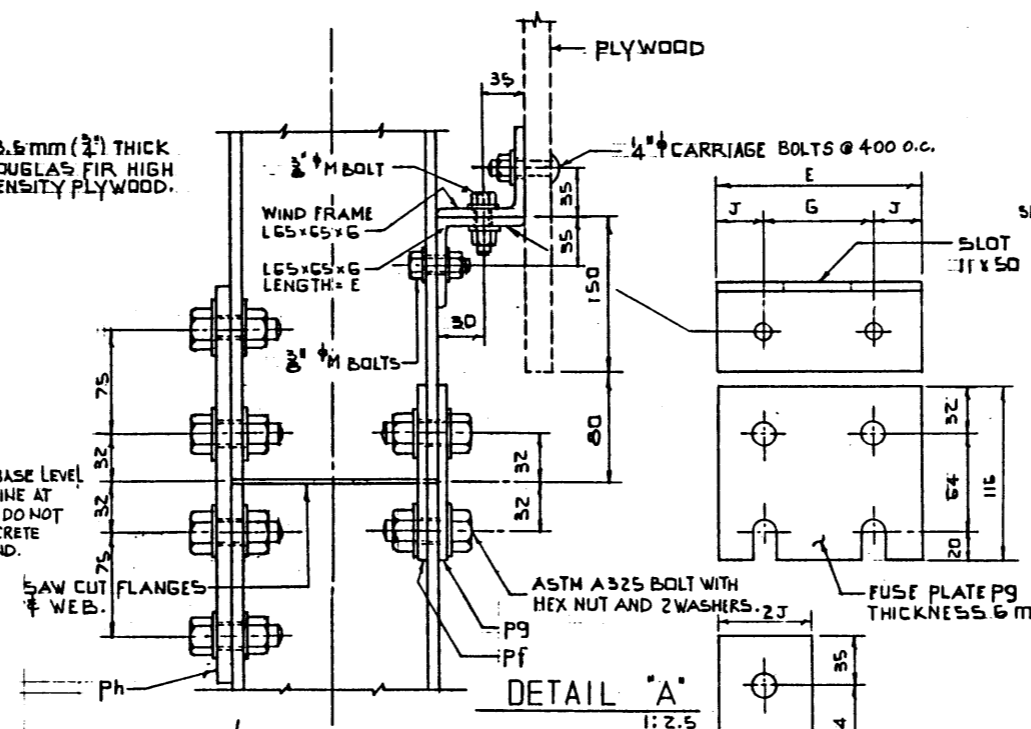
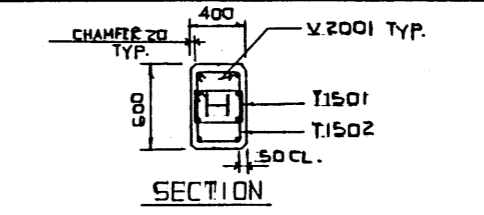


