

FHWA REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	(BC)96-87-K044-1(28)	8	22	143

GENERAL NOTES

DESIGN: A.A.S.H.T.O. Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1975 Edition and subsequent revisions.

PIPE: Aluminum pipe for members ① & ② shall conform to ASTM B241 or B429, Alloy 6061-T6.

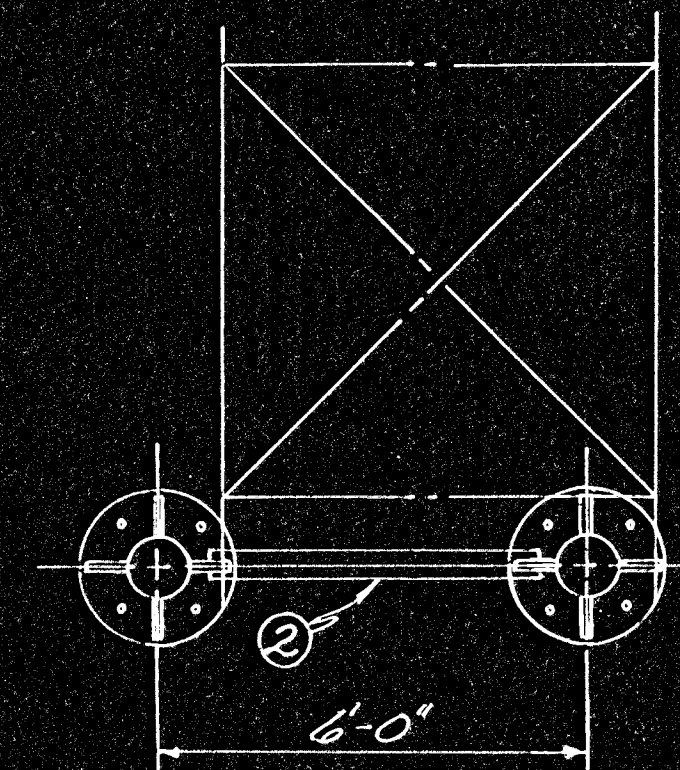
FLANGES: Slip-on Aluminum Welding Flanges, 300 lb. ASA, ASTM B247, Alloy 6061-T6, Flat Faced.

PLATE: All aluminum plate shall conform to ASTM B209, Alloy 6061-T6, T66, T651.

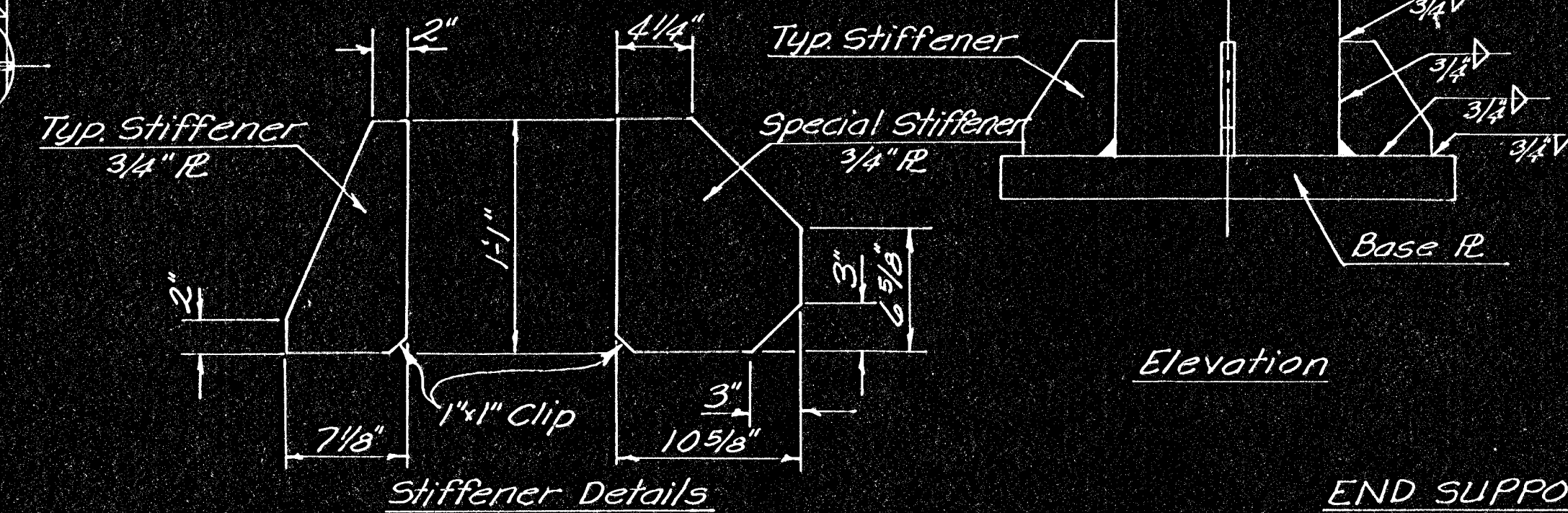
CAP: Caps shall be Gustin-Bacon No. 70, or other approved flat cap. Caps shall be Hot-Dipped galvanized according to ASTM A123, and shall be installed with set screws. Flat Aluminum caps may be used.

