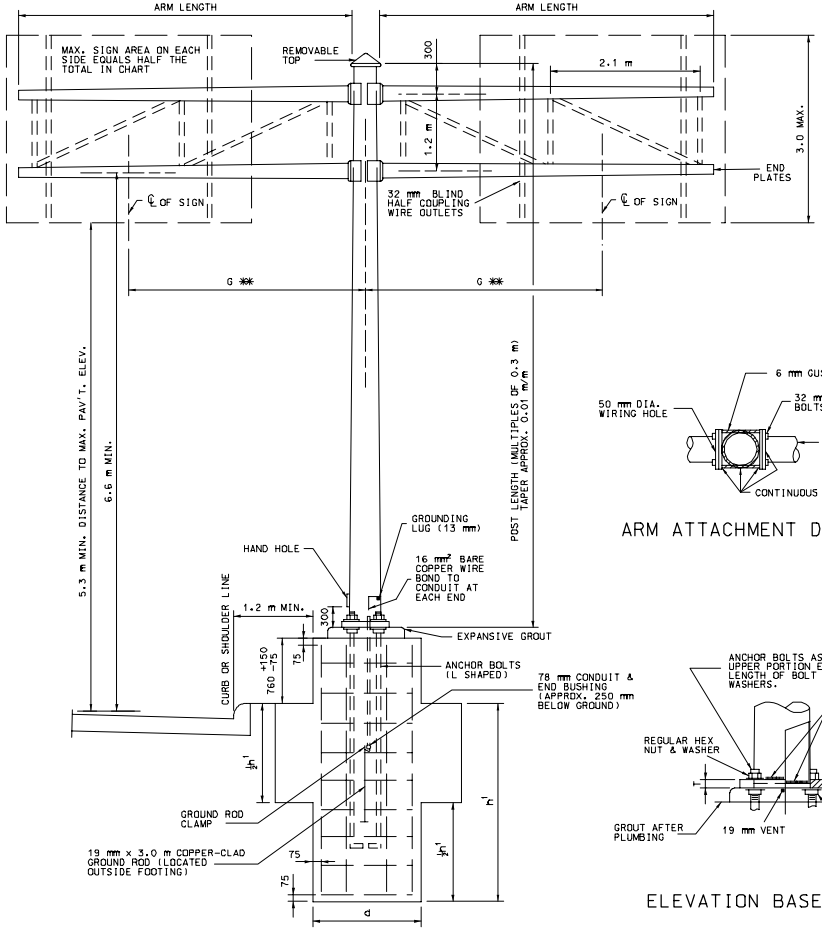
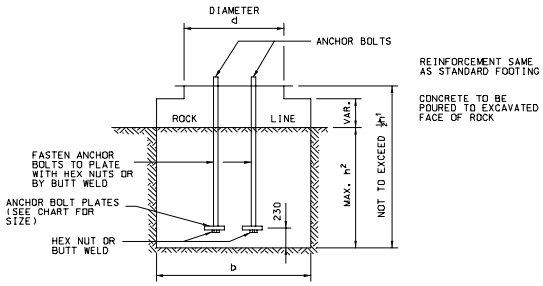


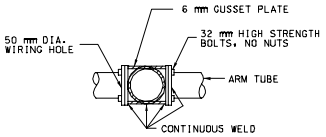
PLAN FOOTING



MODIFIED FOOTINGS IN SOLID ROCK

TYPE NUMBER	POST			ARM			"G"	MAX. AREA
	GA	mm	DIA.	GA	mm	DIMENSIONS	m	m²
B-2018	0	8.636	460	7	4.572	190 x 148 x 3.7 m	2.4	24.2
	0	8.636	460	7	4.572	230 x 172 x 4.9 m	3.6	22.3
	0	8.636	460	3	6.5786	255 x 183 x 6.1 m	4.8	21.4
	0	8.636	460	3	6.5786	280 x 194 x 7.3 m *	6.0	18.6
B-23318	3+3	6.5786+6.5786	460	7	4.572	230 x 165 x 5.5 m	3.0	26.9
	3+3	6.5786+6.5786	460	7	4.572	280 x 201 x 6.7 m *	4.2	27.9
	3+3	6.5786+6.5786	460	7	4.572	320 x 225 x 7.9 m *	5.4	27.9
B-20018	0+0	8.636+8.636	460	7	4.572	320 x 232 x 7.3 m *	4.2	38.1
	0+0	8.636+8.636	460	3	6.5786	320 x 218 x 8.5 m *	5.4	39.9
	0+0	8.636+8.636	460	0	8.636	330 x 209 x 10.4 m *	7.2	39.9

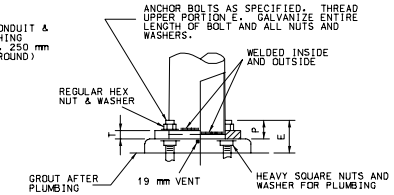
NOTES: * ARMS OVER 6.1 m TO BE TRUSS TYPE WITH ∠ 76 x 76 x 9.5.
**"G" MAY BE EXCEEDED PROVIDED THE PRODUCT OF ACTUAL SIGN AREA TIMES THE DISTANCE FROM CENTERLINE OF SHAFT TO CENTERLINE OF SIGN DOES NOT EXCEED HALF THE TOTAL AREA IN CHART TIMES "G".
W = 1.9 kN/m².
DESIGN FOR 3.0 m SIGN HEIGHT.