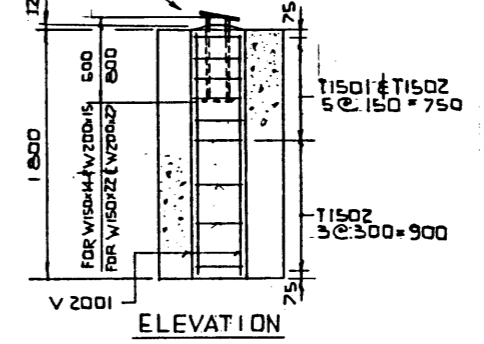
SIDE VIEW ELEVATION



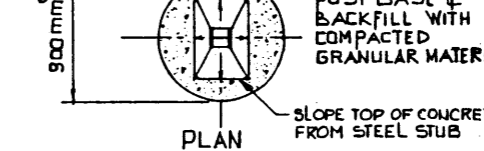
DETAIL 'A' 1:2.5



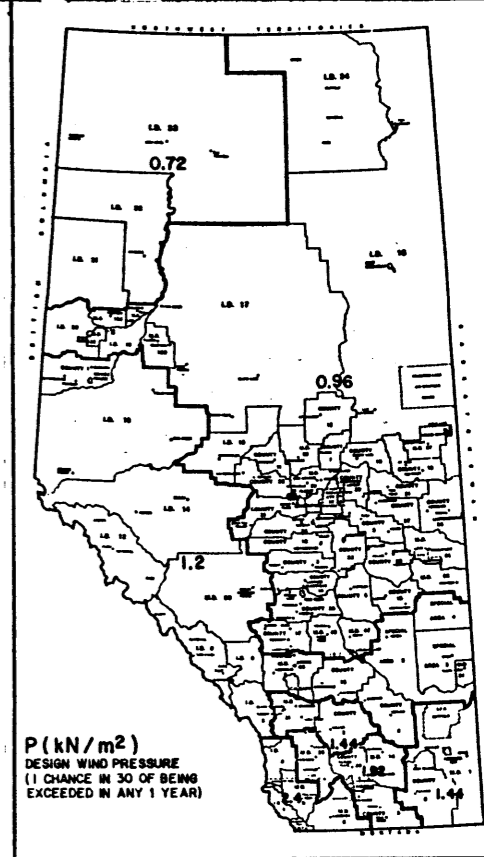
SECTION



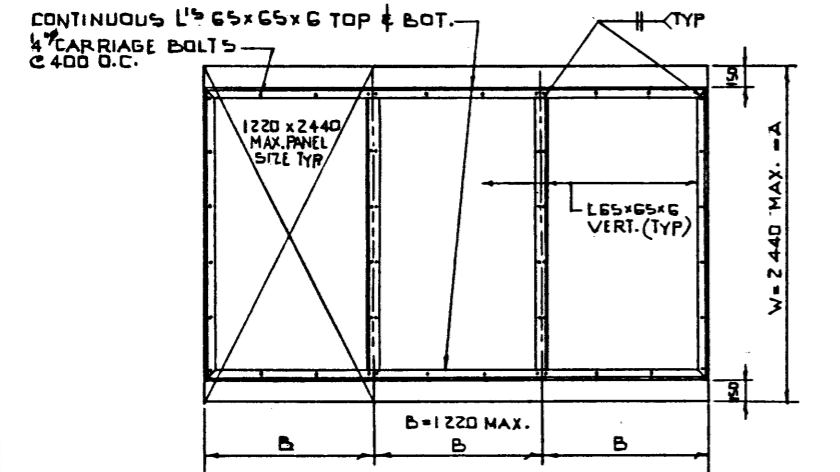
ELEVATION



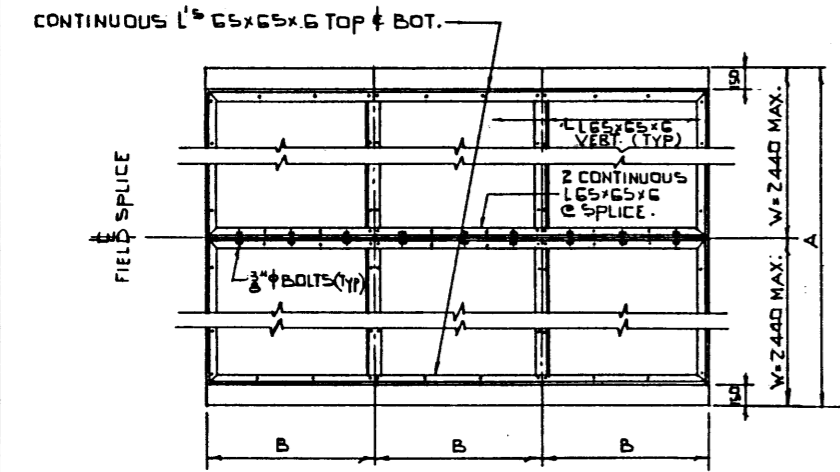
FOUNDATION 1:2.5



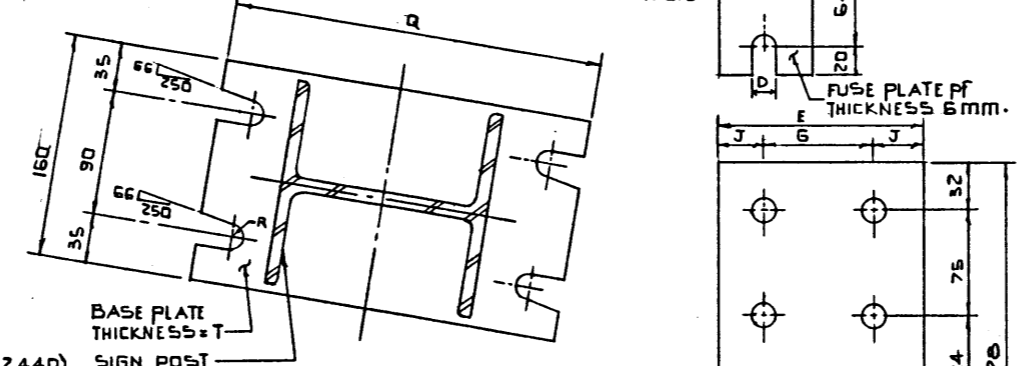
P (kN/m²) DESIGN WIND PRESSURE (1 CHANCE IN 30 OF BEING EXCEEDED IN ANY 1 YEAR)



