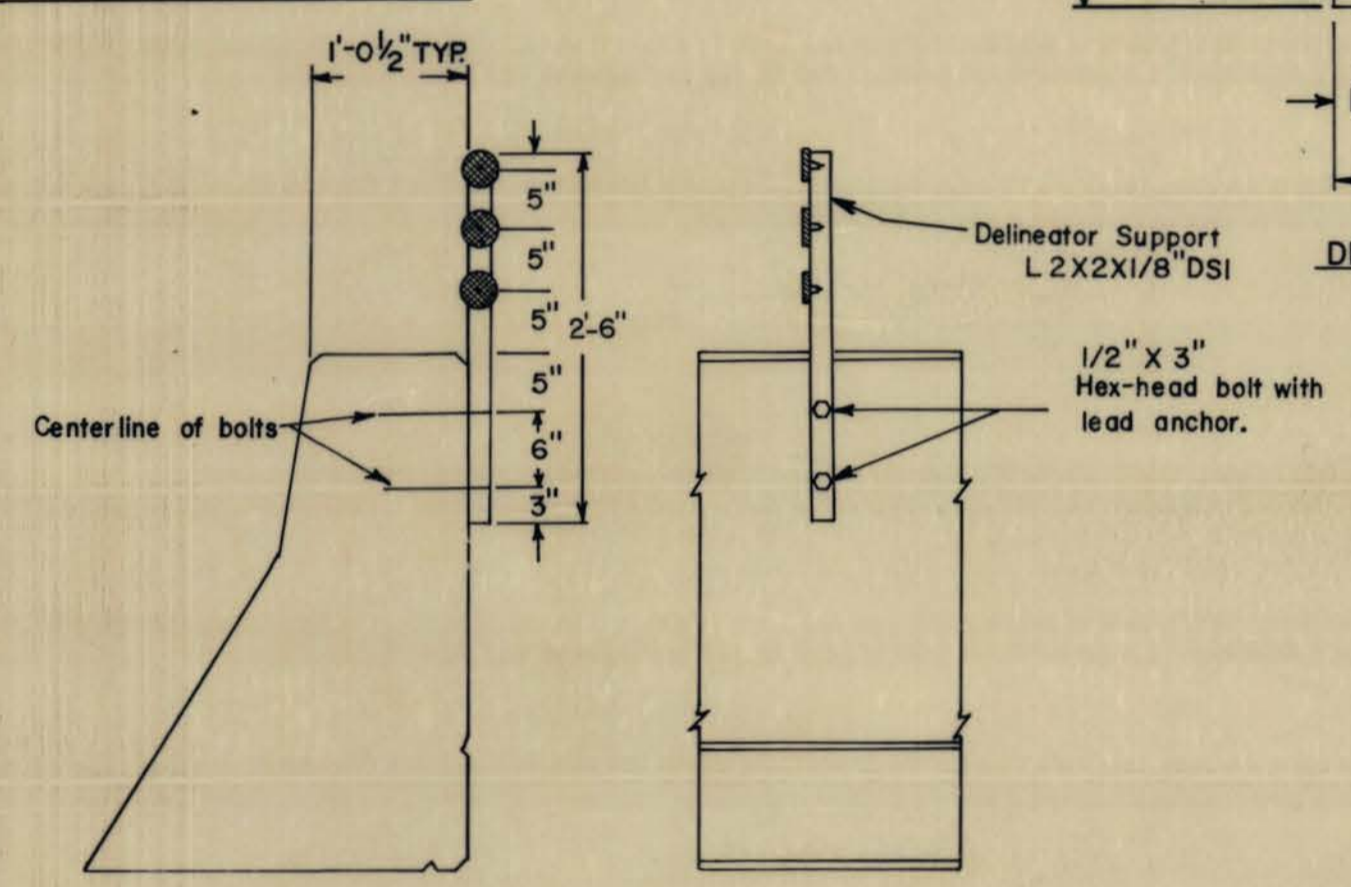
SECTION B-B SHOWING ATTACHMENT TO FASCIA SIDE OF RAILING



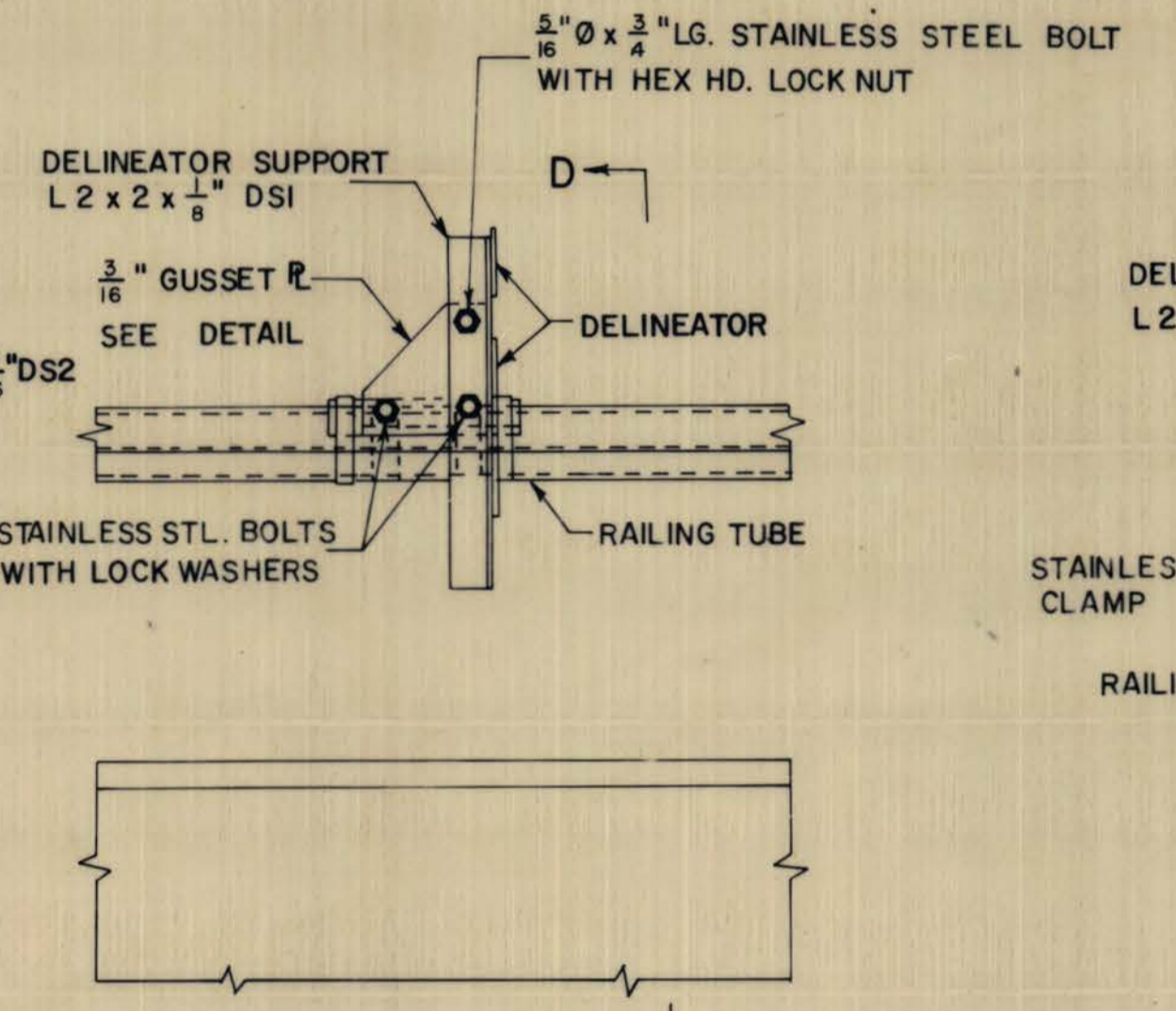
DELINATOR SUPPORT DS1



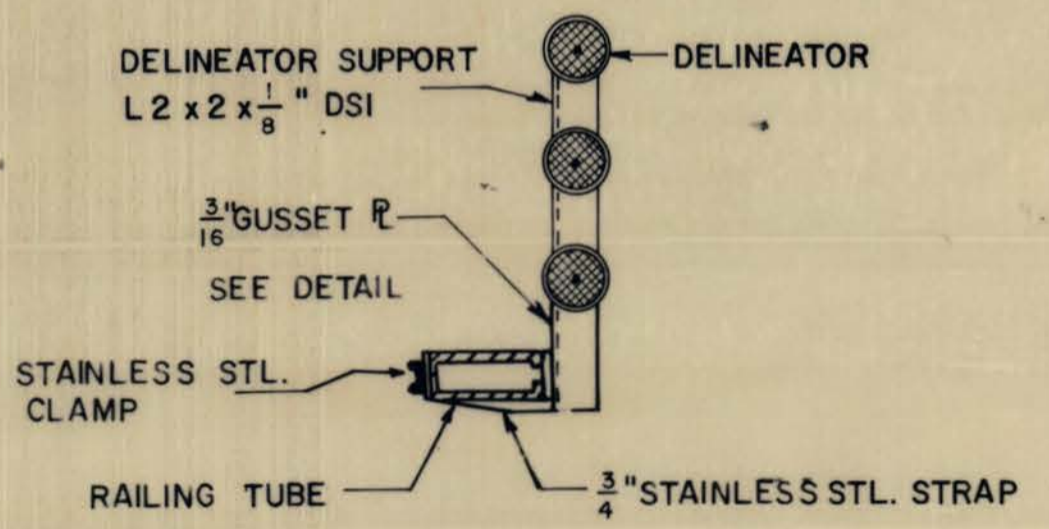
DELINATOR SUPPORT DS2



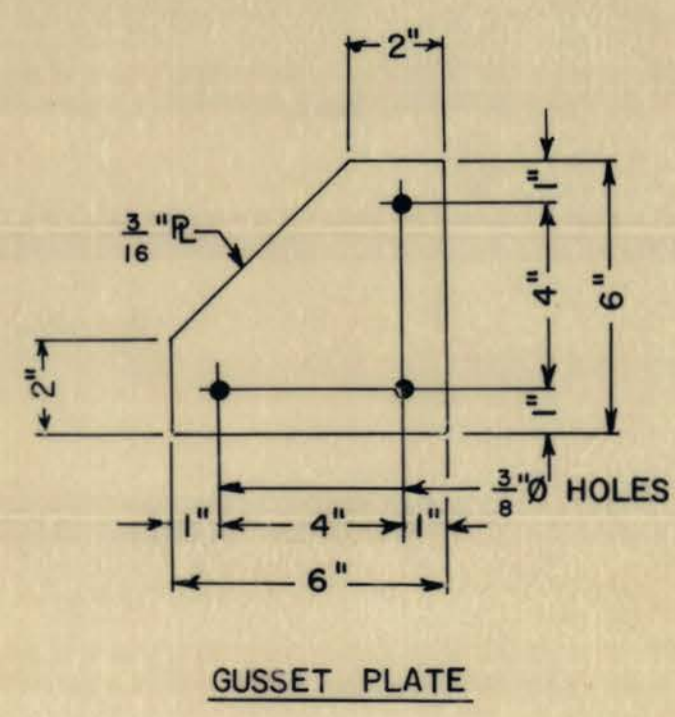
TYPE "C"



TYPE "B"



SECTION D-D SHOWING ATTACHMENT TO FASCIA SIDE OF RAILING



GUSSET PLATE

NOTE
DELINATOR ASSEMBLY SHALL BE ATTACHED TO ROADWAY OR FASCIA SIDE OF RAILING IN ACCORDANCE WITH THE SPECIFICATIONS.
GUSSET PLATE SHALL BE MADE OF THE SAME MATERIAL AS THE DELINATOR SUPPORT.

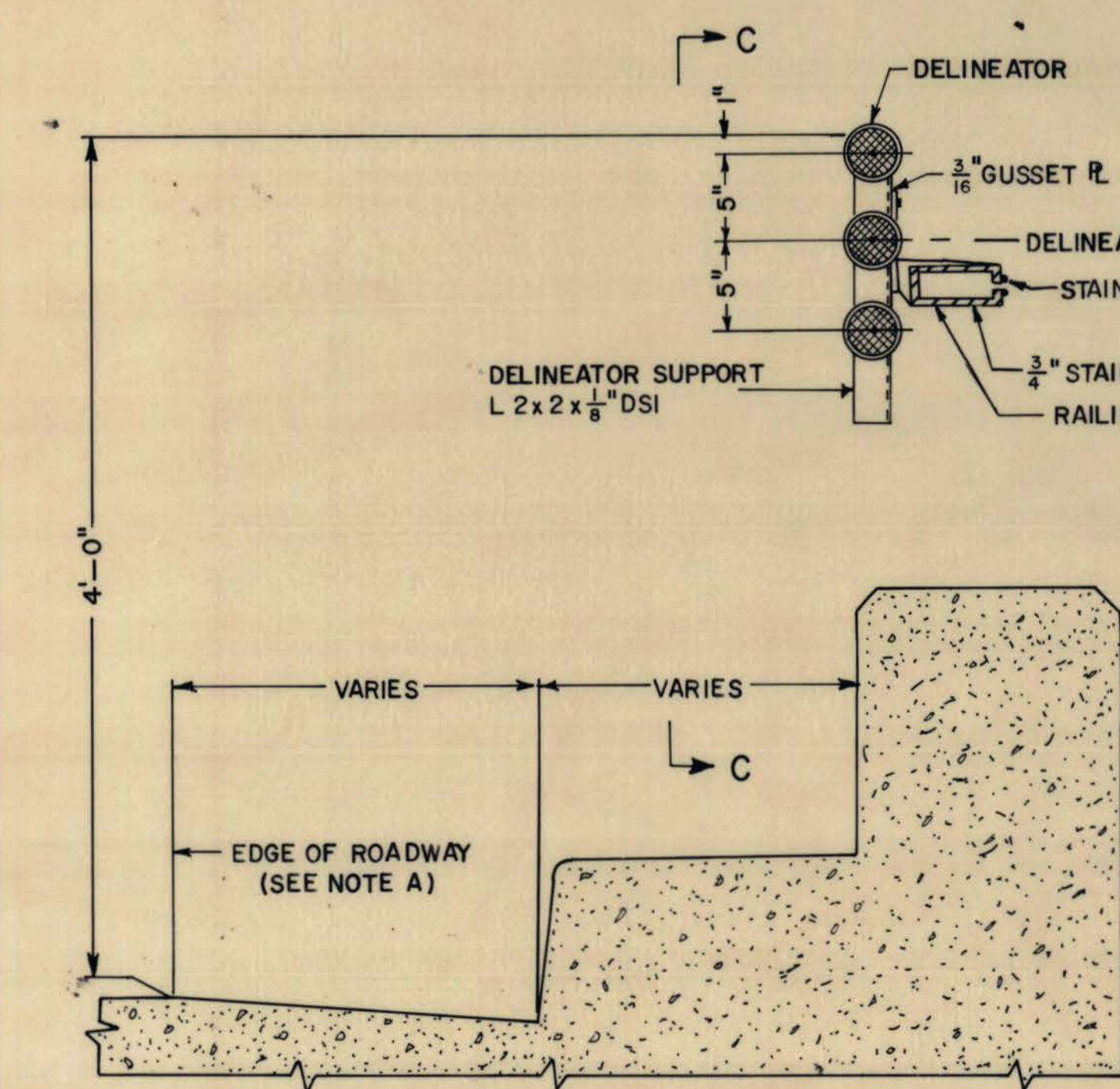
- ⚠ ALUMINUM BOLTS TO STAINLESS STEEL BOLTS.
- ⚠ DELINATOR SUPPORTS.
- ⚠ TYPE "B" BRACKETS
- ⚠ SIGNATURE BLOCK

WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
HIGHWAY DELINEATORS
BRACKETS ON STRUCTURES

PREPARED- R.E.N 3-22-67

REVISIONS
4-8-69
9-10-69
8-7-70
11-15-76

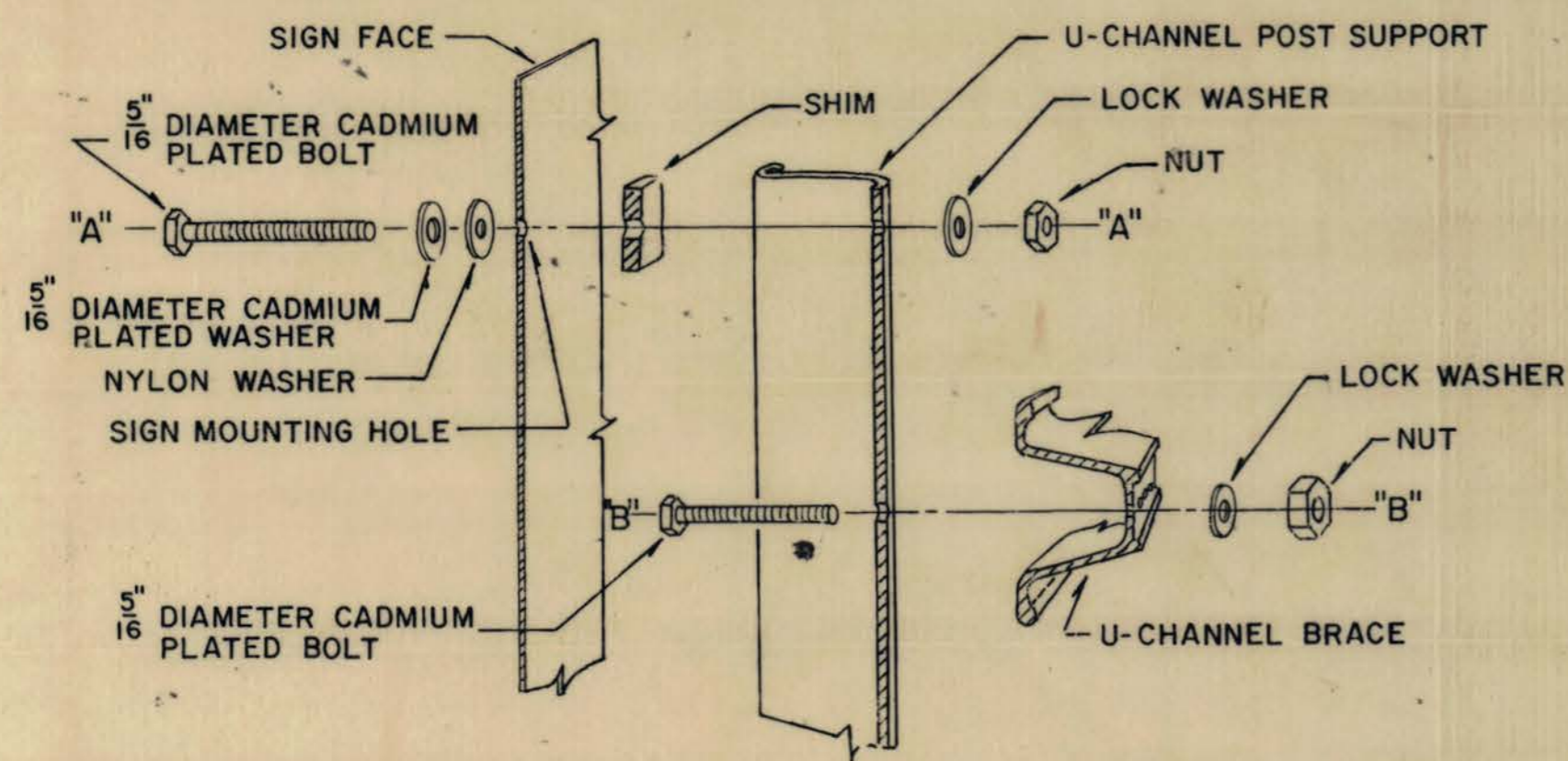
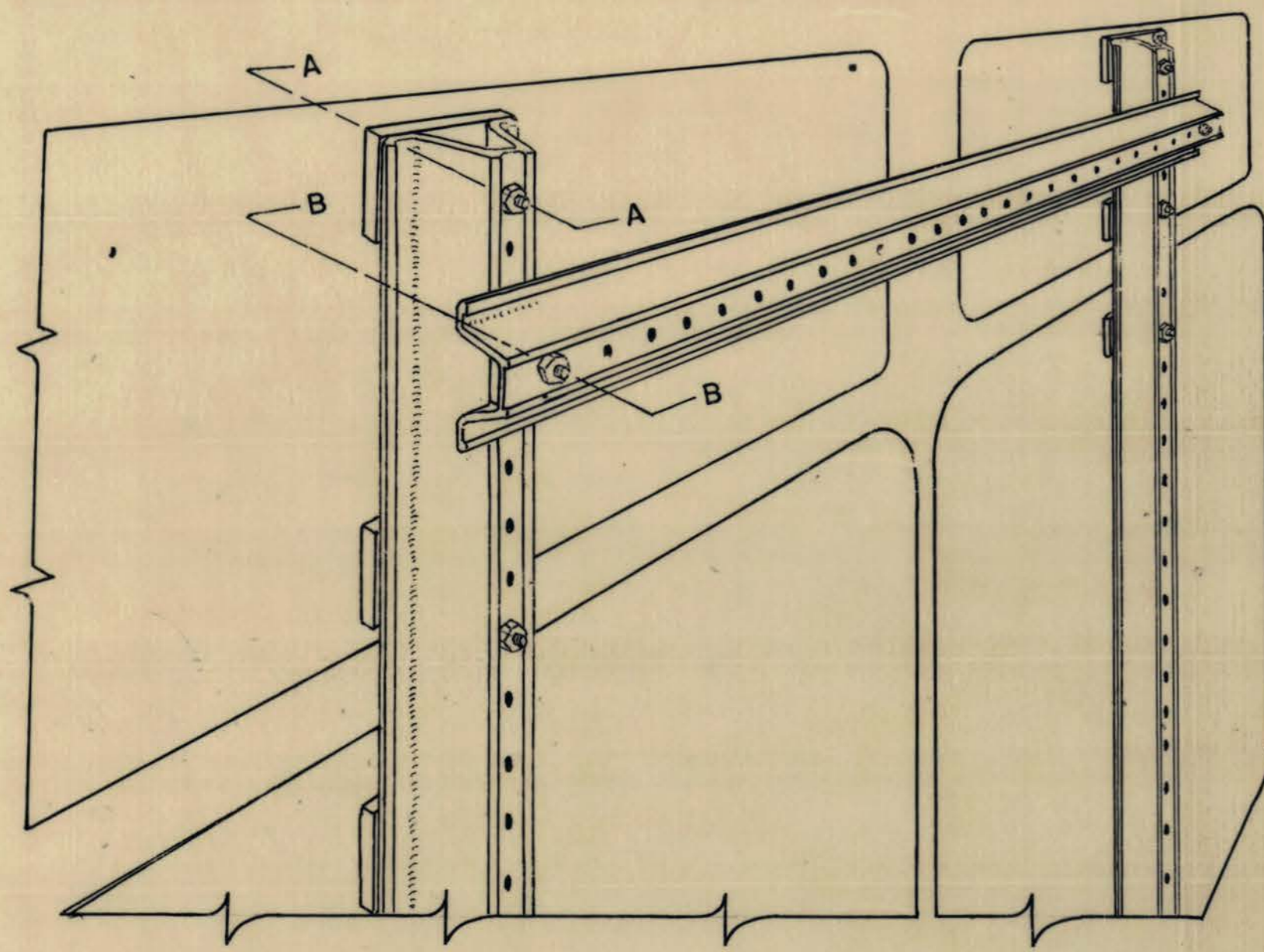
STANDARD SHEET TE11-2



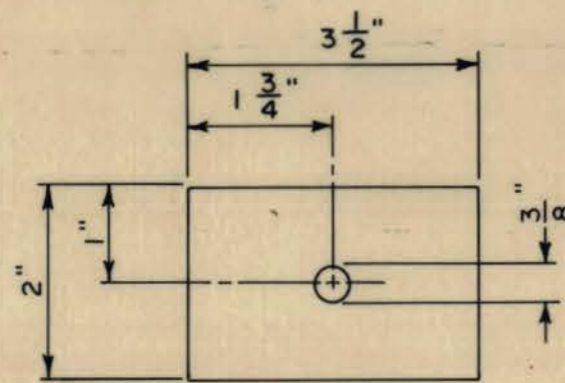
DETAIL SHOWING DELINEATOR ASSEMBLY ATTACHED TO RDWY. SIDE OF RECTANGULAR TUBE RAILING

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. VA.	3	318-AL 56-0.00	F-338(002)	197	JACKSON W. VA. MEIGS OHIO	116 E	125

