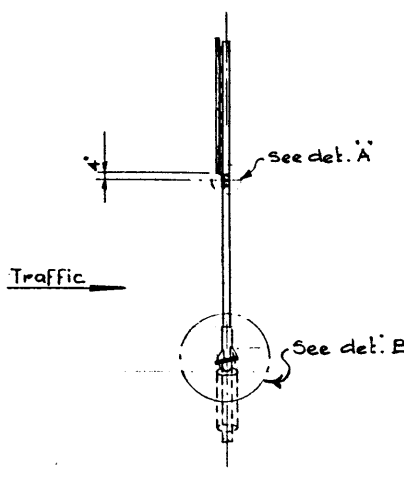
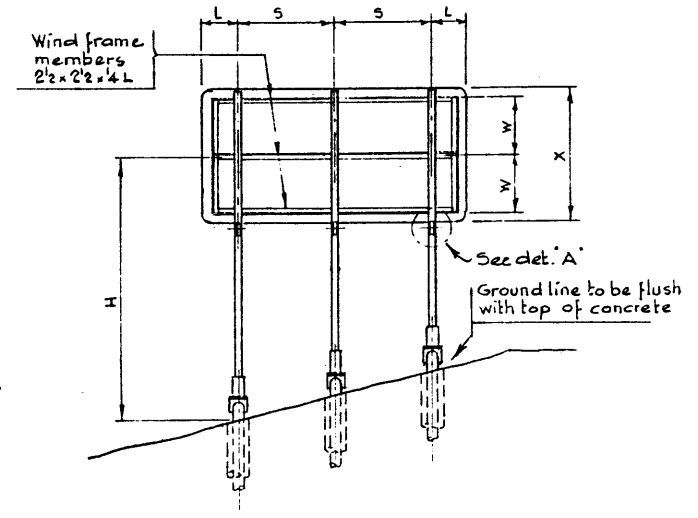


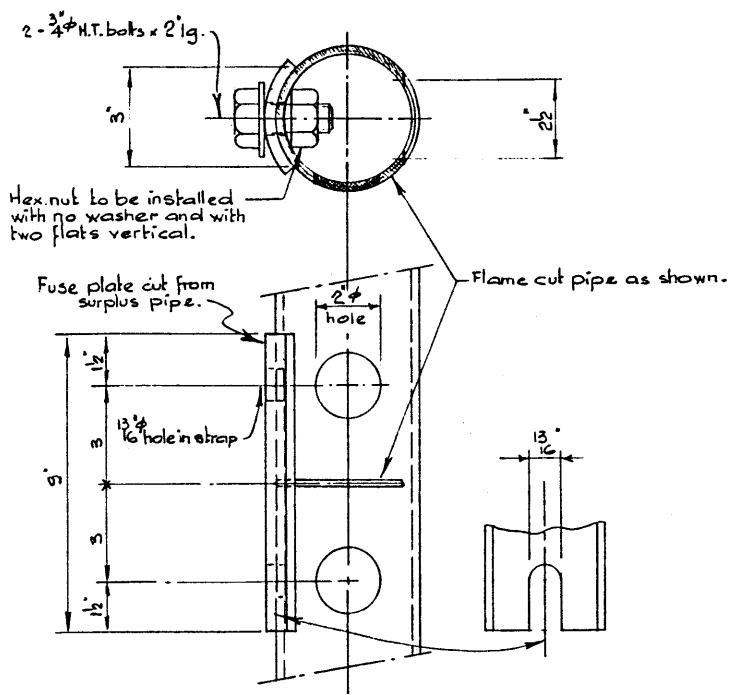
DATE MAY 19 68
 DATE MAY 19 68
 CHECKED BY UJFH
 DETAILED BY P. Szol's



