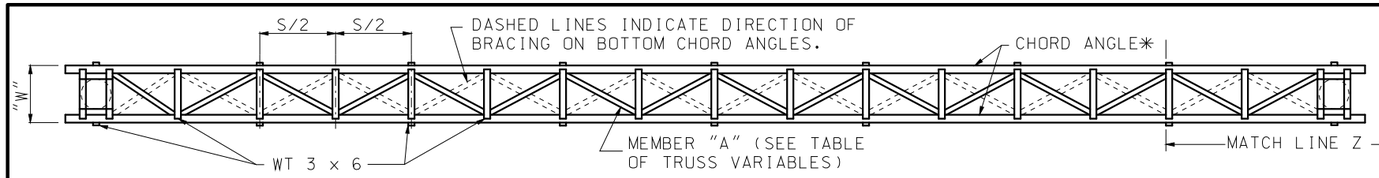
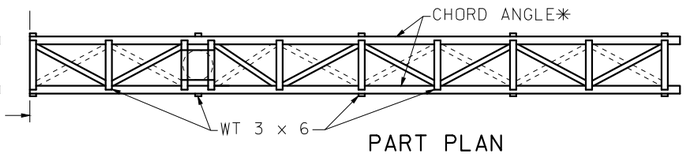
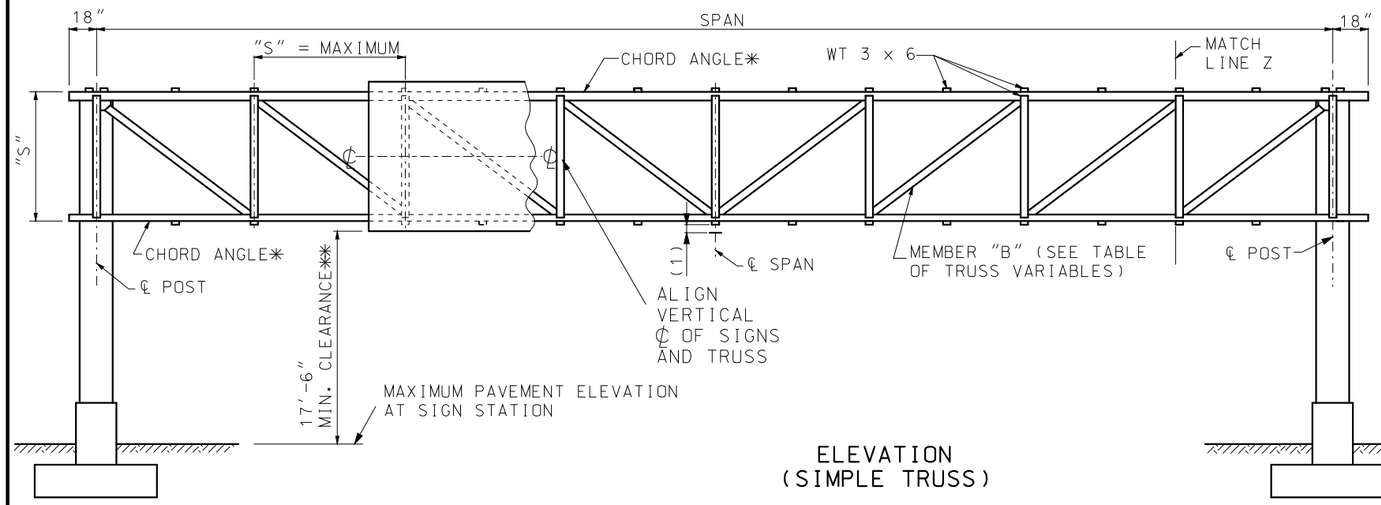


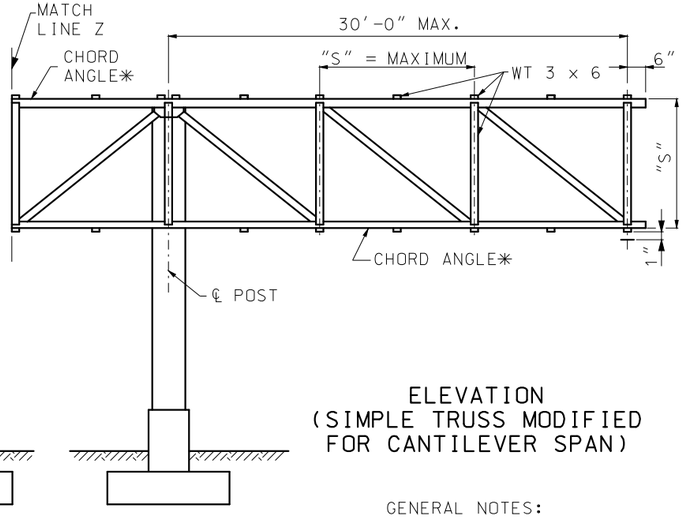
PART PLAN



PART PLAN



ELEVATION
(SIMPLE TRUSS)



ELEVATION
(SIMPLE TRUSS MODIFIED FOR CANTILEVER SPAN)

NOTES:

SHOP SPLICES ON CHORD ANGLES WILL BE ALLOWED ONLY BY SPECIAL PERMISSION. IF PERMISSION IS GRANTED, SUCH SPLICES MUST BE LOCATED AT THE CENTERLINE OF MAIN PANEL POINTS.

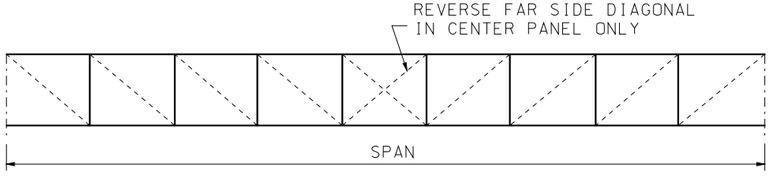
"D" = GREATEST OVERALL DEPTH OF ANY SIGN OR SIGNS ON TRUSS AND "S" = TRUSS DEPTH, AND "W" = TRUSS WIDTH.

$\frac{3}{4}$" DIA. BOLTS SHALL BE REMOVED AFTER WELDING IS COMPLETE. BOLT HOLES SHALL BE PLUGGED AND THE OUTSIDE FACE GROUND SMOOTH.