FRAMING (BRACING) FOR ROUTE MARKER ASSEMBLIES AND BACK-TO-BACK MOUNTINGS

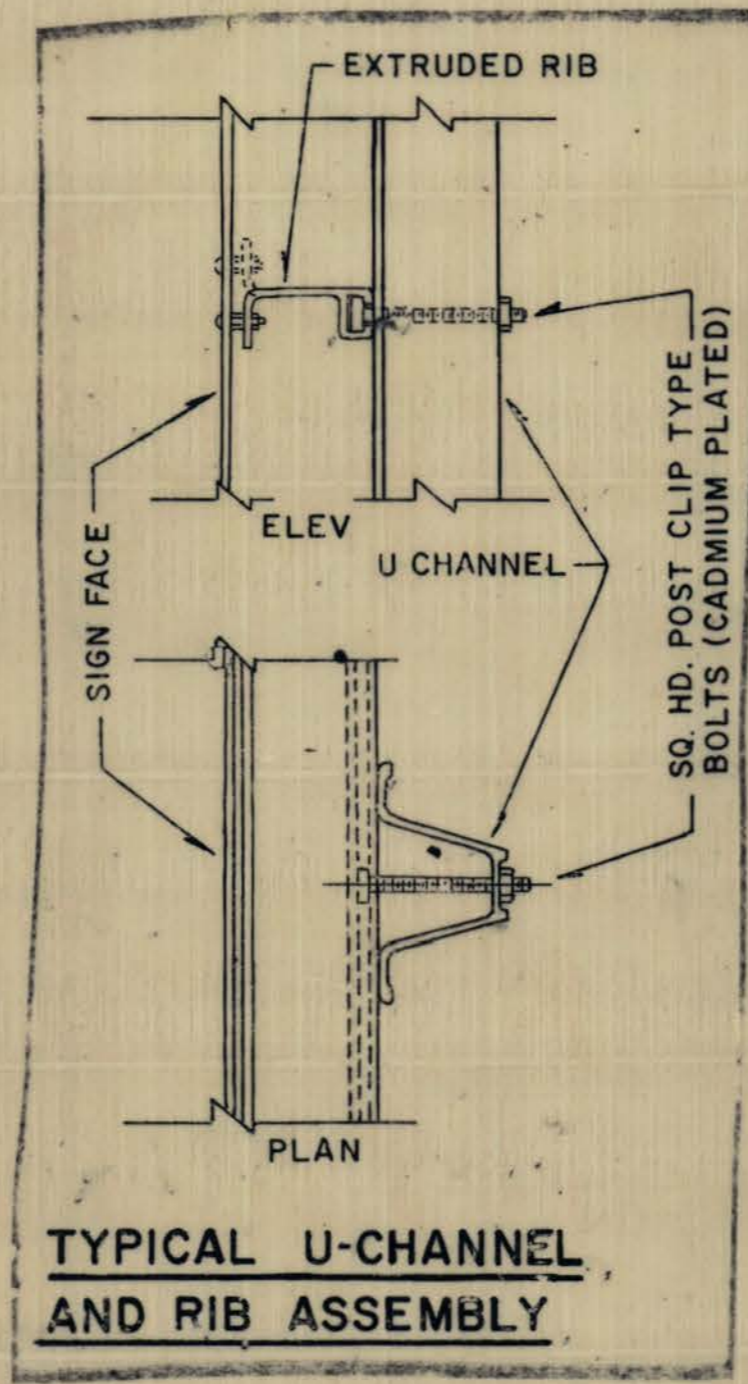
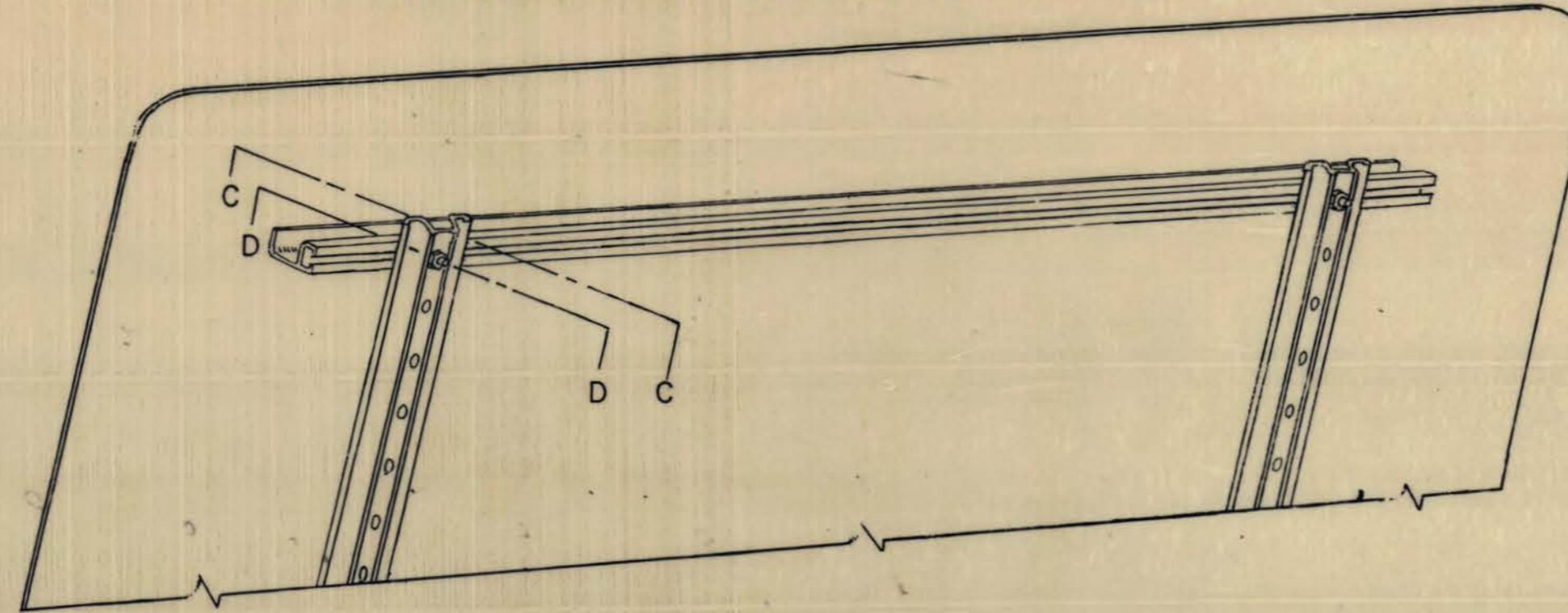


3 1/2" x 2" x 1/8" ALUMINUM ALLOY (6061-T6) SHIM.
SHIMS TO BE USED ON ALL SIGNS ERCTED ON "U" CHANNEL POSTS AT EACH SIGN-HOLDING BOLT.



SHIM DETAIL

FRAMING (BRACING) FOR ALL OTHER SIGNING

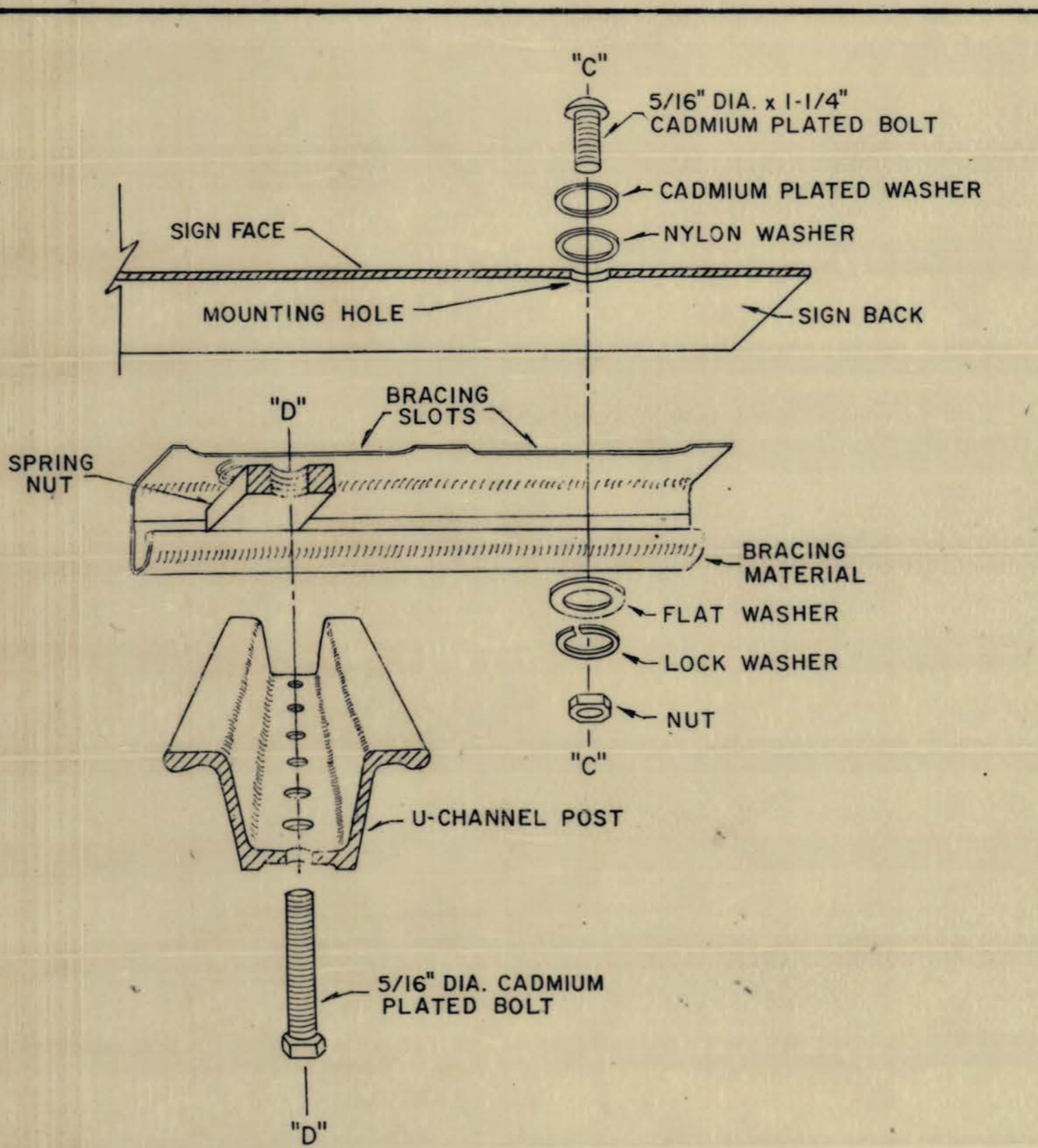
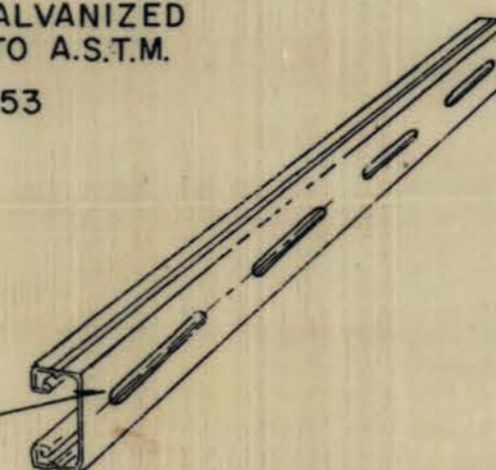


TYPICAL U-CHANNEL AND RIB ASSEMBLY

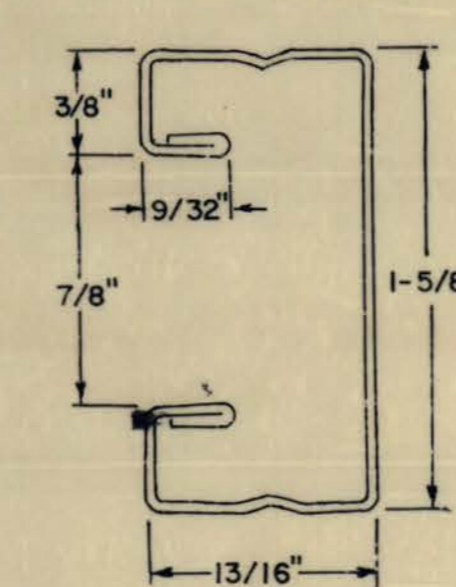
CHANNEL MATERIAL

16 GA. (.06 THICK) STRIP STEEL
HOT-DIPPED GALVANIZED CONFORMING TO A.S.T.M. SPEC. NO. A-153

3/8" x 3" PUNCHED SLOTS - 4" ON CENTER



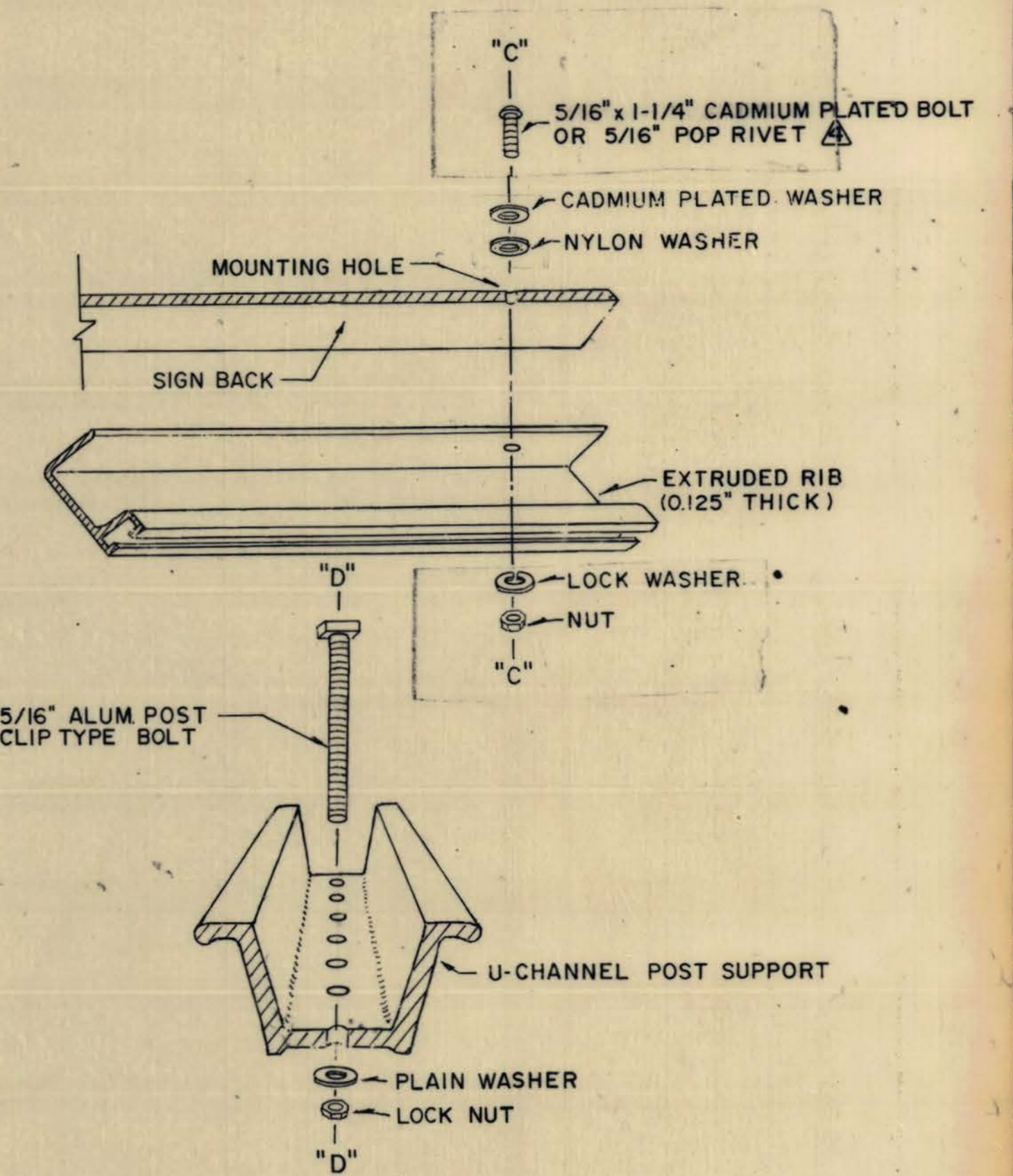
CHANNEL DETAIL



5/16" DIAMETER CADMIUM PLATED BOLT
5/16" I.D. x 1" O.D. x 1/16" THK. WASHER
5/16" SPRING NUT

ALTERNATE 1

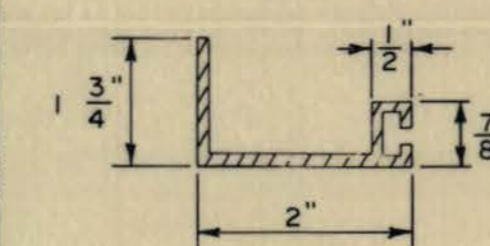
- △ ADDITION OF ALTERNATE SIGN BRACING
- △ ADDITION OF EXTRUDED RIB
- △ ADDITION OF POP RIVET, DELETION OF SPACING NUT
- △ CHANGED BOLT, WASHER AND NUT FOR ALT. 2



ALTERNATE 2

NOTE: THE U-CHANNEL SUPPORT MAY ALSO BE ATTACHED TO THE EXTRUDED RIB BY USE OF POST CLIPS AND POST CLIP BOLTS AS DETAILED ON TE7-1.

EXTRUDED RIB NOMINAL DIMENSIONS



**WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
SIGN ASSEMBLY
BOLTING DETAILS**

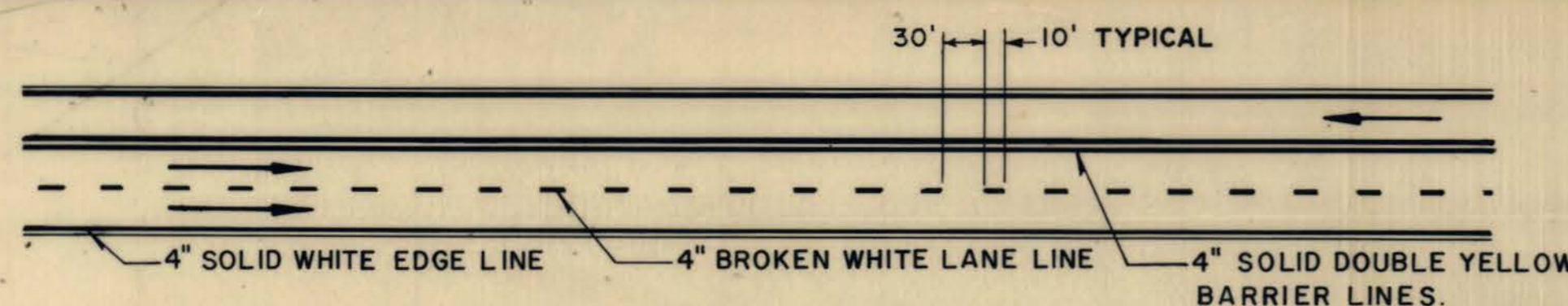
PREPARED- 10-1-69

REVISIONS
△ 12/9/69
△ 5/1/70
△ 12/13/73
△ 10/23/75
△ 6/1/76
△ 10/21/76

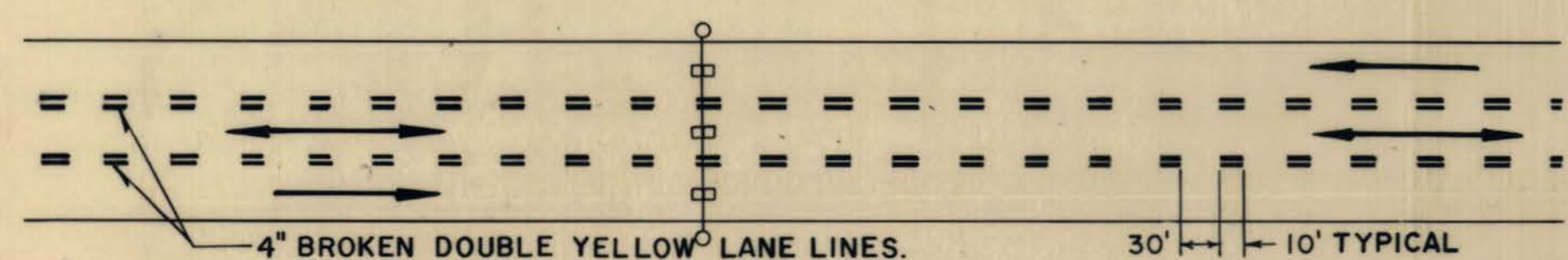
PUBLIC ROAD DIST.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.VA.	3	318-AL56-F-000	F-338(002)	197	JACKSON W.VA. MEIGS OHIO	116 F	126

GENERAL NOTES

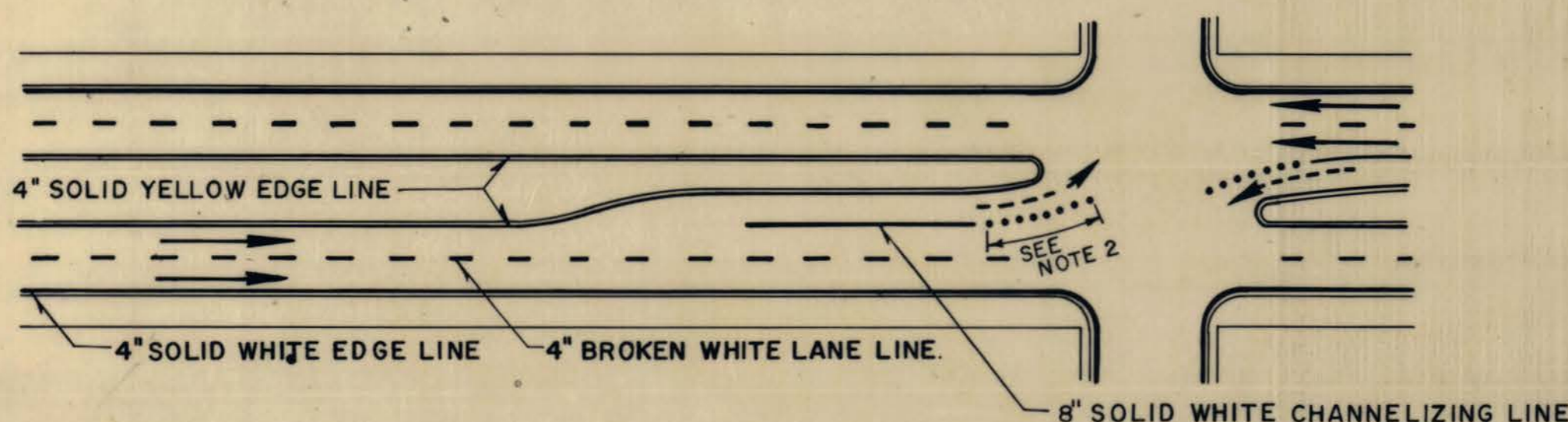
- BROKEN LINES SHALL BE 10' IN LENGTH WITH 30' SPACINGS, UNLESS OTHERWISE SPECIFIED. THE RATIO OF PAINTED LINE LENGTH TO SKIP LENGTH SHALL BE 1 TO 3.
- THE TURNING RADIUS EXTENSION SHALL BE OPTIONAL OR AS INDICATED ON THE PLANS AND SHALL BE EITHER AN EXTENSION OF THE SOLID WHITE CHANNELIZING LINE AND/OR C-4 WHITE MARKERS ON ONE FOOT CENTERS.
- THE DISTANCE FROM THE RAILROAD CROSSING MARKING TO THE NEAREST TRACK WILL VARY ACCORDING TO THE APPROACH SPEED AND THE SIGHT DISTANCE OF THE VEHICULAR TRAFFIC APPROACHING, BUT SHOULD NOT BE LESS THAN 50 FEET.
- ALL RXX MARKINGS AND LINES SHALL BE WHITE. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL RXX SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.
- LINE UP TO 24" MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES WHERE NO ADVANCE STOP LINE IS PROVIDED OR WHERE VEHICULAR SPEEDS EXCEED 35 MPH OR WHERE CROSSWALKS ARE UNEXPECTED. WIDTH AND SPACING OF LINES SHALL BE AS SPECIFIED.
- WHEN DIAGONAL OR LONGITUDINAL LINES ARE USED TO MARK A CROSSWALK, THE TRANSVERSE CROSSWALK LINES MAY BE OMITTED.
- DOTTED WHITE LINE THROUGH INTERSECTION MAY BE EITHER 6" LONG LINE (4" WIDTH) WITH 2' SPACING OR WHITE C-4 MARKERS ON 1' CENTERS (SEE TEM-3).
- STOP LINES SHALL BE 12 TO 24 INCHES WIDE EXTENDING ACROSS ALL APPROACH LANES. STOP LINES SHOULD BE PLACED 4' IN ADVANCE OF AND PARALLEL TO THE NEAREST CROSSWALK LINE. IN THE ABSENCE OF A MARKED CROSSWALK, THE STOP LINE SHOULD BE PLACED AT THE DESIRED STOPPING POINT, IN NO CASE MORE THAN 30 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. IF A STOP LINE IS USED IN CONJUNCTION WITH A STOP SIGN, IT SHOULD ORDINARILY BE PLACED IN LINE WITH THE STOP SIGN. HOWEVER, IF THE SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP LINE SHOULD BE PLACED AT THE STOPPING POINT.
- SUPPLEMENTAL PAVEMENT WORD AND/OR SYMBOL MARKINGS SHOULD BE LIMITED TO NOT MORE THAN A TOTAL OF THREE LINES OF WORDS AND/OR SYMBOLS. THEY SHALL BE WHITE IN COLOR. LETTERS, SYMBOLS AND NUMERALS SHALL BE A MINIMUM OF 8" IN HEIGHT. THE SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEEDS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS. LOCATION OF SUPPLEMENTAL PAVEMENT MARKINGS SHALL BE AS SHOWN BELOW OR AS DIMENSIONED ON THE PLANS.
- THE WORD "STOP" SHALL NOT BE USED ON THE PAVEMENT UNLESS ACCOMPANIED BY A STOP LINE AND A STOP SIGN. THE WORD "STOP" SHALL NOT BE PLACED ON THE PAVEMENT IN ADVANCE OF A STOP LINE, UNLESS EVERY VEHICLE IS REQUIRED TO STOP AT ALL TIMES.
- ALL MARKINGS MAY BE MADE OF EXTRUDED OR HOT SPRAYED THERMOPLASTIC, COLD-LAID PLASTIC OR REGULAR, FAST-DRY OR INSTANT-DRY TRAFFIC PAINT AS SPECIFIED ON THE PLAN.
- ALL DOUBLE LINES SHALL BE SPACED 8" CENTER TO CENTER.



