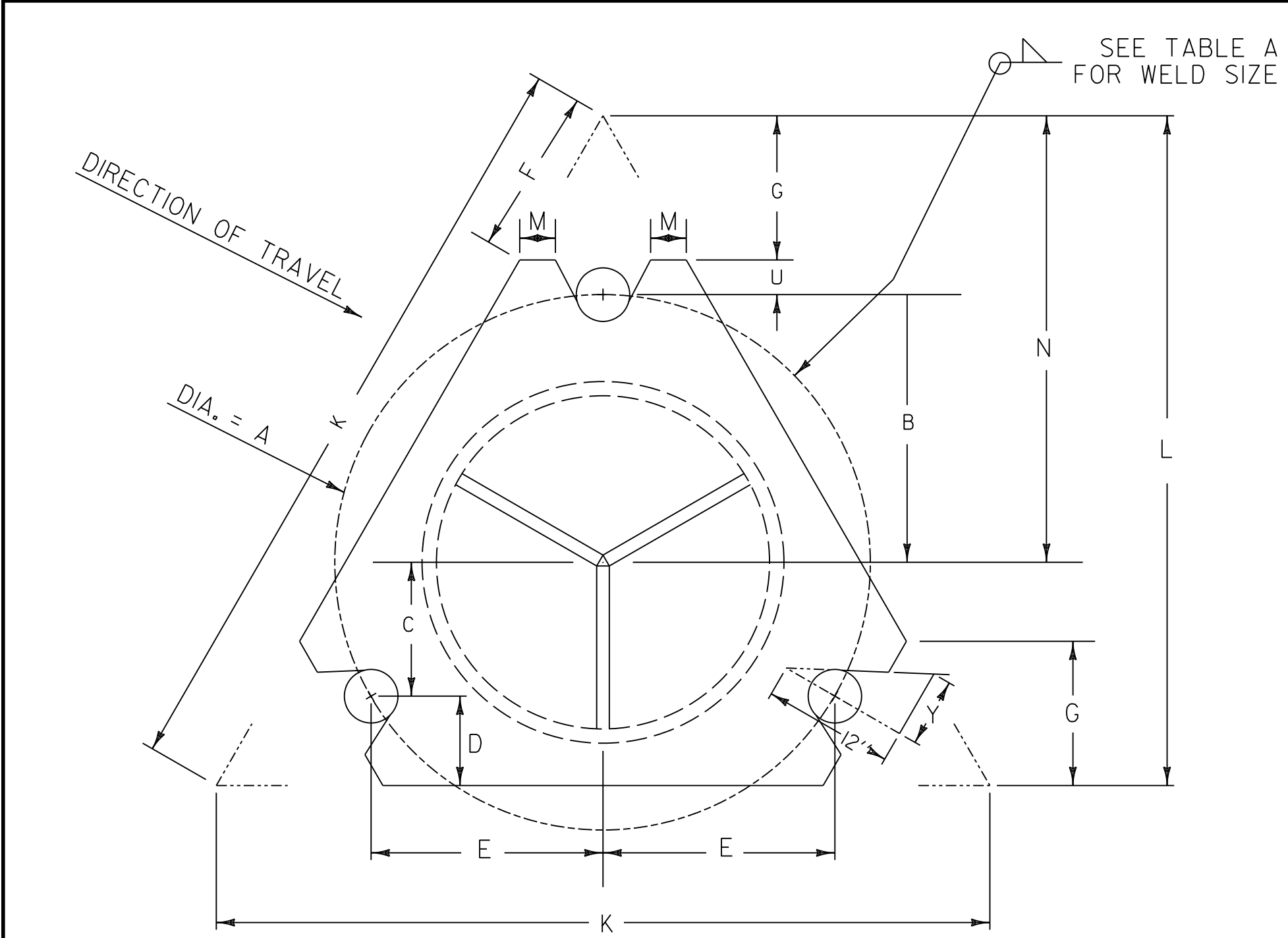