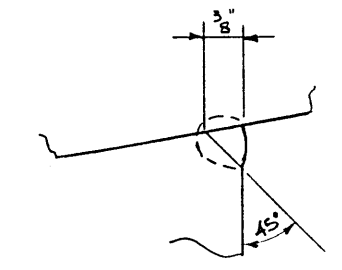
SIDE VIEW



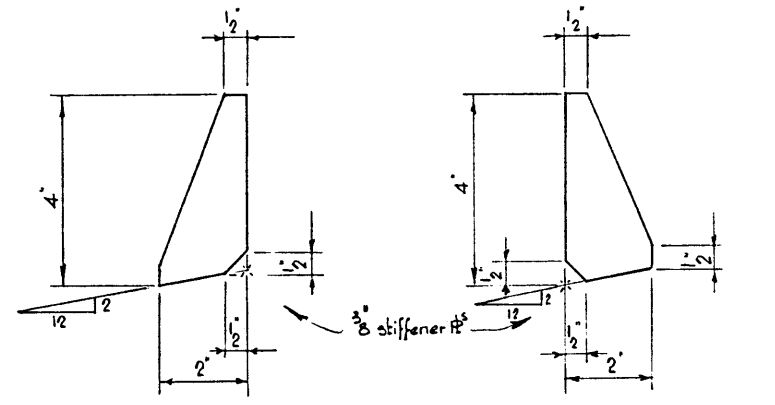
ELEVATION
N.T.S.



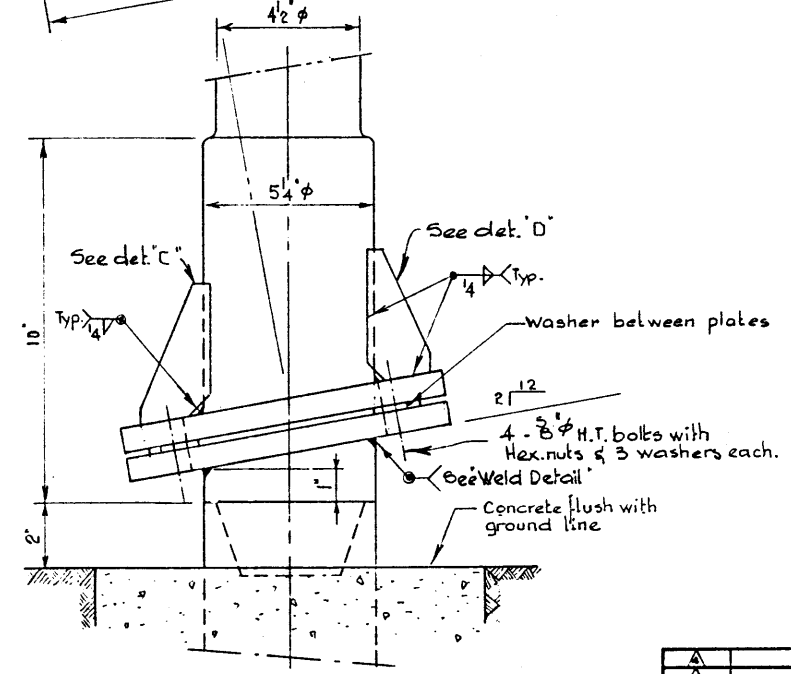
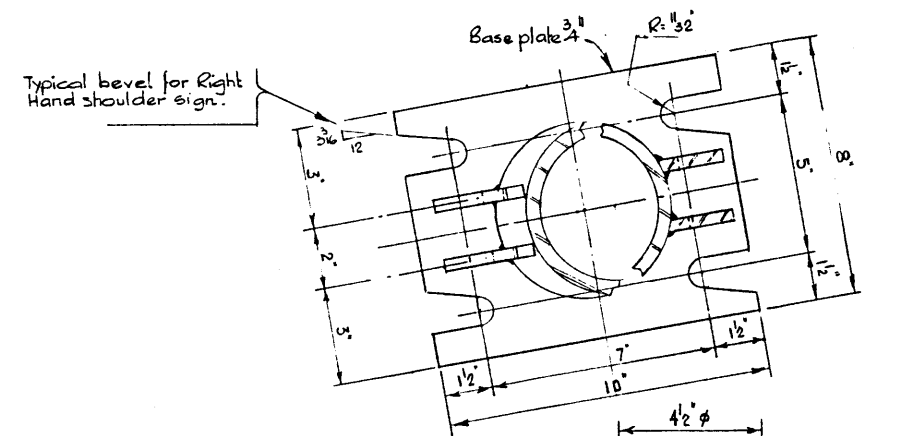
DETAIL 'A'