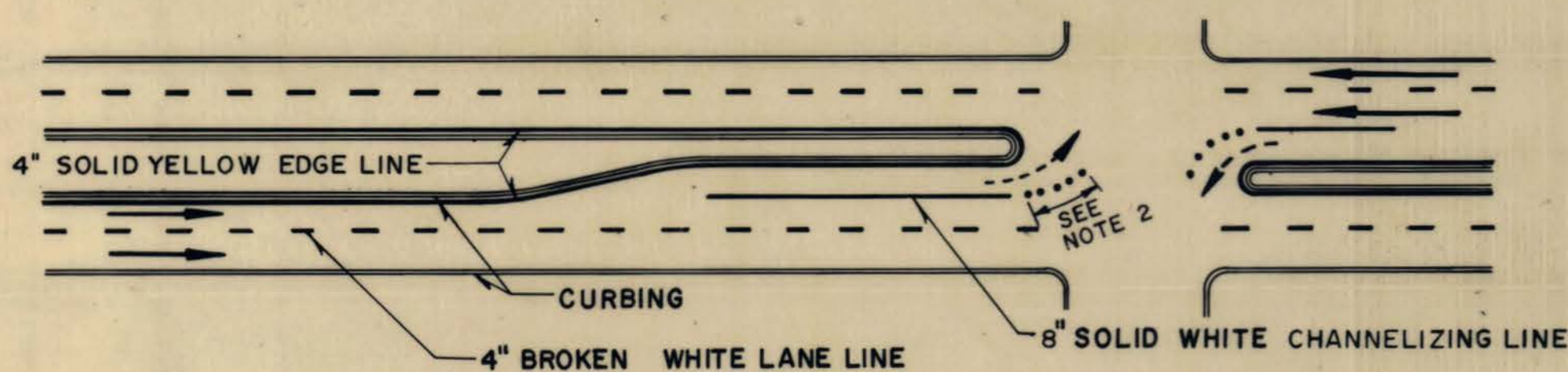
(A) TWO WAY MARKING, TRUCK CLIMBING LANE



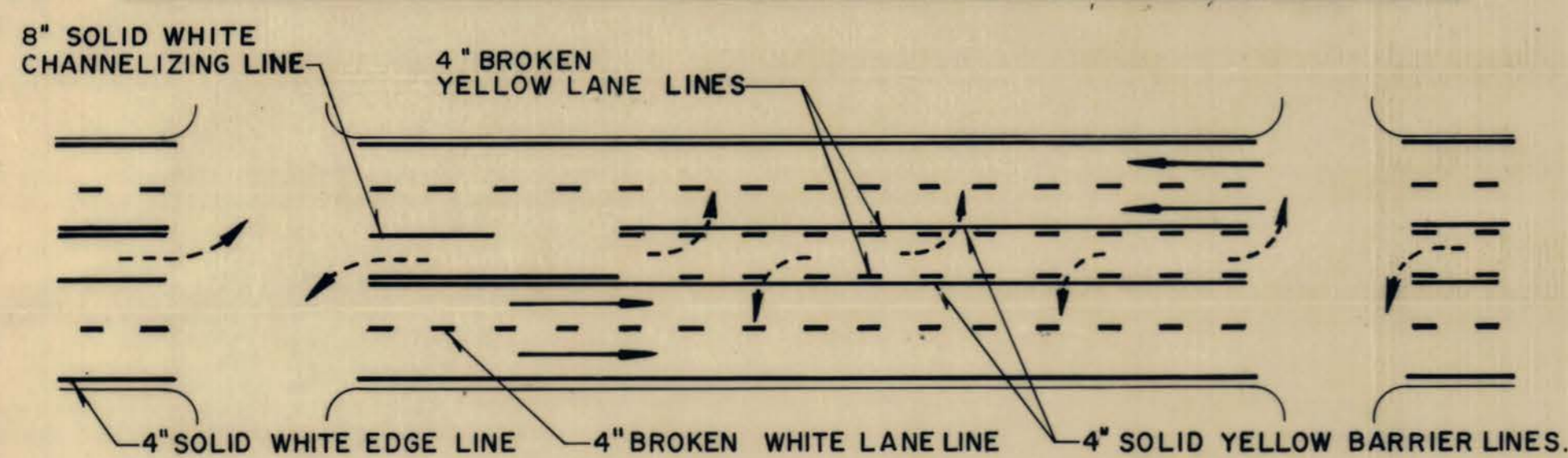
(B) TWO WAY MARKING WITH REVERSIBLE CENTER LANE



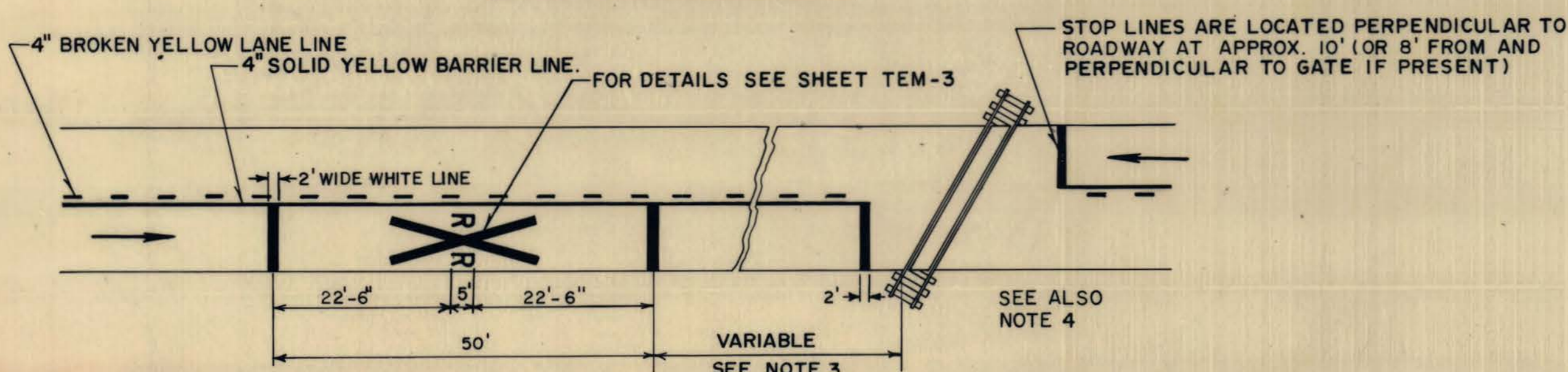
(C) DIVIDED HIGHWAY WITH FLUSH MEDIAN AND SHOULDER



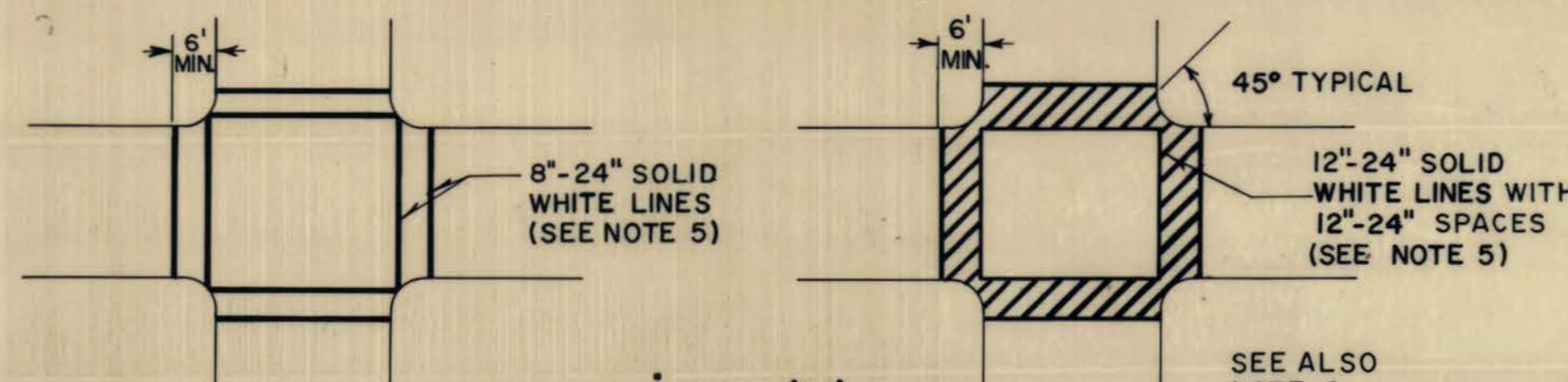
(D) DIVIDED HIGHWAY WITH RAISED MEDIAN AND SHOULDER (CURBING)



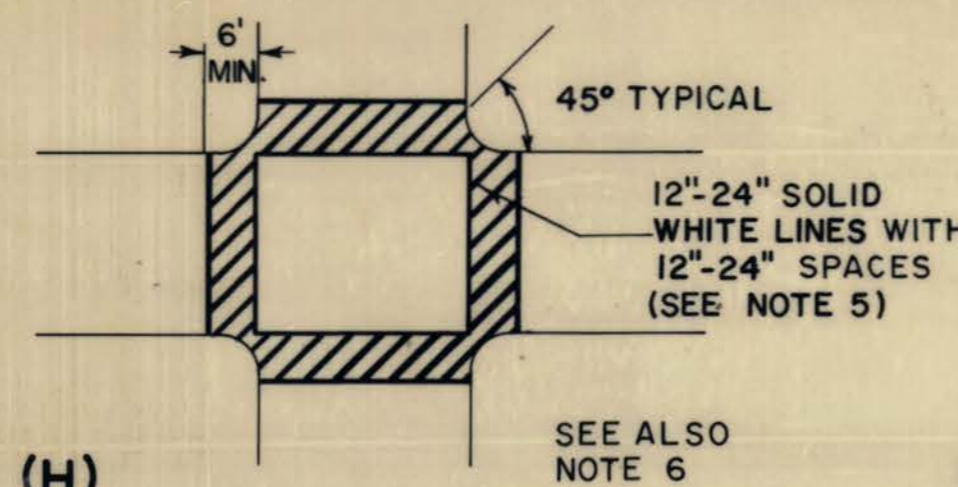
(E) TWO WAY MARKING, MULTI-LANE HIGHWAY WITH DUAL LEFT TURN CHANNELIZATION



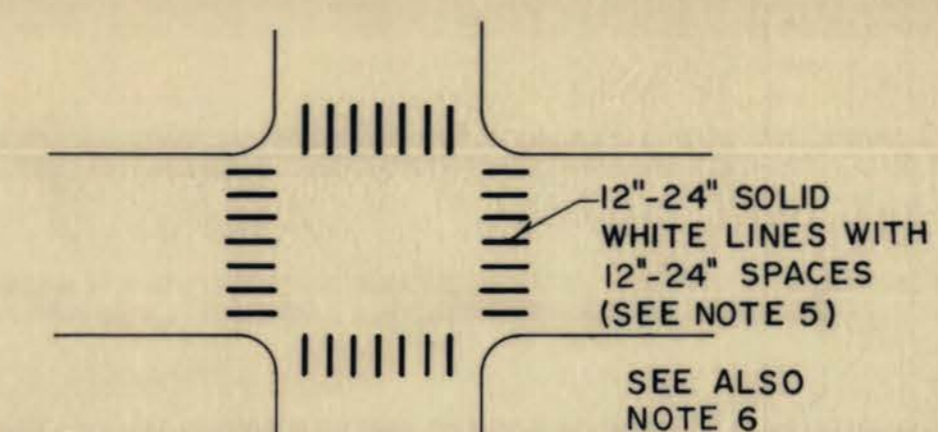
(F) TWO WAY MARKING, RAIL ROAD-HIGHWAY GRADE CROSSINGS



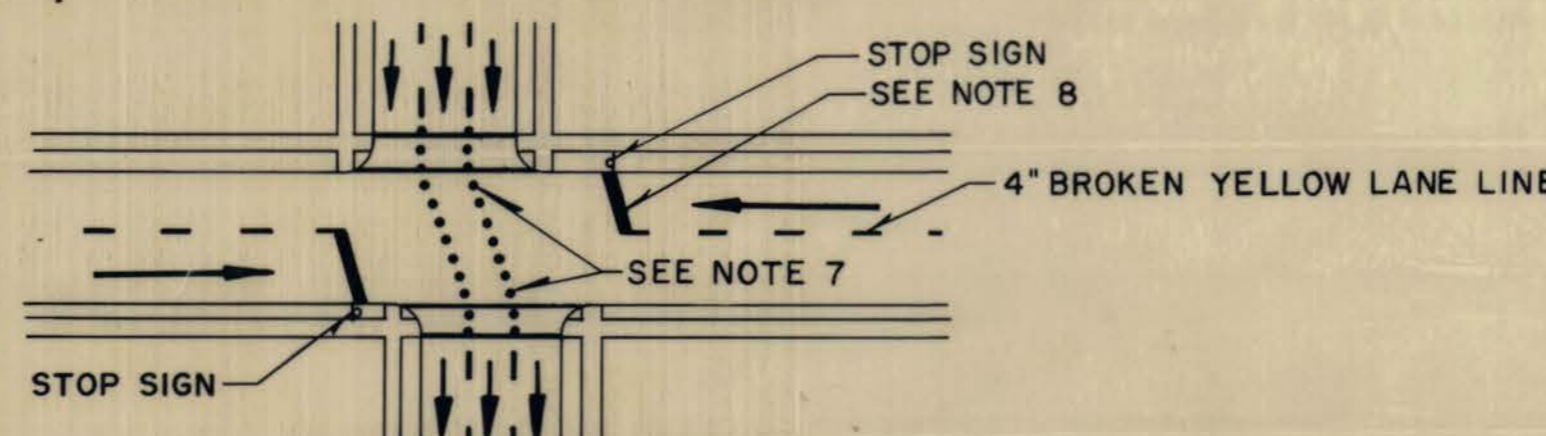
(G) TRANSVERSE CROSSWALK MARKINGS



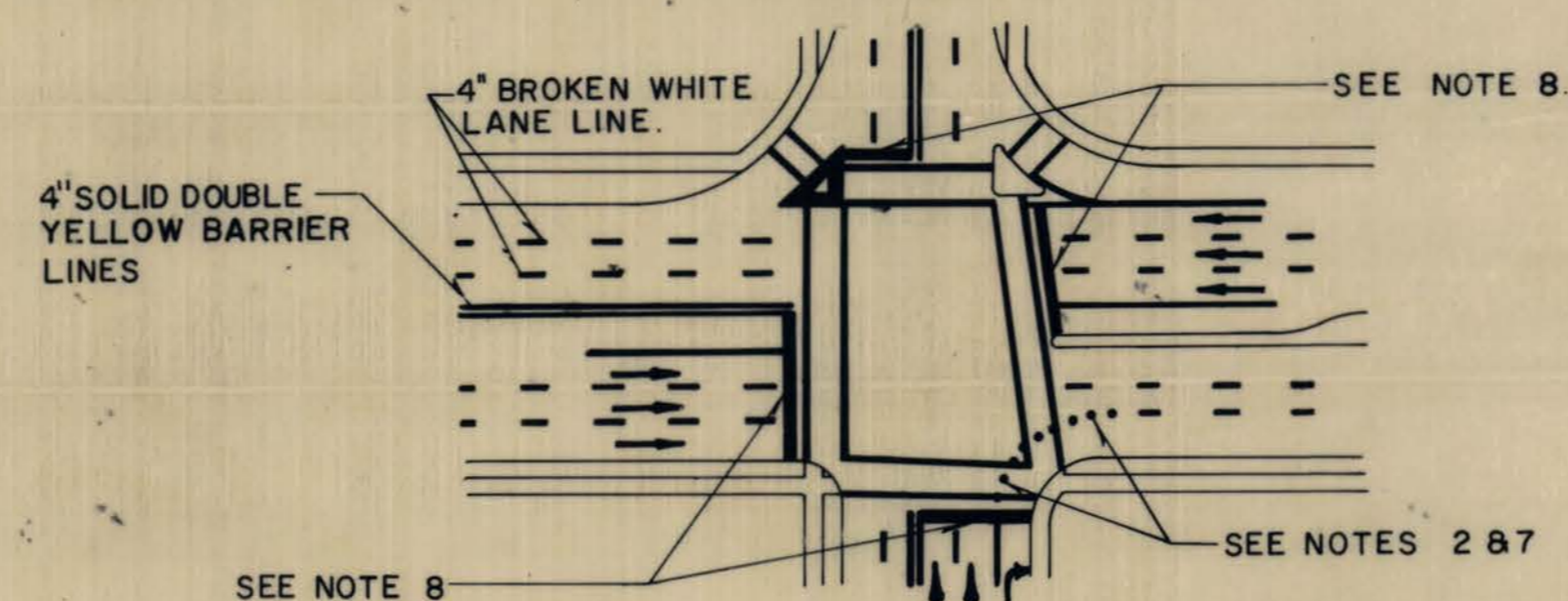
(H) DIAGONAL CROSSWALK MARKINGS (USED FOR ADDED VISIBILITY)



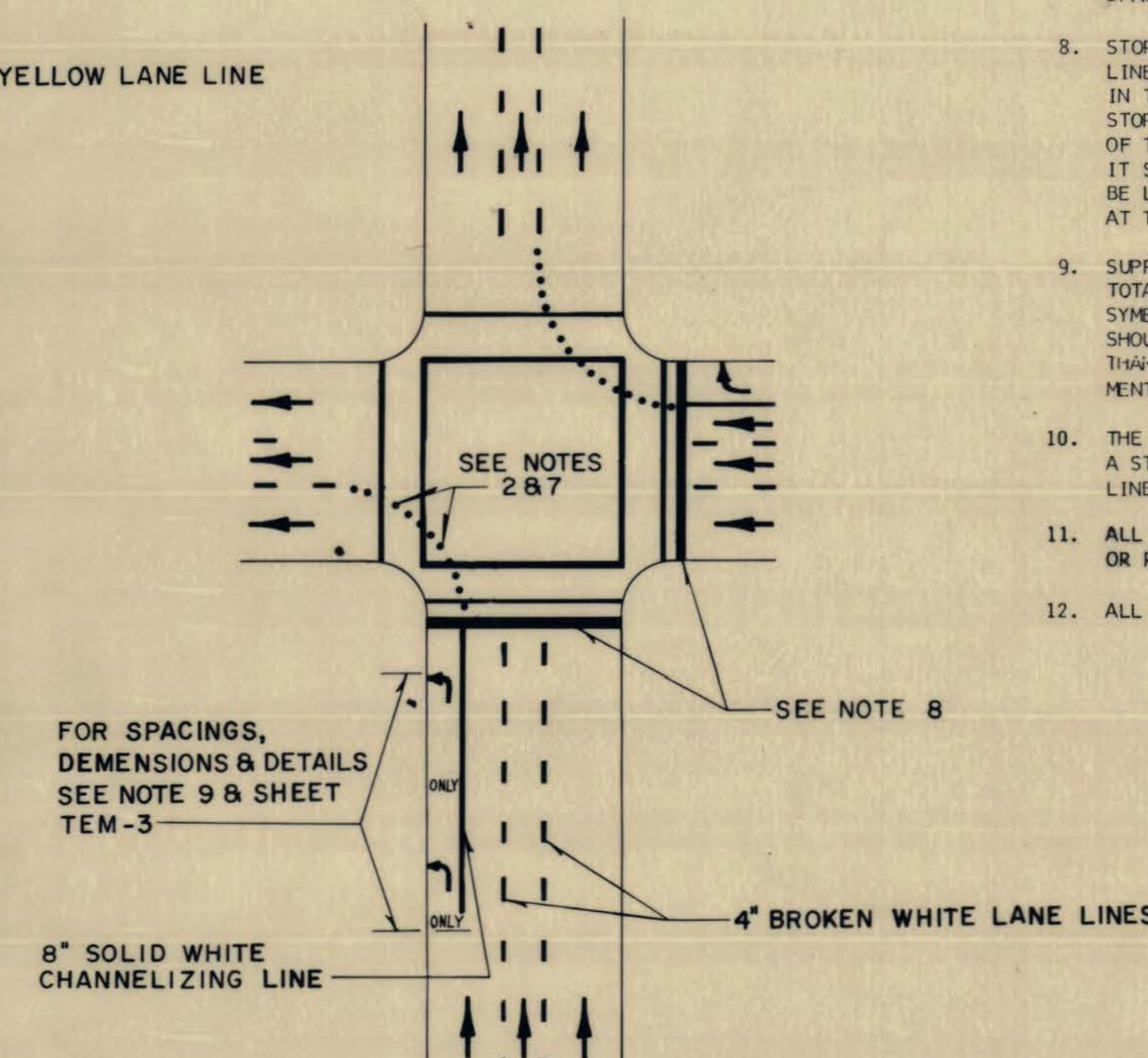
(I) LONGITUDINAL CROSSWALK MARKINGS (USED FOR ADDED VISIBILITY)



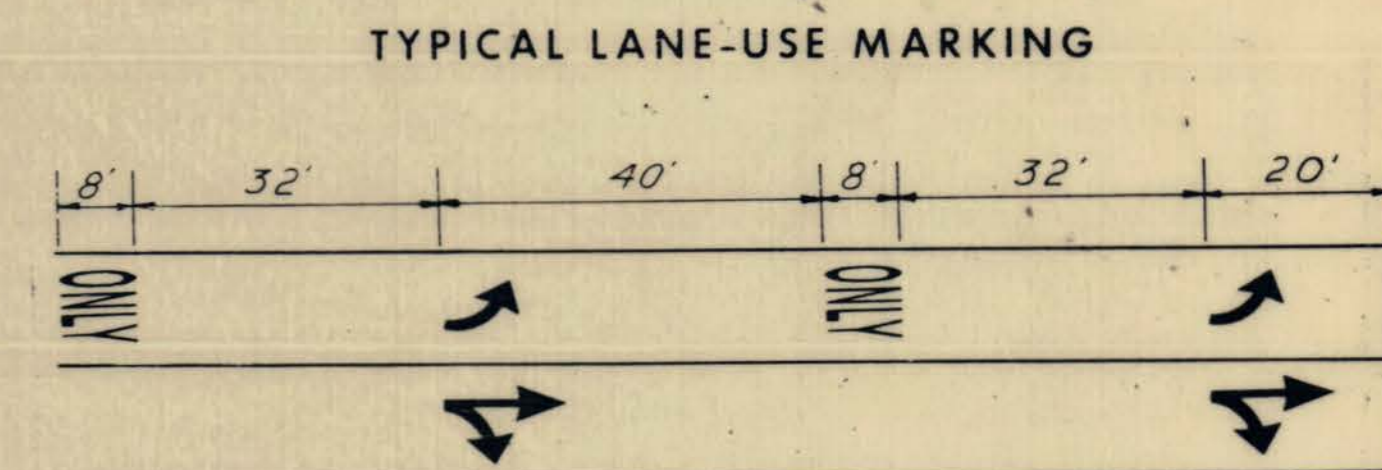
(J) INTERSECTION MARKINGS WITH OFFSET LANE LINES CONTINUED THROUGH THE INTERSECTION, ALSO OPTIONAL CROSSWALK AND STOP LIMIT LINES



