STANDARD NO. PS-5A

REVISION DATE
7-13-01

*.DGN FILE NAME
PS-5A

METRIC STANDARD PLANS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.

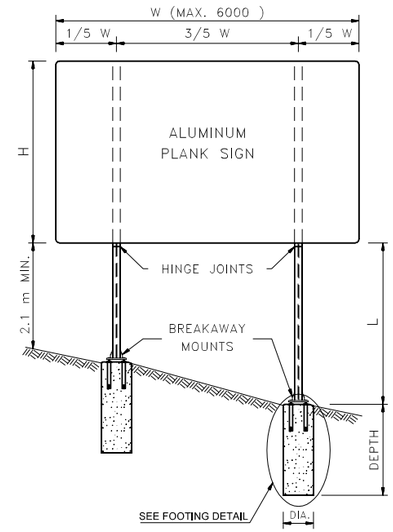
STANDARD NO. PS-5A

PROCEDURE FOR SELECTING BEAM SECTIONS

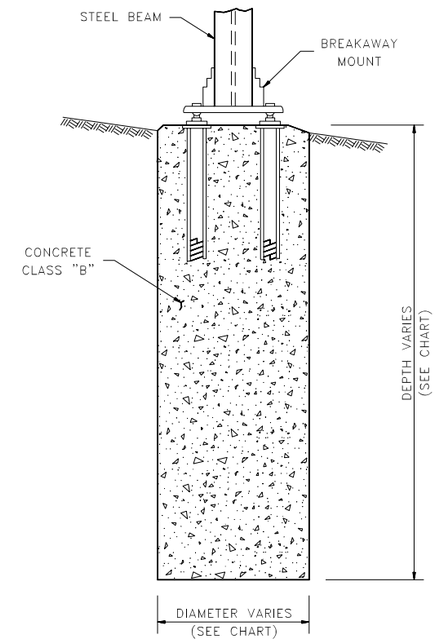
- DETERMINE VALUES FOR W, H, & L AS INDICATED IN DRAWING
  W = MAXIMUM WIDTH OF REQUIRED SIGN
  H = MAXIMUM HEIGHT OF REQUIRED SIGN
  L = MAXIMUM DISTANCE BETWEEN TOP OF FOOTING AND BOTTOM OF REQUIRED SIGN. (SEE GENERAL NOTE NO. 4)
- FOR SIGN SIZES BETWEEN THOSE VALUES IN THE TABLE, USE NEXT HIGHEST METER VALUE.
- ENTER TABLE WITH MAXIMUM VALUE OF "L" AND REQUIRED VALUES OF "W" AND "H" FOR SELECTION OF APPROPRIATE BEAM SELECTION.

2 POST SIGN

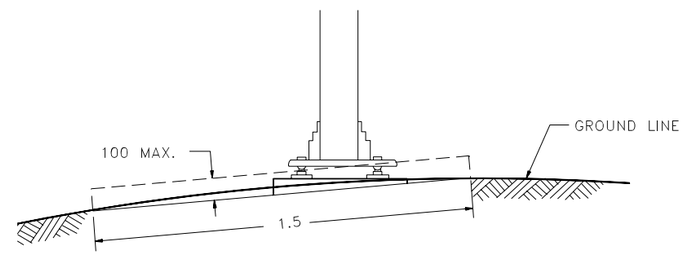
W(mm)	L(m)	H(mm) 1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500
1800	2.4	W150x14	W150x14	W150x14	W150x14	W150x14	W150x14	W150x14	W150x14	W150x18	W150x18	W200x27	W200x27
	3.0	W150x14	W150x14	W150x14	W150x14	W150x18	W150x18	W150x18	W150x22	W150x22	W200x27	W200x27	W200x27
	3.6	W150x14	W150x18	W150x18	W150x18	W150x22	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27
	4.3	W150x18	W150x18	W150x18	W150x22	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W200x31
	4.9	W150x18	W150x22	W150x22	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x31	W200x31	W200x31
2400	2.4	W150x14	W150x14	W150x14	W150x14	W150x14	W150x14	W150x18	W150x18	W150x18	W150x22	W200x27	W200x27
	3.0	W150x14	W150x14	W150x18	W150x18	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W200x27
	3.6	W150x18	W150x18	W150x22	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W200x27	W200x31
	4.3	W150x18	W150x22	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W200x31	W200x31	W200x31
	4.9	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x31	W200x31	W200x31	W200x31	W250x39	W250x39
3000	2.4	W150x14	W150x14	W150x14	W150x14	W150x18	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W250x33
	3.0	W150x14	W150x18	W150x18	W150x18	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W200x27	W250x33
	3.6	W150x18	W150x18	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W200x27	W200x31	W200x31	W250x33
	4.3	W150x22	W150x22	W150x22	W200x27	W200x27	W200x27	W200x31	W200x31	W200x31	W200x31	W250x39	W250x39
	4.9	W150x22	W150x22	W200x27	W200x27	W200x31	W200x31	W200x31	W200x31	W250x39	W250x39	W250x39	W250x39
3600	2.4	W150x14	W150x14	W150x14	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W310x39
	3.0	W150x14	W150x18	W150x18	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W250x33	W310x39
	3.6	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W200x31	W200x31	W250x33	W250x33	W310x39
	4.3	W150x22	W150x22	W200x27	W200x27	W200x27	W200x31	W200x31	W250x33	W250x39	W250x39	W250x39	W310x39
	4.9	W150x22	W200x27	W200x27	W200x31	W200x31	W200x31	W250x39	W250x39	W250x39	W250x39	W310x39	W310x39
4200	2.4	W150x14	W150x14	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W200x31	W310x39	W360x45
	3.0	W150x18	W150x18	W150x22	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W310x39	W310x39	W360x45
	3.6	W150x18	W150x22	W200x27	W200x27	W200x27	W200x31	W200x31	W200x31	W250x33	W310x39	W310x39	W360x45
	4.3	W150x22	W150x22	W200x27	W200x27	W200x31	W200x31	W250x33	W250x39	W250x39	W310x39	W310x39	W360x45
	4.9	W150x22	W200x27	W200x31	W200x31	W250x33	W250x39	W250x39	W250x39	W310x39	W360x45	--	--
4800	2.4	W150x14	W150x14	W150x18	W150x18	W200x27	W200x27	W200x27	W200x27	W200x27	W250x33	W360x45	--
	3.0	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W250x39	W310x39	W360x45	--
	3.6	W150x22	W150x22	W200x27	W200x27	W200x31	W200x31	W200x31	W250x39	W250x39	W310x39	W360x45	--
	4.3	W150x22	W200x27	W200x27	W200x31	W200x31	W250x39	W250x39	W250x39	W250x39	W310x39	W360x45	--
	4.9	W200x27	W200x27	W200x31	W200x31	W250x39	W250x39	W250x39	W310x39	--	--	--	--
5400	2.4	W150x14	W150x18	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W310x39	--	--
	3.0	W150x18	W150x22	W150x22	W200x27	W200x27	W200x27	W200x31	W250x33	W310x39	W360x45	--	--
	3.6	W150x22	W150x22	W200x27	W200x27	W200x31	W200x31	W250x39	W250x39	W310x39	W360x45	--	--
	4.3	W150x22	W200x27	W200x31	W200x31	W250x33	W250x39	W250x39	W250x39	W310x39	--	--	--
	4.9	W200x27	W200x31	W200x31	W250x39	W250x39	W250x39	W310x39	--	--	--	--	--
6000	2.4	W150x14	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W250x39	W310x39	--	--
	3.0	W150x18	W150x22	W200x27	W200x27	W200x27	W200x27	W250x33	W310x39	W360x45	--	--	--
	3.6	W150x22	W150x22	W200x27	W200x31	W200x31	W250x33	W250x39	W310x39	W360x45	--	--	--
	4.3	W200x27	W200x27	W200x31	W200x31	W250x39	W250x39	W250x39	W310x39	--	--	--	--
	4.9	W200x27	W200x31	W250x39	W250x39	W250x39	W310x39	--	--	--	--	--	--