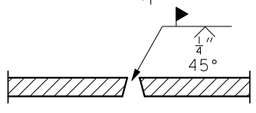
* SEE GENERAL NOTES THIS SHEET FOR CHARPY V-NOTCH REQUIREMENTS.

** IF LIGHTING IS SPECIFIED, VERTICAL CLEARANCE IS MEASURED TO LOWEST POINT OF LIGHTING BRACKET.

(1) FOR PARABOLIC CAMBER SEE TABLE OF TRUSS VARIABLES



TRUSS ELEVATION
(UNEVEN NUMBER OF TRUSS PANELS)



SECTION A-A

TRUSS VARIABLES					
SPAN	"S"	"W"	MEMBER "A"	MEMBER "B"	SHOP CAMBER
UP TO 80'-6"	6'-0"	4'-0"	L $2\frac{1}{2}$" x $2\frac{1}{2}$" x $\frac{1}{4}$"	L $2\frac{1}{2}$" x $2\frac{1}{2}$" x $\frac{1}{4}$"	2"
81' TO 100'-6"	6'-0"	5'-0"	L 3" x 3" x $\frac{1}{4}$"	L $2\frac{1}{2}$" x $2\frac{1}{2}$" x $\frac{1}{4}$"	$2\frac{1}{2}$"
101' TO 130'-6"	7'-0"	6'-0"	L 3" x 3" x $\frac{1}{4}$"	L 3" x 3" x $\frac{1}{4}$"	$3\frac{1}{2}$"
131' TO 150'-6"	8'-0"	6'-0"	L $3\frac{1}{2}$" x $3\frac{1}{2}$" x $\frac{5}{16}$"	L $3\frac{1}{2}$" x $3\frac{1}{2}$" x $\frac{5}{16}$"	$4\frac{1}{2}$"
151' TO 160'-6"	8'-0"	7'-0"	L $3\frac{1}{2}$" x $3\frac{1}{2}$" x $\frac{5}{16}$"	L $3\frac{1}{2}$" x $3\frac{1}{2}$" x $\frac{5}{16}$"	$5\frac{1}{2}$"

NOTE: FOR SIZE OF CHORD MEMBERS SEE DATA SHEET.

GENERAL NOTES:

ALL STRUCTURAL STEEL AND COLUMN BASE PLATES ASTM A36, EXCEPT THAT CHORD ANGLES GREATER THAN $\frac{1}{2}$" IN THICKNESS SHALL BE AASHTO M183 WITH SUPPLEMENTAL REQUIREMENTS: S5, CHARPY V-NOTCH IMPACT TEST FOR TEMPERATURE ZONE 2.

ALL ANCHOR BLOTS ASTM A370.

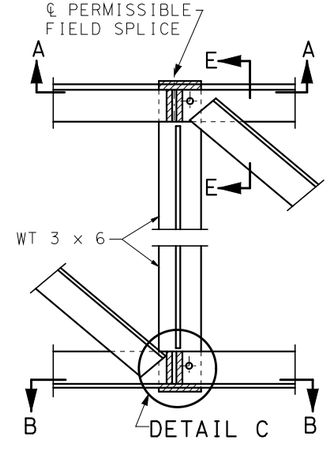
PROPOSED FIELD SPLICES SHALL BE SHOWN ON SHOP DRAWINGS FOR APPROVAL OF THE ENGINEER.

TRUSSES SHALL BE FABRICATED WITH A MINIMUM OF SPLICING IN TRUSS CHORDS. FIELD SPLICING WILL NOT BE PERMITTED WITHIN THE MIDDLE ONE-THIRD OF SPAN.

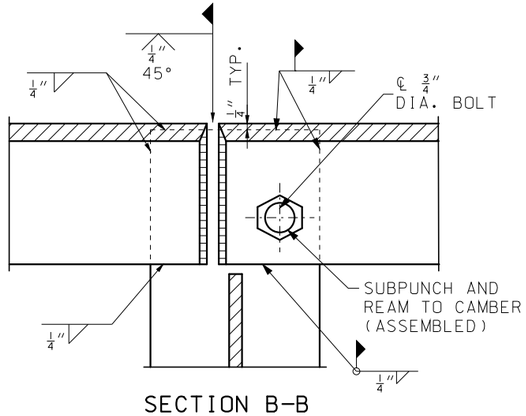
FOR ADDITIONAL INFORMATION SEE DATA SHEET.

ZINC CHROMATE PRIMER SHALL MEET THE REQUIREMENTS OF FEDERAL SPECIFICATIONS TT-P-645 OR TT-P-1757 AND SHALL BE ACCEPTED ON THE BASIS OF THE LABEL SHOWING CONFORMANCE OR A MANUFACTURER'S CERTIFICATION.

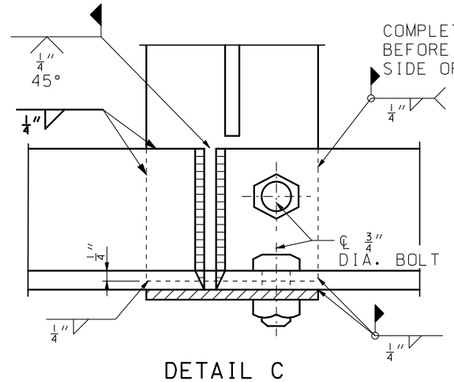
ALL SIGNS SHALL BE CENTERED VERTICALLY ABOUT THE HORIZONTAL ℄ OF THE TRUSS.



