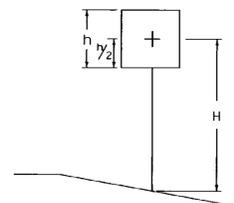


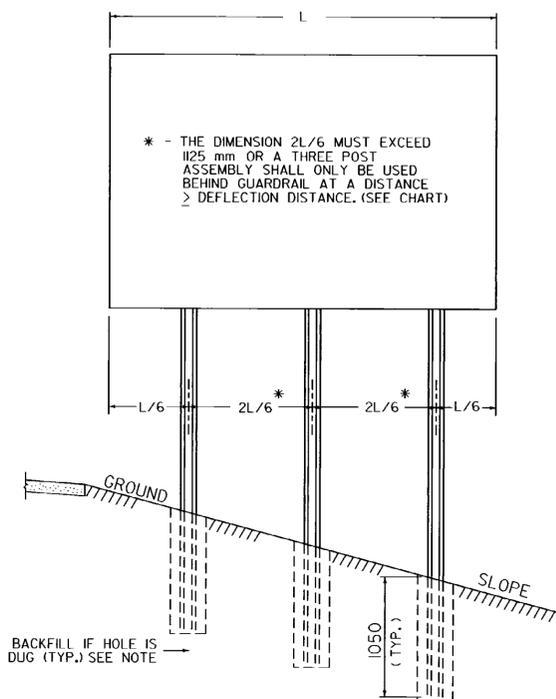
POST (kg/m)	DIMENSIONS (mm)			SECTION MODULUS, X-X
	A	B	C	
3	33	37	78	3867 mm ³
4.5	34	48	89	8030 mm ³

SIMILAR DIMENSIONS ARE ACCEPTABLE, HOWEVER SECTION MODULUS VALUES SHALL NOT BE EXCEEDED.



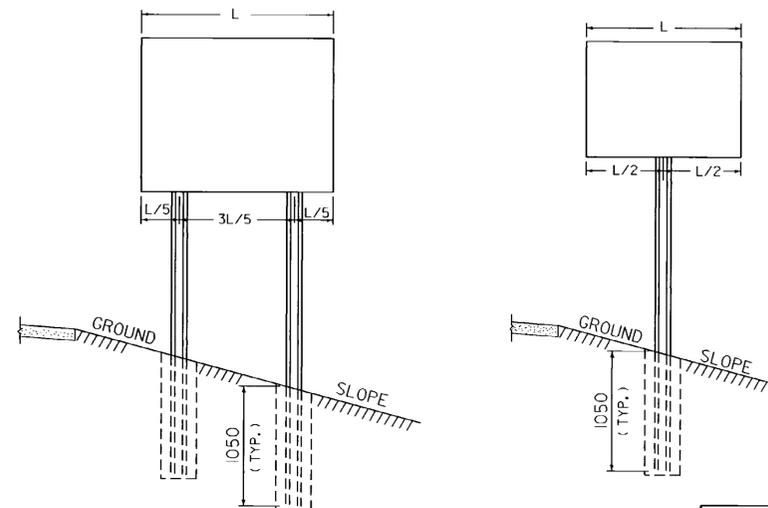
POST SELECTION CHART		
SIGN AREA (m ²) x H (m) ≤ SV (SELECTION VALUE)		
POST	Sv	DESIGN CRITERIA
3 kg/m (ONE POST INSTALLATION)	0.75 (est.)	WIND SPEED = 100 km/h (10-YEAR MEAN RECURRENCE INTERVAL)
3 kg/m (TWO POST INSTALLATION)	1.51	WIND PRESSURE = 740 Pa
4.5 kg/m	3.14	STEEL MIN YIELD F _y = 345 MPa ALLOWABLE STRESS = (1.4) 0.60 F _y

SINGULAR 3 kg/m POSTS SHALL ONLY BE USED IN URBAN AREAS.



MULTI-POST INSTALLATIONS

WHEN SIGN POSTS ARE INSTALLED WITH A POST SPACING OF LESS THAN 2400 mm, POST SIZES MUST BE SELECTED TO INSURE THAT, WHEN ACTING TOGETHER, THE POSTS DO NOT CREATE A HAZARD. REFER TO VAOT SIGN POST DESIGN GUIDELINE FOR ADDITIONAL DETAILS.