(K) INTERSECTION MARKINGS WITH OPTIONAL TURN LANE LINES, CROSSWALK LINES AND STOP LIMIT LINES



(L) INTERSECTION MARKINGS WITH OPTIONAL TURN LANES, PAVEMENT MESSAGES, CROSSWALK LINES AND STOP LIMIT LINES



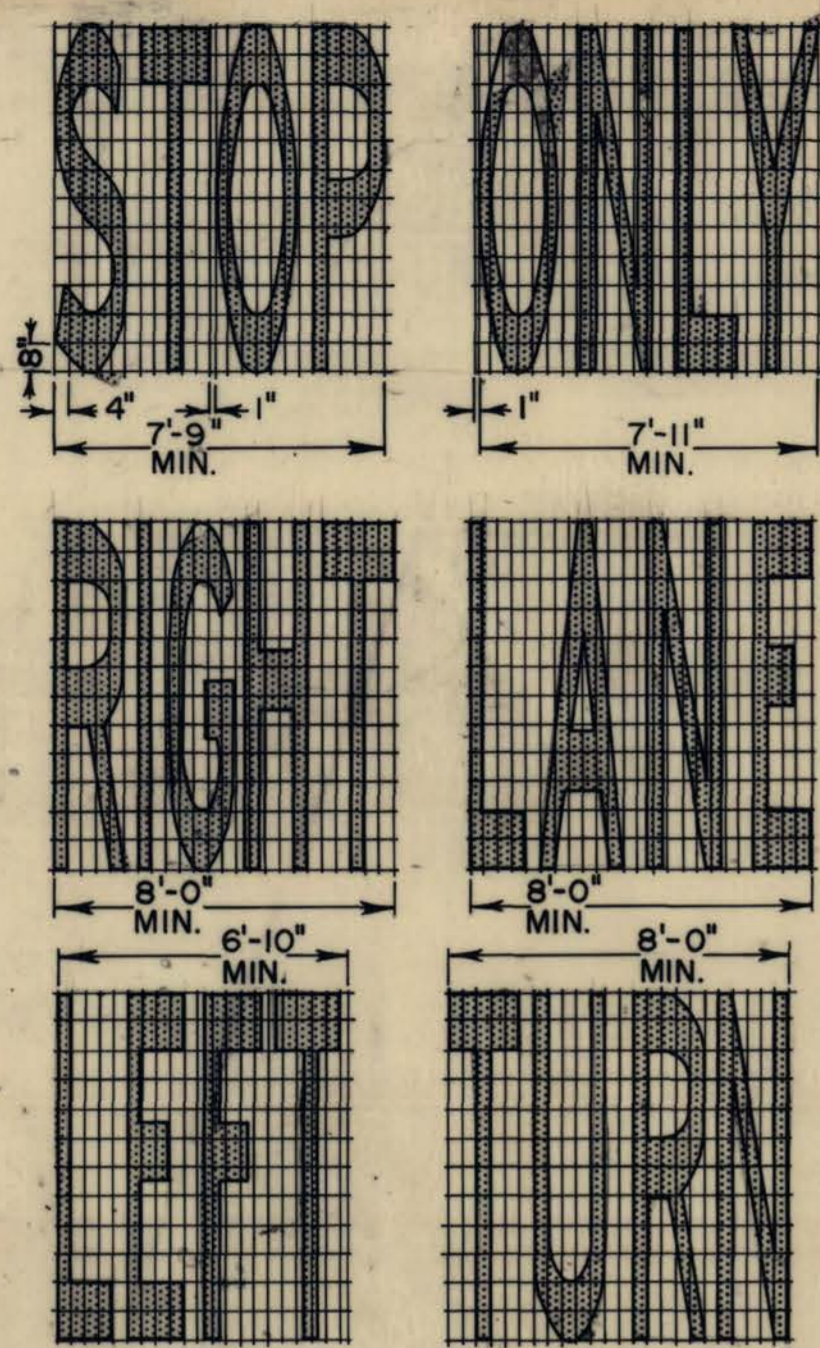
△ EDGE LINES
 △ MODIFIED SPACING & NOTES 1, 2, 7 & 11

WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
TYPICAL PAVEMENT MARKINGS

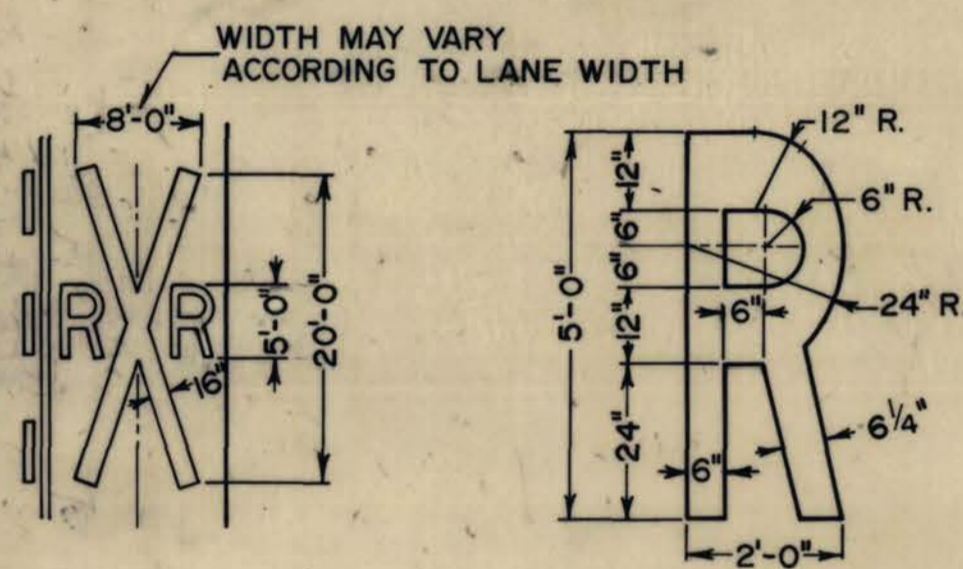
PREPARED - JULY 1971

REVISIONS
MAY 1972
MAY 1973
8/28/75
11/23/77

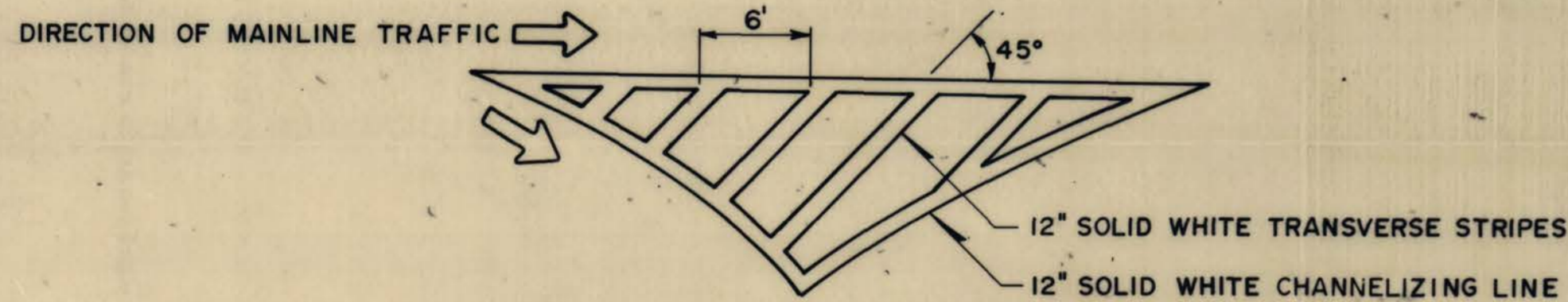
PUBLIC ROAD DIST.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.VA.	3	318 AL56-O.00	F-338 (002)	197	JACKSON W.VA. MEIGS OHIO	116 G	125



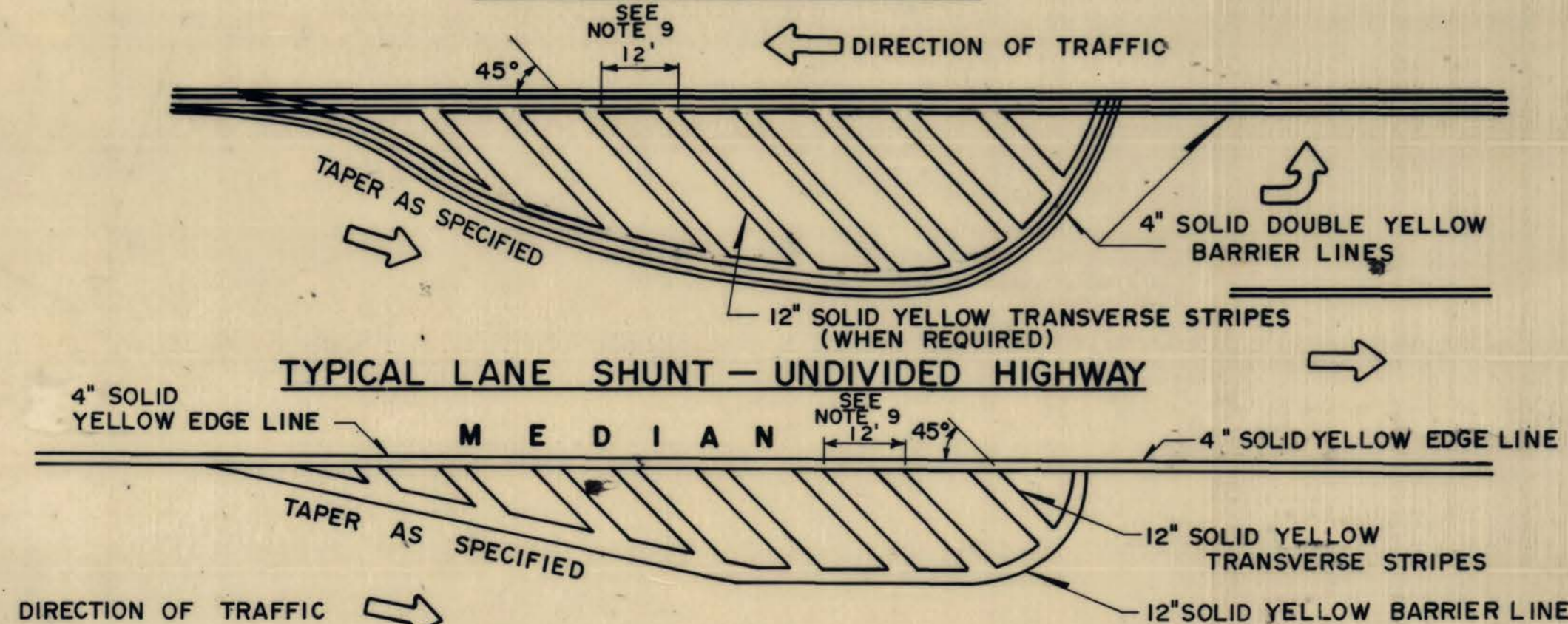
ALL LETTERS SHALL HAVE A MIN. HEIGHT OF 8'-0".
ELONGATED LETTERS



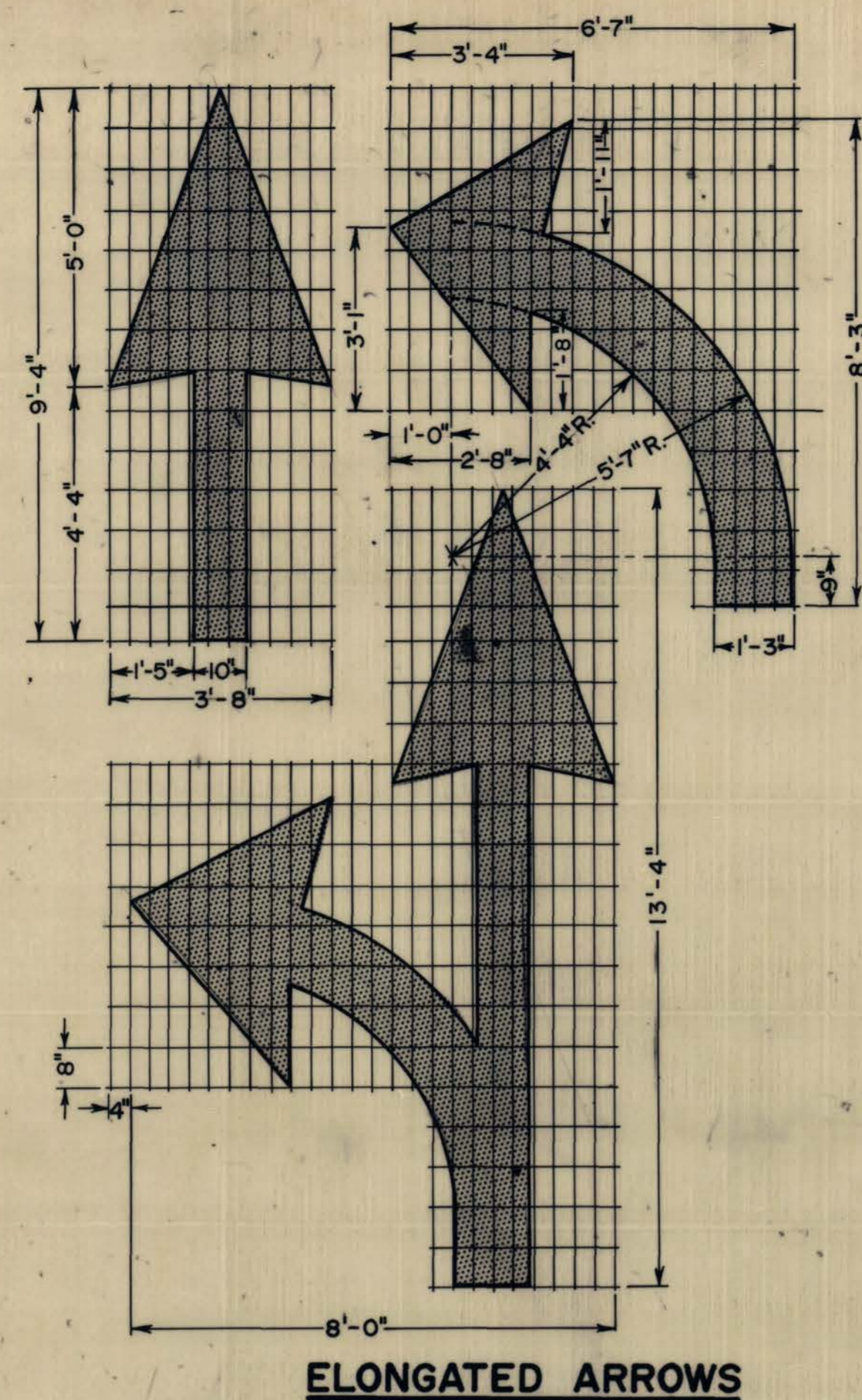
MARKINGS FOR RAILROAD-HIGHWAY CROSSINGS



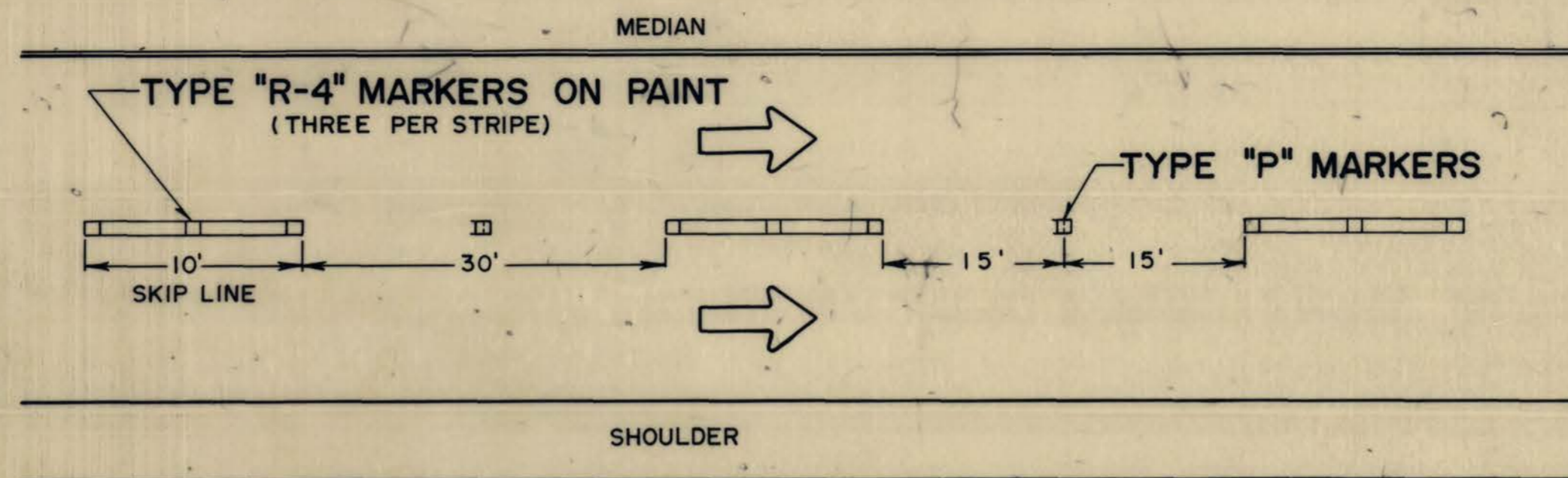
TYPICAL PAINTED ISLAND



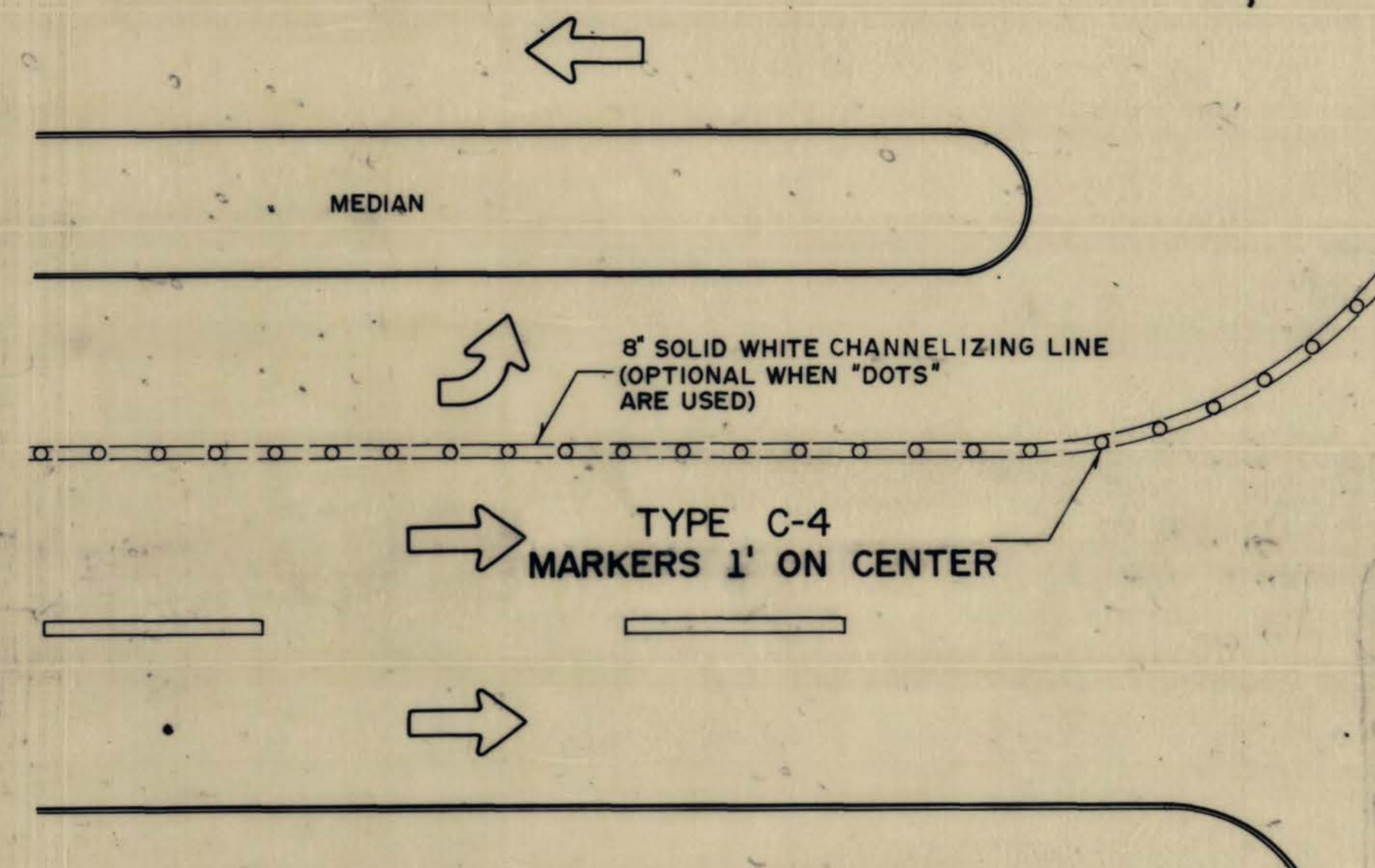
TYPICAL LANE SHUNT - DIVIDED HIGHWAY



ELONGATED ARROWS



TYPE "P" AND "R-4" MARKERS

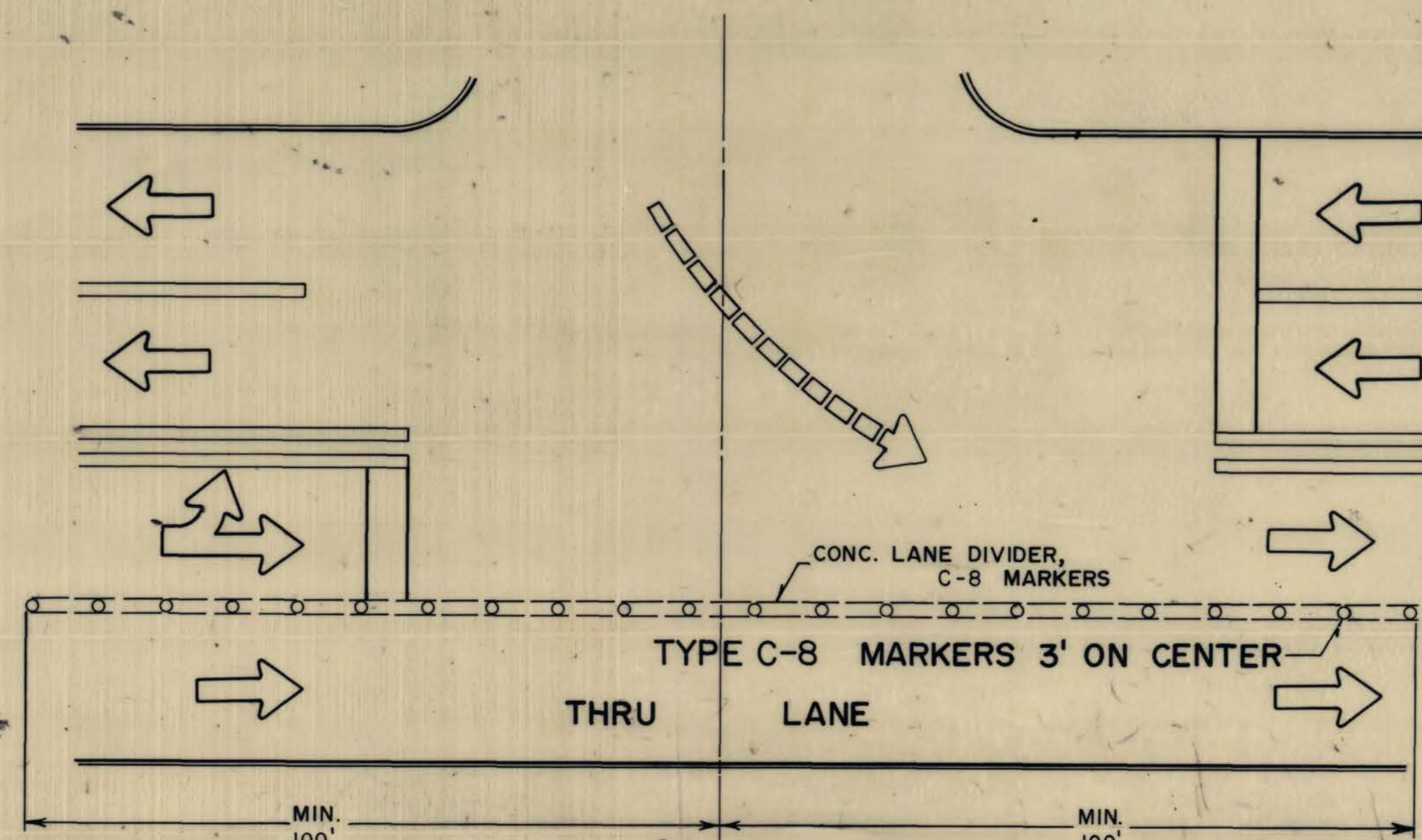


TYPE C-4 MARKERS ("DOTS")

GENERAL NOTES:

1. LOCATION OF WORDS AND SYMBOLS SHALL BE AS SHOWN ON THE PLANS OR AS OTHERWISE SPECIFIED.
2. TYPICAL PLACEMENT OF WORD AND SYMBOL MARKINGS IS SHOWN ON STANDARD SHEET TEM-2.
3. IF MESSAGES ON PAVEMENT CONSIST OF MORE THAN ONE WORD IT SHOULD BE READ "UP", THAT IS THE FIRST WORD SHOULD BE NEAREST THE DRIVER.
4. ALL WORD AND SYMBOL MARKINGS SHALL BE WHITE IN COLOR. (EXCEPTION: MARKINGS VISIBLE ONLY TO TRAFFIC PROCEEDING IN THE WRONG DIRECTION MAY BE RED).
5. WORD AND SYMBOL MARKINGS SHALL BE MADE OF EXTRUDED THERMOPLASTIC, COLD-LAID PLASTIC OR REGULAR, FAST-DRY OR INSTANT-DRY TRAFFIC PAINT AS INDICATED ON THE CONTRACT PLANS.
6. SEE SHEET TEM-4 FOR DETAILS OF TYPE "P", "R" AND "C" MARKERS.
7. IN MOST CASES, TYPES "P", "R" AND "C" ARE TO BE USED TO SUPPLEMENT STANDARD PAVEMENT MARKINGS.
8. TYPE "P" AND "R-4" MARKERS MAY HAVE EITHER MONODIRECTIONAL OR BIDIRECTIONAL REFLECTORIZATION AS SHOWN ON THE PLAN OR AS OTHERWISE SPECIFIED.
9. THIS DIMENSION SHALL BE 12 FEET UNLESS OTHERWISE SPECIFIED. IN NO CASE SHALL THIS DIMENSION BE LESS THAN 8 FEET OR GREATER THAN 12 FEET.

