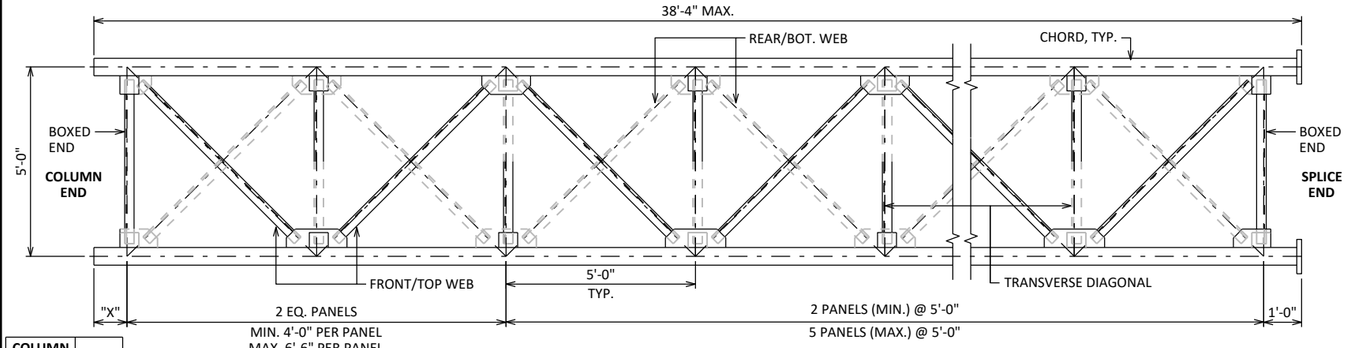
STATE PROJECT NUMBER

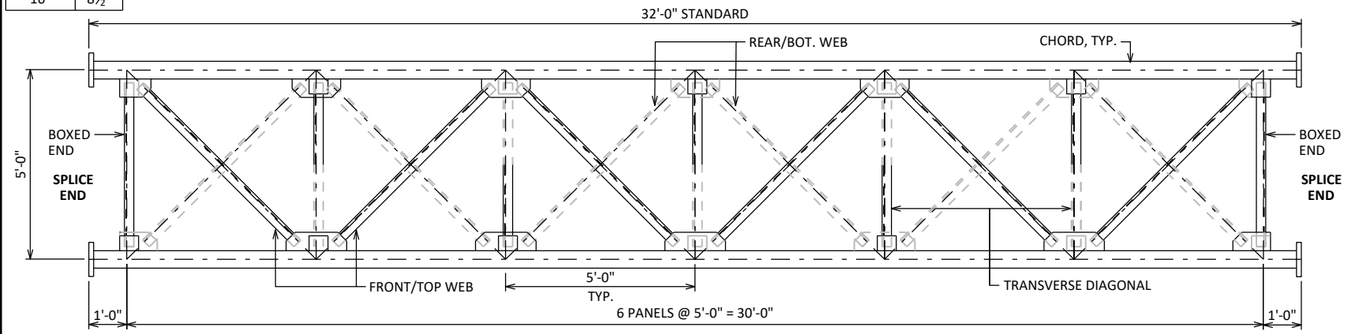
**STANDARD**




| COLUMN "OD" | "X" |
|---|---|
| 12¾" | 10⅛" |
| 14" | 9½" |
| 16" | 8½" |

## END TRUSS SECTION

◐ LOOKING AT F.F., TOP SIMILAR



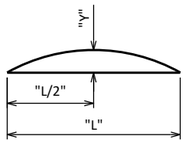

## CENTER TRUSS SECTION

◐ LOOKING AT F.F., TOP SIMILAR.

