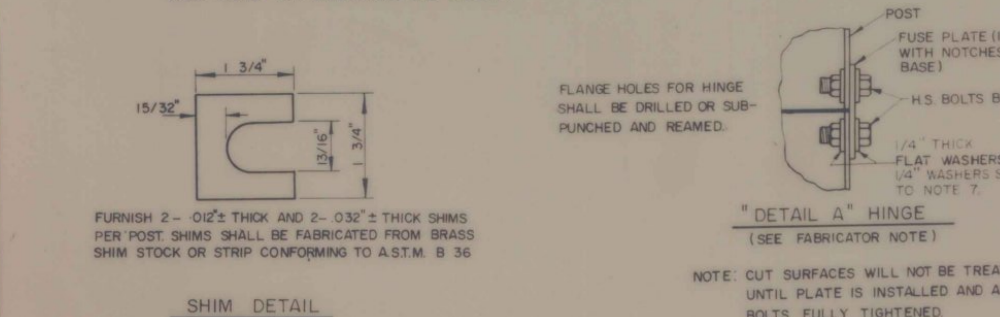


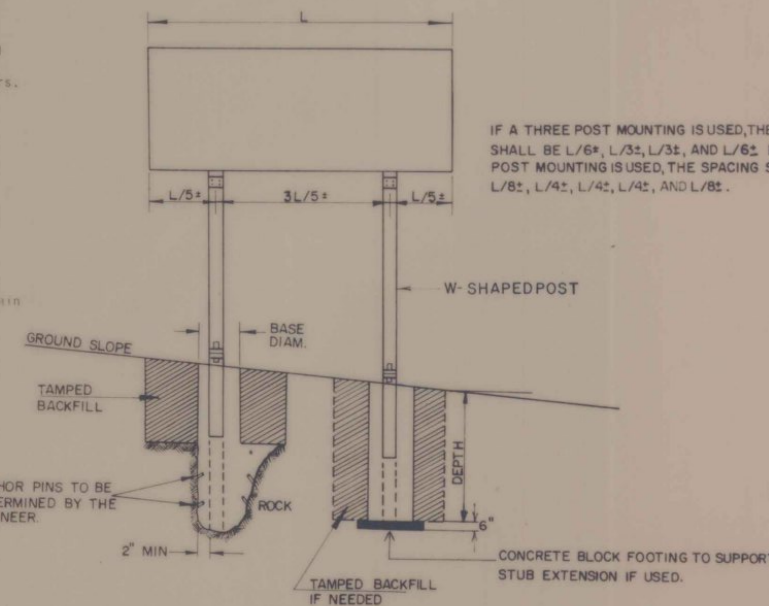
FOUNDATION FOR W-SHAPED POSTS

FABRICATION NOTE
(Important)

BOLT SIZE	MIN. RESIDUAL BOLT TENSION
1/2" Ø	12050 LBS
5/8" Ø	19200 LBS
3/4" Ø	28400 LBS
7/8" Ø	36050 LBS

CONSTRUCTION METHOD

HOLES FOR POST FOOTINGS MAY BE AUGERED OR DUG. IF THE MATERIAL IS FIRM, OR 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. IF THE STUD IS EXTENDED TO THE BOTTOM OF THE HOLE, A CONCRETE BLOCK FOOTING SHALL BE UTILIZED TO SUPPORT THE POST AND 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 REMAINING FOOTING MAY 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 PROPERLY BACKFILLED. NO PART OF THE FORM SHALL SHOW ABOVE THE GROUND LINE WHEN THE WORK IS COMPLETED.



IF A THREE POST MOUNTING IS USED, THE SPACING SHALL BE $L/6^*$, $L/3^*$, $L/3^*$, AND $L/6^*$. IF A FOUR POST MOUNTING IS USED, THE SPACING SHALL BE $L/8^*$, $L/4^*$, $L/4^*$, $L/4^*$, AND $L/8^*$.

GENERAL NOTES

1. DESIGN CONFORMS WITH DASHTO. SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGN.
2. MATERIAL AND FABRICATION SHALL CONFORM TO THE REQUIREMENTS OF STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SHEETS AND SPECIFICATIONS.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A 36
4. ALL STRUCTURAL STEEL, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER A.S.T.M. A-153 EXCEPT AS NOTED.
5. ALL HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER A.S.T.M. A-123 HOLES SHALL BE DRILLED.
THE POST CUT SHALL BE A SAW CUT ONLY. ALL OTHER CUTS EXCLUDING POST CUTS MAY BE FLAME CUT PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLATE FACE WILL NOT BE PERMITTED.
6. ALL HIGH STRENGTH BOLTS AND NUTS SHALL CONFORM TO A.S.T.M. A-325.
7. ALL 1/4" FLAT WASHERS SHALL CONFORM TO THE HARDNESS REQUIREMENTS FOR A.S.T.M. A-325 WASHERS.
8. PAINT FOR SAW CUT SHALL BE A SINGLE COMPONENT ZINC-RICH COMPOUND YIELDING A CHIEF FILM OF AT LEAST 85% PURE ZINC. IT SHALL MEET OR EXCEED THE REQUIREMENT OF MIL-P-21035.
9. ALL SIGNS MOUNTED ON STEEL POSTS SHALL BE ERECTED A MINIMUM OF 7' ABOVE EDGE OF PAVEMENT TO BOTTOM OF SIGN AND THE INSIDE EDGE OF THE SIGN POSITIONED A MINIMUM OF 30" FROM EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED ON THE PLANS.
10. EXTREME CARE SHOULD BE TAKEN TO KEEP THE SLIP JOINT FREE OF ANY FOREIGN MATERIAL, EITHER BY WRAPPING THE JOINT OR THOROUGH CLEANING IMMEDIATELY AFTER POURING OF CONCRETE.
11. IF BASE DEPTH CANNOT BE OBTAINED OR WET AND/OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, THE RESIDENT SHOULD CONTACT THE TRAFFIC DESIGN SECTION, AGENCY OF TRANSPORTATION.

REVISIONS AND CORRECTIONS

DEC. 12, 1975 REVISED TO CONFORM WITH SPECIFICATION

DEC. 15, 1978 REVISED TO CHANGE FOOTING SIZES, AND 14" WASHERS.

MAY 29, 1979 MISCELLANEOUS REVISIONS TO TABLES, NOTES AND DETAILS
INCLUDING NEW POST SIZE DESIGNATIONS.

FEB. 3, 1986 - UPDATED TO 1985
SPECIFICATIONS

APPROVED DATE Dec. 21, 1971

R. H. Arnold
CHIEF ENGINEER

E. H. Stickney
ASST. CHIEF ENGINEER

W-SHAPED STEEL SIGN SUPPORTS & FOUNDATIONS



STANDARD

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