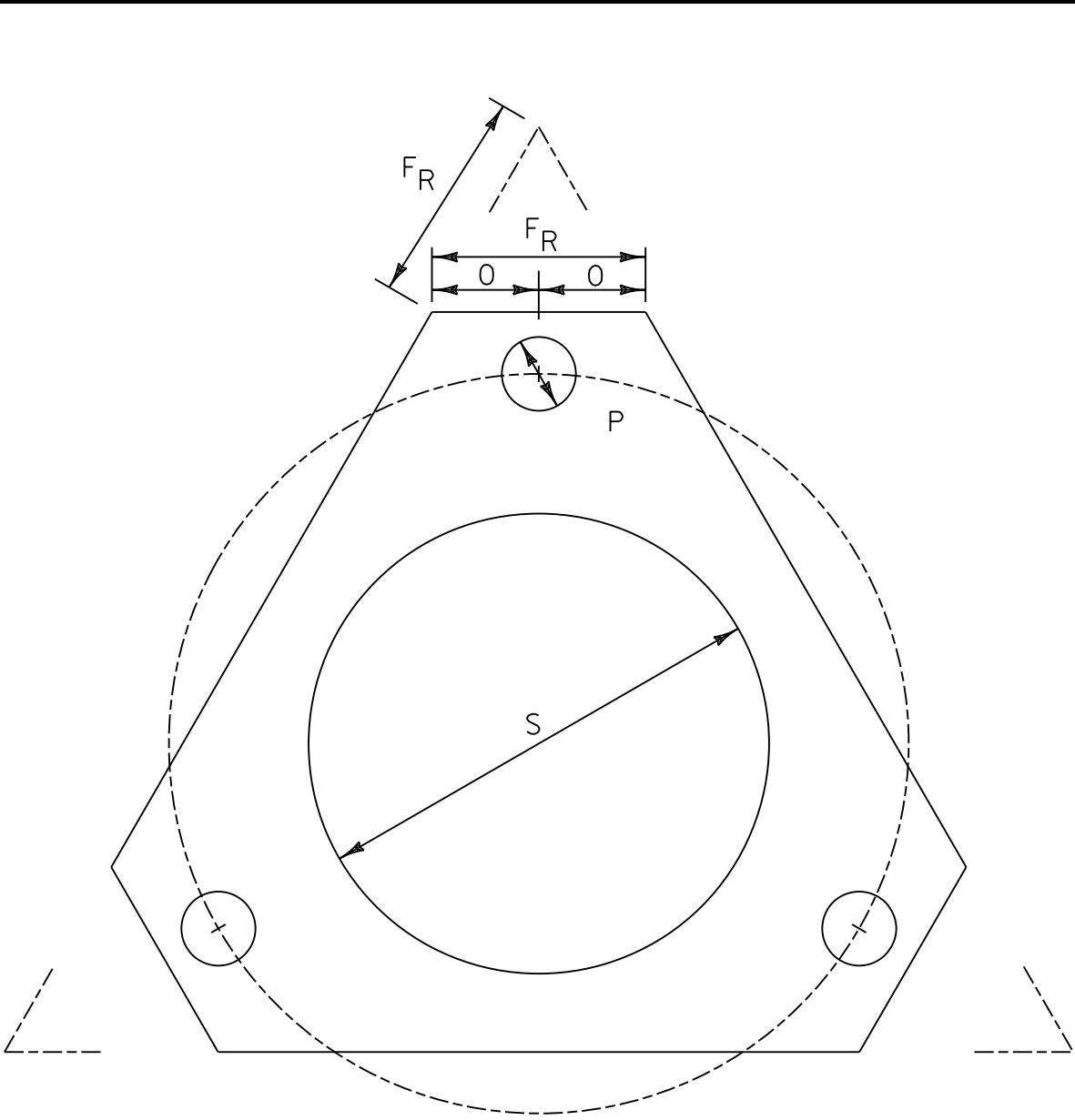