## CAMBER VALUES

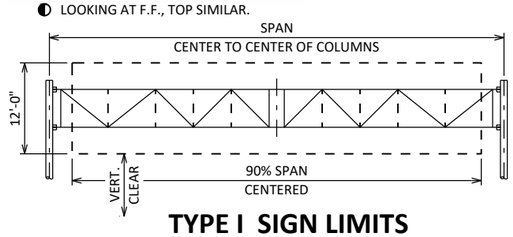
| SPAN "L" | "Y" | |
|---|---|---|
| | TYPE I | DMS |
| 60'-0" | 1" | 1¼" |
| 82'-0" | 1½" | 1⅞" |
| 102'-0" | 2⅛" | 2⅝" |
| 114'-0" | 2⅝" | 3¼" |
| 130'-0" | 3¼" | 4" |

INTERPOLATE FOR VALUES NOT SHOWN.
DMS VALUES INCLUDE DL OF CATWALK.

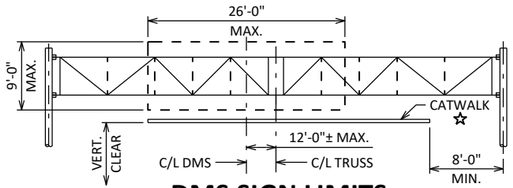



## CAMBER DIAGRAM

CAMBER SHALL BE BUILT INTO THE TRUSS DURING FABRICATION. SHIM PLATES BETWEEN TRUSS SECTIONS TO CREATE CAMBER SHALL NOT BE ALLOWED.