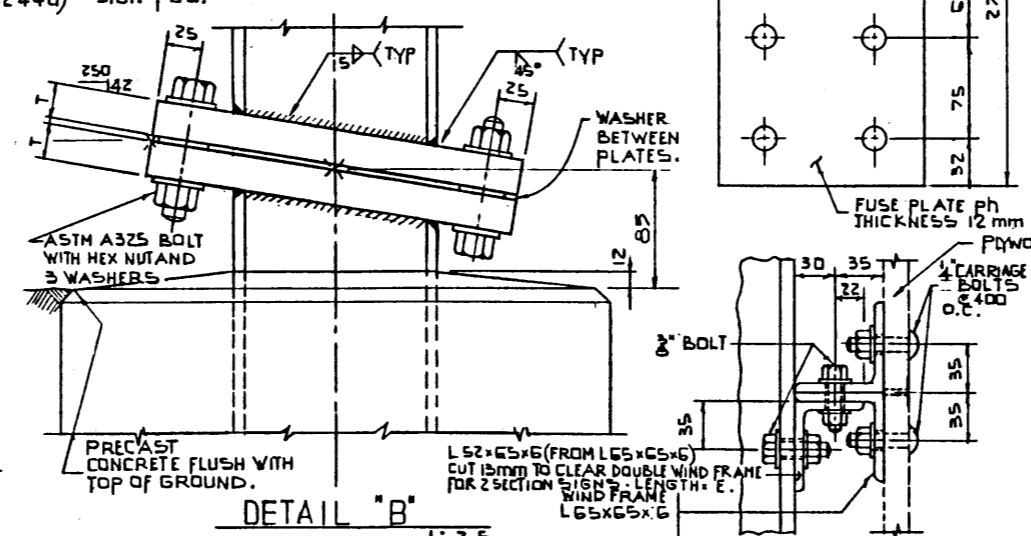
SINGLE SECTION SIGN PANEL (MAX. HEIGHT=2440)



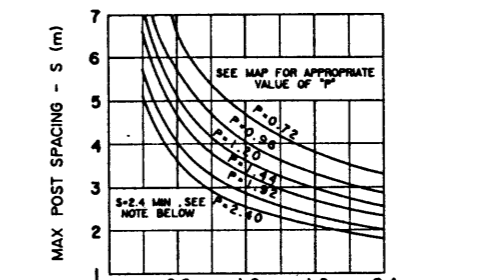
DOUBLE SECTION SIGN PANEL (MAX. HEIGHT=4880)



DETAIL 'B' 1:2.5

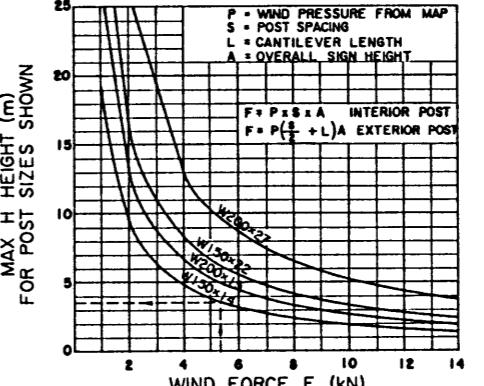


DETAIL 'C' 1:2.5



POST SPACING CHART

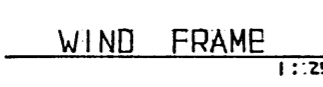
NOTE: MAX S GOVERNED BY STRENGTH OF FRAMING ANGLES MIN S TO BE 2.4 m WHEREVER POSSIBLE



