

SIGN AXIS В С DIRECTION OF TRAFFIC DRILL ALL HOLES BOLT DIA. PLUS 1/16 TOP VIEW TOP VIEW 21/2" "T" SECTION B-B SECTION C-C \* OUTSIDE CORNERS OF BOLT PLATES CHAMFERED

> BASE PLATE TYPICAL DETAILS

BOLT PLATE TYPICAL DETAILS

AS SHOWN FOR FOOTING TYPES 1-4 ONLY. PLATES FOR TYPES 5-7 HAVE SQUARE CORNERS.

### TYPICAL CONCRETE FOOTING ASSEMBLY

## SECTION A-A

CONCRETE FOOTING TABLE															
	POST BASE STRUCTURAL DATA							FOOTING STRUCTURAL DATA							
SIZE	MAXIMUM ALLOWABLE MOMENT	POST TO BASE P WELD Z	BASE PLATE			ANCHOR COMPONENTS					SIZE			REINFORCING	
			"L1"	"W"	"T"	ANCHOR BOLTS	BOLT PLATES	"CH"	STIRRUPS	ıгРіі	TYPE	<b>\rightarrow</b> "D"	"L <sub>2</sub> "	VERT. BAR	HORIZ. HOOP
W 12X26	46.5 KIP FT.	¾" FILLET	201/4"	14"	13/8"	4-1 <sup>1</sup> / <sub>4</sub> "øX2'-6"	2-5"X¾"X14"	N/A	2-l/2"ø	65/8"	7	36"	10'	10-#9X9'-6"	20-#4@6"
W 10X26	38.9 KIP FT.	¾" FILLET	17"	14"	11/4"	4-1"ØX2'-6"	2-5"X¾"X14"	N/A	2-l/2"ø	61/4"	6	30"	91	10-#9X8'-6"	18-#4@6"
W 10X22	32.3 KIP FT.	¾" FILLET	161/4"	14"	11/4"	4-1"ØX2'-6"	2-5"X¾"X14"	N/A	2-l/2"ø	61/4"	5	30"	8'	10-#8X7'-6''	16-#4@6"
W 8X21	24.4 KIP FT.	¾" FILLET	15"	131/4"	11/8"	4-7/8"ØX2'-0"	2-5"X¾"X131/4"	2-1/2"	2-l/2"ø	6"	4	24"	7'	10-#8X6'-6"	14-#4@6"
W 8X18	20.4 KIP FT.	¾" FILLET	14"	131/4"	11/8"	4-7/8"ØX2'-0"	2-5"X¾"X131/4"	2-1/2"	2-l/ <sub>2</sub> ''ø	6"	3	24"	6'	10-#7X5'-6"	12-#4@6"
W 6X15	13.8 KIP FT.	¾" FILLET	14"	121/4"	1"	4-¾"ØX1'-6"	2-5"X¾"X121/4"	2"	2-l/ <sub>2</sub> ''ø	5¾"	2	24"	5'	10-#6X4'-6''	10-#4@6"
W 6X12	8.3 KIP FT.	1/4" FILLET	13"	12"	<i>7</i> ⁄8"	4-¾"ØX1'-6"	2-5"X¾"X12"	2"	2-l/ <sub>2</sub> ''ø	5%"	1	24"	41	10-#5X3'-6''	8-#4@6"
6X6 TIMBER	5.0 KIP FT.	TIMBER POSTS SHALL BE SET IN DRILLED OR EXCAVATED HOLESDEPTH SHALL BE 5 FT.FOR 6X6 POSTS AND 3 FT.FOR 4X4 POSTS UNLESS OTHERWISE NOTED ON THE TABULATION OF SIGNS IN THE PLANS.POSTS SHALL BE PLACED PLUMB, BACKFILLED WITH EXCAVATED MATERIALS, AND THOROUGHLY TAMPED INTO PLACE.													
4X4 TIMBER	1.4 KIP FT.														

<sup>\*</sup> FOR MULTI-DIRECTIONAL BREAKAWAY ONLY: TYPE 1 THRU TYPE 6 FOOTINGS REQUIRE A 6 IN INCREASE IN DIAMETER ("D") TO ACCOMMODATE ANCHORS SHOWN ON THE DETAILS INCLUDED IN THE PLANS. ALSO, HORIZONTAL REINFORCING HOOP DIAMETER WILL BE INCREASED TO MAINTAIN A 2 IN. CLEARANCE FROM THE FOOTING SIDES. VERTICAL BARS AND OTHER STRUCTURAL DATA REMAIN THE SAME. TYPE 7 FOOTINGS REQUIRE NO CHANGES.