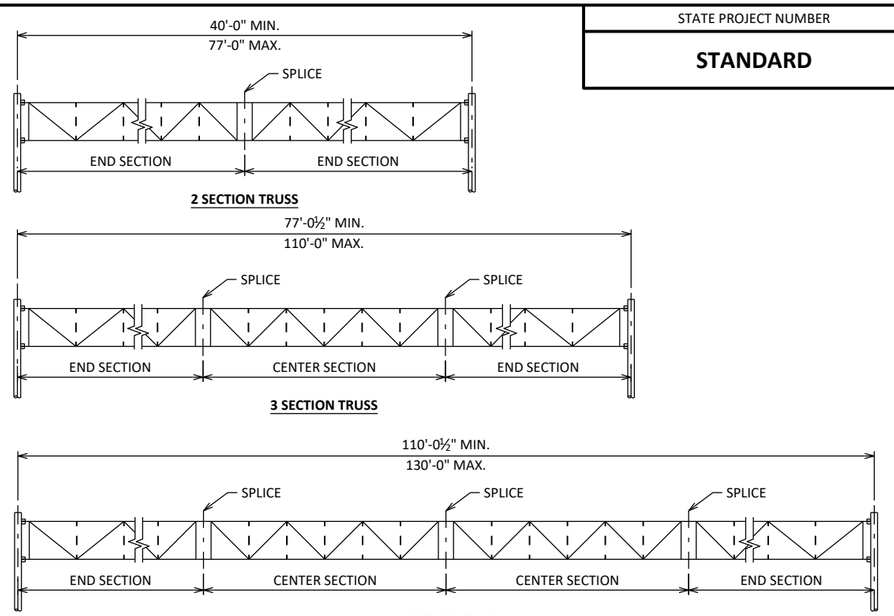



## TYPE I SIGN LIMITS



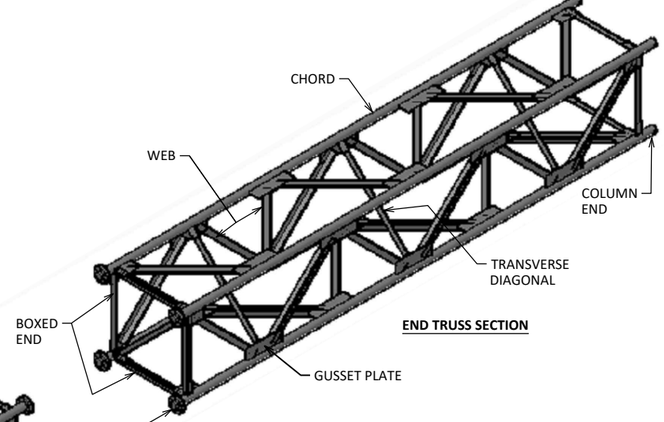

## DMS SIGN LIMITS

4,500 LB MAX DMS WEIGHT, INCLUDES DMS VERTICAL SUPPORT MEMBERS

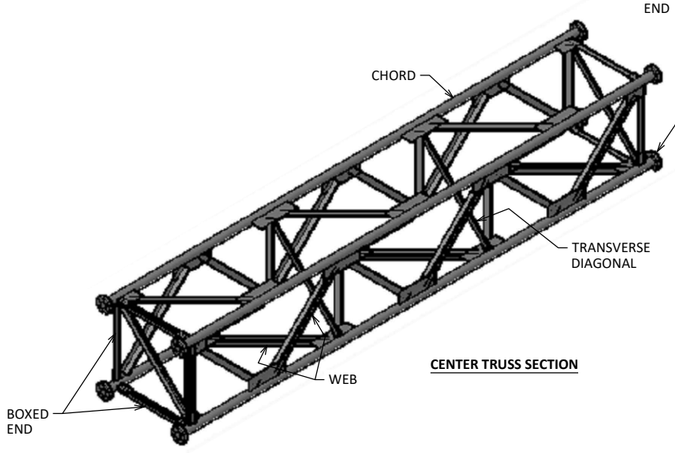



## TRUSS CONFIGURATIONS

TRUSS SYMETRICAL ABOUT C/L OF SPAN




END TRUSS SECTION




CENTER TRUSS SECTION

## TYPICAL TRUSS SECTION

◐ THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES. INTERIOR DIAGONALS SHOULD CONNECT TO TOP AND BOTTOM TRUSS WEB PANEL POINTS.

## FULL SPAN 4-CHORD TRUSS MEMBER TABLE

| STANDARD DESIGN TRUSS | TYPE I SIGN AREA (SQ. FT) | DMS AREA (SQ. FT.) | MAXIMUM SPAN | CHORD "OD" X THK | WEB W X D X THK | BOXED END W X D X THK | TRANSVERSE DIAGONAL W X D X THK | SPLICE PLATE "OD" X THK | CHORD SPLICE NO. ¾" BOLTS |
|---|---|---|---|---|---|---|---|---|---|
| I | 648 | 234 | 60'-0" | 5.563" X 0.258" | L3½ X 3½ X 5/16 | L3 X 3 X ¼ | L3 X 3 X ¼ | 11⅝" X 1½" | 8 |
| II | 885 | 234 | 82'-0" | 5.563" X 0.375" | L3½ X 3½ X ⅜ | L3 X 3 X ¼ | L3 X 3 X ¼ | 11⅝" X 1½" | 8 |
| III | 1102 | 234 | 102'-0" | 5.563" X 0.500" | L4 X 4 X ⅜ | L3 X 3 X ¼ | L3 X 3 X ¼ | 11⅝" X 1½" | 8 |
| IV | 1232 | 234 | 114'-0" | 6.625" X 0.375" | L4 X 4 X 7/16 | L3 X 3 X ¼ | L3 X 3 X ¼ | 1'-0⅝" X 1½" | 8 |
| V | 1404 | 234 | 130'-0" | 6.625" X 0.500" | L4 X 4 X ½ | L3 X 3 X ¼ | L3 X 3 X ¼ | 1'-0⅝" X 1½" | 8 |

## LEGEND

☆ FOR OSS WITH DMS ONLY, SEE "CATWALK DETAILS" SHEET.