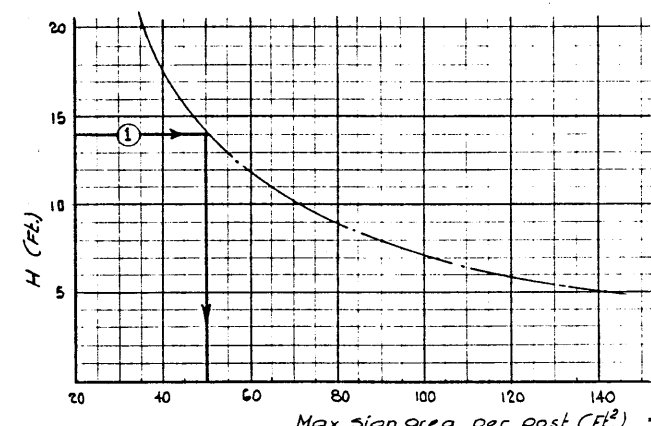
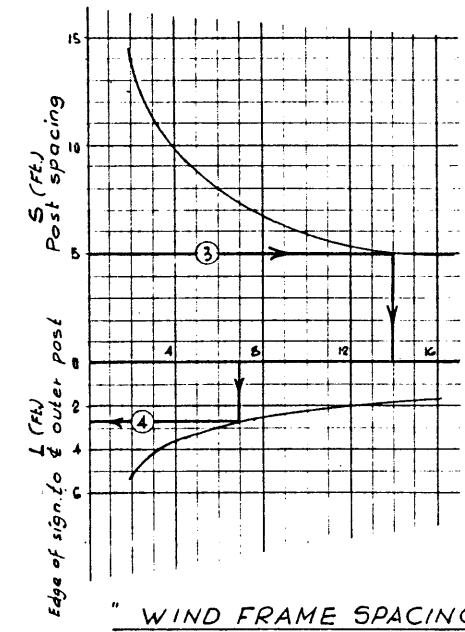
WELD DETAIL
N.T.S.



DETAIL 'C' DETAIL 'D'
Scale: 1/2" = 1"



DETAIL 'B'
Scale above: 3/8" = 1"



Max. sign area per post (Ft²) = $X(L + \frac{S}{2})$ exterior post.
 = $X(S)$ interior post.

DESIGN EXAMPLE

- Given a sign 17x8 with an area = 136 Ft² presently supported by 5 posts spaced at 2'-6" H = 14'-0" and W = 7'-0".
- Step 1 - Enter post Selection Chart with H = 14'-0" the intersection of the curve shows that ea. post will support 50%?
 - Step 2 - No posts req'd = $\frac{\text{sign area}}{\text{area per post}} = 2.71$, or 3 posts req'd. In this case 2 posts may be removed. This results in a post spacing "S" = 5'-0". Check area per post using area equations
 $\text{area} = X(L + \frac{S}{2})$ and $\text{area} = X(S)$.
 - Step 3 - Check Wind frame members. Enter Wind frame Spacing chart with S = 5'-0". Max allowable W = 14'-0". Since this is larger than 7'-0" existing spacing is adequate.
 - Step 4 - Check edge support. Enter chart with W = 7'-0". Max allowable L = 21'-9". If "L" is larger than 2'-9" additional wind frame members will be req'd. In this example "L" is 3'-6" and additional wind frame members will be required.

GENERAL NOTES

- Steel plate shall be ASTM A 36 steel.
- Bolts, nuts and washers shall conform to ASTM Specification A 325.
- Base plates shall be painted one coat of red lead, iron oxide oil alkyl type paint, conforming to Specification No. 1-GP-140 b of the Canadian Government Specification Board on all surfaces except for field weld areas. Only surfaces not in contact with steel shall be painted on the fuse plate. Dry thickness shall be 1.5 to 2.5 mils.
- Bolts shall be tightened to obtain the following residual tension in each bolt: 3/8" 19,200 lbs., 1/2" 28,400 lbs.
- Torque required for the above residual bolt tensions are as follows: 3/8" 200 lb.ft., 1/2" 356 lb.ft.
- Design Load National Building Code wind gust speed = 80 m.p.h.

APPROVED: *[Signature]*
 CIVIL ENGINEER

BREAKAWAY BASE FOR EXISTING GROUND MOUNT SIGNS [DRILL STEM PIPE POSTS]

GOVERNMENT OF THE PROVINCE OF ALBERTA
 DEPARTMENT OF HIGHWAYS
 BRIDGE BRANCH, EDMONTON

FILE NO. 3116 HWY. NO. DWG. NO.
 LOCATION SCALE as shown SHEET 5-969
 STREAM SHEET OF SHEET

NO.	DATE	DESCRIPTION	BY