DETAILS OF MULTI-DIRECTIONAL SLIP BASE
(DETAIL DEPICTS A 5" SLIP BASE)

TABLE A

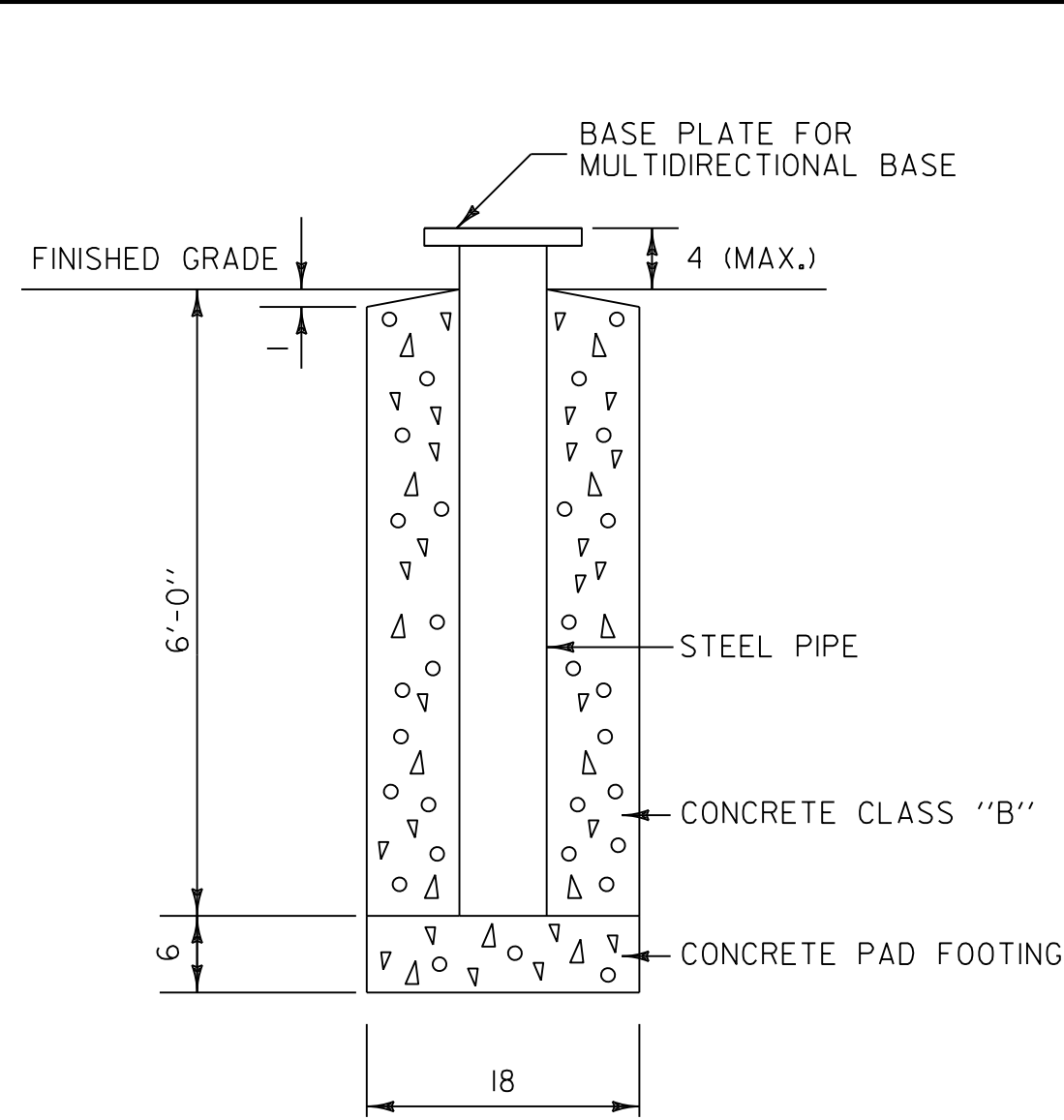
DIMENSIONS NOMINAL PIPE SIZES	BOLT SIZE & TORQUE	WELD SIZE	t	Y	A	B	C	D	E	F	G	K	L	M	U	N
3 DIA. 3 1/2 DIA.	5/8Øx3/4 T=450"LB.	3/8	5/8	7	7	3 1/2	1 3/4	1 1/4	3	2 5/16	2	10 3/8	9	1 1/2	1/2	6
4 DIA. 5 DIA.	3/4Øx3/4 T=750"LB.	7/16	7/8	8 7/16	9	4 1/2	2 1/4	1 1/2	3 7/8	2 7/8	2 1/2	13	11 1/4	5/8	1/2	7 1/2