▲ "NR" TO "C"
▲ MODIFIED SPACING & NOTE 5 & ADDED NOTE 9



TYPE C-8 MARKERS

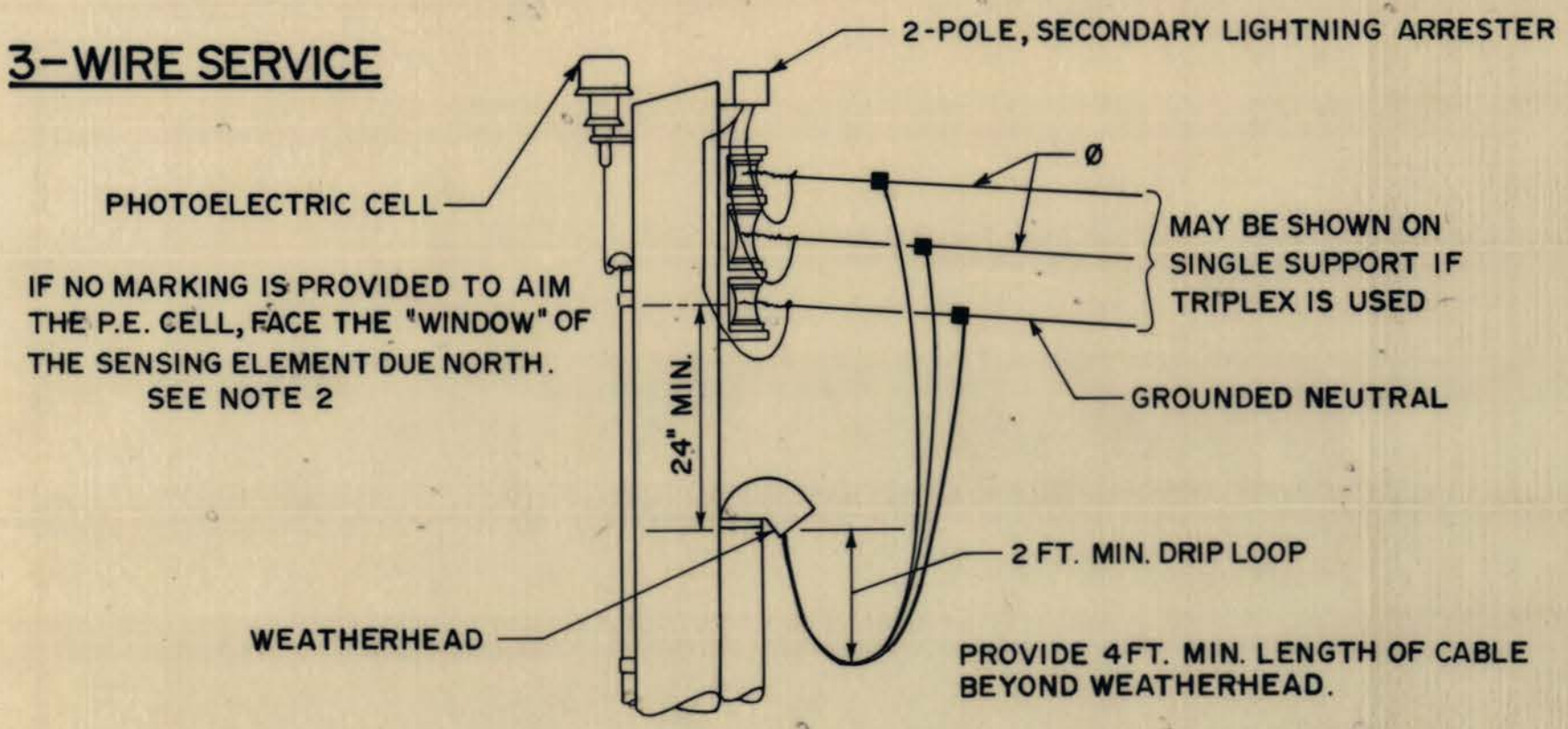
WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
CHANNELIZATION, WORD & SYMBOL MARKINGS
INSTALLATION OF P, R & C MARKERS

PREPARED - JULY 1971
REVISIONS
▲ APRIL 9, 1975
8/28/75
▲ 11/23/77

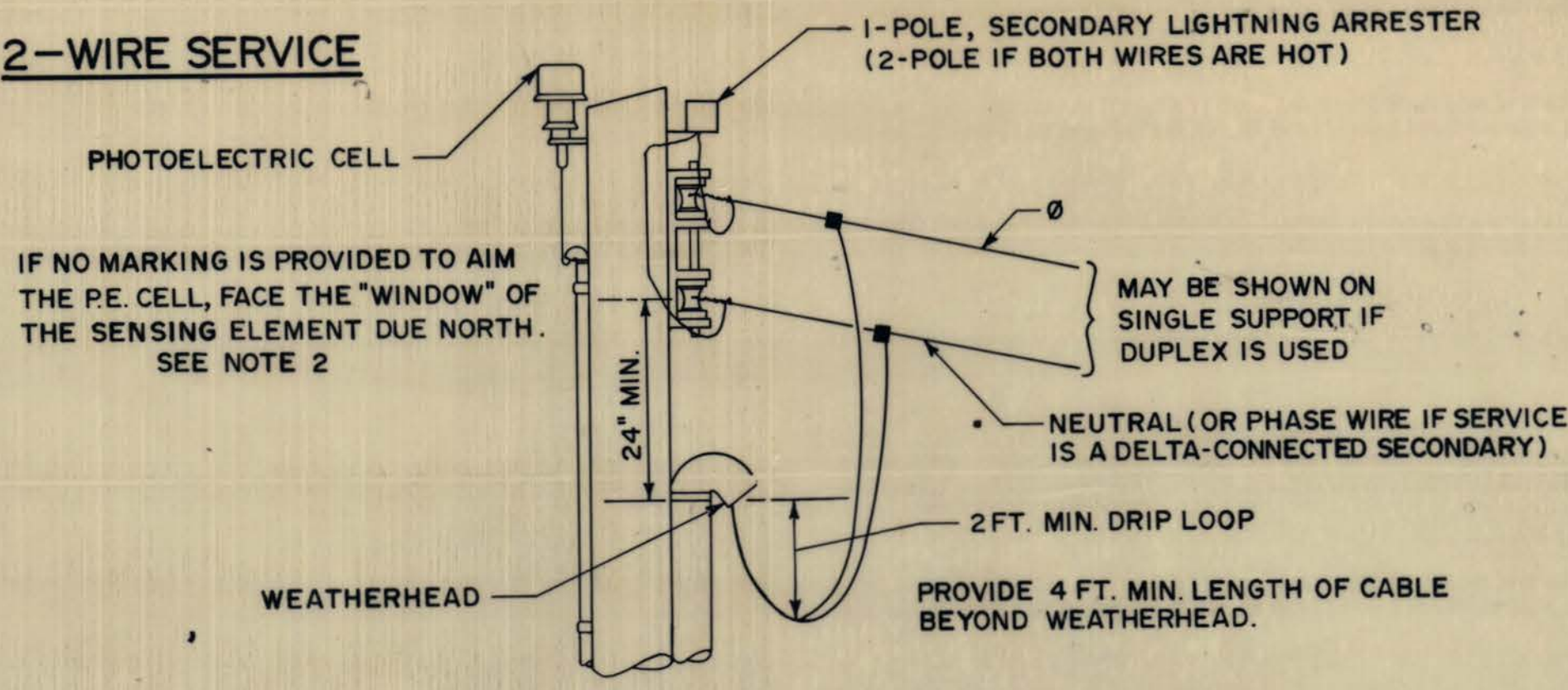
STANDARD SHEET TEM-3

PUBLIC ROAD DIST.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.VA.	3	318-AL 56-0.00	F-338(002)	197	JACKSON W.VA. MEIGS OHIO	116H	125

3-WIRE SERVICE

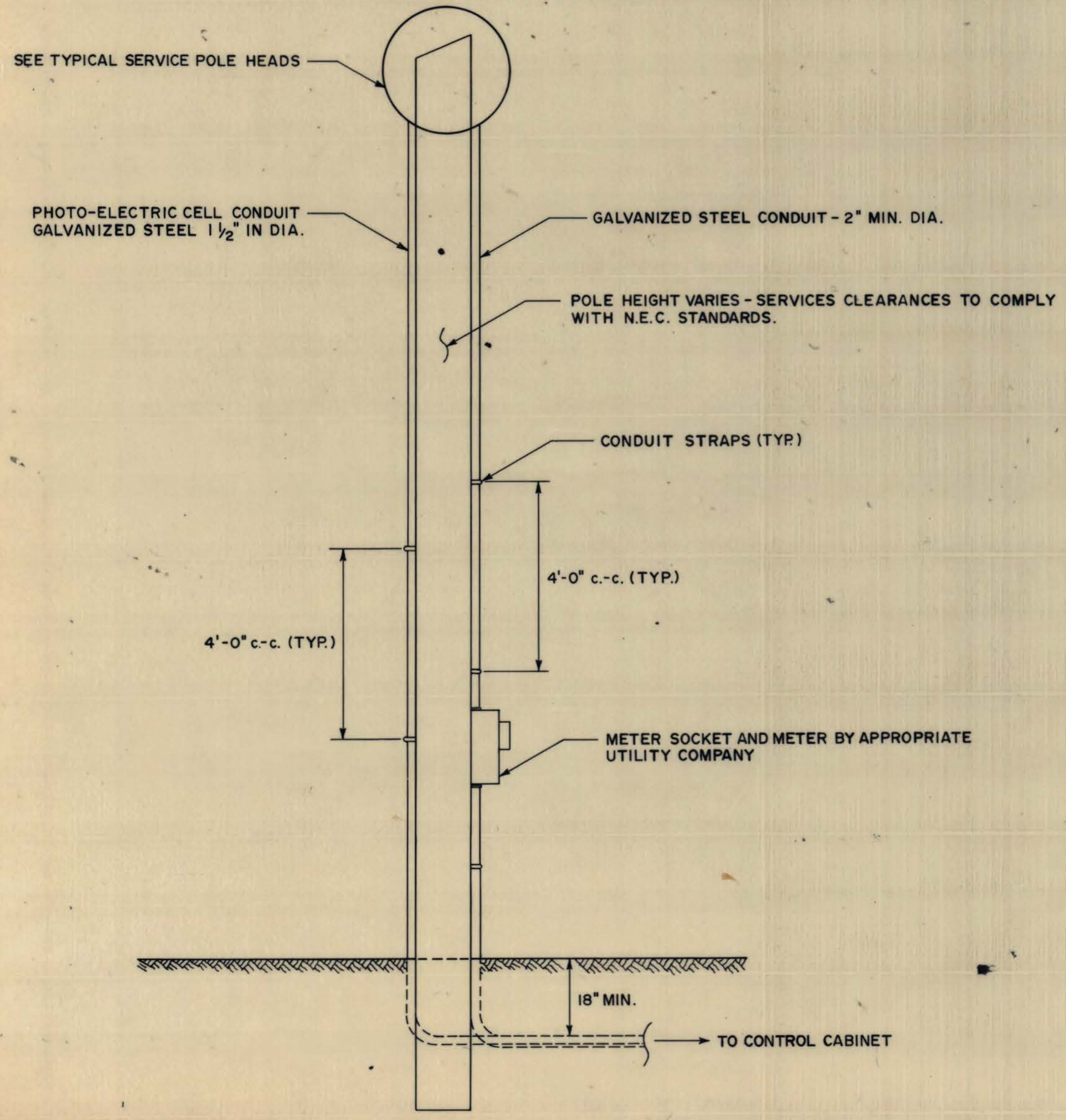


2-WIRE SERVICE

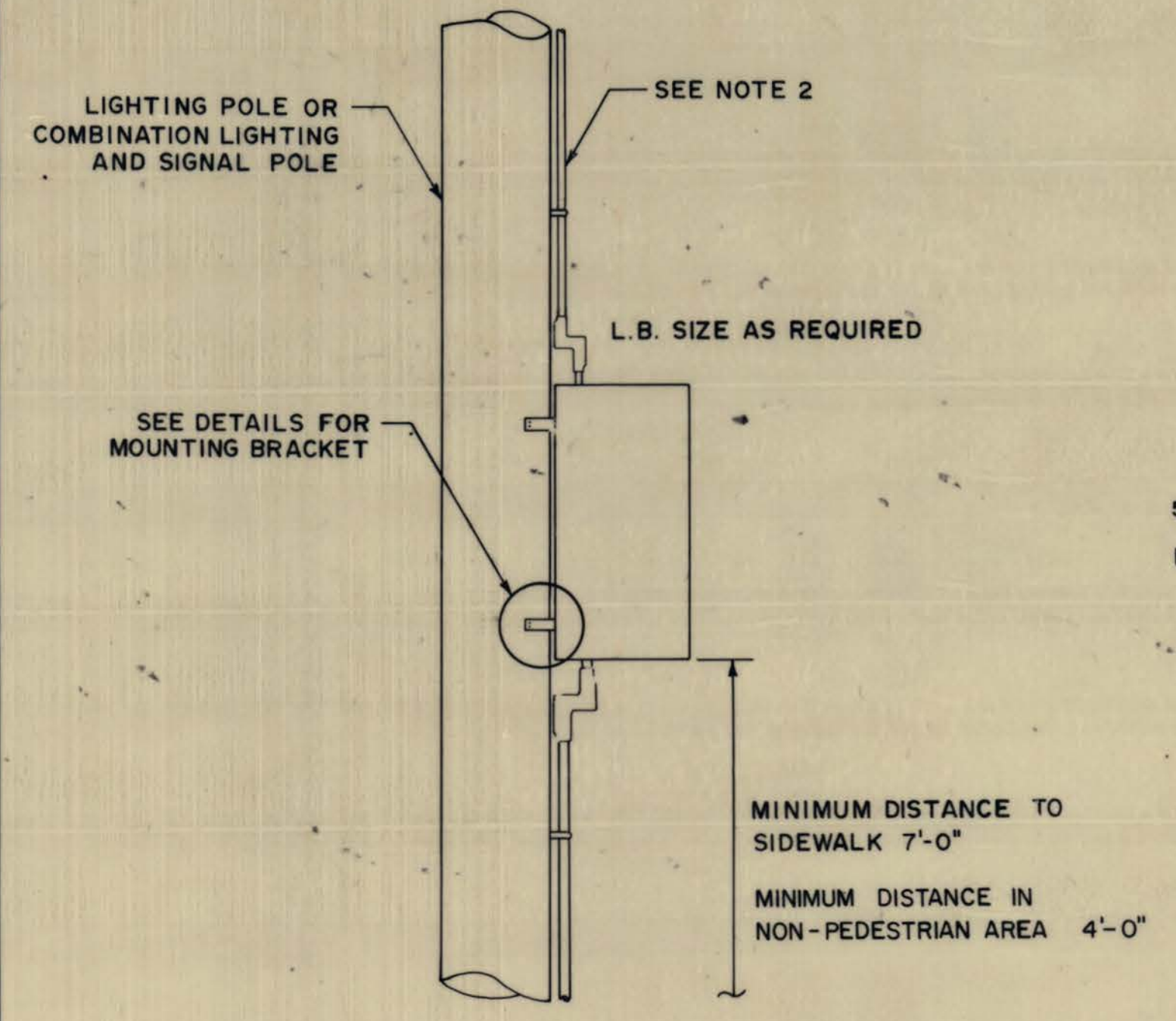


TYPICAL SERVICE POLE HEADS

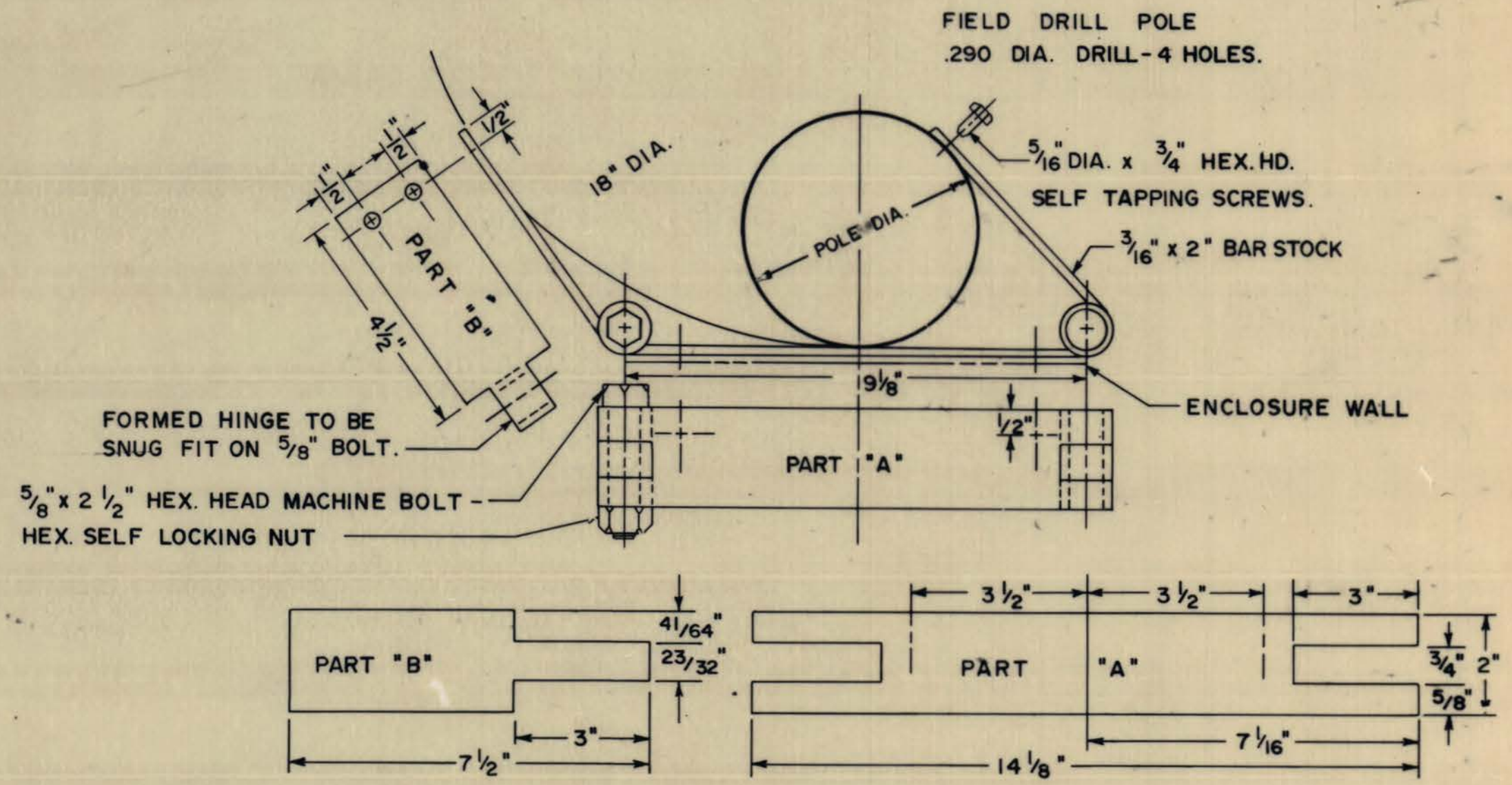
- NOTES:**
1. FINAL LOCATION OF THE SERVICE POLE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 2. IF IT IS NOT POSSIBLE TO MOUNT P.E. UNIT ON SERVICE POLE FOR REASONS SUCH AS PRESENCE OF HIGH VOLTAGE PRIMARY; THE P.E. UNIT SHALL BE MOUNTED ON THE SAME LIGHTING POLE AS THE CONTROL STATION CABINET IS MOUNTED. THE P.E. UNIT FOR GROUND MOUNTED CONTROL STATIONS SHALL BE MOUNTED AT THE ENCLOSURE (AS DETAILED ON TEL-23) UNLESS OTHERWISE DIRECTED ON THE PLANS.
 3. THE CONTROL STATION CABINET IS POLE MOUNTED ON THE FIRST POLE OF THE LIGHTING CIRCUIT UNLESS OTHERWISE DIRECTED ON THE PLANS.
 4. THE METHOD SHOWN FOR CONTROL STATION CABINET POLE MOUNTING SHALL BE USED ONLY IN SITUATIONS WHERE SMALL CONTROL CABINETS ARE USED. FOR LARGER CABINETS MOUNTING METHOD ON SHEET TEL-23 SHALL BE USED.



SERVICE POLE TYPICAL



CONTROL STATION - POLE MOUNTING DETAIL



MOUNTING BRACKET

△ SIGNATURE BLOCK

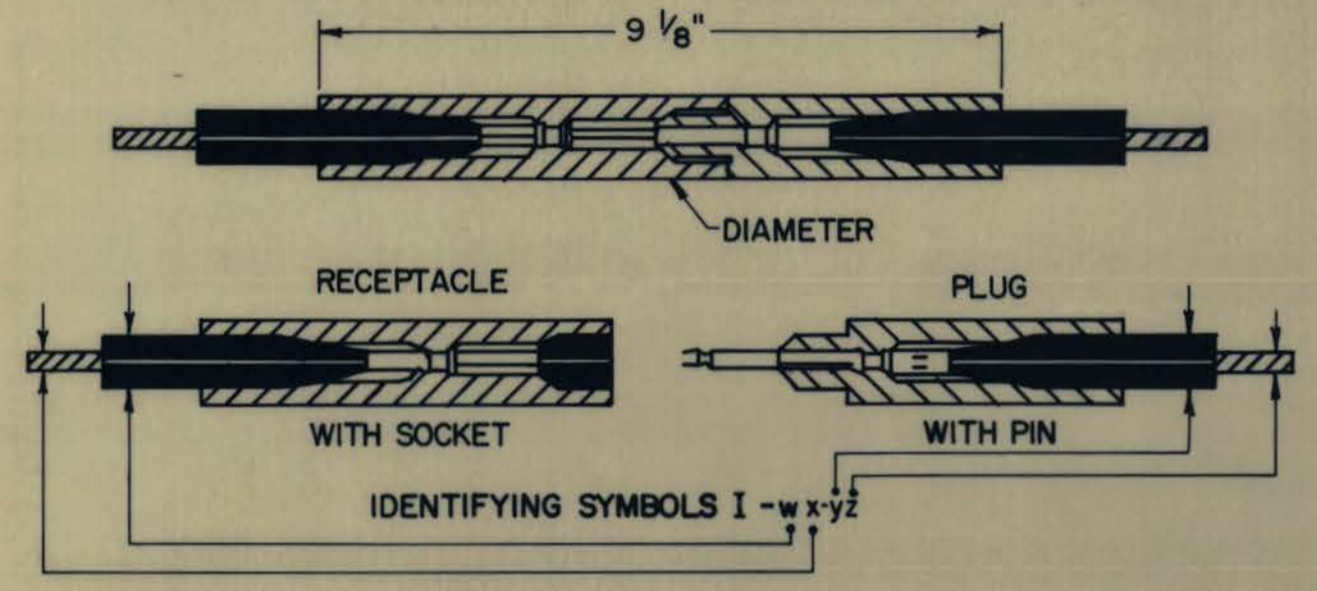
WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
SERVICE POLES AND CONTROL STATION
(POLE MOUNTED) ENCLOSURE

PREPARED - J.H.M. 9-2-75

REVISIONS
△ 12-10-76

CABLE CONNECTOR KITS TYPES I THRU 6

NOTES:
1. WHERE A LIGHT IS LOCATED AT THE END OF THE CIRCUIT, ONE OPENING OF THE "Y" CONNECTOR KIT SHALL BE PLUGGED. THE PLUG SHALL BE OF INSULATING MATERIAL AND HAVE THE SAME OVERALL DIAMETER OF THE LIGHTING CIRCUIT CABLE OCCUPYING THE OTHER OPENING.



