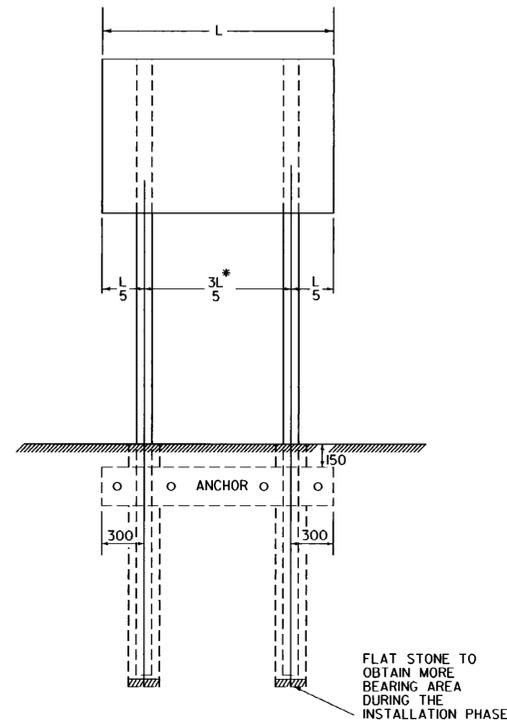
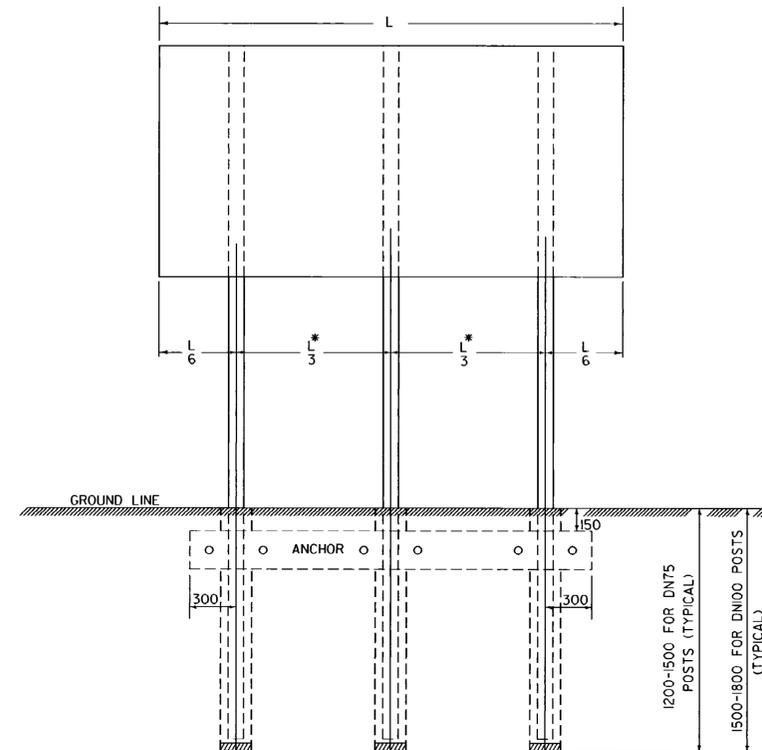


* WHEN CONSTRUCTING MULTIPLE POST INSTALLATIONS, THE POST SPACING SHALL BE A MINIMUM OF 2200 mm CENTER TO CENTER OF THE POSTS UNLESS USED BEHIND GUARDRAIL A DISTANCE $>$ THE DEFLECTION DISTANCE (SEE STD. E-160M).



IN AREAS WHERE LEDGE ROCK IS ENCOUNTERED POSTS WILL BE SET AND GROUTED WITH TYPE 4 MORTAR, 600 mm BELOW THE TOP SURFACE OF THE SOLID ROCK UNLESS THE POSTS PENETRATE THE GROUND A MIN. 1200 mm.

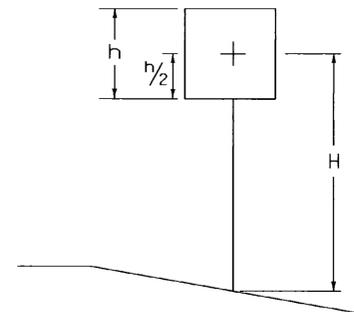


NOTES

ANCHORS USE TWO (2) PIECES OF 50 x 300 ROUGH PLANK, PLANKS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO "VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION" SECTION 728.02

ERECTION LOCKNUTS ON M10 X 1.5 ALUMINUM POST BOLT CLIPS SHALL BE TORQUED TO 30 N·m USING DRY, CLEAN, UNLUBRICATED THREADS. WHERE ALUMINUM SURFACES ARE TO BE PLACED IN CONTACT WITH WOOD, THEY SHALL BE GIVEN A THICK COAT OF AN ALKALI-RESISTANT BITUMINOUS PAINT MEETING THE REQUIREMENTS OF MILITARY SPECIFICATION MIL-P-6883, WHICH SHALL BE DRY BEFORE INSTALLATION.

THE HOLE SHALL BE CAREFULLY DUG AND THE POST SET TO THE DEPTH SPECIFIED ABOVE. POSTS SHALL NOT BE DRIVEN. THE BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF APPROVED GRAVEL OR SHALL BE A MATERIAL APPROVED BY THE ENGINEER. COMPACTION OF THE BACKFILL WILL BE PERFORMED AS DIRECTED BY THE ENGINEER.



POST SELECTION CHART		
SIGN AREA (m ²) x H (m) ≤ SV (SELECTION VALUE)		
POST SIZE	Sv (m ³)	DESIGN CRITERIA
DN75	3.99	WIND VELOCITY = 100 km/h (10 YEAR MEAN RECURRENCE INTERVAL)
DN100 *	7.31	WIND PRESSURE = 740 Pa
DN100 (MOD) *	7.21	ALUMINUM F _y = 165 MPa ALLOWABLE STRESS = (1/4)F _y

* TWO POST INSTALLATIONS - USE ONLY BEHIND GUARDRAIL AT A DISTANCE $>$ THE GUARDRAIL DEFLECTION DISTANCE. (SEE STD. E-160M)

POST WEIGHTS		
POST DIAMETER	WALL THICKNESS (mm)	MASS PER LENGTH
DN75	3.2	1.9 kg/m
DN100	3.2	2.5 kg/m
DN100 (MOD.)	3.2	2.5 kg/m

OTHER STDS. E-160M 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

TUBULAR ALUMINUM
SIGN POST



Metric
STANDARD
E-162M