POST SPACING DETAIL



FOOTING DETAIL



MAXIMUM BREAKAWAY STUB HEIGHT

BREAKAWAY SUPPORTS PLACED ON ROADSIDE SLOPES SHALL NOT ALLOW IMPACTING VEHICLES TO SNAG ON EITHER THE FOUNDATION OR ANY SUBSTANTIAL REMAINS OF THE SUPPORT. SURROUNDING TERRAIN SHALL BE GRADED TO PERMIT VEHICLES TO PASS OVER ANY NON-BREAKAWAY PORTION OF THE SIGN INSTALLATION WHICH REMAINS IN THE GROUND OR RIGIDLY ATTACHED TO THE FOUNDATION.

POST	FOOTING	
SIZE	DEPTH	DIAMETER
W150x14	1.8 m	600 mm
W150x18	1.8 m	600 mm
W150x22	2.3 m	600 mm
W200x27	2.3 m	750 mm
W200x31	2.6 m	750 mm
W250x33	2.6 m	900 mm
W250x39	2.6 m	900 mm
W310x39	2.6 m	900 mm
W360x45	2.7 m	900 mm

GENERAL NOTES

1. SIGNS SHALL BE PROVIDED FOR LOCATIONS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE SIGN TEXT LAYOUT SHEETS IN PLANS FOR SIGN SIZES AND APPROXIMATE LOCATIONS.
2. DIMENSIONS, ELEVATIONS, SLOPES, AND SITUATIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL CASES WILL DEPEND ON FIELD CONDITIONS.
3. WHEN TWO INDEPENDENT SIGNS ARE MOUNTED AS A SINGLE INSTALLATION, THE POST SUPPORTS SHALL BE CALCULATED WITH THE TOTAL AREA OF THE TWO SIGNS BEING CONSIDERED AS ONE UNIT, INCLUDING AN ALLOWANCE FOR A 150 mm VERTICAL SPACE BETWEEN THE TWO SIGNS.
4. POST LENGTH TO BE DETERMINED BY SIGN SIZE AND LOCATION, AND EXACT FIELD LOCATION TO BE DETERMINED BY THE ENGINEER.
5. TOP ELEVATIONS OF STEEL POSTS SHALL BE THE SAME FOR EACH SIGN AND FLUSH WITH SIGN TOP.
6. SEE STANDARD NO. PS-1A & PS-1B FOR ADDITIONAL INFORMATION.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS OR METERS. WHOLE NUMBERS INDICATE MILLIMETERS; DECIMAL NUMBERS INDICATE METERS UNLESS OTHERWISE NOTED.

PERMANENT SIGNING STANDARD

STEEL BEAM DETAILS (BREAKAWAY)

STANDARD NO. PS-5A

REVISION DATE
7-13-01

*.DGN FILE NAME
PS-5A

METRIC STANDARD PLANS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.

STANDARD NO. PS-5A