To specify the proper kit for an installation select from the tables below the symbols which coincide with the requirements and substitute for (W,X) (Y,Z) respectively.

CABLE DIAMETER		Symbol for W and Y
Min.	Max.	
.195"	.260"	B*
.250"	.330"	C*
.320"	.430"	D*
.420"	.585"	E
.575"	.785"	F
.775"	.985"	G
.975"	1.125"	H

CONDUCTOR SIZE AWG		Symbol for X and Z
Concentric Stranded	Solid	
#10, #12	#8, #10	6
#8	#6	4
#6	#4	3
#4	-	2
#2	-	1

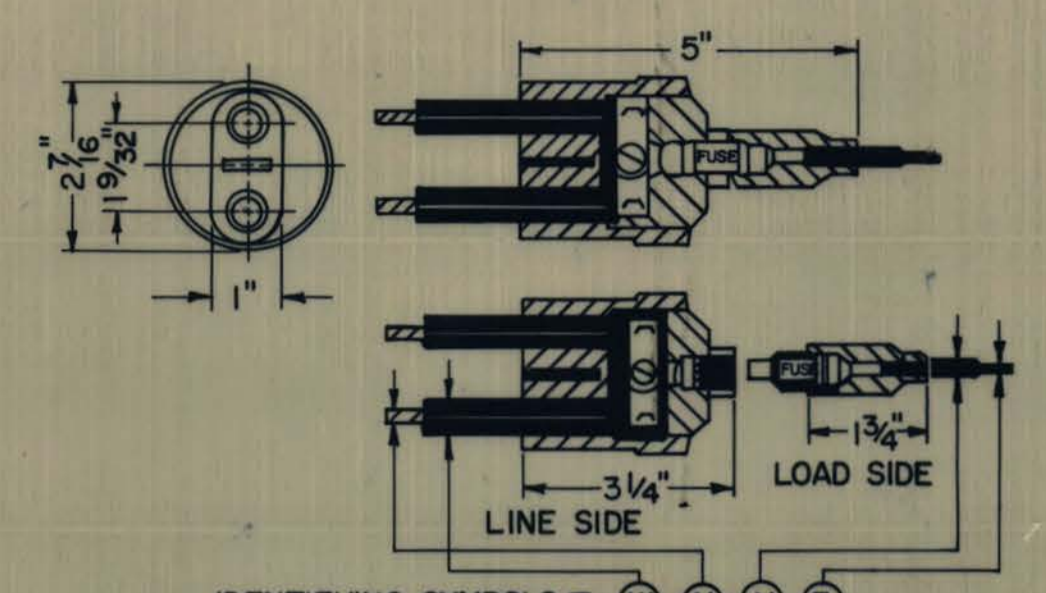
* Molded rubber adapters are a part of these kits for small diameter cables.

EXAMPLE

If the installation requires a receptacle for no.6 stranded conductor and a cable diameter of .660" and a plug for no. 8 solid conductor and a cable diameter of .460", the kit required will be I-F3-E6.

TYPE 1 IN-LINE SELF-LOCKING CONNECTOR KIT FOR PULL* BOX INSTALLATION

(*) WHEREVER JUNCTION BOXES ARE USED FOR WIRE PULLING PURPOSES ONLY.

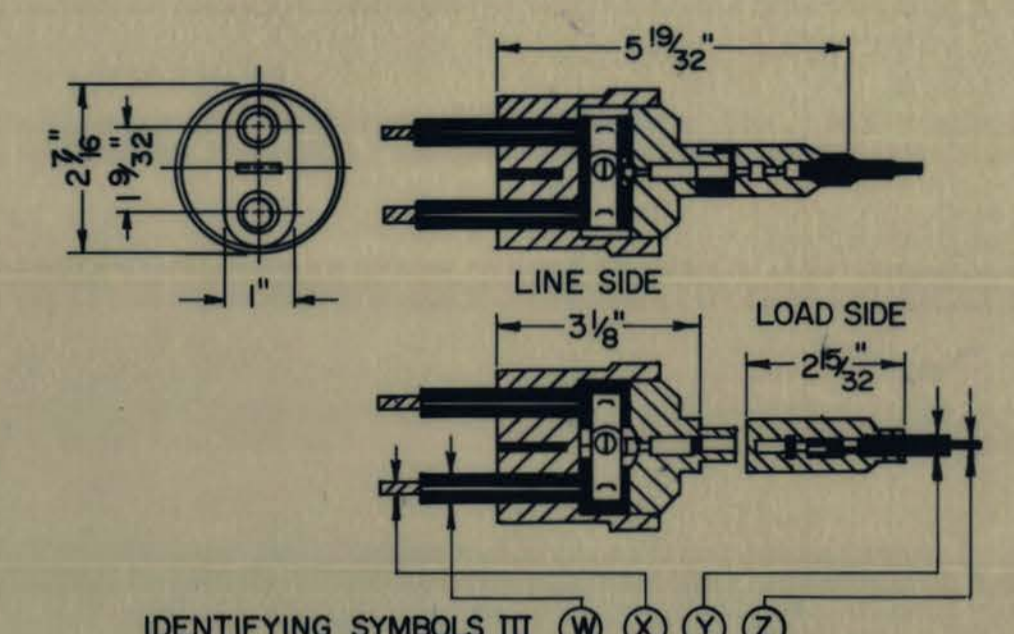


CABLE DIAMETER		Symbol for W	COPPER CONDUCTOR (AWG)		Symbol for X
Min.	Max.		Concentric Stranded	Solid	
.195"	.260"	B	-	#8	6
.250"	.330"	C	#8	#6	4
.320"	.380"	DA	#6	#4	3
.370"	.430"	DB	#4	-	2
.420"	.505"	EA	#2	-	1
.495"	.585"	EB	#1	-	0
.575"	.685"	FA	#1/0	-	10
.675"	.785"	FB	#2/0	-	20

EXAMPLE

If the line outside diameter (W) is .42" and the conductor (X) is no. 6 stranded, and the load side outside diameter (Y) is .29" and the conductor (Z) is no. 12 stranded the kit required will be II-DB3-C6.

TYPE 2 FUSED "Y" CONNECTOR KIT FOR POLE BASE INSTALLATION

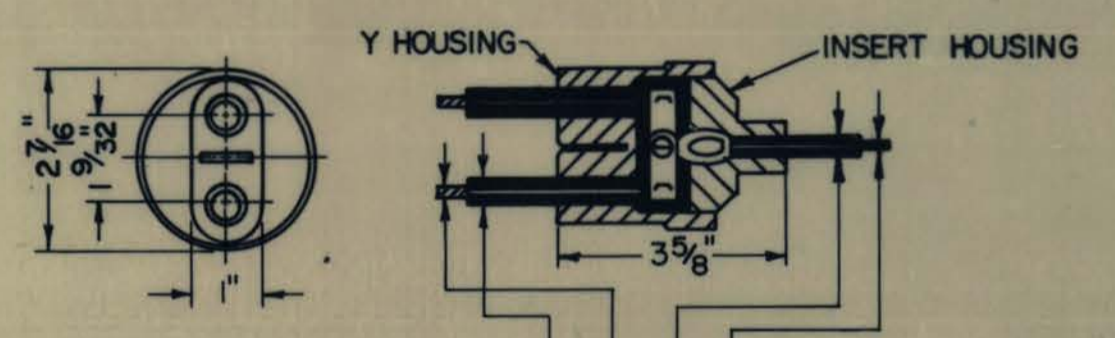


CABLE DIAMETER		Symbol for W	COPPER CONDUCTOR (AWG)		Symbol for X
Min.	Max.		Concentric Stranded	Solid	
.195"	.260"	B	-	#8	6
.250"	.330"	C	#8	#6	4
.320"	.380"	DA	#6	#4	3
.370"	.430"	DB	#4	-	2
.420"	.505"	EA	#2	-	1
.495"	.585"	EB	#1	-	0
.575"	.685"	FA	#1/0	-	10
.675"	.785"	FB	#2/0	-	20

EXAMPLE

If the line side cable outside diameter (W) is .54" and the conductor (X) is no. 2 stranded, and the load side cable outside diameter (Y) is .29" and the conductor (Z) is no. 12 stranded, the kit required will be III-EB1-C6.

TYPE 3 UNFUSED "Y" CONNECTOR KIT FOR POLE BASE INSTALLATION



CABLE DIAMETER		Symbol for W
Min.	Max.	
.195"	.260"	B
.250"	.330"	C
.320"	.380"	DA
.370"	.430"	DB
.420"	.505"	EA
.495"	.585"	EB
.575"	.685"	FA
.675"	.785"	FB

COPPER CONDUCTOR (AWG)		Symbol for X
Concentric Stranded	Solid	
#8	#6	6
#6	#4	4
#4	-	2
#2	-	1
#1	-	0
#1/0	-	10
#2/0	-	20

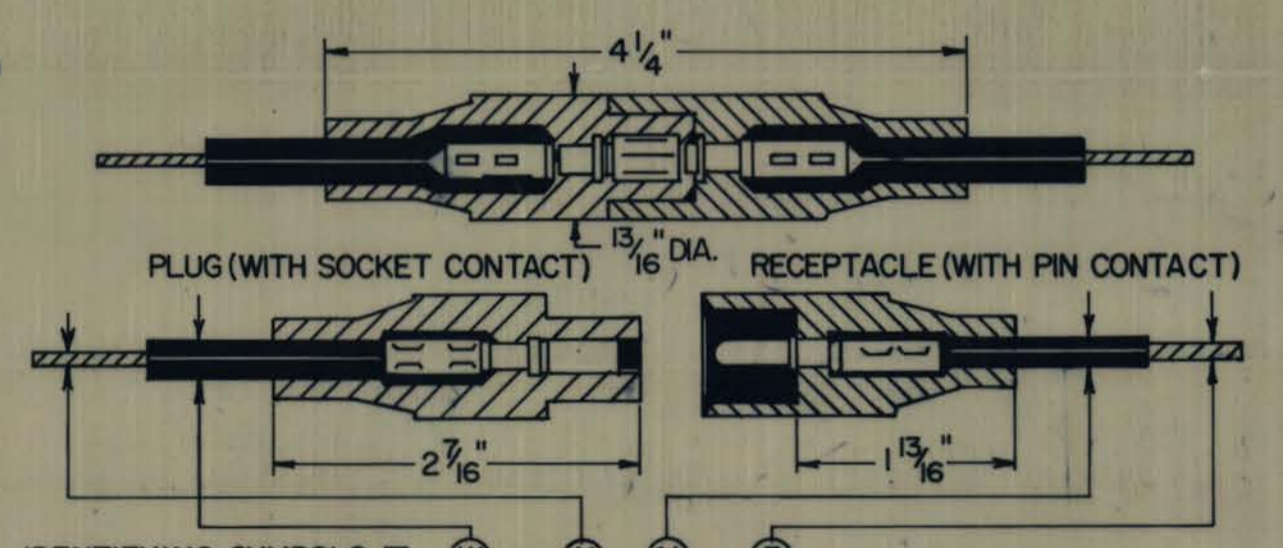
CABLE DIAMETER		Symbol for Y
Min.	Max.	
.120"	.160"	S
.155"	.205"	A
.195"	.260"	B
.250"	.330"	C
.320"	.430"	D
.420"	.585"	E
.575"	.785"	F

COPPER CONDUCTOR (AWG)		Symbol for Z
Concentric Stranded	Solid	
#14, #16	#12, #14	8
#10, #12	#8, #10	6
#8	#6	4
#6	#4	3
#4	-	2
#2	-	1
#1	-	0
#1/0	-	10
#2/0	-	20

EXAMPLE

If the twin cable outside diameter (W) is .54" and their conductor (X) is no. 2 stranded, and the single cable outside diameter (Y) is .29" and the conductor (Z) is no. 12 stranded, the kit required will be IV-EB1-C6.

TYPE 4 UNFUSED "Y" CONNECTOR KIT FOR PULL* BOX INSTALLATION



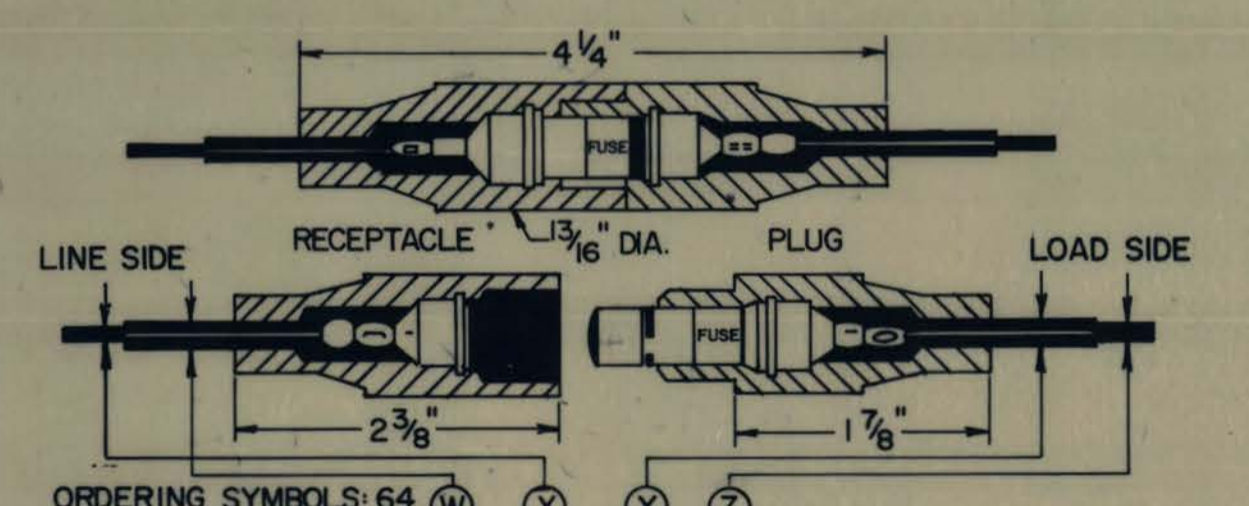
CABLE DIAMETER		Symbol for W and Y
Min.	Max.	
.120"	.160"	S
.155"	.205"	A
.195"	.260"	B
.250"	.330"	C
.320"	.430"	D

CONDUCTOR SIZE AWG		Symbol for X and Z
Concentric Stranded	Solid	
#14, #16	#12, #14	8
#10, #12	#8, #10	6
#8	#6	4
#6	#4	3

EXAMPLE

If the installation requires a plug for a cable diameter of .38" and a no. 8 stranded conductor, and a receptacle for a cable diameter of .27", and a no. 14 stranded conductor, the kit required will be V-D4-C8.

TYPE 5 UNFUSED IN-LINE CONNECTOR KIT FOR JUNCTION BOX INSTALLATION



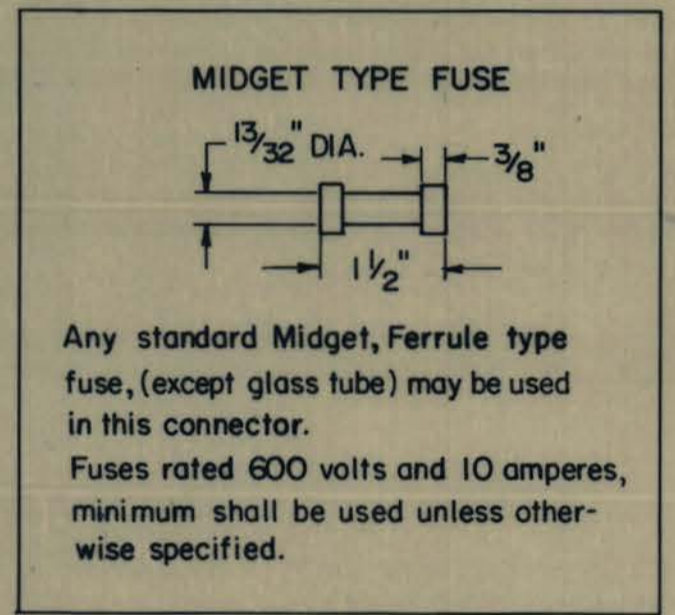
CABLE DIAMETER		Symbol for W and Y
Min.	Max.	
.110"	.110"	T
.120"	.160"	S
.155"	.205"	A
.195"	.260"	B
.250"	.330"	C
.320"	.430"	D

CONDUCTOR SIZE AWG		Symbol for X and Z
Concentric Stranded	Solid	
#14, #16	#12, #14	8
#10, #12	#8, #10	6
#8	#6	4
#6	#4	3

EXAMPLE

If the line outside diameter (W) is .42" and the conductor (X) is no. 6 stranded, and the load side outside diameter (Y) is .29" and the conductor (Z) is no. 12 stranded, the kit required will be VI-D3-C6.

TYPE 6 FUSED IN-LINE CONNECTOR KIT FOR JUNCTION BOX INSTALLATION



Any standard Midget, Ferrule type fuse, (except glass tube) may be used in this connector. Fuses rated 600 volts and 10 amperes, minimum shall be used unless otherwise specified.

△ SIGNATURE BLOCK

WEST VIRGINIA DEPARTMENT OF HIGHWAYS STANDARD DETAIL ELECTRICAL CABLE CONNECTOR KITS

PREPARED - 7/18/75

REVISIONS
△ 12-10-76

CABLE CONNECTOR KITS

TYPE 7 THRU 9

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.V.A.	3	318-AL-56-0.00	F-338 (002)		JACKSON, W.VA. MEIGS, OHIO	116	125

C-4

NOTES:

1. STYLE "S" CONNECTORS SHALL BE THE SPLICING SLEEVE TYPE CONSISTING OF A CRIMPABLE PLATED COPPER SLEEVE WITH A THIN METAL WALL ("STOP") IN THE BARREL CENTERED BETWEEN EACH SLEEVE END IN SUCH A MANNER THAT THE SLEEVE SHALL ENCLOSE EQUAL LENGTHS OF THE TWO CONDUCTORS BEING SPLICED END TO END. THE BARREL OF THE SLEEVE WILL FIT SPECIFIC RANGES OF CONDUCTOR SIZES. THE MANUFACTURER'S INSTRUCTIONS RELATING THERETO SHALL BE STRICTLY FOLLOWED.
2. STYLE "H" CONNECTORS SHALL BE THE PARALLEL GROOVE CONNECTOR CONSISTING OF A METAL BODY HAVING TWO FULLY-OPENED GROOVES OR SLOTS PARALLEL TO EACH OTHER, AND SEPARATED BY A PORTION OF THE CENTER SECTION OF THE BODY. THE TOTAL CIRCUMFERENCE OF EACH CONDUCTOR SHALL BE COMPLETELY SURROUNDED BY METAL WHEN THE CONNECTOR IS DEPRESSED.
3. THE FUSEHOLDER SHALL BE CAPABLE OF RETAINING A 13/32 INCH DIAMETER BY 1 1/2 INCH LONG FUSE RATED AT 600 VOLT AND A MINIMUM OF 10 AMPERES.
4. THE "Y" TYPE BOOT SHALL NOT BE CUT BEYOND THE CROTCH WHERE THE INSIDE DIAMETER OF EACH LEG IS 0.35". USE OF A CABLE OF 0.48" O.D. IN THE "Y" TYPE BOOT MAY REQUIRE THE APPLICATION OF A LUBRICATING COMPOUND ON THE CABLE INSULATION FOR IT TO SLIDE INTO THE BOOT.
5. IF THE CABLE HAS A NYLON JACKET, THE JACKET SHALL BE PEELED BACK TO A POINT WHERE NO PART OF THE JACKET IS ENCASED IN THE BOOT OF THE INSULATED CABLE.