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# CONCRETE FOOTINGS AND SIGN ISLANDS

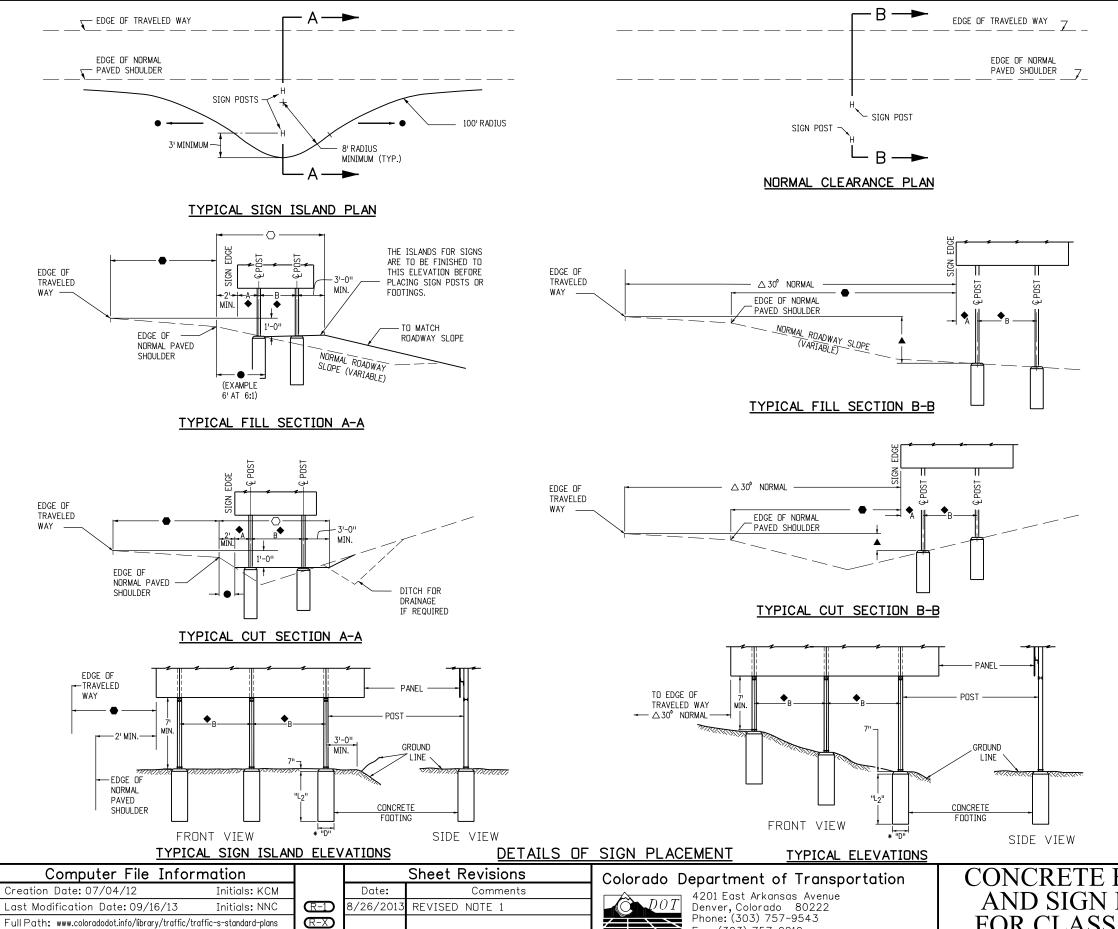
TYPICAL FOOTING INSTALLATION

S-614-6

STANDARD PLAN NO.

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#### GENERAL NOTES

- ALL CONCRETE IS TO BE CLASS "BZ" AIR ENTRAINED. GROUT SHALL CONFORM TO "JOINT MORTAR".
- USE AASHTO M270 (ASTM A709) GRADE 36 STEEL FOR BASE PLATES AND BOLT PLATES. USE ASTM-A307 STEEL FOR ANCHOR BOLTS.
- USE GRADE 60 FOR REINFORCING STEEL VERTICAL BARS, HORIZONTAL HOOPS. AND ANCHOR BOLT STIRRUPS.
- FOR ALL STEEL WORK ABOVE THE BASE PLATE, AND FOR ANGULAR PLACEMENT OF SIGNS, SEE APPLICABLE STANDARDS INCLUDED IN THE PLANS.
- FOR ADDITIONAL INFORMATION, REFER TO "TABULATION OF SIGNS" AND "CROSS SECTIONS FOR CLASS III SIGNS" INCLUDED IN THE PLANS.
- ◆ FOR "A" AND "B" DIMENSIONS. SEE COLORADO STANDARD PLAN S-614-4.
- THE SIGN ISLAND SIDE SLOPE PARALLEL TO THE ROADWAY SHALL BE 6:1 OR FLATTER. SEE TYPICAL SECTIONS.
- THE SIGN ISLAND SIDE SLOPE PARALLEL TO THE ROADWAY SHALL BE 6:1 OR FLATTER. SEE TYPICAL SECTIONS.
- VARIABLE DIMENSIONS, SEE CROSS SECTIONS.
- ▲ VARIABLE FOOTING ELEVATIONS. SEE CROSS SECTIONS FOR PLACEMENT.
- △ THE LATERAL PLACEMENT MAY BE REDUCED TO A MINIMUM OF 2 FT. FROM THE EDGE OF NORMAL PAVED SHOULDER TO FIT FIELD CONDITIONS WHEN 30 FT. FROM THE EDGE OF THE TRAVELED WAY IS NOT FEASIBLE. SEE THE CROSS SECTIONS AND/OR TYPICAL GROUND SIGN PLACEMENT
- EMBANKMENT FOR SIGN ISLANDS IS TO BE COMPACTED AS REQUIRED 12. UNDER ITEM 203 OF THE STANDARD SPECIFICATIONS.
- 13. FOR ANGULAR PLACEMENT OF SIGNS, SEE COLORADO STANDARD PLAN
- THE 4-INCH "BASE POST" AND LOWER "BREAK-AWAY PLATE" SHALL BE PAID FOR AS PART OF THE FOOTING.



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Sheet No. 2 of 2

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