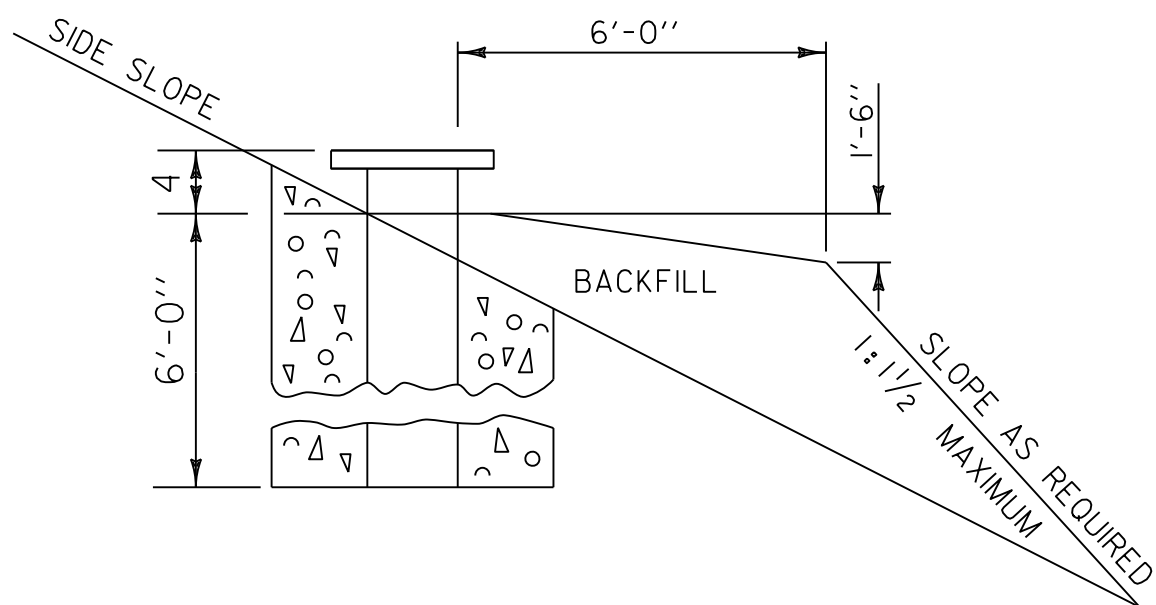
BOLT RETAINER PLATE SIMILAR IN DETAIL TO
THE BASE PLATES WITH THE FOLLOWING EXCEPTIONS

DIMENSIONS NOMINAL PIPE SIZES	FR	O	P	S
3 DIA. 3 1/2 DIA.	2 1/8	1 1/16	1 1/16	2 1/2
4 DIA. 5 DIA.	2 5/8	1 5/16	1 3/16	2 7/8