GENERAL NOTES

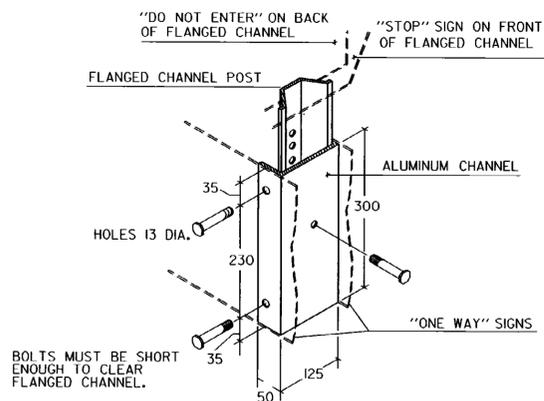
CONSTRUCTION METHODS - POSTS MAY BE DRIVEN OR SET IN A DUG HOLE AND BACKFILLED. IF DRIVEN, A DRIVING CAP SHALL BE USED. THE DUG-HOLE INSTALLATION SHALL BE USED IN AREAS OF POOR SOIL CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE RESIDENT ENGINEER.

IN AREAS WHERE LEDGE ROCK IS ENCOUNTERED, POSTS WILL BE SET IN A HOLE WITH 50-mm CLEARANCE AND GROUTED WITH TYPE 4 MORTAR 600 mm BELOW THE SURFACE OF THE SOLID ROCK, UNLESS THE POSTS PENETRATE THE GROUND A MINIMUM OF 1050 mm. THE PORTION OF THE POST IN CONTACT WITH THE MORTAR SHALL BE COATED WITH AN APPROVED COATING.

SIGN CLEARANCES - HORIZONTAL AND VERTICAL SIGN CLEARANCES SHALL BE SHOWN ON THE PLANS OR THE APPROPRIATE STD. SHEETS.

SINGLE POST INSTALLATIONS SHALL BE LIMITED TO A SIGN AREA OF 1.125 m² OR LESS.

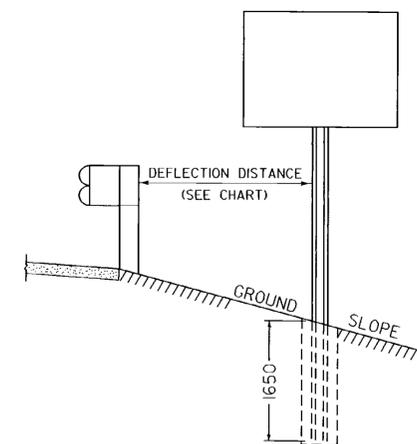
POST SPACING DETAILS



DETAIL OF TYPE "A" OR "B" MOUNTING BRACKET, SEE STANDARD E-120M FOR CLEARANCES.

GUARDRAIL DEFLECTION CHART (PER AASHTO - ROADSIDE DESIGN GUIDE)		
TYPE	GR POST SPACING	DEFLECTION
THREE CABLE W/STEEL POSTS	5.0 m	3.5 m
W-BEAM W/WEAK POST	3.8 m	2.0 m
W/STRONG POST	1.9 m	0.9 m
BOX BEAM	1.83 m	1.5 m
THREE BEAM W/WEAK POST	3.8 m	1.2 m
W/STRONG POST	1.9 m	0.6 m

THIS CHART LISTS THE THEORETICAL DEFLECTION DISTANCE UPON IMPACT OF VARIOUS GUARDRAIL WITH DIFFERENT TYPES AND SPACING OF POSTS.



WHERE FLANGED CHANNEL POSTS ARE USED ON STEEP SLOPES (1:2 OR STEEPER) OR STEEPER FILL SLOPES BEHIND GUARDRAIL, ADD 600 mm EMBEDMENT TO THE POST LENGTH TO GIVE THE ASSEMBLY MORE STABILITY. HOWEVER, IF SIGN POST IS LOCATED INSIDE THE DEFLECTION DISTANCE, THE SIGN POST SHALL BE SET AT A DEPTH OF 1050 mm.

OTHER STDS. E-120M REQUIRED:

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

REVISIONS AND CORRECTIONS
JUNE 13, 1997 - ORIGINAL APPROVAL DATE

APPROVED

[Signature]
DIRECTOR OF ENGINEERING
[Signature]
DIRECTOR OF CONSTRUCTION AND MAINTENANCE

FLANGED CHANNEL STEEL SIGN POST



Metric
STANDARD
E-160M