BOLTS: All High Strength bolts, nuts, and washers shall conform to ASTM A325 and shall be galvanized to meet the requirements of ASTM A153, Class C.

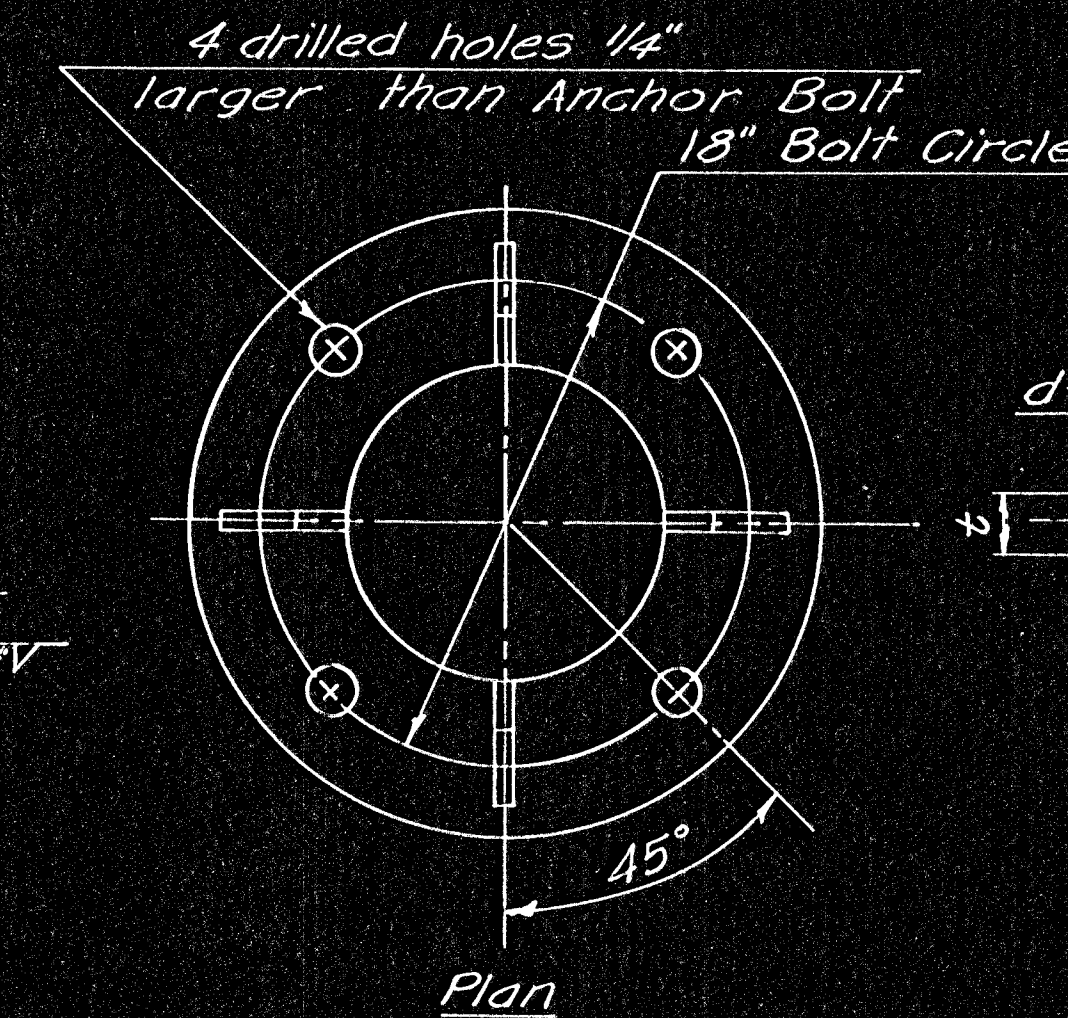
WELDING & FABRICATION: All welding and fabrication shall conform to A.A.S.H.T.O. Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1975 Edition and subsequent revisions. Only electrode filler metal 5556 shall be used. Before any fabrication is begun under the Contract, the Contractor or fabricator shall submit to the Engineer for approval, prints of complete shop drawings. These prints shall be submitted in triplicate for checking and seven shall be submitted for final approval and distribution unless more copies are requested. The Contractor shall be responsible for the correctness of his drawings, and shop fits and field connections, although the drawings may have been approved by the Engineer.