TYPE 7 CABLE CONNECTOR KITS

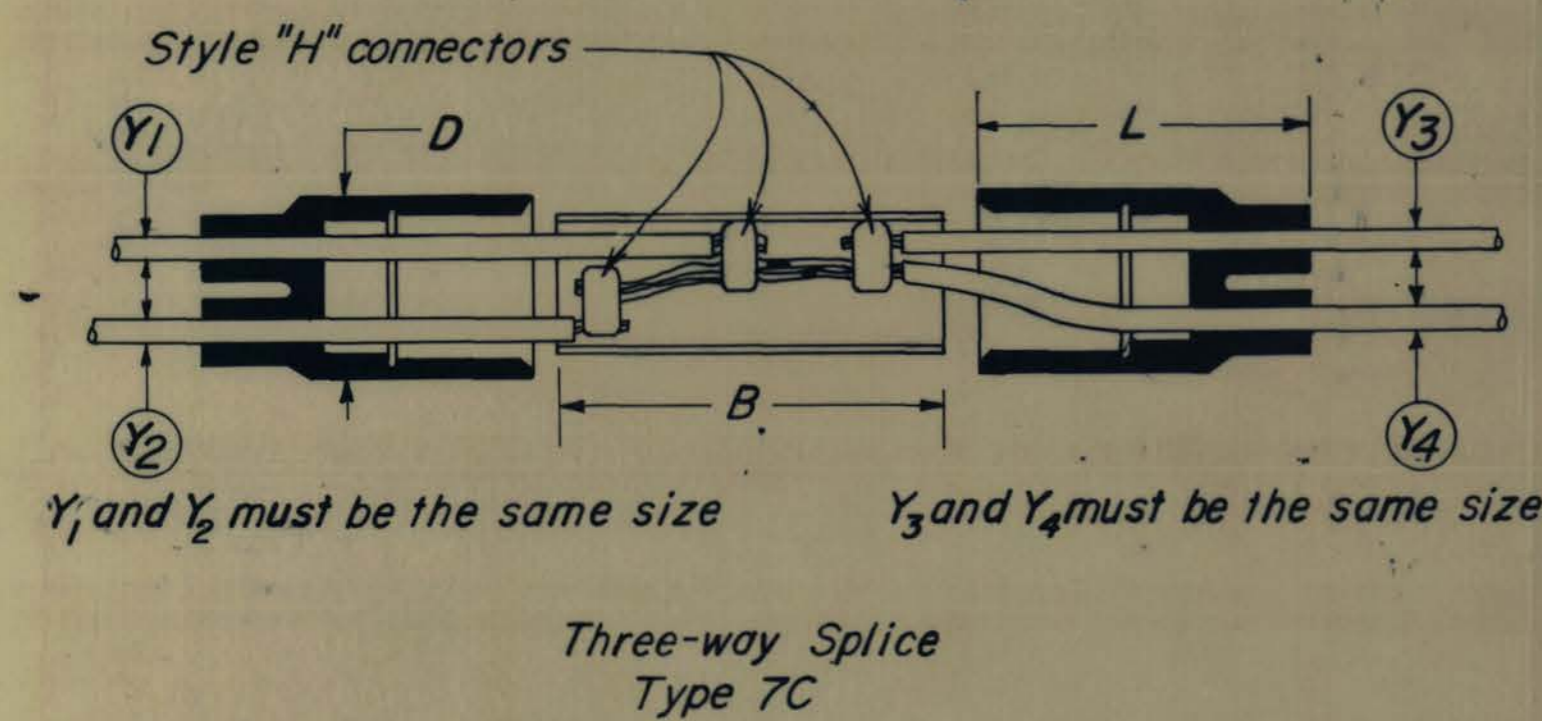
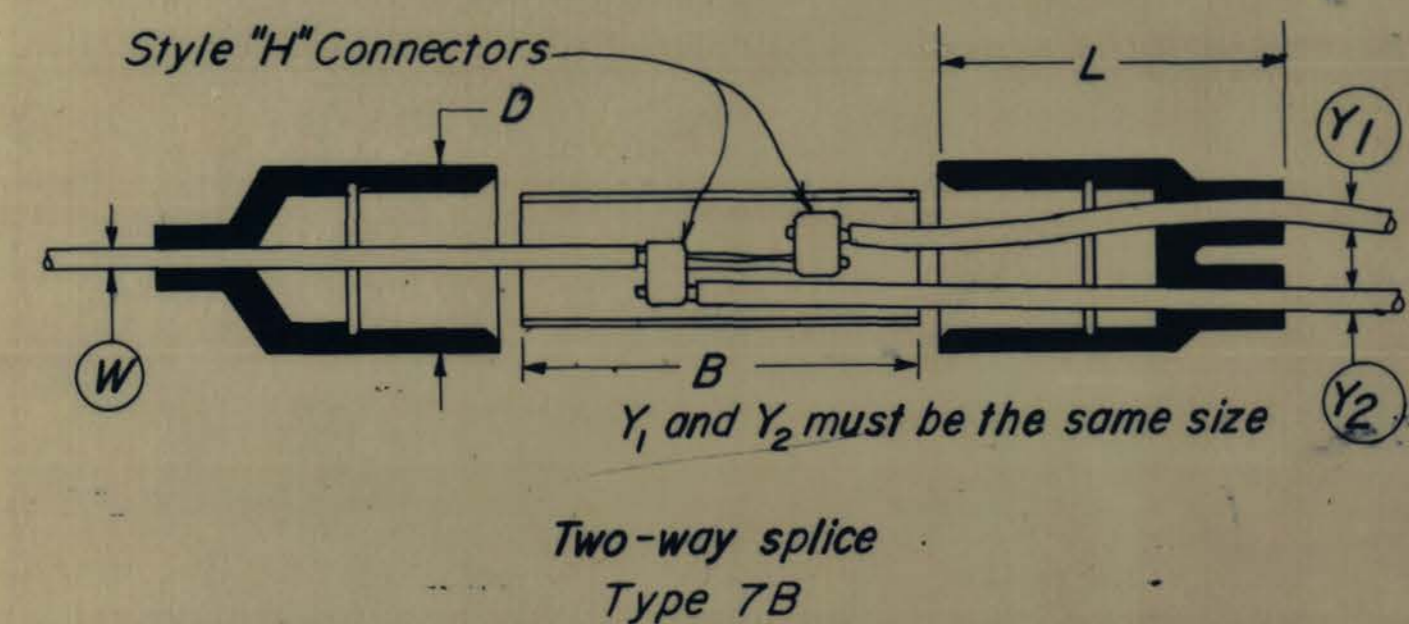
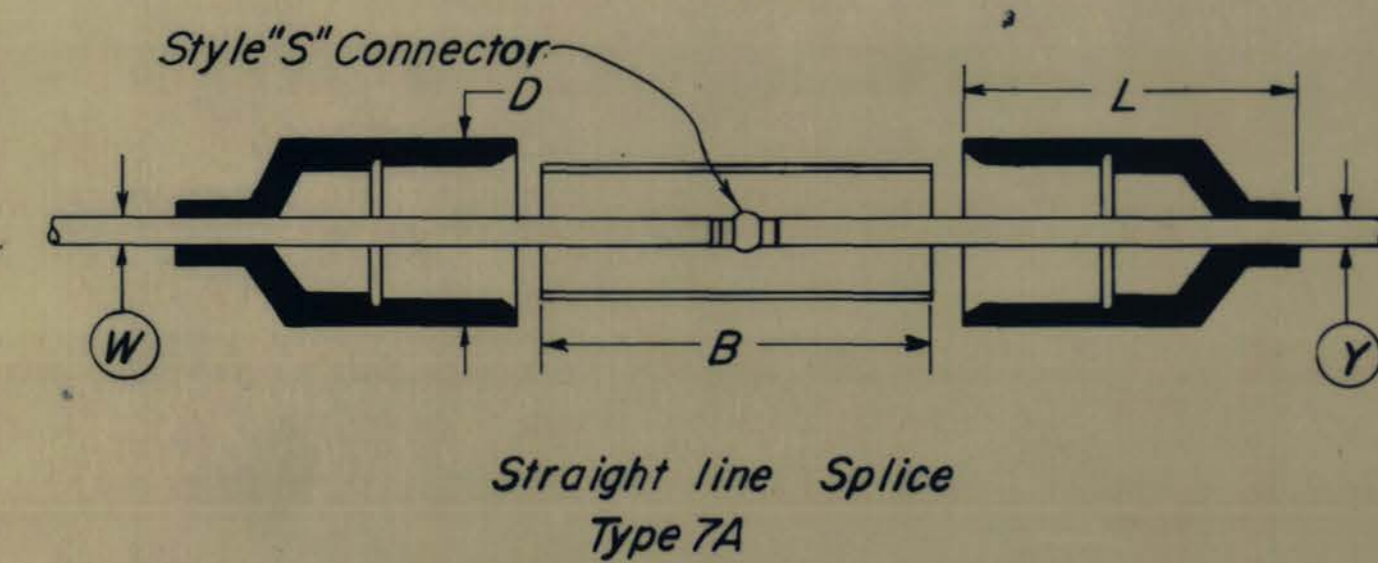
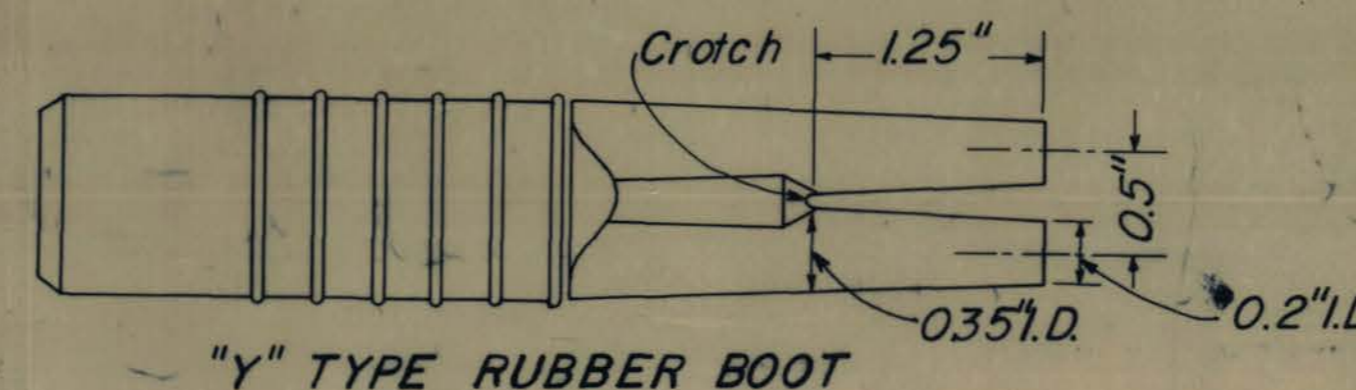
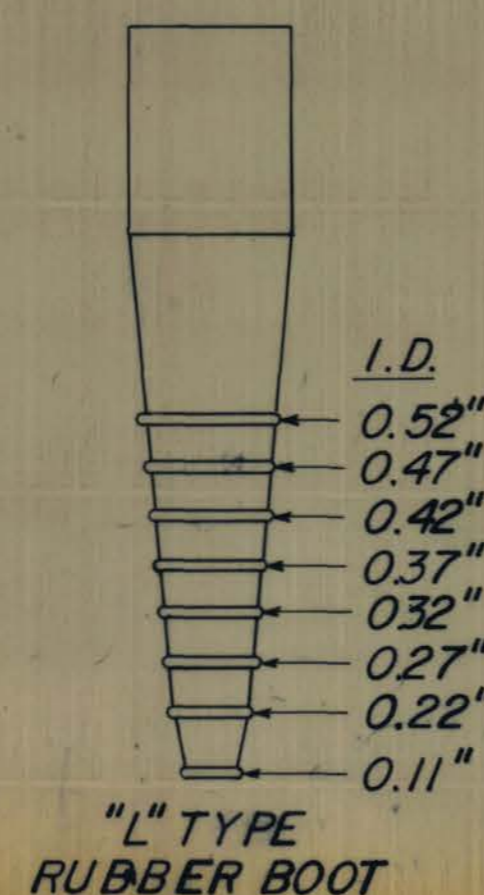
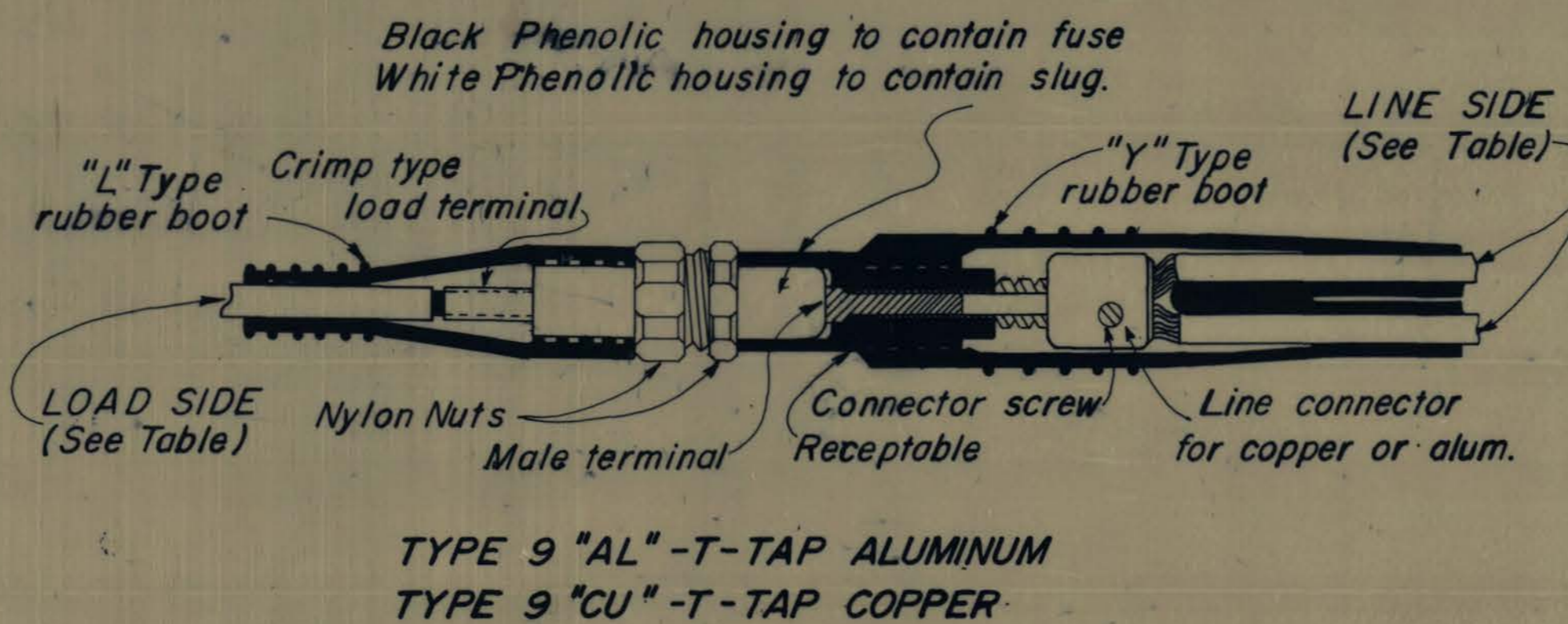
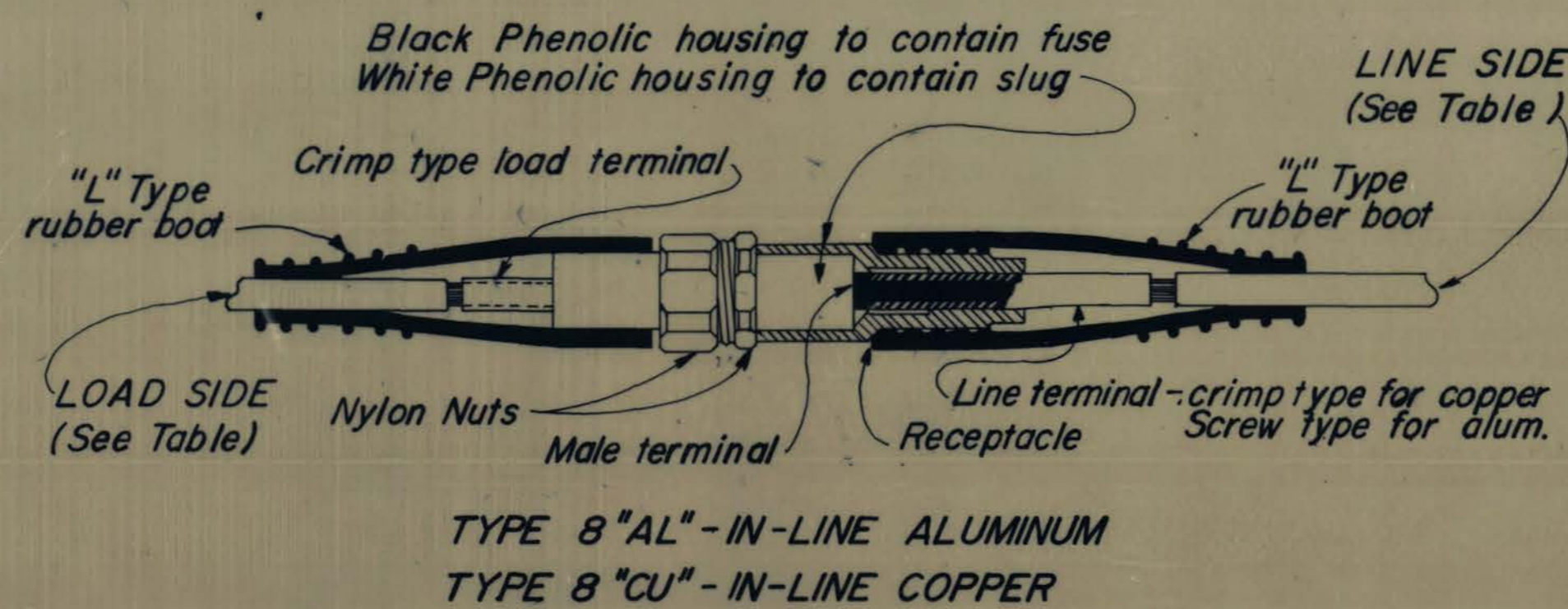


TABLE OF NOMINAL TYPE 7 KIT
STYLE VARIATIONS REQUIRED

B	D	L	Cable Diameter		AWG 600V cable
			min.	max.	
3" and 7"	1 29/32	4 1/16	.320"	.430"	No. 6 and No. 4
	"	"	.420"	.585"	No. 2 and No. 2/0
	"	"	.575"	.785"	No. 3, 0-250 MCM*
	"	"	.775"	.985"	200 MCM-400 MCM
	"	4 3/16	975"	1.185"	500 MCM
	"	4 5/16	1.175"	1.385"	600 MCM-750 MCM

*Maximum "Y" cable size. See catalogs or design drawings for specific kit symbolization required in each application.

TYPE 8 & 9 CABLE CONNECTOR KITS



△ SIGNATURE BLOCK

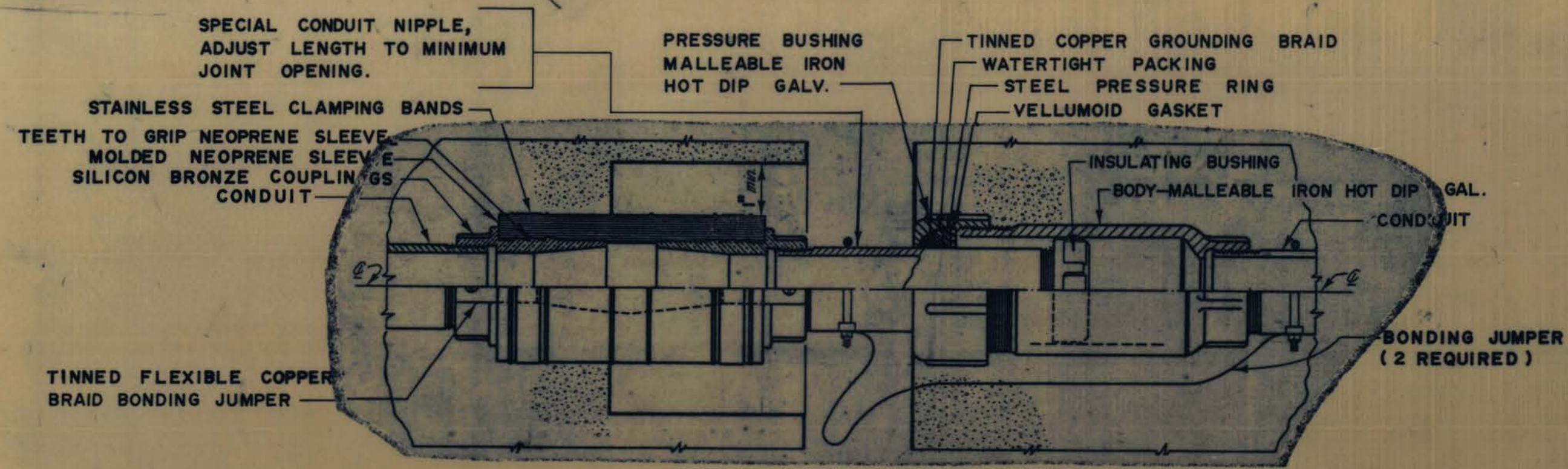
WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
ELECTRICAL CABLE CONNECTOR KITS

PREPARED - F.N. 7/18/75

REVISIONS
△ 12-10-76

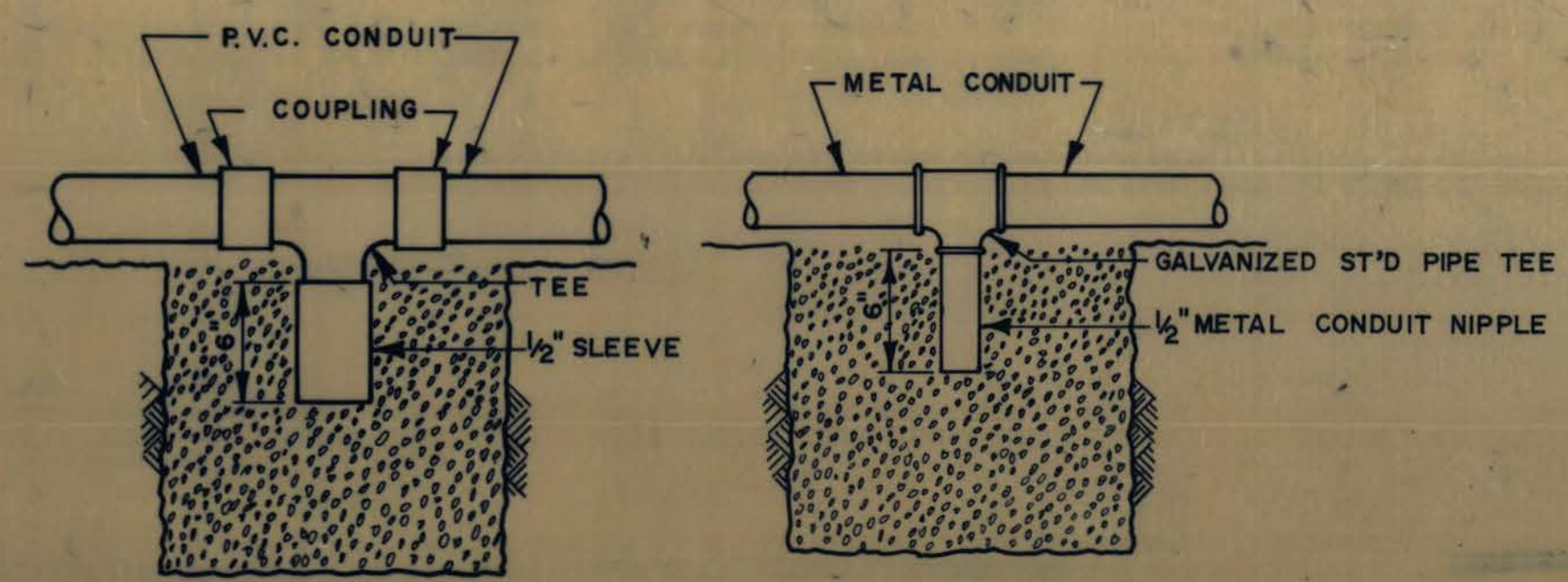
STANDARD SHEET TEL-09B

PUBLIC ROAD DIST.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.VA.	3	318-AL56-0.00	F-338 (002)		JACKSON, W.VA. MEIGS, OHIO	116-K	125



CONDUIT EXPANSION / DEFLECTION JOINT FITTING
NOT TO SCALE
NOTE

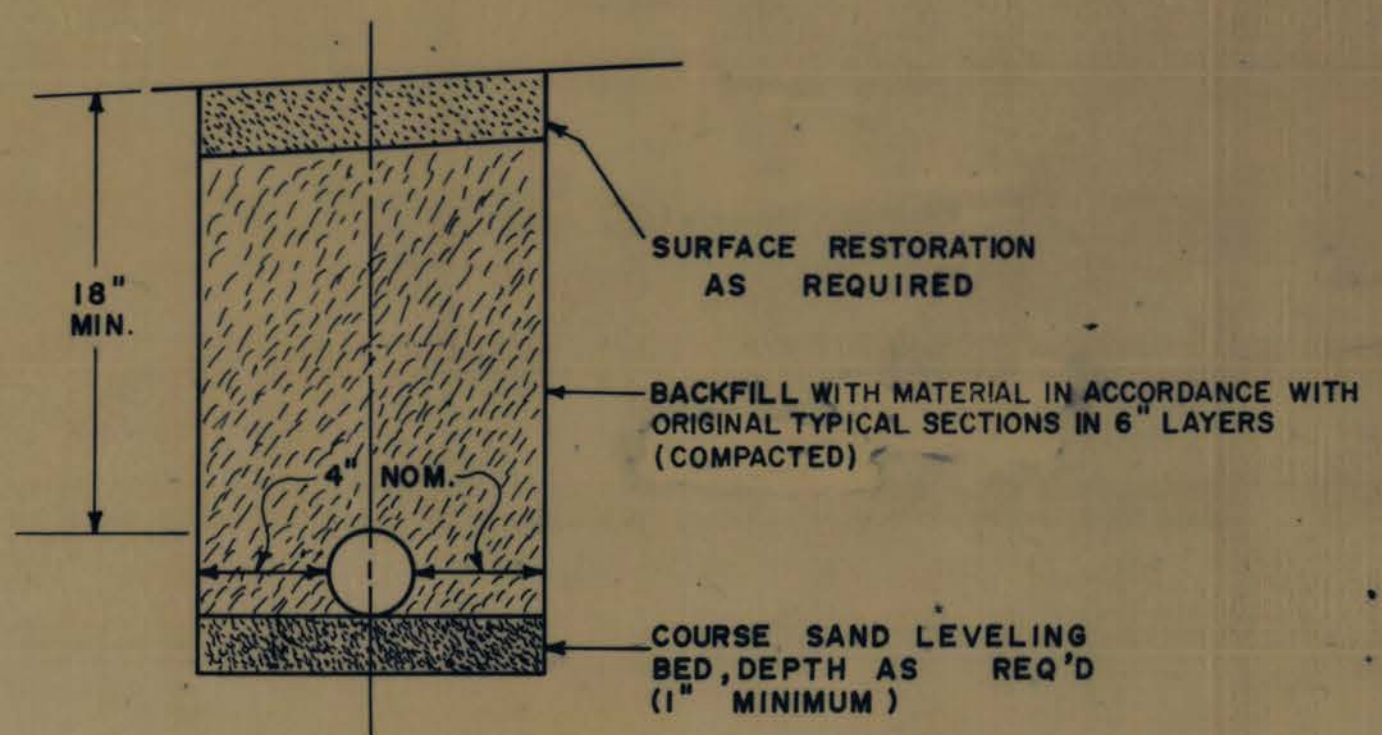
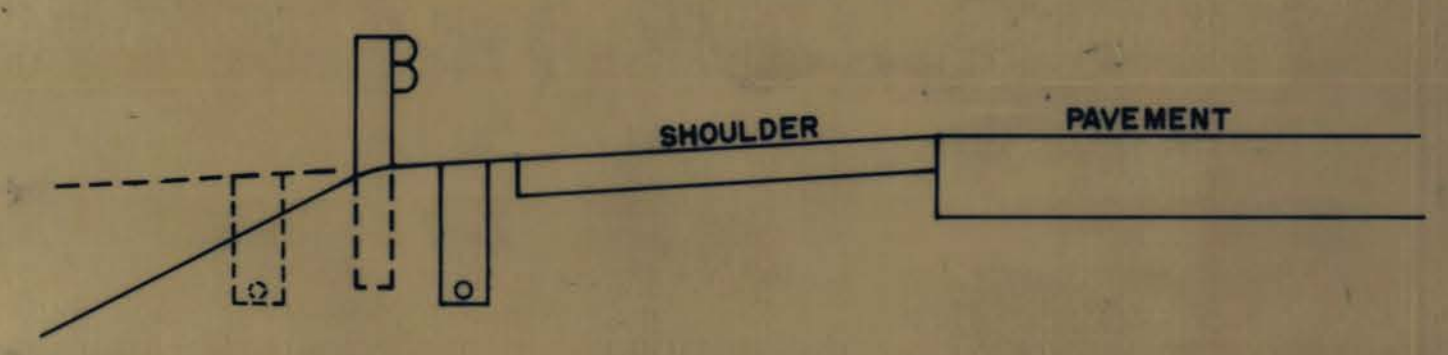
PROVIDE EXPANSION / DEFLECTION FITTING AT ALL EXPANSION JOINTS IN BRIDGE MEDIANS, PARAPETS, RETAINING WALLS, AND SIMILAR LOCATIONS. PROVIDE SIMILAR INSTALLATION IN EXPOSED CONDUIT RUNS AS REQUIRED AT EXPANSION JOINTS, ETC., AT THE ENTRANCE OF EXPOSED CONDUIT 2" AND OVER TO PULL BOXES, AND NEAR THE JOINT BETWEEN EXPOSED AND BURIED OR ENCASED CONDUIT. FITTING TO BE SIMILAR TO COMBINATION OF O.Z. TYPES EX AND DX FITTINGS AND SHALL BE SET FOR MOVEMENT IN EACH DIRECTION EQUAL TO PLAN BRIDGE MOVEMENT PLUS 1" IN EACH DIRECTION.