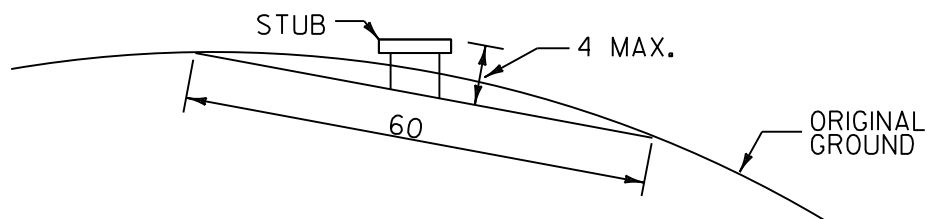
BOLT RETAINER PLATE



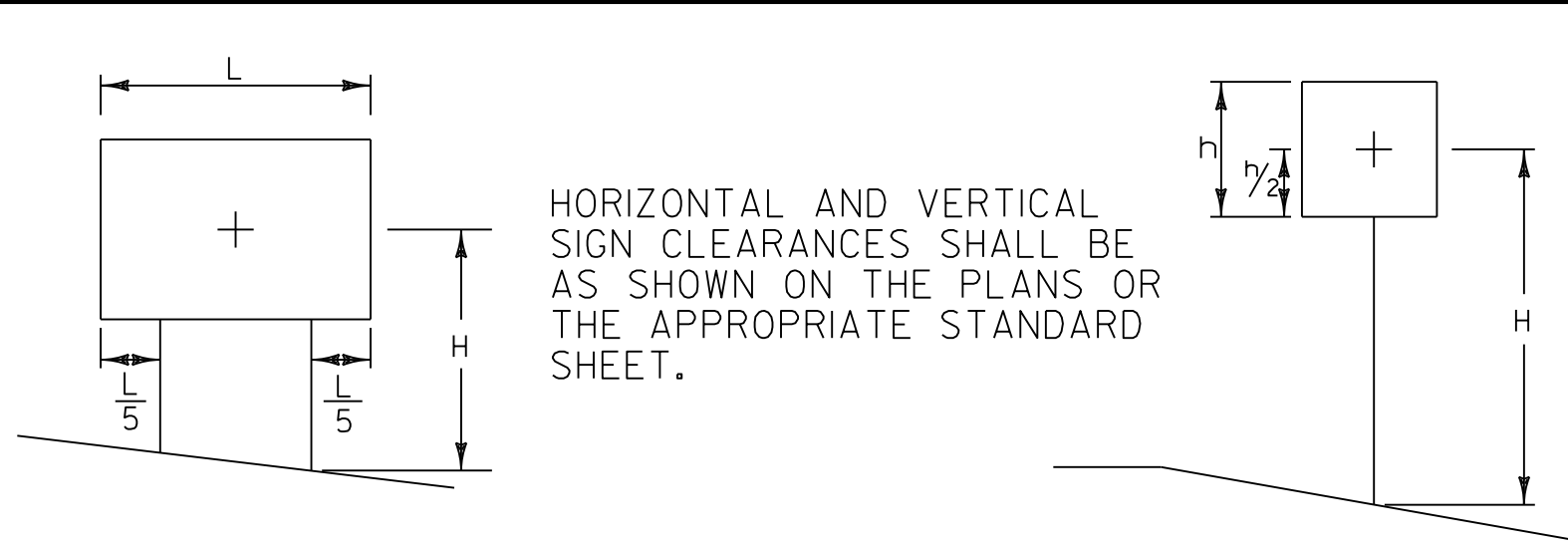
FOUNDATION DETAIL



SIDE SLOPE TREATMENT



SEE GENERAL NOTE # 4.