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: JAN. 2023**

DRAWN BY BOS | PLANS CK'D BOS

**4-CHORD TRUSS FULL SPAN DETAILS**

SHEET I

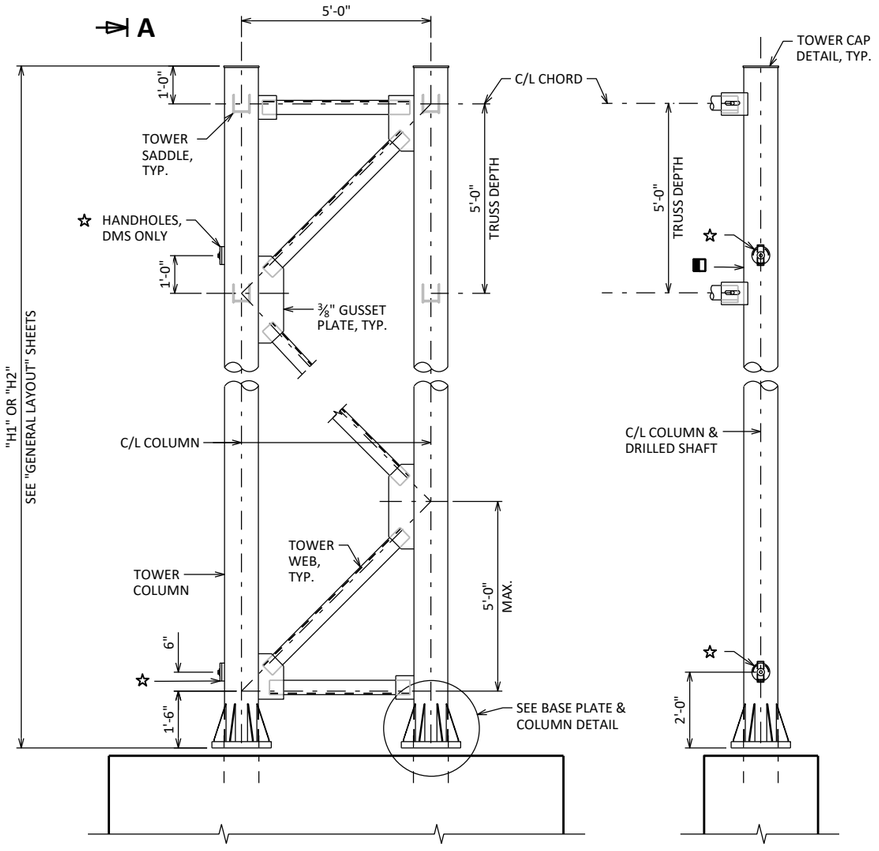
SCALE = 4.0

8

8

STATE PROJECT NUMBER

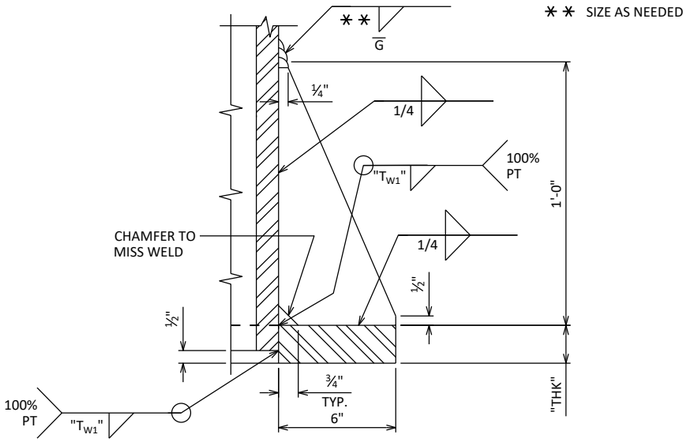
**STANDARD**



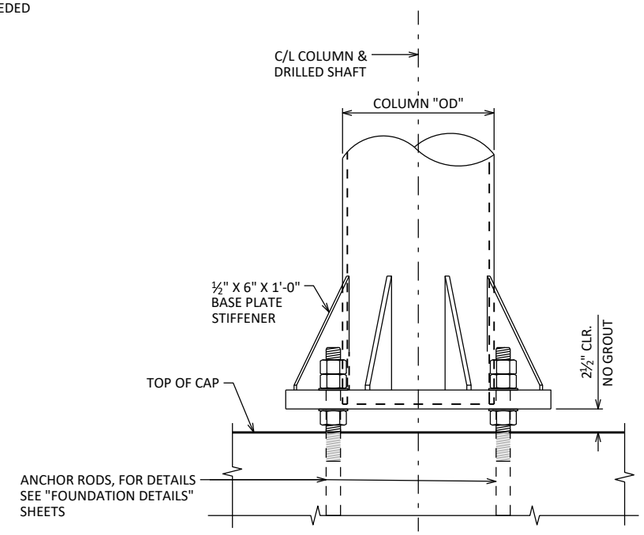

A

## END VIEW COLUMN TRUSS

LOOKING AT OUTSIDE FACE OF COLUMN

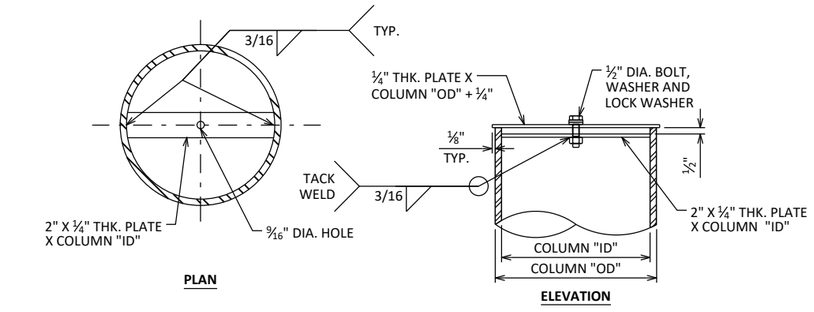



## BASE PLATE STIFFENER DETAIL



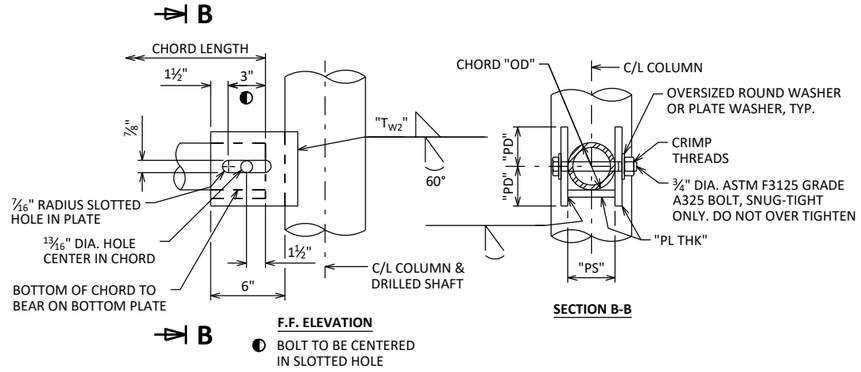

## BASE PLATE & COLUMN DETAIL

LOOKING AT F.F. OF STRUCTURE




## TOWER CAP DETAIL

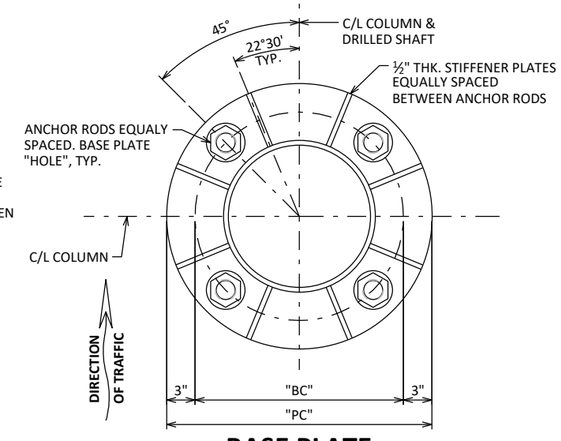
B




B

## TOWER SADDLE CONNECTION DETAILS

BOLT AND HOLE DIMENSIONS SHOWN ARE MINIMUM




## BASE PLATE

PLAN

## SECTION A-A

LOOKING AT F.F. OF STRUCTURE, OTHER COLUMN TRUSS SIMILAR

