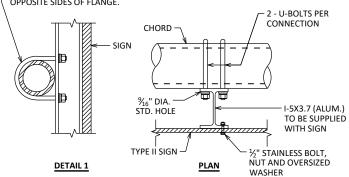


2-CHORD TRUSS SIGN CONNECTION

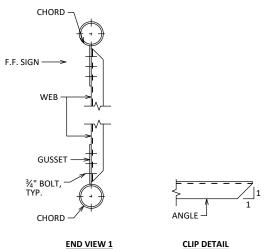
TYPE I SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7BFOR DETAILS. ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.

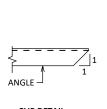
½" DIA. STAINLESS STEEL U-BOLT WITH 2 LOCK WASHERS, 2 FLAT WASHERS AND 2 HEX NUTS PER BOLT. REQUIRED PER I-BEAM, LOCATE U-BOLTS ON

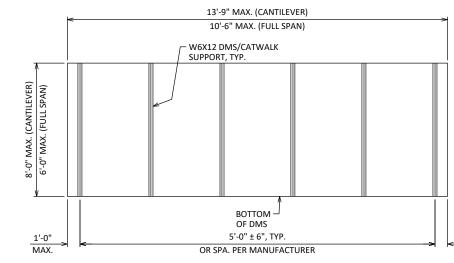


MONOTUBE SIGN CONNECTION

TYPE II SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7B FOR DETAILS. ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.







STANDARD RT OR - BACK-UP BAR **CHORD SPLICE**

STATE PROJECT NUMBER

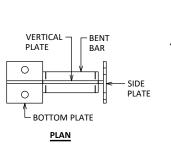
SEPARATE OPTIONAL SPLICE FROM GUSSET PLATES BY 6" MIN.

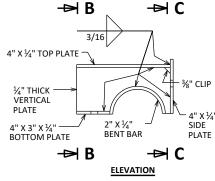
TRUSS CONNECTION DETAILS

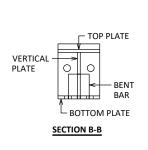
MEMBER ORIENTATION FOR BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR. ANGLES PREFERRED, OTHER WEB DESIGNS ALLOWED.

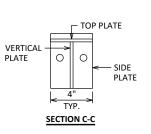
DMS MOUNTING POST DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF SPACING CONFLICTS WITH GUSSET PLATES OF TRUSS WITHIN TOLERANCES NOTED.



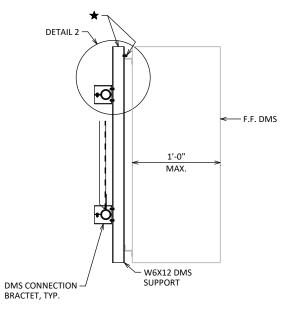






DMS WELDED PLATE CONNECTION DETAILS

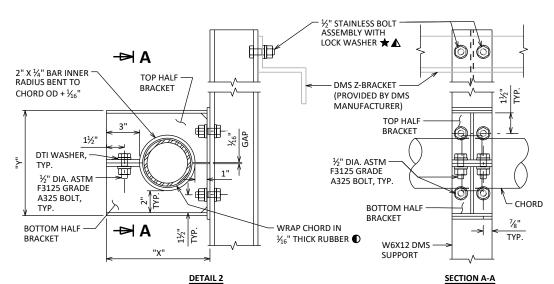
TOP HALF OF BRACKET SHOWN,





FOR DMS/CATWALK CONNECTIONS

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. ½" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12

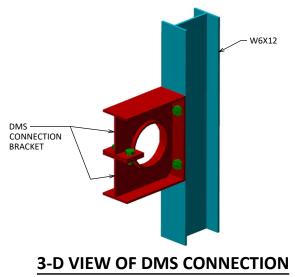


CHORD "OD"	"X"	"γ"
"OD"	"OD" + 4 ¹³ / ₁₆ "	"OD" + 5½"

TYPICAL DMS CONNECTION

NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD. SPEC. 506.2.6.1

▲ IF DMS CONNECTION BRACKET IS USED WITH A TYPE II SIGN PANEL, THE BOLT HOLE MUST BE GALVANIZED AND A STAINLESS WASHER USED BETWEEN THE I-BEAM AND SIGN PANEL.