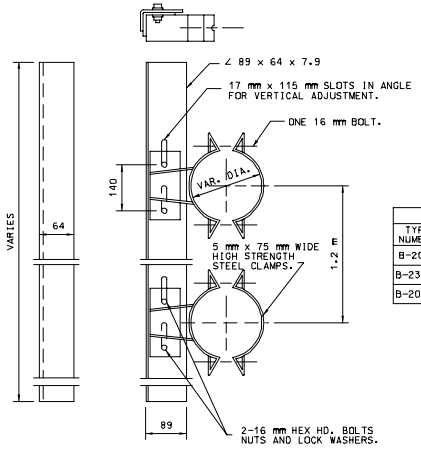
ARM ATTACHMENT DETAIL

ESTIMATED QUANTITIES												
TYPE NUMBER	DIA. "d" (mm)	DIA. "b" (mm)	CLASS B CONCRETE FOOTING (m³)				REINFORCING STEEL					
			"d" SECTION		"b" SECTION		#16		#13 *		TOTAL kg
			250 mm DEPTH	25 mm DEPTH	250 mm DEPTH	25 mm DEPTH	NO.	mm	NO.	mm	
B-2018	1070	1830	0.225	0.022	0.428	0.043	6	3045	11	3155	62
B-23318	1070	2135	0.225	0.022	0.510	0.051	6	3200	12	3155	68
B-20018	1070	2135	0.225	0.022	0.510	0.051	6	3655	13	3155	75

* ESTIMATED QUANTITY FOR REINFORCING STEEL IS BASED ON A 1:2 (V:H) SLOPE.



ELEVATION BASE DETAIL

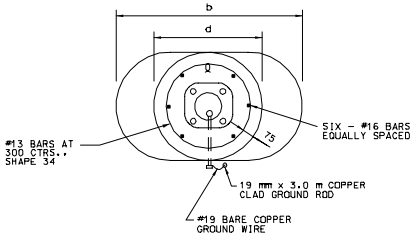


SIGN BRACKET ASSEMBLY *
(GALVANIZED)

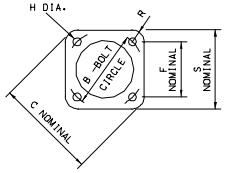
MODIFIED FOOTING IN SOLID ROCK						CLASS B CONCRETE FOOTING m³	
TYPE NUMBER	ANCHOR BOLT * (mm)	ANCHOR BOLT PLATE (mm)	FOOTING			"b" SECTION	
			"h²" (mm)	"d" (mm)	"b" (mm)	250 mm DEPTH	25 mm DEPTH
B-2018	57	115 x 115 x 20	1070	1070	1070	0.225	0.022
B-23318	75	140 x 140 x 25	1220	1070	1370	0.305	0.031
B-20018	75	140 x 140 x 25	1525	1070	1370	0.305	0.031

* ANCHOR BOLT LENGTH AS REQUIRED

POST BASE DIMENSIONS (mm)													
TYPE NUMBER	B	C	F	H	S	R	P	T	E	ANCHOR BOLTS	FOOTING		
											"h"	"d"	"b"
B-2018	650	840	460	67	675	140	140	64	240	57 x 2440	2285	1070	1830
B-23318	650	840	460	85	675	140	180	75	305	75 x 3050	2440	1070	2135
B-20018	650	840	460	85	675	140	180	75	305	75 x 3050	2895	1070	2135



PLAN FOOTING



PLAN POST BASE DETAIL

SIGN HEIGHT mm	MAX. m OF SIGN WIDTH PER BRACKET
≤ 1200	4.8
1500	4.8
1800	4.5
2100	3.3
2400	1.8
2700	1.2
3000	0.9

* MINIMUM OF TWO BRACKETS REQUIRED ON SIGNS OVER 1050 mm IN LENGTH

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

SEE STD. PLAN 903.09 FOR LIGHTING DETAILS IF LIGHTING THE SIGN IS NECESSARY.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HIGHWAY SIGNING
TUBULAR SUPPORT
STEEL-TYPE B

DATE: _____ | EFFECTIVE: 01-01-2003 | M903.08F | 1/1