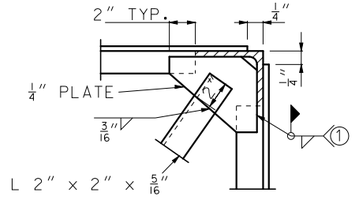
SECTION THROUGH TRUSS LOCATING SPLICES



SECTION B-B



DETAIL C



SECTION E-E
(FIELD SPLICE ONLY)

DETAIL OF FIELD SPLICES
(IF ANY)

① SEE SHEET 2

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

OVERHEAD SIGN TRUSSES

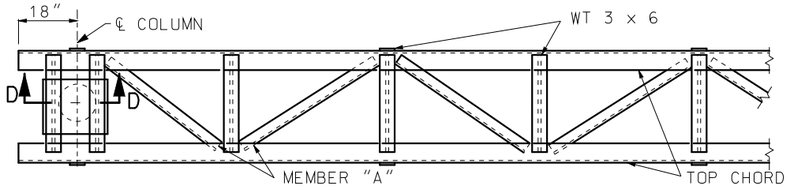
STRUCTURAL STEEL

DATE EFFECTIVE: 10/01/2016
DATE PREPARED: 8/11/2016

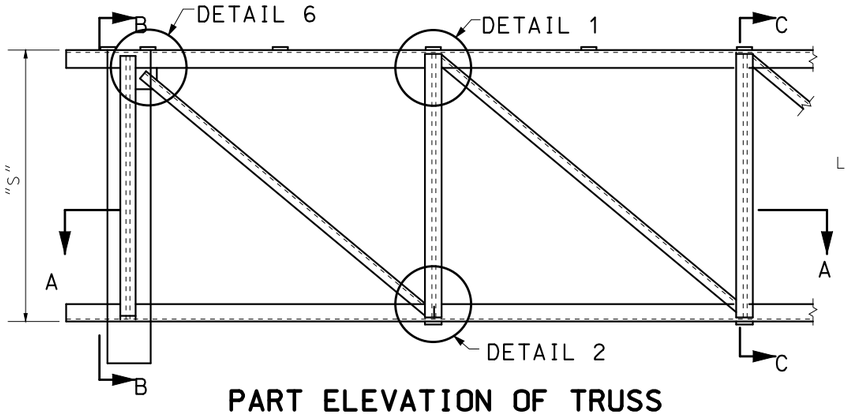
903.60AB

SHEET NO. 1 OF 5

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

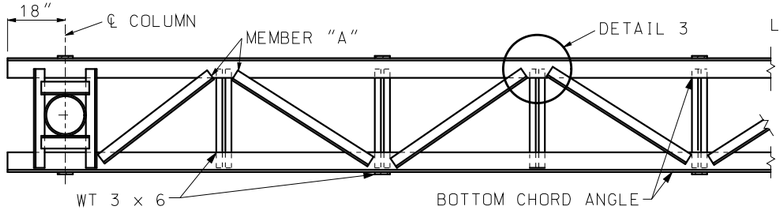


PLAN

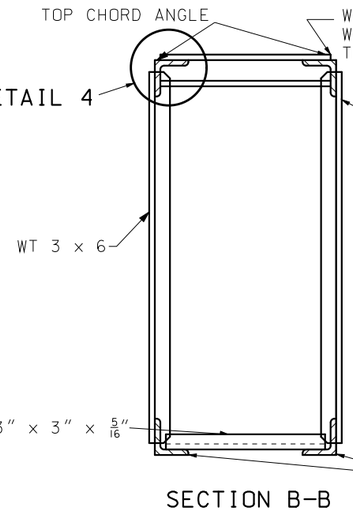


PART ELEVATION OF TRUSS

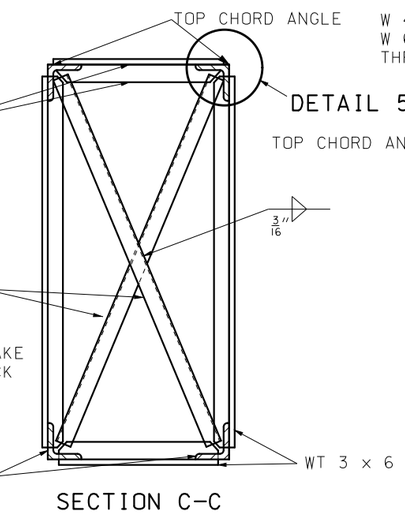
NOTE: FOR SIZE OF MEMBER "A" SEE TABLE OF TRUSS VARIABLES, SHEET NO 1.



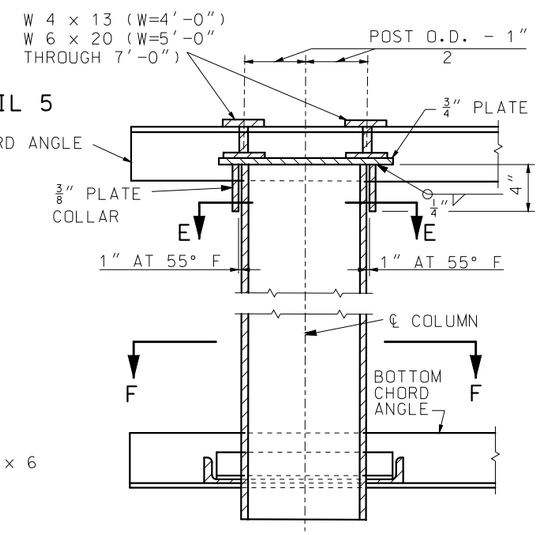
SECTION A-A



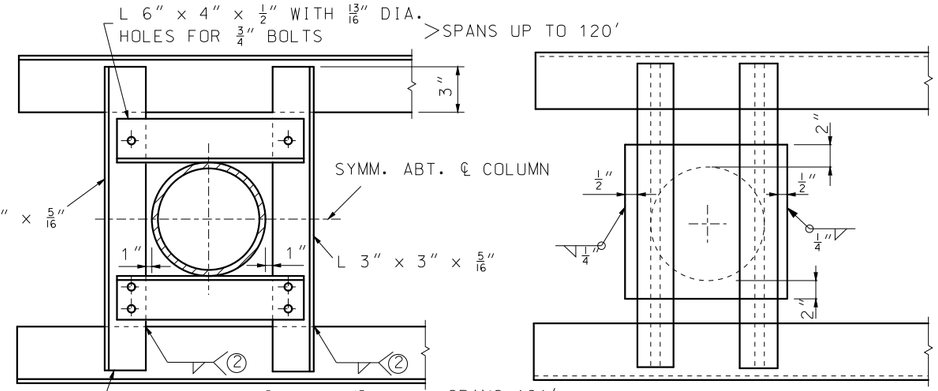
SECTION B-B



SECTION C-C



SECTION D-D

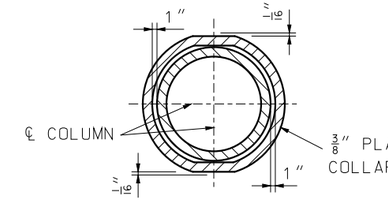


NOTE: BOLTS SHALL BE HIGH STRENGTH STEEL WITH HARDENED WASHERS UNDER HEAD AND NUT.

