

# ANGLE CENTER OF GRAVITY ANGLE CENTER OF GRAVITY TRANSVERSE DIAGONAL (IN ANOTHER PLANE) E ANGLE CENTER OF GRAVITY WEB WORKING POINT

**WELDED PANEL CONNECTION** 

# ANGLE CENTER OF GRAVITY WE GUSSET PL. TRANSVERSE DIAGONAL 1½" MIN. TYP. C/L CHORD WORKING POINT

# C/L COLUMN & DRILLED SHAFT 1/2" X 6" X 1'-2" BASE PLATE STIFFENER

#### ANCHOR RODS, FOR DETAILS SEE

TOP OF CAP

### "FOUNDATION DETAILS" SHEETS BASE PLATE & COLUMN DETAIL

LOOKING AT F.F. OF STRUCTURE

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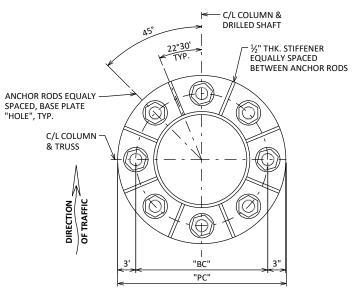
STATE PROJECT NUMBER

**STANDARD** 

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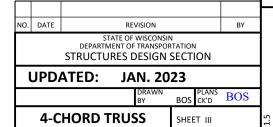
### BASE PLATE

PLAN

#### **CANTILEVER 4-CHORD COLUMN DATA**

STANDARD	COLUMN		BASE PLATE				
DESIGN TYPE	"OD" X THK	"ТНК"	"T <sub>W1</sub> "	"HOLE"	"BC"	"PC"	
ı	20.00" X 0.500"	2"	5/16"	21/4"	2'-2"	2'-8"	
II	24.00" X 0.500"	2½"	5∕ <sub>16</sub> "	21/4"	2'-6"	3'-0"	

CANTILEVER CONNECTIONS 2



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#### WELDED BOXED END CONNECTION

CONNECTION SHOWN AT CHORD SPLICE, CONNECTION AT COLUMN END SIMILAR

- ANGLE CENTER

OF GRAVITY

WORKING POINT

- BACK-UP BAR

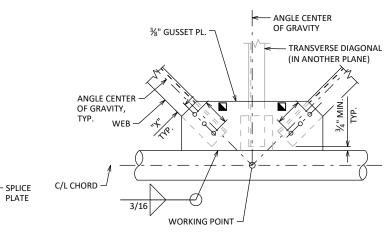
**OPTIONAL COLUMN** 

**OR CHORD SPLICE** 

**DETAIL** 

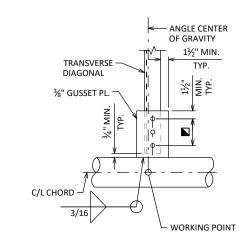
100% RT OR

C/L BOLT



#### WELDED TRANSVERSE DIAGONAL CONNECTION

WEB MEMBERS NOT SHOWN FOR CLARITY



**BOLTED TRANSVERSE DIAGONAL CONNECTION** 

WEB MEMBERS NOT SHOWN FOR CLARITY

## BOXED END 1½" MIN. TYP. ANGLE CENTER OF GRAVITY WEB

#### **BOLTED BOXED END CONNECTION**

CONNECTION SHOWN AT CHORD SPLICE, CONNECTION AT COLUMN END SIMILAR

#### **BOLTED PANEL CONNECTION**

MEMBER CONNECTION DATA						
STANDARD DESIGN	WELD LEG MIN. LENGTH	NO. OF BOLTS				
TYPE	lack					
			1			

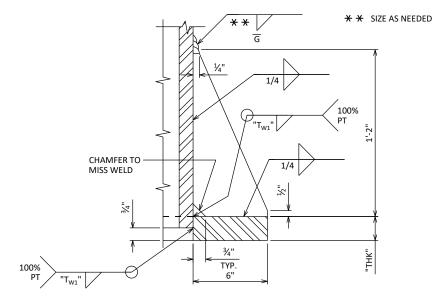
FOR ALL ANGLE TO GUSSET CONNECTIONS, BOLT SPACING =  $2\frac{1}{2}$ "