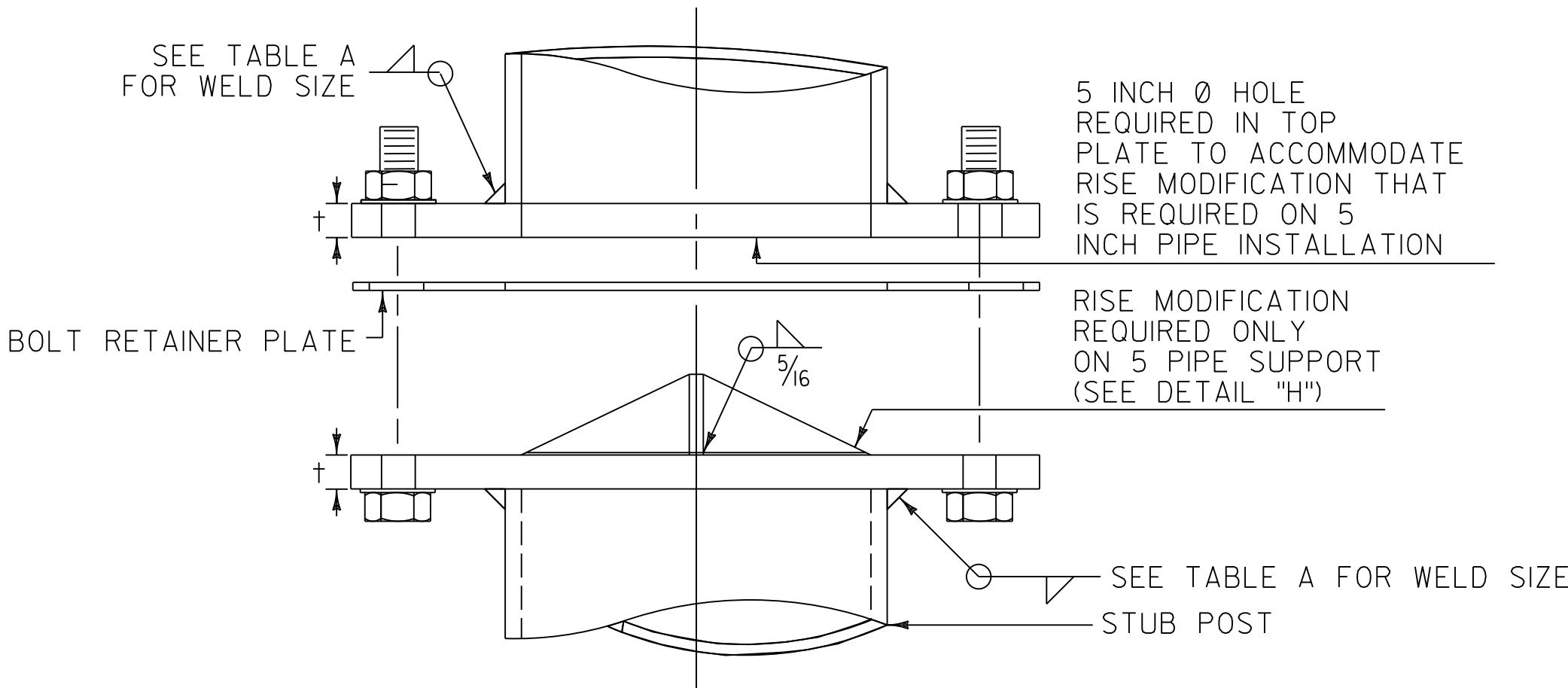
POST SELECTION CHART DETAIL

POST SELECTION CHART			
SIGN AREA (FT ²) × H (FT) ≤ SV (SELECTION VALUE)			
POST DIA. INCHS	WEIGHT LB/FT	SV	DESIGN CRITERIA
3	7.6	234	WIND SPEED = 70 MPH (10-YEAR MEAN RECURRENCE INTERVAL) WIND PRESSURE = 19 PSF STEEL MIN YIELD Fy = 36,000 PSI ALLOWABLE STRESS = (1.4) 0.66 Fy
3 1/2	9.1	325	
4	10.8	437	
5	14.6	742	

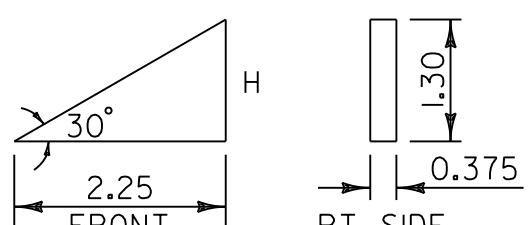
CONSTRUCTION METHOD

HOLES FOR POST FOOTINGS MAY BE AUGERED OR DUG, IF THE MATERIAL IS FIRM AND IF ALL DISTURBED SOIL AROUND THE CIRCUMFERENCE OF THE AUGERED HOLE IS REMOVED, THE HOLES MAY BE LEFT WITH EARTH SIDES. IF NOT, A SUITABLE FORM APPROVED BY THE ENGINEER SHALL BE USED. CORRUGATED METAL CULVERT PIPE OR PAPER FORMS, MANUFACTURED FOR USE AS CONCRETE COLUMN FORMS, WILL BE ACCEPTABLE. THE STUB SHALL BE EXTENDED TO THE BOTTOM OF THE HOLE AND SET ON THE CONCRETE PAD FOOTING TO SUPPORT THE POST SO THE POST SHALL BE HELD SECURELY IN PLACE AT THE BOTTOM. THIS MAY BE DONE BY EMBEDDING THE POST AND CONCRETE BLOCK FOOTING IN WET CONCRETE, AND ALLOWING TO SET WITH THE POST SECURED IN POSITION; PLUMBED AND PROPERLY BRACED. THE REMAINDER OF THE FOOTING MAY THEN BE POURED. THE TIME BETWEEN POURS FOR THE CURING OF THE CONCRETE SHALL BE AS DETERMINED BY THE ENGINEER. THE FORM SHALL BE LEFT IN PLACE AND THE HOLE BACKFILLED AND COMPACTED AS DIRECTED BY THE ENGINEER. NO PART OF THE FORM SHALL SHOW ABOVE THE GROUND LINE WHEN THE WORK IS COMPLETED.

DETAIL ASSEMBLY OF
MULTI-DIRECTIONAL SLIP BASE
(DETAIL DEPICTS 5" SLIP BASE)

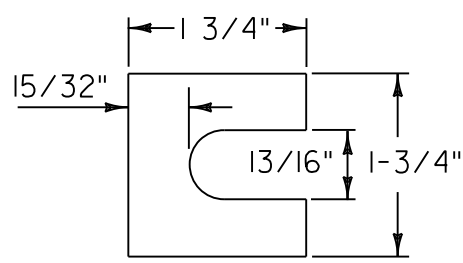


DETAIL "H"