POST SELECTION CHART

GENERAL NOTES:

- ALL DIMENSIONS SHOWN ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE NOTED ON THE DRAWING.
- ALL STEEL SHAPES AND PLATES ARE DESIGNATED IN METRIC SIZES.
- ALL BOLTS ARE DESIGNATED IN IMPERIAL SIZES.
- DESIGN WIND PRESSURE - ALBERTA BUILDING CODE 1985.
- MATERIALS
- STEEL POSTS SHALL CONFORM TO ASTM A36 OR CSA G40.21H-300M.
- ALL ANGLES AND PLATES SHALL CONFORM TO CSA G40.21H-300M.
- ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. BOLTS 1/2" DIA. AND LARGER SHALL CONFORM TO ASTM A325.
- CONCRETE FOR PRECAST POST BASES SHALL MEET THE FOLLOWING REQUIREMENTS:
 - MIN. STRENGTH AT 28 DAYS 25 MPa
 - SIZE OF COARSE AGGREGATE 28 mm - 5 mm
 - RANGE OF SLUMP 50 mm - 70 mm
 - ENTRAINED AIR CONTENT 5.5% ± 1%
- STEEL REINFORCING - G30.12H G4000.
- FABRICATION
- FABRICATION SHALL BE IN ACCORDANCE WITH THE CURRENT BRIDGE BRANCH SPECIFICATION FOR THE SUPPLY OF STRUCTURAL STEEL FOR BRIDGES B-187H.
- ALL WELDING SHALL CONFORM TO CURRENT A.W.S. SPECIFICATION D.1.1 INCLUDING INTERIMS.
- ALL STEEL SHALL BE BLAST CLEANED (SEE SECTION 5.1 OF CURRENT SPECIFICATION B-187H) AND THEN HOT DIP GALVANIZED TO THE REQUIREMENTS OF ASTM A123 OR A153 AFTER FABRICATION.
- ALL BOLT HOLES SHALL BE DRILLED 1/16" LARGER THAN THE SPECIFIED BOLT DIAMETER.
- ERECTION
- ALL BOLTS SHALL BE TIGHTENED BY ONE OF THE FOLLOWING METHODS:
 - BY USE OF A LOAD INDICATING WASHER.
 - BY GIVING THE BOLT AN EXTRA 1/3 TURN FROM 'SNUG-TIGHT' CONDITION, 'SNUG-TIGHT' BEING THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING A SPUD WRENCH.
- GALVANIZED BOLTS AND NUTS SHALL BE LUBRICATED WITH WAX PRIOR TO USE.



WIND FRAME 1:2.5

POST SIZE	BASE CONNECTION DATA					FUSE PLATE DATA					
	STUB LENGTH	BOLT SIZE	Q	T	R	BOLT SIZE			E	G	J
						1/4 < 0.3	0.3 < 1/4 < 0.5				
W150x14	600	1/2"	270	20	7	1/2"	5/8"		102	57	22
W200x15	600	1/2"	320	20	7	1/2"	5/8"		102	57	22
W150x22	800	5/8"	270	25	9	5/8"	3/4"		152	89	32
W200x27	800	3/4"	320	30	10	3/4"	7/8"		134	70	32

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	87-03-04	DESIGN UPDATE	RCY
2	87-01-30	SUBSTITUTION	LWK

APPROVED

[Signature]
EXECUTIVE DIRECTOR
BRIDGE ENGINEERING

Albera TRANSPORTATION
BRIDGE ENGINEERING BRANCH

BREAKAWAY
GROUND MOUNTED SIGNS
H-SECTION POSTS

DESIGNED: RCYU
DRAWN: LWK
DATE: 87-01-30
CHECKED: []
DATE: []
STREAM: []
LOCATION: []
HIGHWAY: []
FILE: []
SHEET: []
DRAWING: S-1447