SECTION F-F

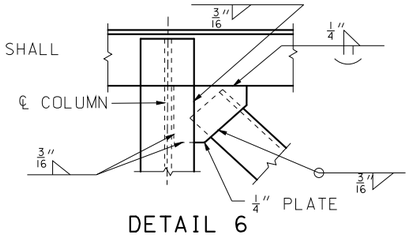
PLAN OF POST

NOTE: FILLET WELD 2 (SHOP OR FIELD) SHALL BE 3/16" WHEN "+" IS 1/2" OR LESS AND 1/4" WHEN "+" IS GREATER THAN 1/2".

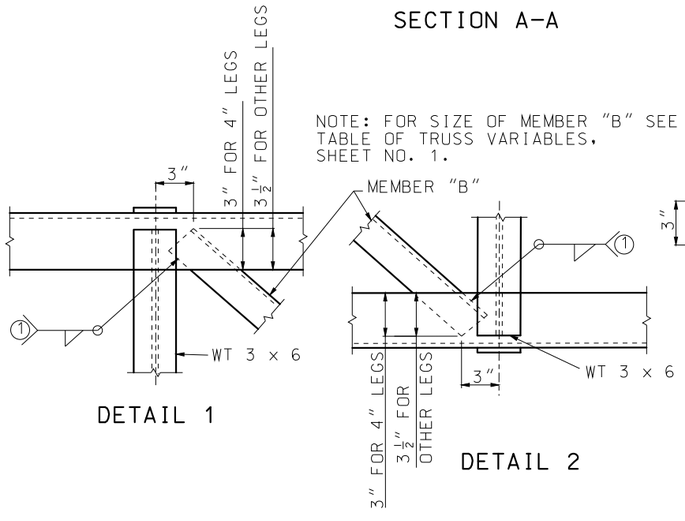


SECTION E-E

NOTE: DETAILS OF CANTILEVER END SECTION ARE SIMILAR TO THOSE SHOWN ON THIS SHEET.



DETAIL 6

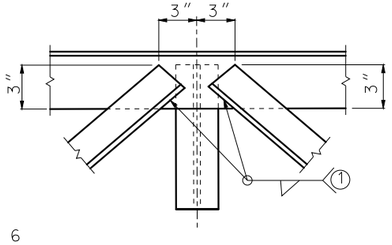


NOTE: FOR SIZE OF MEMBER "B" SEE TABLE OF TRUSS VARIABLES, SHEET NO. 1.

DETAIL 1

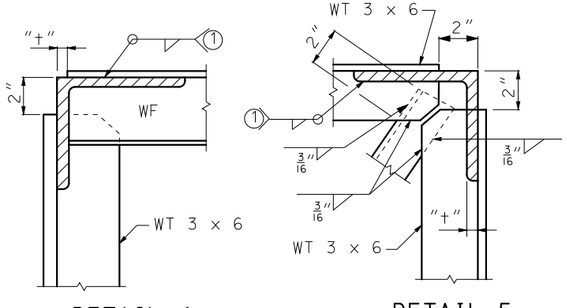
DETAIL 2

IF DESIRED THE OUTSTANDING LEGS OF DIAGONAL ANGLES MAY BE CLIPPED AT 45° TO FACILITATE ASSEMBLY AND WELDING.



DETAIL 3

TYPICAL FOR ALL PANEL POINT FRAMING EXCEPT AT FIELD SPLICES, IF ANY, AND COLUMN SUPPORTS.



DETAIL 4

DETAIL 5

SLOT WEB OF STRUCTURAL TEE'S AND WIDE FLANGES TO RECEIVE LEG OF CHORD ANGLES (TYPICAL).

FILLET WELD 1 SHALL BE 5/16" WHEN "+" IS 1/2" OR LESS AND 1/4" WHEN "+" IS GREATER THAN 1/2".

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

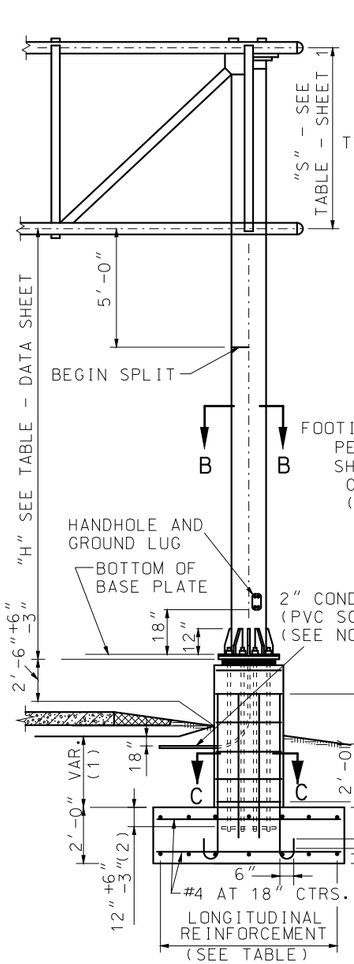
DATE EFFECTIVE: 10/01/2016
DATE PREPARED: 8/11/2016