- ANGLE CENTER OF

GRAVITY



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#### **BASE PLATE STIFFENER DETAIL**

#### NOTE:

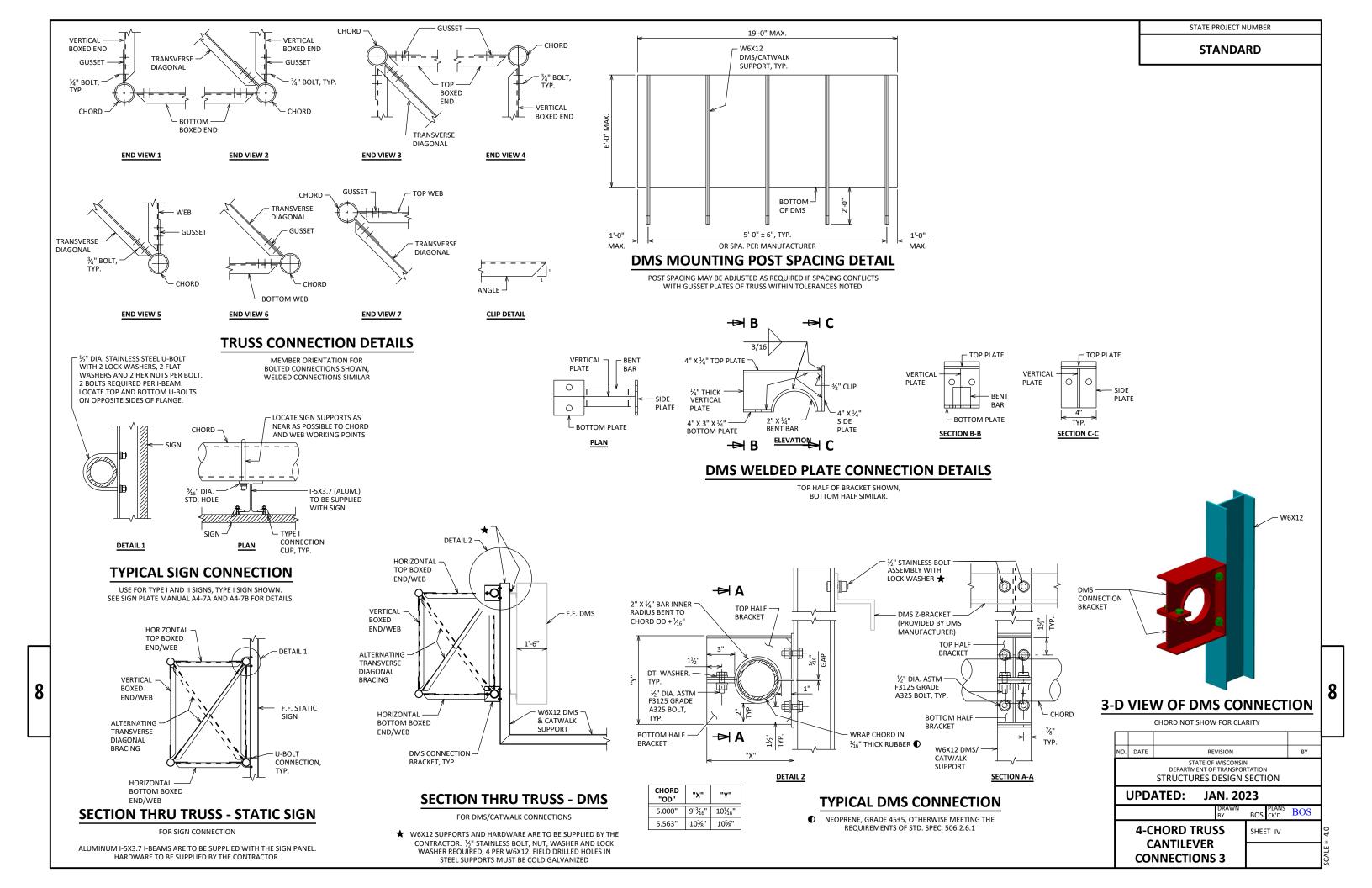
RECTANGULAR GUSSET PLATES IN LIEU OF MITERED PLATES SHOWN IN THESE DETAILS.