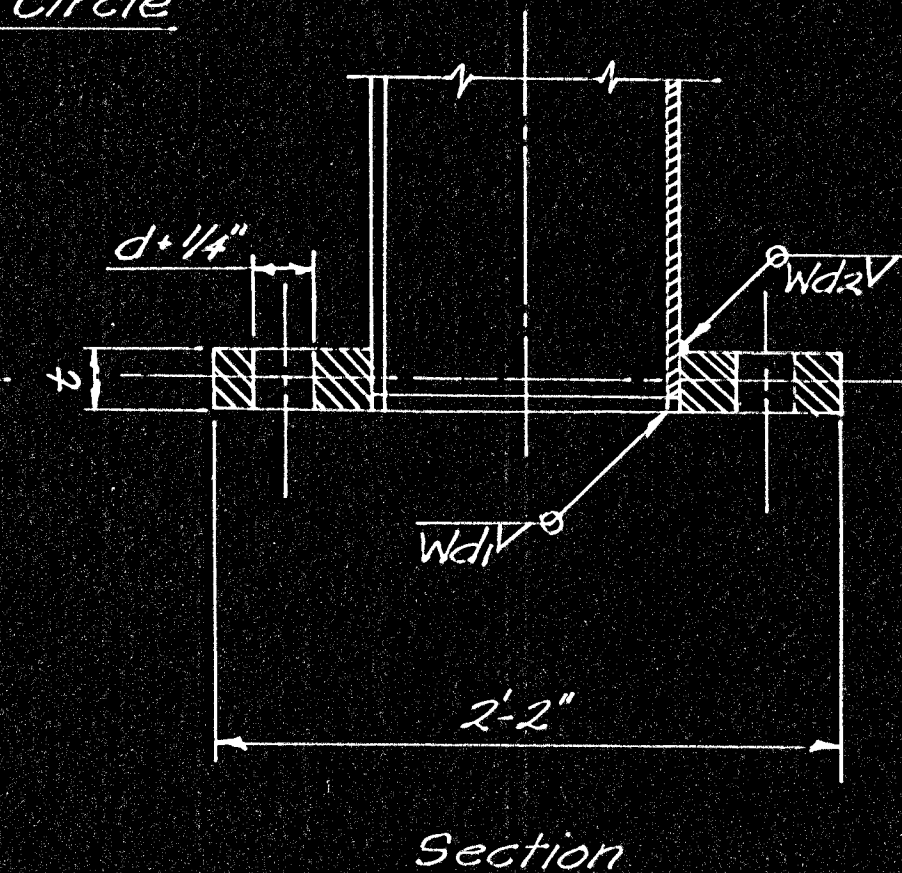
PLAN



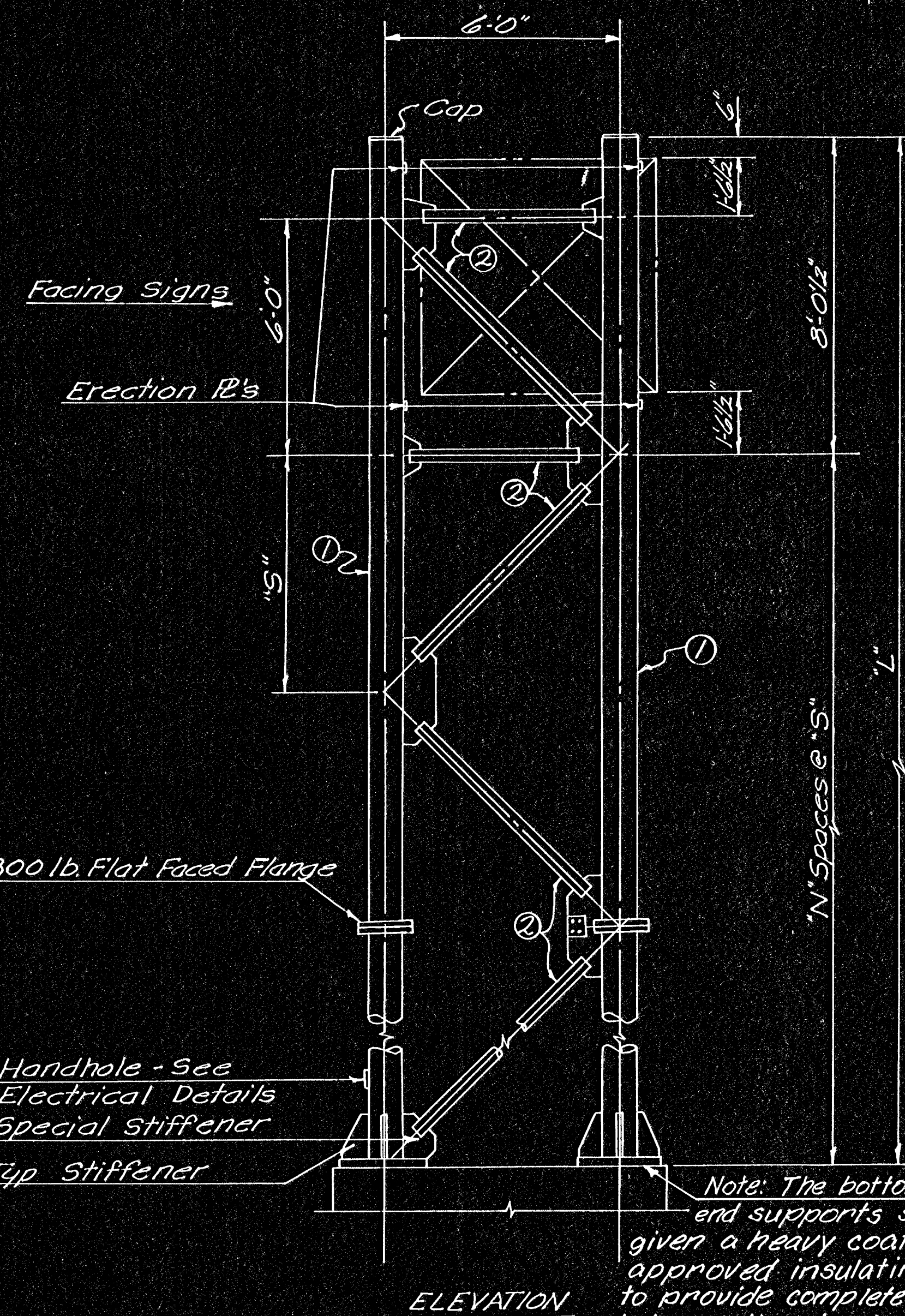
Elevation



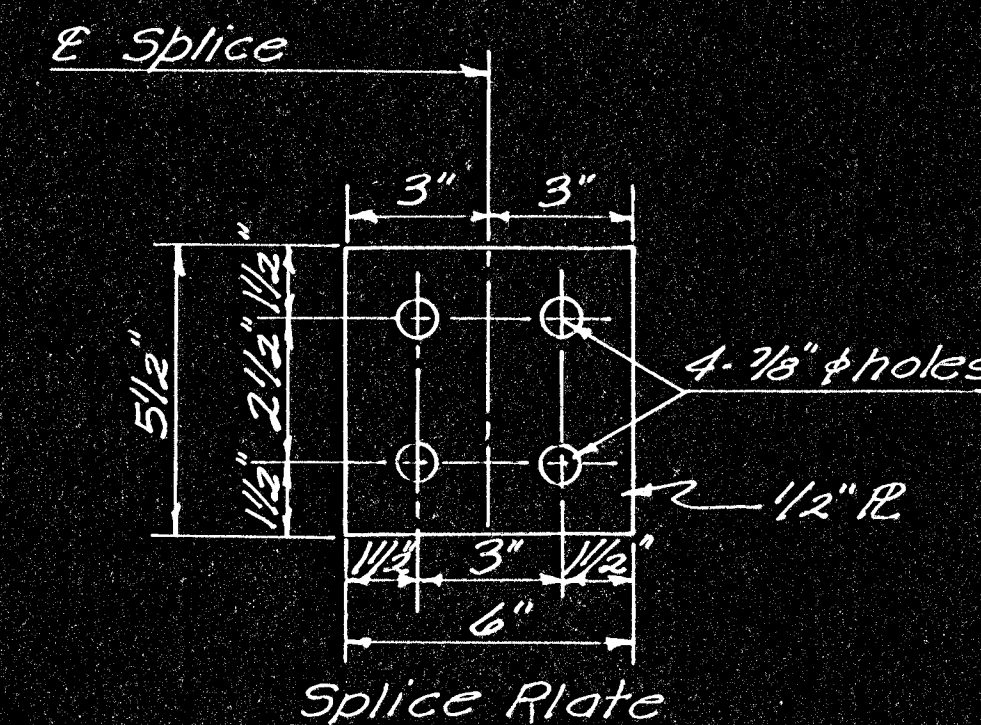
Plan



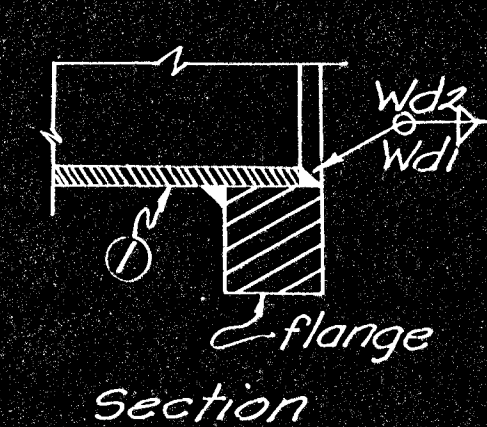
Section



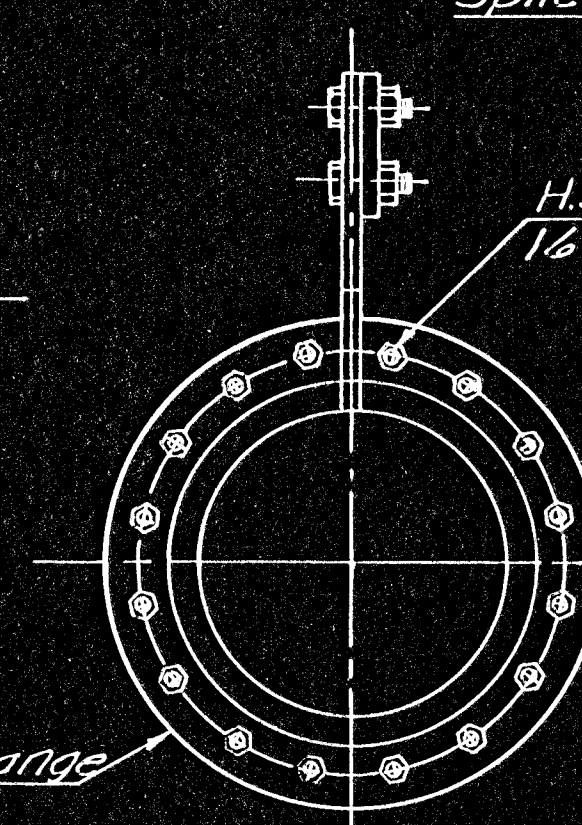
ELEVATION



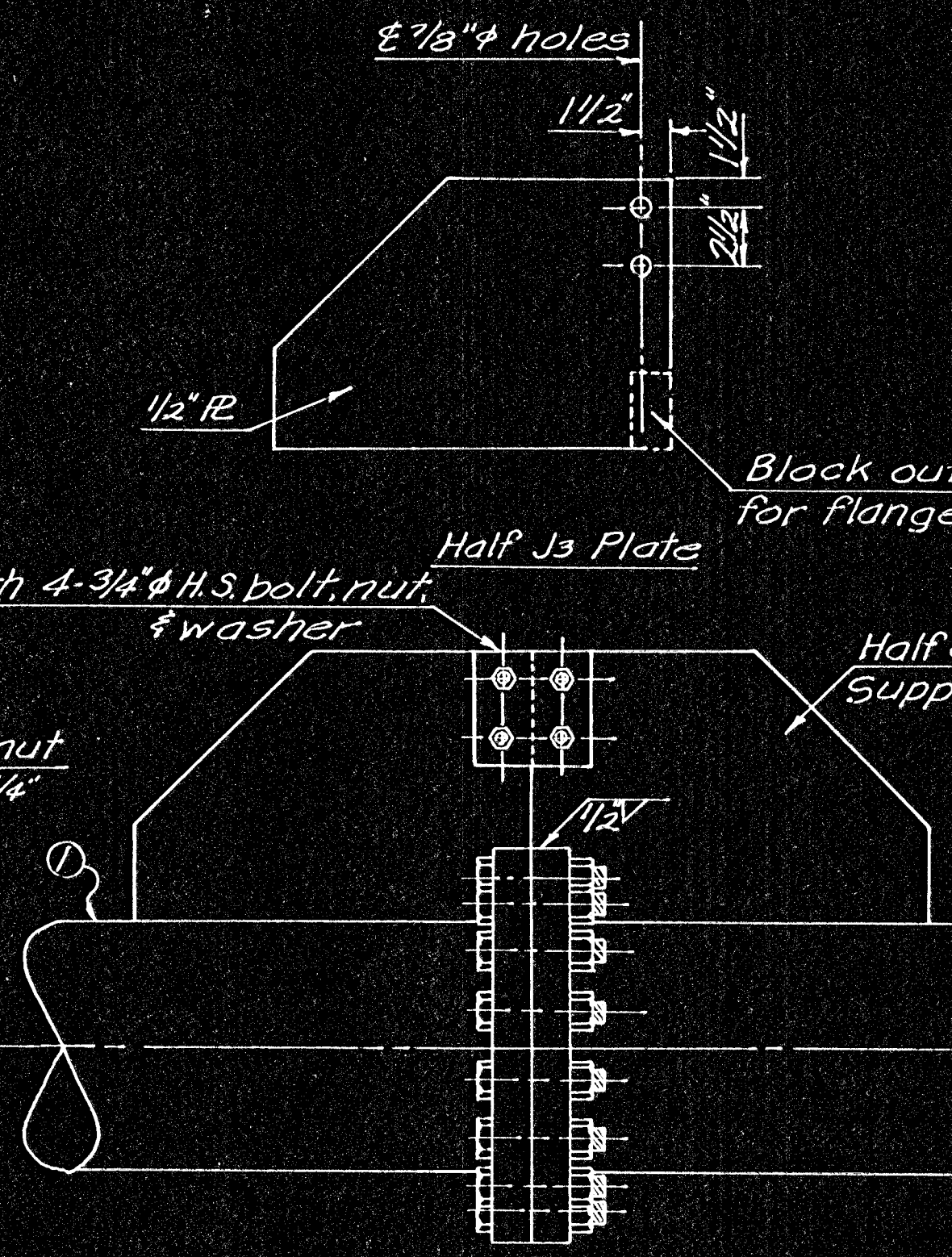
Splice Plate