903.60AB

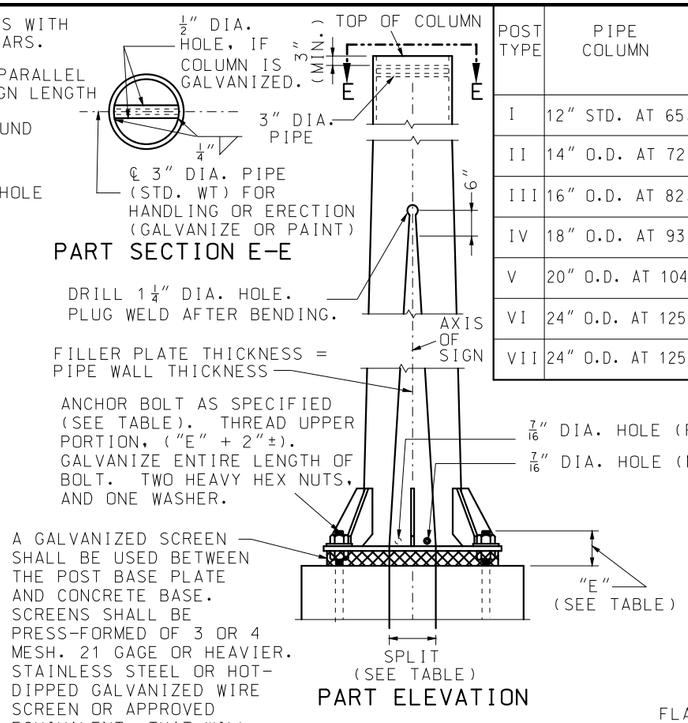
SHEET NO. 2 OF 5

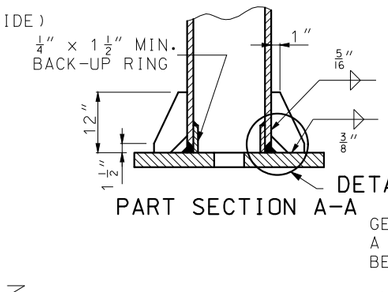
POST TYPE	PIPE COLUMN	DIMENSION "E"	SPLIT	BASE PLATE SIZE*	ANCHOR BOLTS DIA.	PEDESTAL SIZE* a	PEDESTAL SIZE* b	FOOTING SIZE*	LONGITUDINAL FOOTING REINFORCEMENT TOP	LONGITUDINAL FOOTING REINFORCEMENT BOTTOM	CONCRETE C.Y.
I	12" STD. AT 65.42	8½"	6"	2'-6"x 23"x 1½"	6 AT 2¼"	4'-0"	2'-11"	7'-0"x 14'-6"	7-#5 BARS	7-#6 BARS	10.9
II	14" O.D. AT 72.09	8½"	9½"	3'-0"x 2'-0"x 1½"	6 AT 2¼"	4'-4"	3'-0"	8'-0"x 16'-0"	8-#5 BARS	9-#6 BARS	13.2
III	16" O.D. AT 82.77	8¾"	11½"	3'-4"x 2'-2"x 1¾"	6 AT 2¼"	4'-8"	3'-2"	8'-6"x 17'-6"	9-#5 BARS	9-#7 BARS	15.2
IV	18" O.D. AT 93.45	9½"	12½"	3'-7"x 2'-4"x 2"	6 AT 2½"	5'-1"	3'-4"	9'-6"x 19'-0"	10-#5 BARS	10-#8 BARS	18.1
V	20" O.D. AT 104.13	9½"	13"	3'-10"x 2'-9"x 2"	8 AT 2½"	5'-4"	3'-9"	10'-0"x 20'-0"	10-#5 BARS	10-#8 BARS	20.6
VI	24" O.D. AT 125.49	9½"	10½"	4'-0"x 3'-3"x 2"	8 AT 2½"	5'-6"	4'-3"	10'-6"x 21'-0"	11-#5 BARS	11-#8 BARS	23.3
VII	24" O.D. AT 125.49	9½"	13½"	4'-3"x 3'-3"x 2"	8 AT 2½"	5'-9"	4'-3"	11'-0"x 22'-0"	11-#5 BARS	11-#9 BARS	25.1

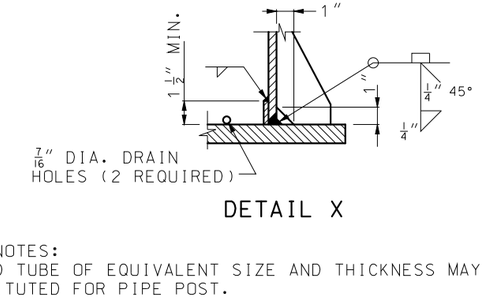
* BASE PLATES, PEDESTAL, AND FOOTINGS, LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.



NOTE: THE 2" CONDUIT IN THE CONCRETE PEDESTAL SHALL BE PVC SCHEDULE 40 AND SHALL BE PLACED WITH A MINUMUM RADIUS BEND OF 9½".







GENERAL NOTES:
A TAPERED TUBE OF EQUIVALENT SIZE AND THICKNESS MAY BE SUBSTITUTED FOR PIPE POST.

ALL STEEL PIPE COLUMNS SHALL BE EITHER GRADE "B" SEAMLESS STEEEL PIPE OR GRADE "B" ELECTRIC RESISTANCE WELDED STEEL PIPE; A.S.T.M. SPECIFICATION A53. NO OBJECTIONABLE SEAMS WILL BE PERMITTED.

ALL STRUCTURES SHALL BE GROUNDED.

BURR THREADS ON ALL ANCHOR BOLTS.

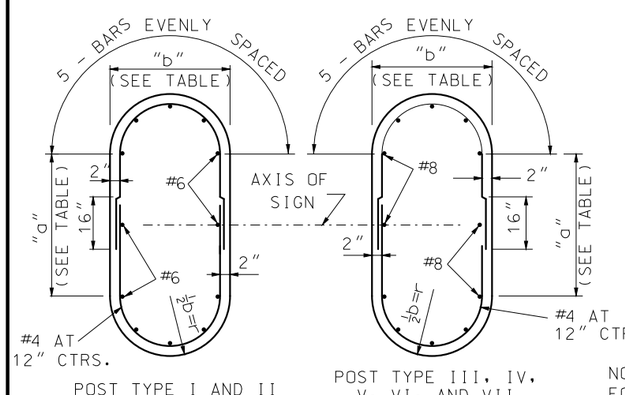
A HORIZONTAL WELDED SPLICE MAY BE FABRICATED IN THE COLUMN BETWEEN THE TOP OF PIPE AND 4'- 0" BELOW THE BOTTOM CHORDS OF THE TRUSS WHEN DETAILED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER.

GROUND LUGS SHALL BE LOCATED INSIDE COLUMN NEAR HAND HOLE.

QUANTITIES FOR PEDESTAL, BASED ON NOMINAL HEIGHT OF 5'- 0".

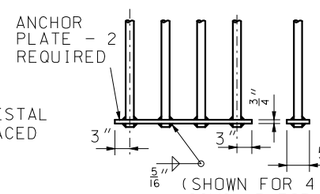
QUANTITIES FOR FOOTING, BASED ON NOMINAL DEPTH OF 2'- 0".