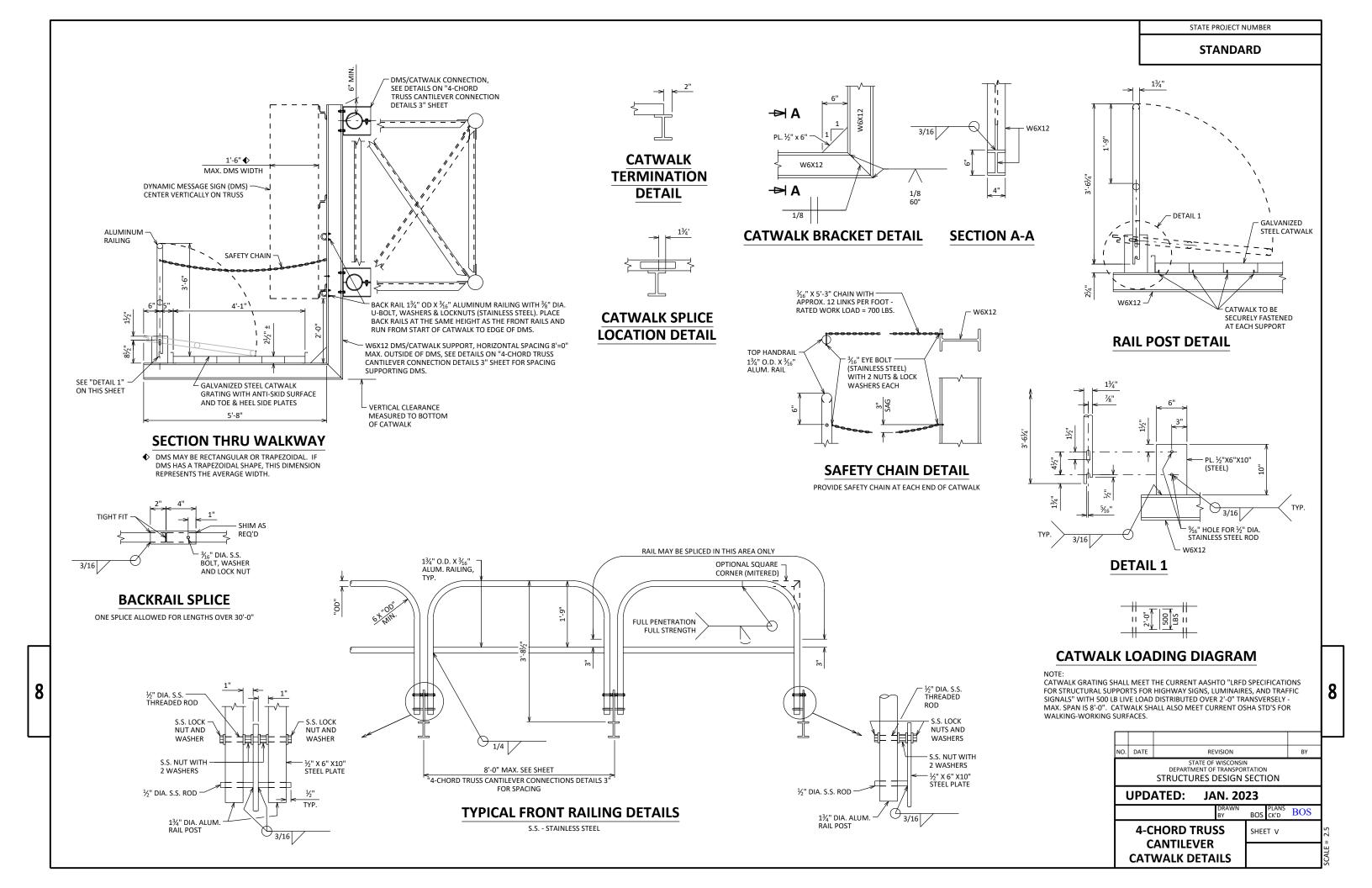
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SEPARATE OPTIONAL

SPLICE FROM GUSSET

PLATES BY 6" MIN.