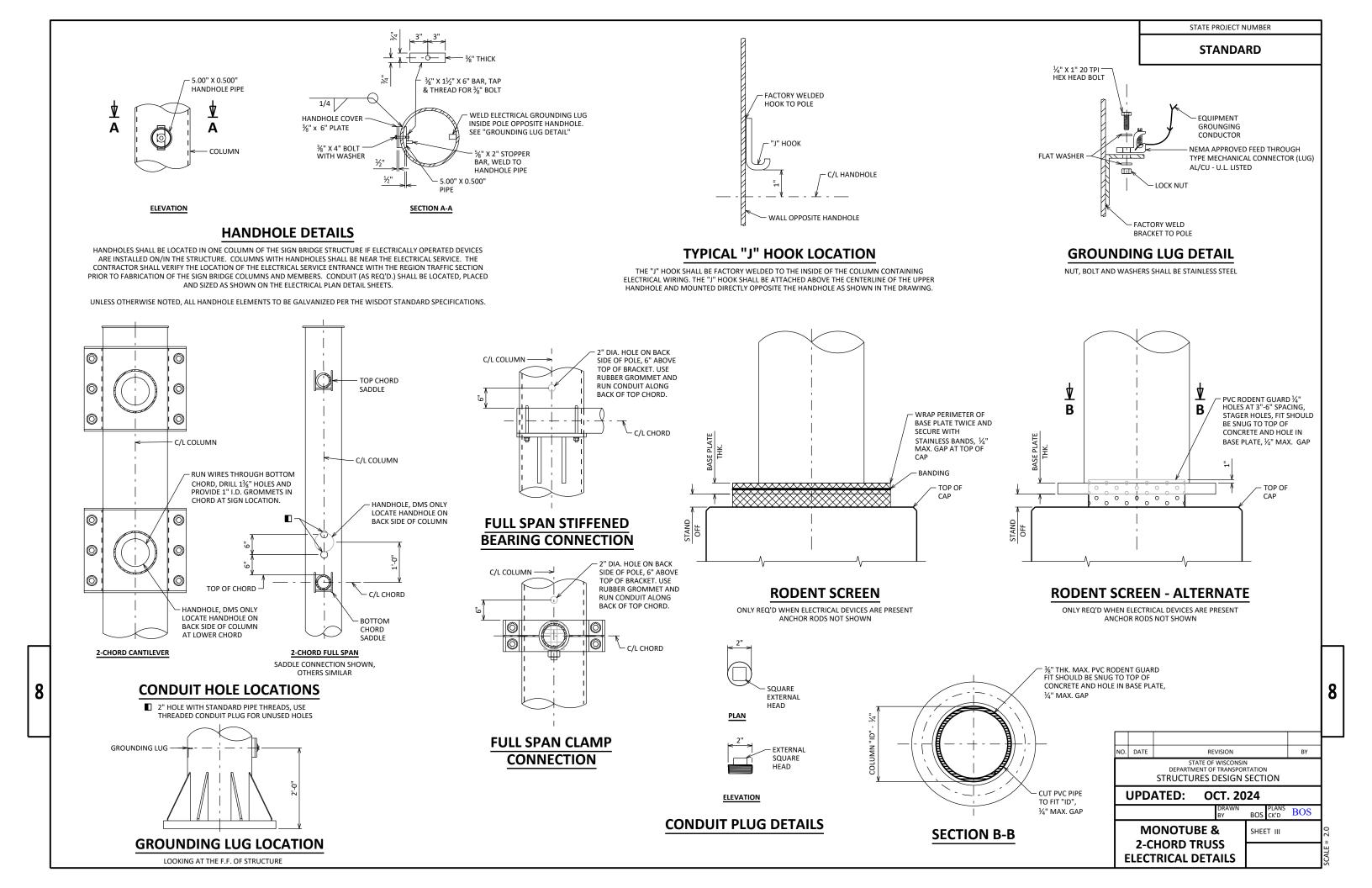


CHORD NOT SHOW FOR CLARITY



MONOTUBE & 2-CHORD TRUSS CONNECTIONS 2

SHEET II

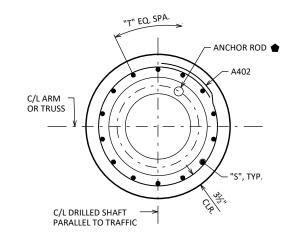


"D"/2

· C/I COLUMN & DRILLED SHAFT

TYPICAL FOR DRILLED SHAFT FOOTINGS INSTALLED ADJACENT TO

- SIDEWALKS OR BEHIND CURB AND GUTTER ON LOW SPEED ROADS. TOP OF SHAFT SHALL BE FLUSH IF SURROUNDED BY CONCRETE AND 2" ABOVE FINISHED GRADE FOR ALL OTHER SURFACES.
- ◆ TYPICAL FOR EACH DRILLED SHAFT FOOTING INSTALLED ADJACENT TO ROADWAY FACILITIES OR ON SIDE SLOPES WITHIN CLEAR ZONE. BARRIER OR BEAMGUARD MAY BE REQUIRED.



SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

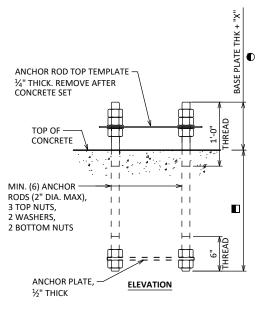
FOUNDATION DIMENSION DATA

							_				
STANDARD		FOUNDATION DIMENSIONS									
DESIGN TYPE	"A"	"D"	"L"	"R"	"S"	"T"	"ВС" МАХ.				
MFI	1'-11"	2'-6"	12'-0"	12	A801	10	1'-5"				
MCI/MCII/TFI	1'-11"	2'-6"	17'-0"	17	A801	10	1'-5"				
MFII	2'-5"	3'-0"	13'-0"	13	A801	14	1'-10"				
TCI	2'-5"	3'-0"	18'-0"	18	A801	14	1'-10"				
TFII	2'-5"	3'-0"	20'-0"	20	A801	14	1'-10"				
MCIII/TCII/TFIII	2'-11"	3'-6"	18'-0"	18	A901	14	2'-4"				
MCIV/TFIV	2'-11"	3'-6"	23'-0"	23	A901	14	2'-4"				
TCIII	3'-5"	4'-0"	23'-0"	23	A1001	14	2'-10"				
TCIV	3'-5"	4'-0"	28'-0"	28	A1001	14	2'-10"				

ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TYPE	CONCRETE MASONRY	REINFORCEMENT				
	(CY)	(LBS)	30"	36"	42"	48"
MFI	2.2	380	12			
MCI/MCII/TFI	3.1	540	17			
MFII	3.4	560		13		
TCI	4.7	780		18		
TFII	5.2	870		20		
MCIII/TCII/TFIII	6.4	980			18	
MCIV/TFIV	8.2	1,250			23	
TCIII	10.7	1,570				23
TCIV	13.0	1,910				28

* * QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON A SINGLE * * DRILLED SHAFT. MULTIPLY BY 2 FOR FULL SPAN STRUCTURES.



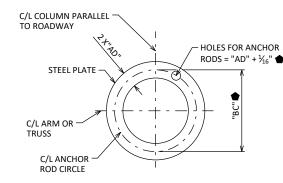
ANCHOR ROD ASSEMBLY DETAILS

■ ANCHOR RODS PER ASSEMBLY TO BE DESIGNED BY CONTRACTOR AND SHOWN ON SHOP DRAWINGS. SHOW DIAMETER, NUMBER, ORIENTATION AND EMBEDMENT OF ANCHOR RODS.

CENTER ANCHOR ROD ASSEMBLY AND ENSURE ASSEMBLY IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHORS.

ANCHOR DIAMETER	MAX. STICK OUT ⊕
"AD"	"X"
1"	5"
11/4"	6"
1½"	7"
13/4"	8"
2"	9"

ADD BASE PLATE THICKNESS TO VALUE SHOWN FOR MAX. STICK OUT DIMENSION. CONTRACTOR TO COORDINATE WITH FABRICATOR FOR PROPER ANCHOR PLACEMENT



ANCHOR PLATE &

♠ ANCHOR SIZE, BOLT CIRCLE, AND POSITION TO BE VERIFIED WITH SHOP DRAWINGS.

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BILL OF BARS

STANDARD

STATE PROJECT NUMBER

STANDA	ARD	TYPE MF	<u> </u>			
BAR MARK	СОАТ	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	11'-8"			DRILLED SHAFT - VERTICAL

A402 13 7'-6" X STANDARD TYPES MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-8"			DRILLED SHAFT - VERTICAL
A402		18	7'-6"	Х		DRILLED SHAFT - HORIZONTAL

DRILLED SHAFT - HORIZONTAL

STANDARD TYPE MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	12'-8"			DRILLED SHAFT - VERTICAL
A402		14	9'-1"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	9'-1"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-8"			DRILLED SHAFT - VERTICAL
A402		21	9'-1"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	10'-7"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	10'-7"	Χ		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIV

	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION	
Ī	A1001		14	27'-8"			DRILLED SHAFT - VERTICAL	
[A402		29	12'-2"	Х		DRILLED SHAFT - HORIZONTAL	

^{*} VALUES IN BAR TABLES ARE FOR A SINGLE FOUNDATION ONLY. MULTIPLY BY 2 FOR FULL * *

A402

LEGEND

ANCHOR ROD STICK OUT IN FINAL CONDITION. EXCESSIVE STICK OUT BEYOND DIMENSION SHOWN TO BE CUT OFF AFTER PLACING STRUCTURE. ANCHORS TO BE ULTRASONIC TESTED TO DETERMINE EMBEDDED LENGTH MEETS REQUIREMENTS PRIOR TO CUTTING. NOTE REMAINING LENGTH ON AS-BUILT.

▲ 2 - 2" DIA. NON-METALLIC CONDUITS. INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY				
		STATE OF WISCONSIN					
		DEPARTMENT OF TRANSPORTATION					
		STRUCTURES DESIGN SECTION					

UPDATED: OCT. 2024

	BY	BOS	CK'D	BOS	l
MONOTUBE 8	χ.	SHEE	T IV		

2-CHORD TRUSS FOUNDATIONS

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