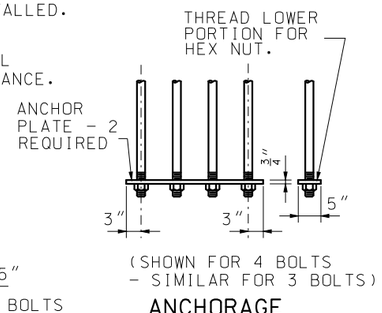
QUANTITIES SHOWN ARE FOR ONE COLUMN ONLY.

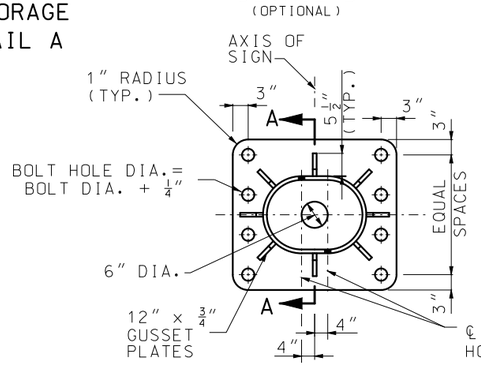


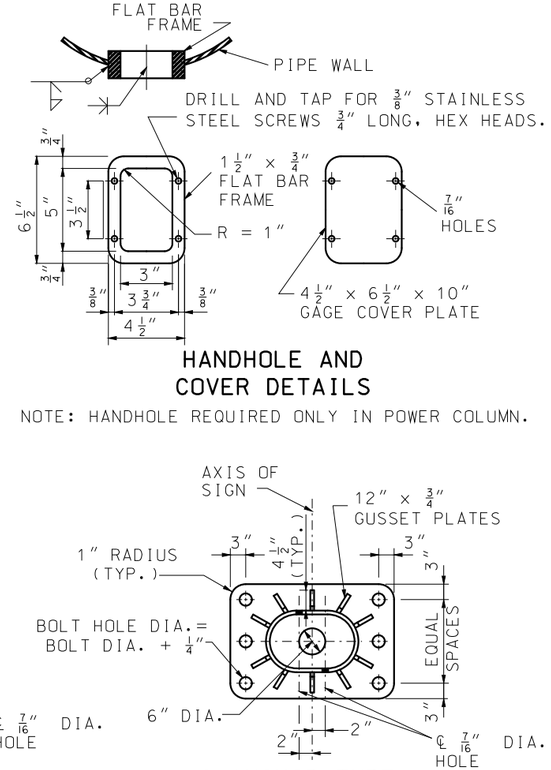
NOTE:
FOR DETAILS OF ALTERNATE PEDESTAL, SEE SHEET NO. 4 OF 5.

(1) 2'-6" WHERE GROUND IS LEVEL
(2) DETAIL FOR 12" FIELD TOLERANCE.









NOTE: HANDHOLE REQUIRED ONLY IN POWER COLUMN.

TYPICAL BASE PLATES

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
EILEEN H. RACKERS
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OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATE EFFECTIVE: 10/01/2016
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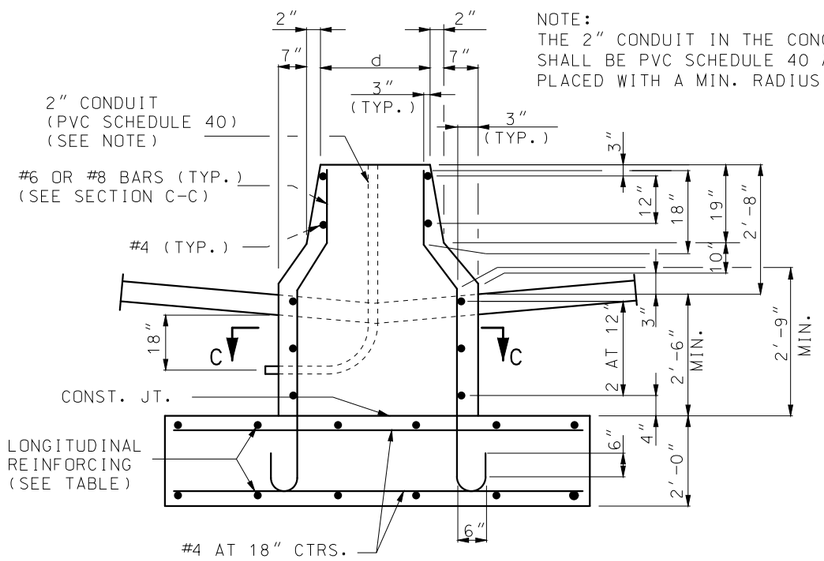
903.60AB



NOTE:
THE 2" CONDUIT IN THE CONCRETE PEDESTAL SHALL BE PVC SCHEDULE 40 AND SHALL BE PLACED WITH A MIN. RADIUS BEND OF 9½".

PART ELEVATION
(TYPE A CONCRETE TRAFFIC BARRIER)

POST TYPE	PIPE COLUMN	PEDESTAL SIZE✱		FOOTING SIZE✱	LONGITUDINAL FOOTING REINFORCEMENT		CONCRETE C.Y.	
		c	d		TOP	BOTTOM	TYPE A MEDIAN BARRIER	TYPE C MEDIAN BARRIER
I	12" STD. AT 65.42	5'-9"	2'-1"	7'-0"x 14'-6"	7-#5 BARS	7-#6 BARS	10.9	11.6
II	14" O.D. AT 72.09	6'-2"	2'-2"	8'-0"x 16'-0"	8-#5 BARS	9-#6 BARS	13.2	14.0
III	16" O.D. AT 82.77	6'-7"	2'-4"	8'-6"x 17'-6"	9-#5 BARS	9-#7 BARS	15.2	16.1
IV	18" O.D. AT 93.45	7'-1"	2'-6"	9'-6"x 19'-0"	10-#5 BARS	10-#8 BARS	18.1	19.1
V	20" O.D. AT 104.13	7'-8"	2'-11"	10'-0"x 20'-0"	10-#5 BARS	10-#8 BARS	20.6	21.7
VI	24" O.D. AT 125.49	8'-3"	3'-5"	10'-6"x 21'-0"	11-#5 BARS	11-#8 BARS	23.3	24.6
VII	24" O.D. AT 125.49	8'-6"	3'-5"	11'-0"x 22'-0"	11-#5 BARS	11-#9 BARS	25.1	26.5

✱ BASE PLATES, PEDESTAL, AND FOOTINGS LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.