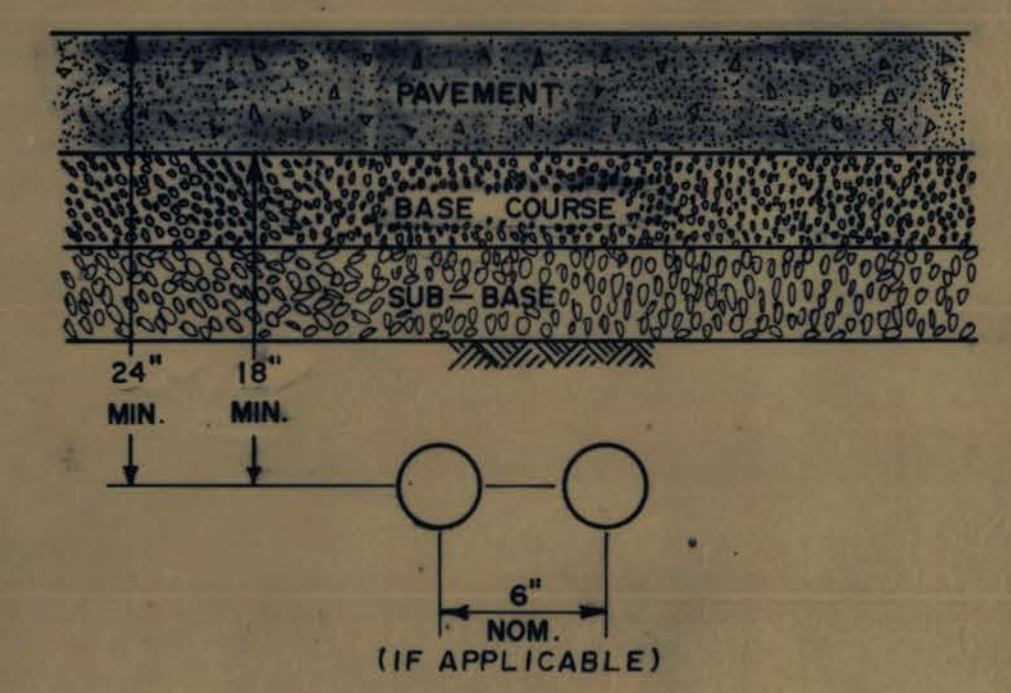
UNDERGROUND CONDUIT DRAINAGE DETAILS
NOT TO SCALE
NOTE

PROVIDE 2' x 2' x TRENCH WIDTH AGGREGATE POCKET AND DRAIN AT LOW POINT OF CONDUIT RUN. IF LOW POINT IS NOT IN A JUNCTION BOX.

CONDUIT LOCATION IS SPECIFIED ON THE CONTRACT PLANS



TRENCH DETAILS



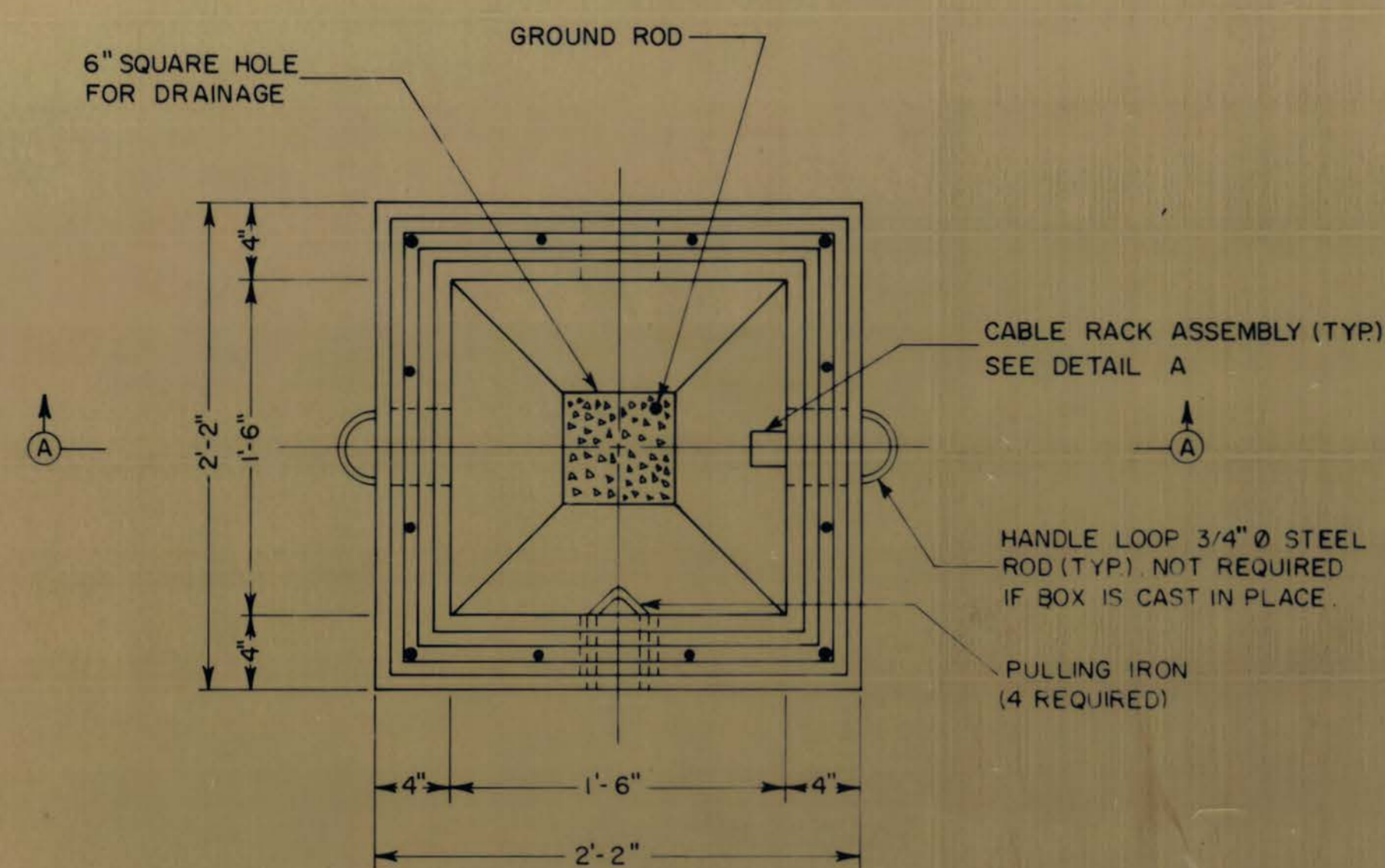
1. DIMENSIONS ARE MEASURED AT POINT OF CONDUIT ENTRANCE. EXIT DIMENSIONS MAY VARY +12" - 6" VERTICALLY, +12" - 3" HORIZONTALLY (BETWEEN CONDUITS) UNLESS OTHERWISE APPROVED.
2. CROSSING TO TERMINATE BOTH ENDS IN JUNCTION BOX UNLESS OTHERWISE NOTED.
3. CONDUIT TO BE JACKED OR BORED AND MAY NOT BE WASH-BORED.

CROSSING DETAIL

**WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
CONDUIT DETAILS**

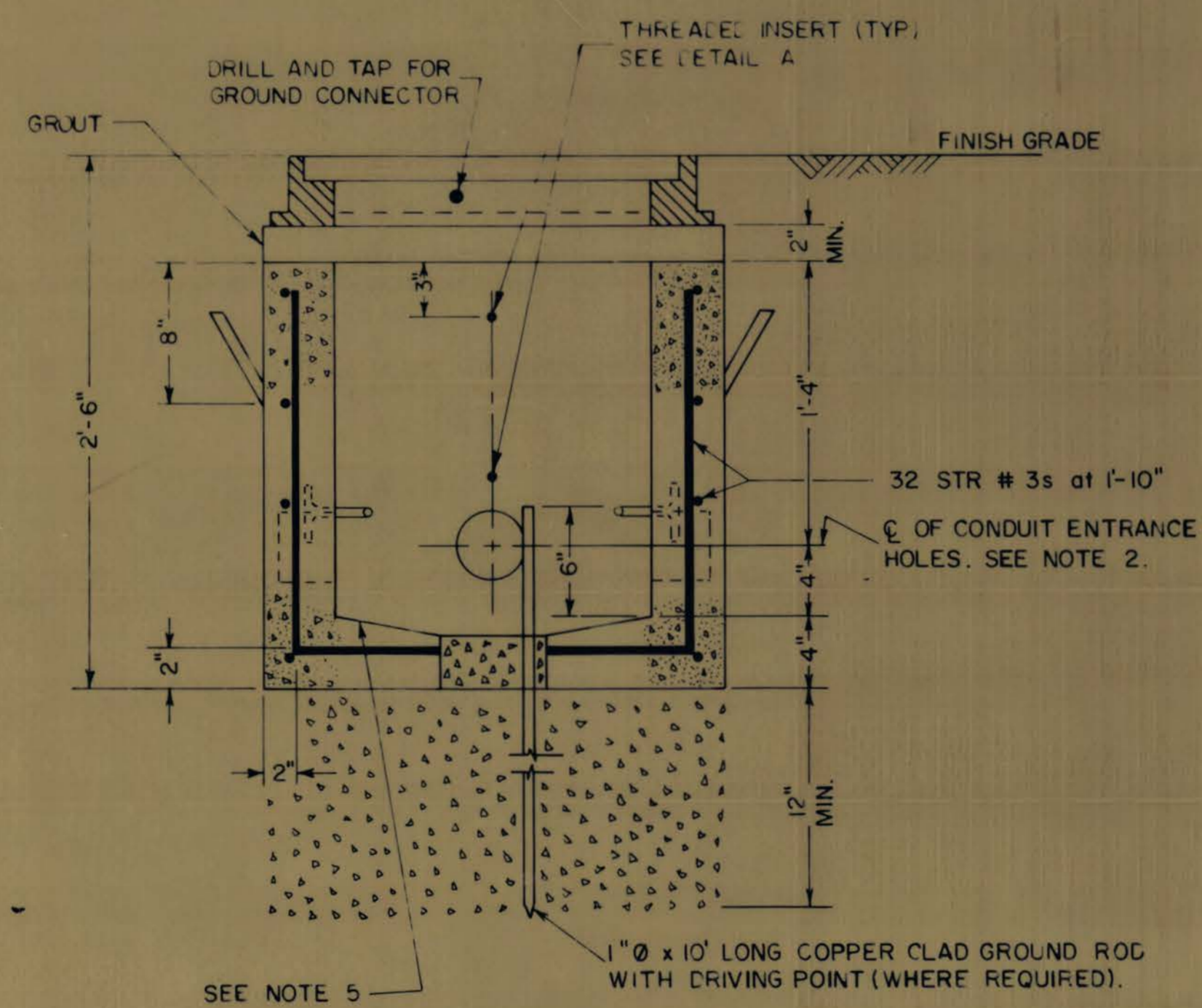
PREPARED 7/18/75
REVISIONS
6-1-76

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJ. NO.	FEDERAL PROJ. NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W.VA.	3	318-AL56-0.00 C-2-4	F-338(002)		JACKSON, W.VA MEIGS, OHIO	116 L	125



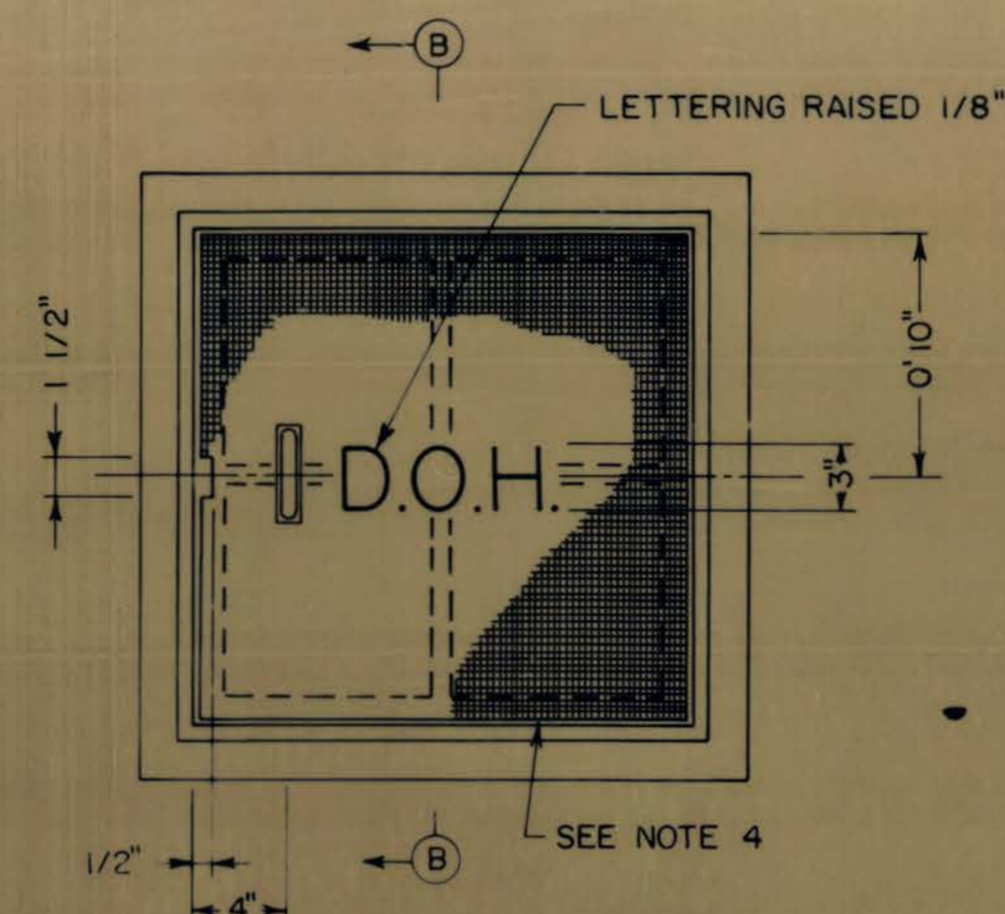
PLAN WITH COVER REMOVED

SCALE 1/2" = 1'-0"

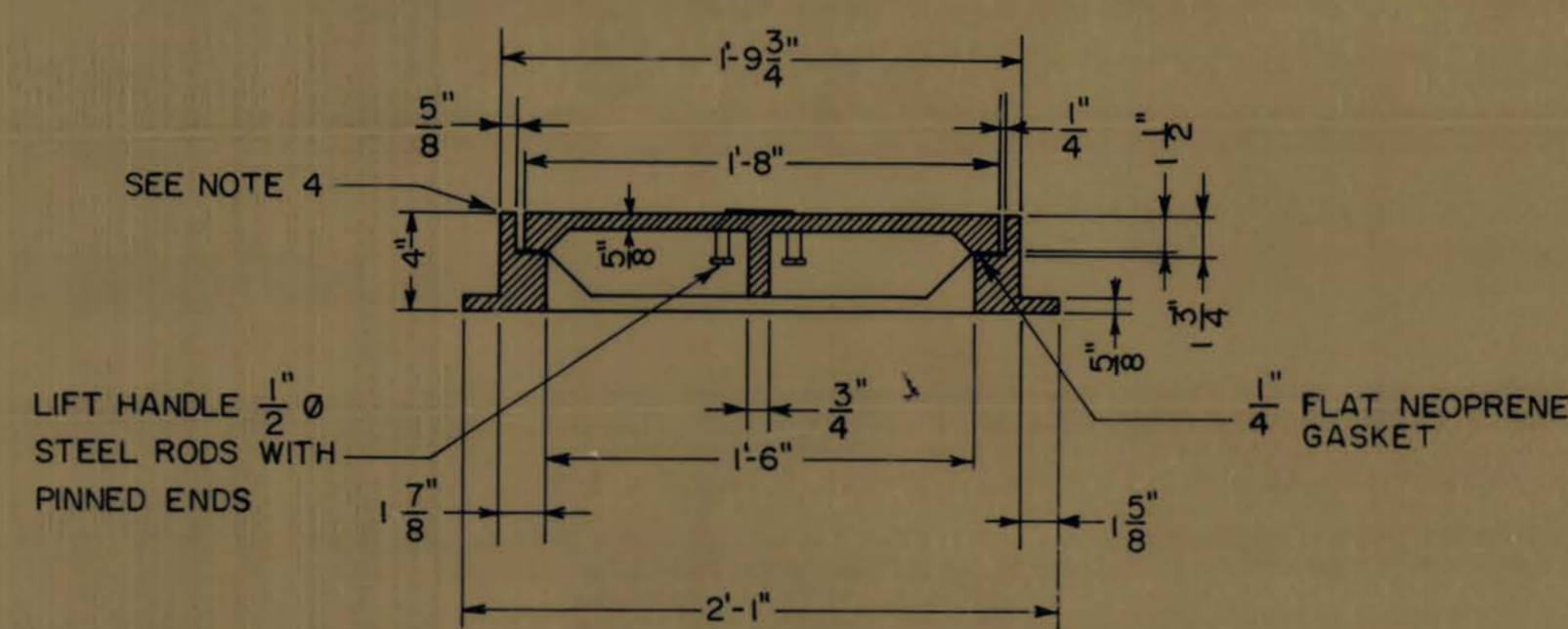


SECTION A-A

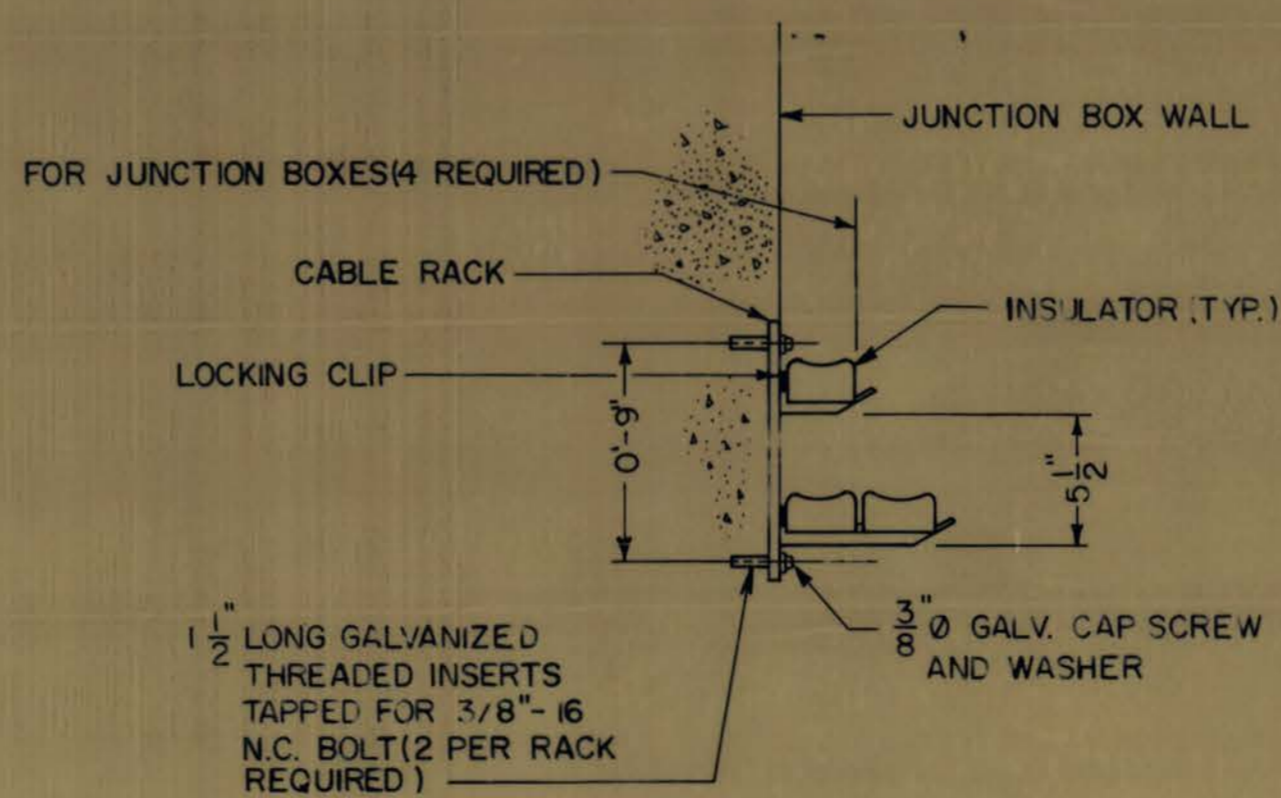
CONCRETE JUNCTION BOX



PLAN



SECTION B-B
FRAME AND COVER



DETAIL A

CABLE RACK ASSEMBLY

1. ALL CONCRETE SHALL BE CLASS "B".
2. ALL CONDUIT ENTRANCE HOLES TO BE THREE INCH DIAMETER WITH ONE INCH KNOCKOUT WALL. FOUR HOLES PER JUNCTION BOX ARE REQUIRED UNLESS NOTED OTHERWISE.
3. CONDUCTORS SHALL BE SUPPORTED ON CABLE RACKS IN JUNCTION BOXES 18" x 18". JUNCTION BOXES (18" x 18") ARE TO HAVE END BELLS OR INSULATED BUSHINGS INSTALLED BEFORE ANY CABLE IS PULLED IN CONDUIT.
4. FRAME CASTING SHALL BE CAST IRON WITH A MINIMUM TENSILE STRENGTH OF 30,000 psi. COVER CASTING SHALL BE DUCTILE IRON CASTINGS WITH A MINIMUM TENSILE STRENGTH OF 60,000 psi AND A MINIMUM YIELD STRENGTH (2% OFFSET METHOD) OF 40,000 psi. ALL STEEL COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-123 OR A-153.
5. BOTTOM OF JUNCTION BOXES SHALL BE SLOPED TO DRAIN HOLE.
6. FOR TYPE H, 10" x 10" OR TYPE L, SEE TBS 50.

- ⚠ DECREASED ALL DIMENSIONS
- ⚠ RACK SPACING
- ⚠ CHANGED NOTE 4

WEST VIRGINIA DEPARTMENT OF HIGHWAYS
STANDARD DETAIL
JUNCTION BOX-TYPE H,
18" x 18"

PREPARED-F.N.7/18/75

REVISIONS

- ⚠ 7/22/76
- ⚠ 12/10/76
- ⚠ 8/11/77

STANDARD SHEET TEL-43