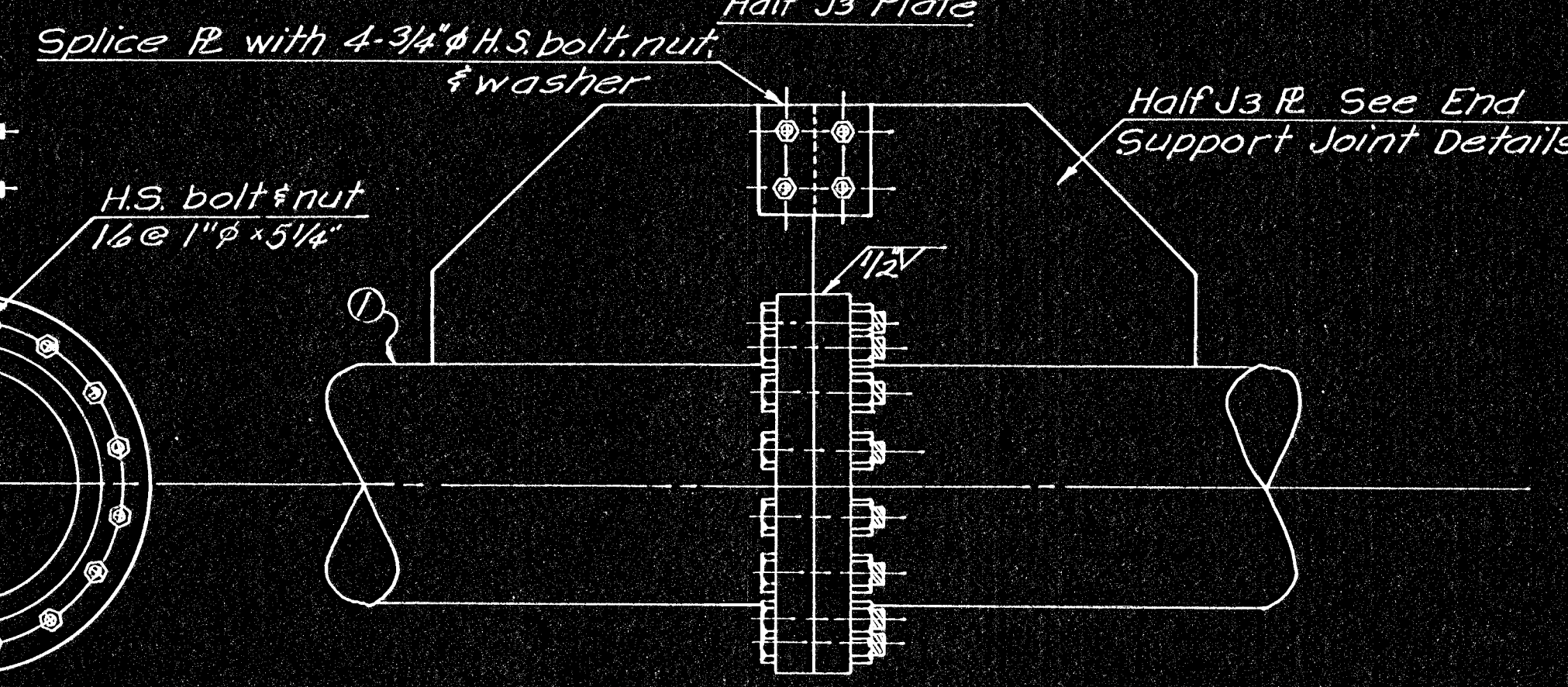
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End View



Side View



END SUPPORT SPLICE DETAILS (Optional)

Member	Fillet weld thickness	Anchor Bolt "d"	Base "t"
① wall	1/4"	1 1/2"	1 1/4"
0.165"	1/4"	1 1/2"	1 3/4"
0.307"	3/8"	1 1/2"	1 3/4"
0.365"	1/2"	1 1/2"	1 3/4"
0.500"	3/4"	2"	2"
0.593"	5/8"	2 1/4"	2 1/4"
0.718"	3/4"	2 1/4"	2 1/2"

Note: Wdr depth to be equal to pipe thickness, build out to obtain full throat.

Note: ② diagonal will always start from top of End Support as shown.

Note: All overhead sign structures shall be grounded by means of a #6 A.W.G. copperweld ground wire, connected to a 3/4" x 10'-0" ground rod, unless otherwise noted.

Note: The bottom of the end supports shall be given a heavy coating of an approved insulating material to provide complete insulation between the aluminum and concrete wall thickness, "N", "S" and "L".

Note: Member ① is 10.750" O.D. pipe
Member ② is 4.500" O.D. pipe
See Construction Layout for

NO.	DATE	REVISIONS	BY	APP'D
1				
2				
3				

DEPARTMENT OF TRANSPORTATION-KANSAS
STANDARD STRUCTURAL SIGN SUPPORTS
SPAN TYPE OVERHEAD
ALUMINUM END SUPPORT
FRAMING PLAN
AND SPLICE DETAILS

DESIGNED: BFM
CHECKED: RPH
DETAILS: RPH
QUANTITIES: RBA
TRACE: CK

11-76