GENERAL NOTES:

A TAPERED TUBE OF EQUILVALENT SIZE AND THICKNESS MAY BE SUBSTITUTED FOR PIPE POST.

ALL STEEL PIPE COLUMNS SHALL BE EITHER GRADE "B" SEAMLESS STEEL PIPE OR GRADE "B" ELECTRIC RESISTANCE WELDED STEEL PIPE; A.S.T.M. SPECIFICATION A53.

NO OBJECTIONABLE SEAMS WILL BE PERMITTED.

ALL STRUCTURES SHALL BE GROUNDED.

BURR THREADS ON ALL ANCHOR BOLTS.

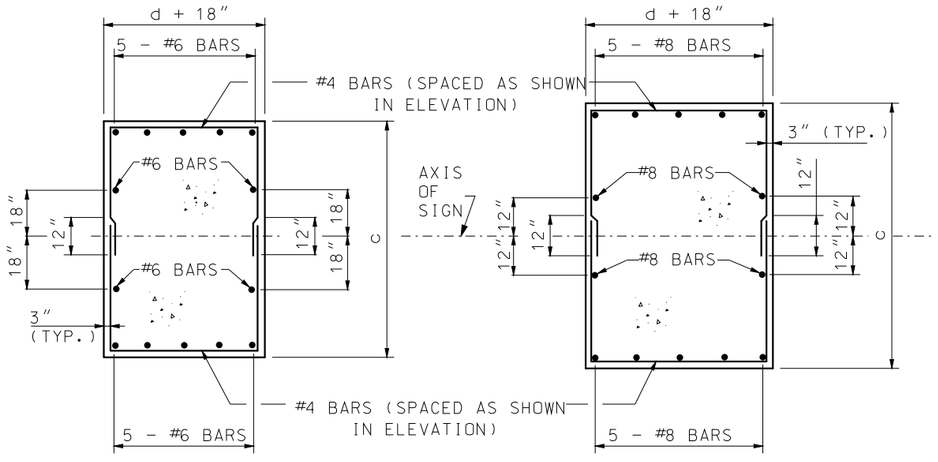
PIPE COLUMN, BASE PLATE, ANCHOR BOLTS AND NOTES PERTAINING TO THESE ITEMS HAVE BEEN OMITTED FOR CLARITY. REFER TO SHEET 3 OF 5 FOR DETAILS OF THESE ITEMS.

GROUND LUGS SHALL BE LOCATED INSIDE COLUMN NEAR HAND HOLE.

QUANTITIES FOR PEDESTAL ARE BASED ON NOMINAL HEIGHT OF 5'-2" (TYPE A MEDIAN BARRIER) OR 6'-0" (TYPE C MEDIAN BARRIER).

QUANTITIES FOR FOOTING ARE BASED ON NOMINAL DEPTH OF 2'-0".

QUANTITIES SHOWN ARE FOR ONE COLUMN ONLY.

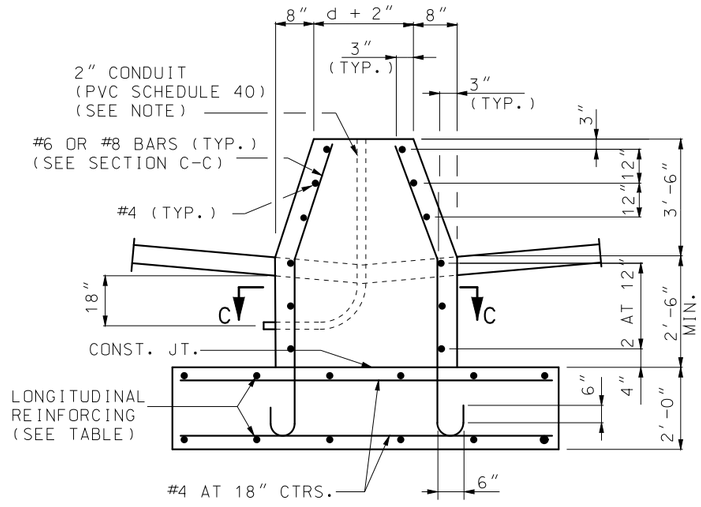


POST TYPE I AND II

POST TYPEIII, IV, V, VI, AND VII

SECTION C-C
TYPICAL SECTION SHOWING
REINFORCING STEEL

NOTE:
THE 2" CONDUIT IN THE CONCRETE PEDESTAL SHALL BE PVC SCHEDULE 40 AND SHALL BE PLACED WITH A MIN. RADIUS BEND OF 9½".



PART ELEVATION
(TYPE C CONCRETE TRAFFIC BARRIER)

DETAILS OF ALTERNATE PEDESTAL

(TO BE USED ADJACENT TO TYPE "A" OR "C" MEDIAN BARRIER)

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

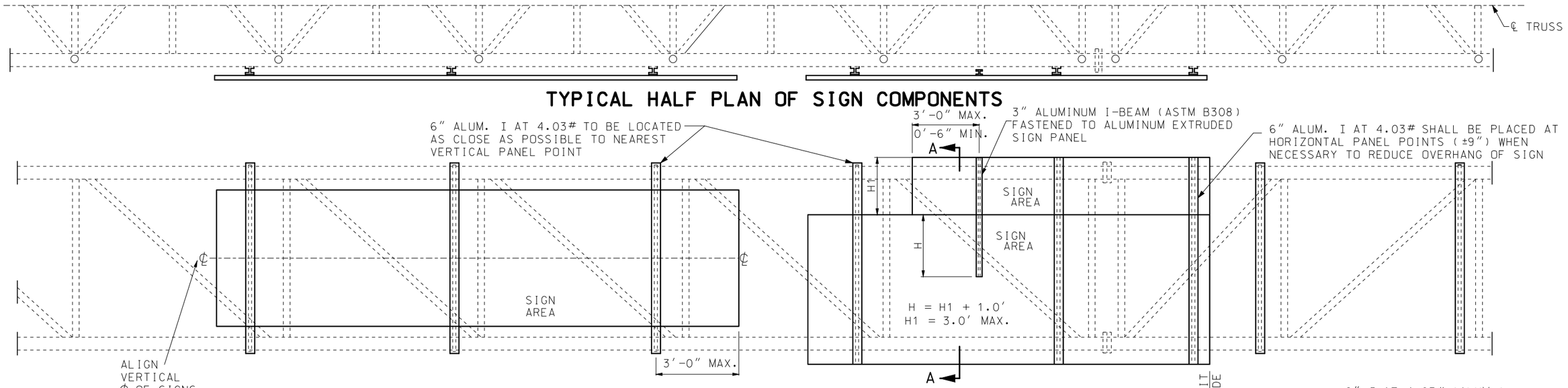
OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATE EFFECTIVE: 10/01/2016
DATE PREPARED: 8/11/2016