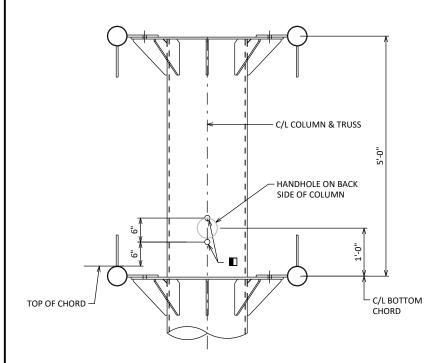




#### **HANDHOLE DETAILS**

HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

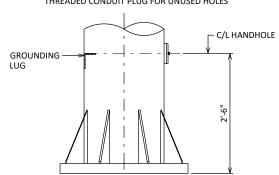
UNLESS OTHERWISE NOTED, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



#### **CONDUIT HOLE LOCATIONS**

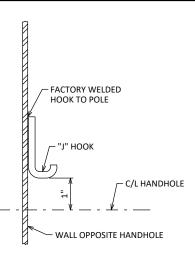
LOOKING AT INSIDE FACE OF COLUMN

2" HOLE WITH STANDARD PIPE THREADS, USE THREADED CONDUIT PLUG FOR UNUSED HOLES



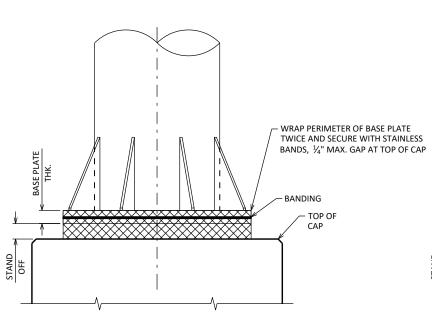
**GROUNDING LUG LOCATION** 

LOOKING AT INSIDE F.F. OF STRUCTURE



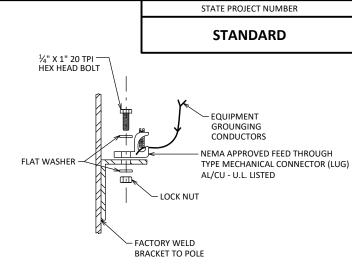
#### TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



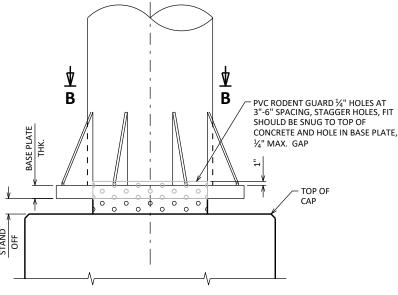
#### **RODENT SCREEN**

ONLY REQ'D WHEN ELECTRICAL DEVICES ARE PRESENT



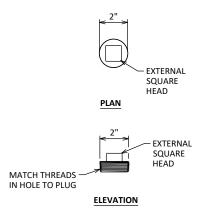
#### **GROUNDING LUG DETAIL**

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

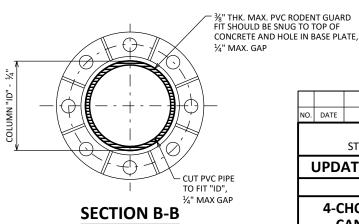


#### **RODENT SCREEN - ALTERNATE**

ONLY REQ'D WHEN ELECTRICAL DEVICES ARE PRESENT ANCHOR RODS NOT SHOWN



**CONDUIT PLUG DETAILS** 



NO. DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION **UPDATED:** JAN. 2023 **4-CHORD TRUSS** SHEET VI **CANTILEVER** 

**ELECTRICAL DETAILS** 