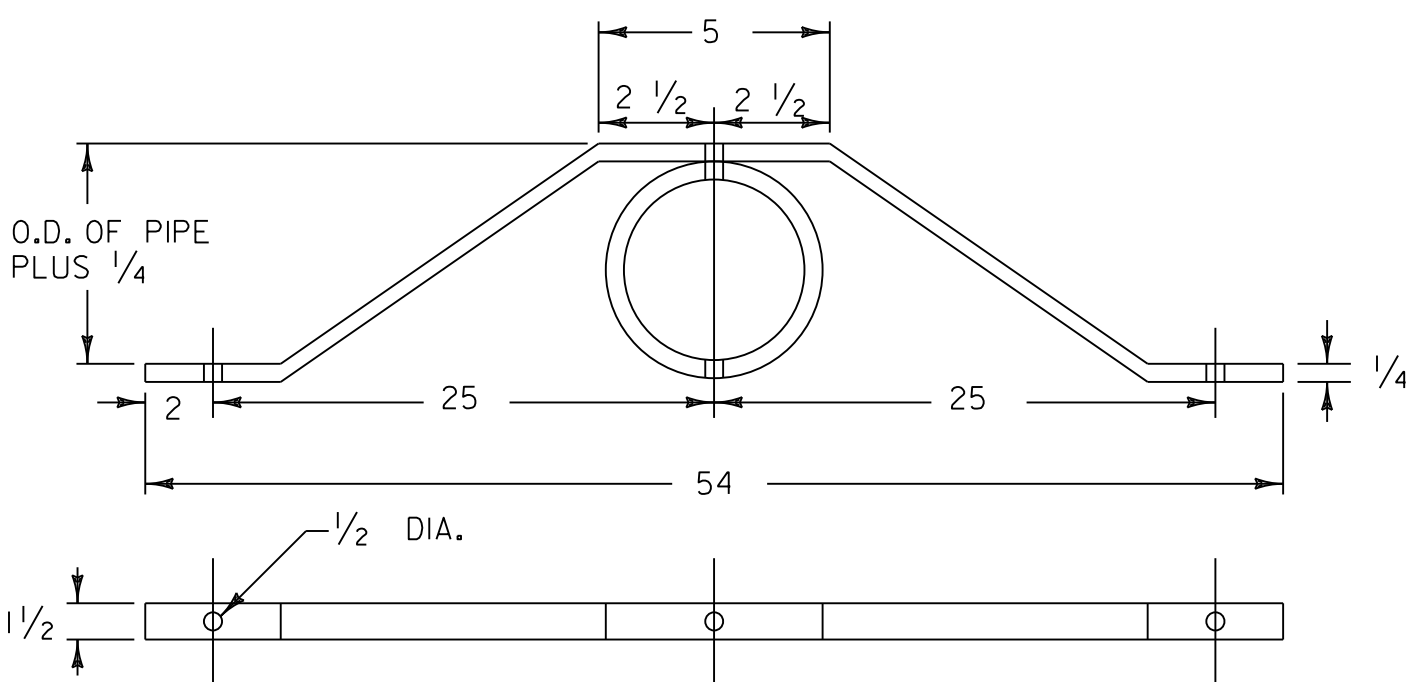
DETAIL "H"

3 REQUIRED
MOUNTED 120° APART
RISE MODIFICATION REQUIRED
ONLY FOR 5 INCH PIPE SUPPORT



SHIM DETAIL

FURNISH TWO .012" +/- THICK AND TWO .032" +/- THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B-36.



SIGN SUPPORT BRACE

(REQUIRED WHEN INSTALLING 3 ASSEMBLY FRAME)

GENERAL NOTES:

1. THE MATERIAL FOR THE MULTI-DIRECTIONAL SLIP BASE ASSEMBLY SHALL CONFORM TO AASHTO M270, GRADE 36 STEEL, AND BE GALVANIZED AS PER AASHTO M118/M III.
2. THE BOLTS, NUTS AND CIRCULAR WASHERS SHALL CONFORM TO ASTM A325, "HIGH STRENGTH CARBON STEEL BOLTS FOR STRUCTURAL STEEL JOINTS". ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED AS PER ASTM M232 M/M 232.
3. ALL DIMENSIONS REFERRING TO STUB HEIGHT IN THE VARIOUS TABLES AND FOUNDATION DETAILS SHALL BE ADJUSTED AS REQUIRED TO RESULT IN A TOTAL STUB HEIGHT WHICH IS NOT MORE THAN FOUR INCHES ABOVE A 60 INCH CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT, WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.
4. ALL DIMENSIONS SHOWN IN INCHES EXCEPT WHERE NOTED.

REV.	DATE	DESCRIPTION
0	JUN. 24, 2025	ORIGINAL APPROVAL
OTHER STANDARDS REQUIRED: NONE		
APPROVALS ON FILE WITH VTRANS STANDARD DRAWING COMMITTEE		

TUBULAR STEEL SIGN POST



STANDARD
T-163