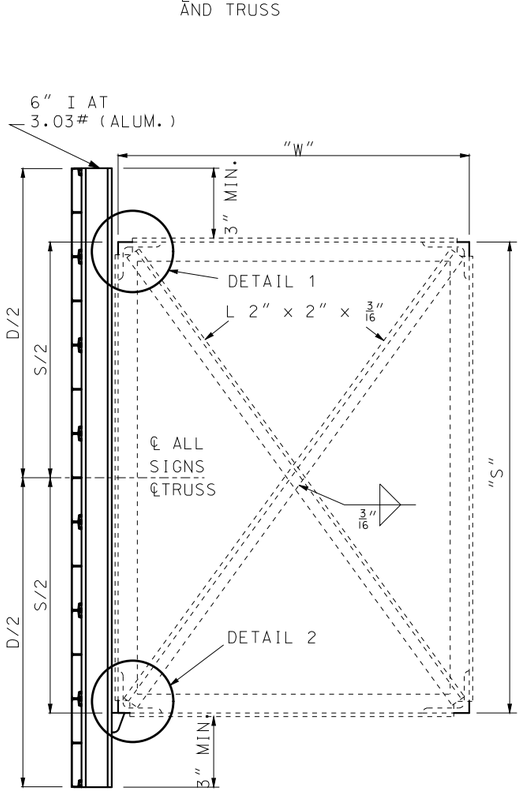
903.60AB

SHEET NO. 4 OF 5

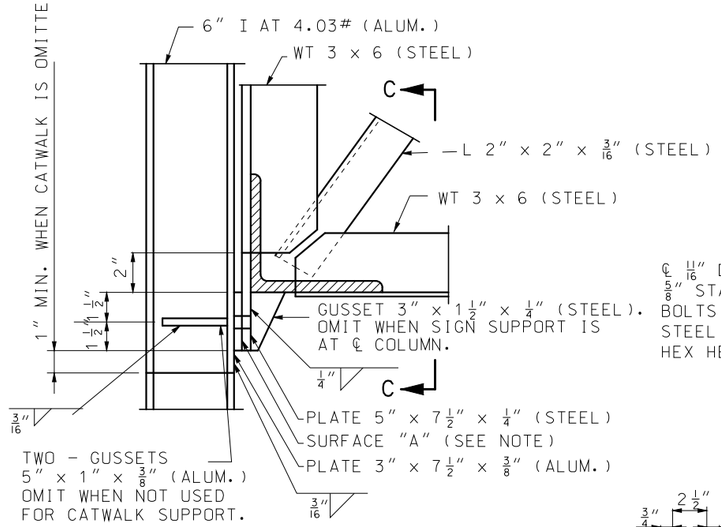


TYPICAL HALF PLAN OF SIGN COMPONENTS

TYPICAL ELEVATION OF SIGN COMPONENTS



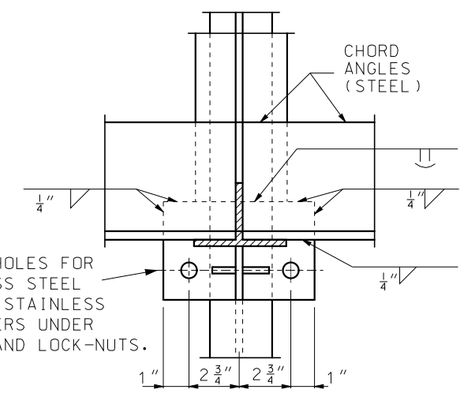
SECTION A-A



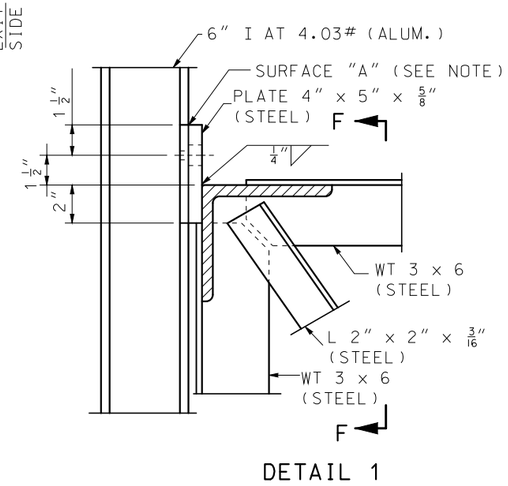
DETAIL 2

TYPICAL SECTION OF SIGN SUPPORT

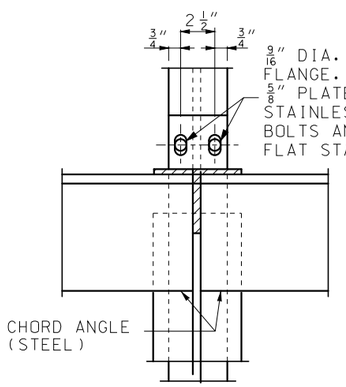
NOTE: "D" = GREATEST OVERALL DEPTH OF ANY SIGN OR SIGNS ON TRUSSES AND "S"= TRUSS DEPTH. SEE SHEET NO. 5 OF 7 FOR LOCATION OF SECTION A-A.



SECTION C-C



DETAIL 1



SECTION F-F

NOTE:
SURFACE "A", ZINC CHROMATE ON ALUMINUM SURFACES. NORMAL CLEANING AND PAINTING ON STEEL SURFACES. ZINC CHROMATE IS NOT REQUIRED WHEN STEEL IS GALVANIZED.

GENERAL NOTES:

EXIT NO. PANELS SHALL BE MOUNTED FLUSH WITH THE EXIT SIDE OF THE GUIDE SIGN.

ALL SIGNS SHALL BE CENTEREDVERTICALLY ABOUT THE HORIZONTAL ℄ OF THE TRUSS.

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SHEET NO. 5 OF 5

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