## FULL SPAN 4-CHORD COLUMN MEMBER TABLE

| STANDARD DESIGN TYPE | MAXIMUM COLUMN HEIGHT | COLUMN "OD" X THK | WEB W X D X THK | STIFFENER THK X W X D | BASE PLATE | | | | | TOWER SADDLE CONNECTION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $T_{W1}$ | "HOLE" | "THK" | "BC" | "PC" | $T_{W2}$ | "PL THK" | "PS" | "PD" |
| I | 31'-0" | 12¾" X 0.250" | L3½ X 3½ X ⅜ | ½" X 6" X 1'-0' | 5/16" | 1 13/16" | 2" | 1'-6¾" | 2'-0¾" | ¼" | ⅜" | 5¾" | 3 9/16" |
| II | 31'-0" | 12¾" X 0.375" | L4 X 4 X ⅜ | ½" X 6" X 1'-0' | 5/16" | 1 13/16" | 2" | 1'-6¾" | 2'-0¾" | ¼" | ⅜" | 5¾" | 3 9/16" |
| III | 31'-0" | 12¾" X 0.500" | L4 X 4 X ½ | ½" X 6" X 1'-0' | 5/16" | 2 1/16" | 2" | 1'-6¾" | 2'-0¾" | ¼" | 7/16" | 5¾" | 3 9/16" |
| IV | 31'-0" | 14" X 0.500" | L5 X 5 X 7/16 | ½" X 6" X 1'-0' | 5/16" | 2 1/16" | 2" | 1'-8" | 2'-2" | ¼" | 7/16" | 6 13/16" | 4 1/16" |
| V | 31'-0" | 16" X 0.500" | L5 X 5 X ½ | ½" X 6" X 1'-0' | 5/16" | 2 1/16" | 2" | 1'-10" | 2'-4" | ¼" | ½" | 6 13/16" | 4 1/16" |

## LEGEND

☆ FOR OSS WITH DMS ONLY, PROVIDE HANDHOLES AT COLUMN ADJACENT TO DMS. SEE "ELECTRICAL DETAILS" SHEET.

◧ FOR OSS WITH DMS ONLY, DRILL AND TAP FOR 2 - 2" STD. PIPE THREADS. LOCATE CENTER OF BOTTOM HOLE 6" ABOVE TOP OF BOTTOM CHORD AND SPACE VERTICALLY AT 6" C/C. PLACE CONDUIT PLUG IN HOLES THAT ARE NOT USED FOR WIRING SIGN PANELS. SEE "ELECTRICAL DETAILS" SHEET.

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: MARCH 2023**

DRAWN BY BOS | PLANS CK'D BOS

**4-CHORD TRUSS FULL SPAN COLUMN DETAILS**

SHEET II

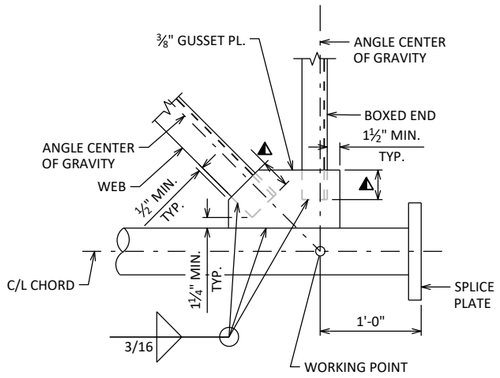
SCALE = 4.0

8

8

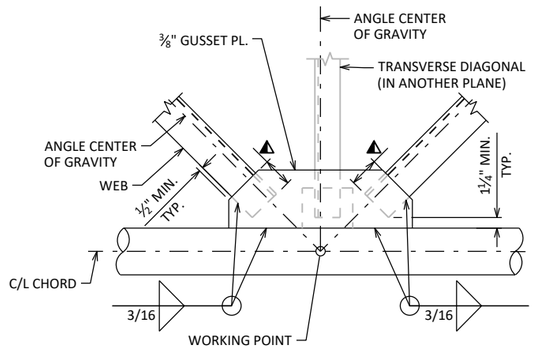
STATE PROJECT NUMBER

**STANDARD**

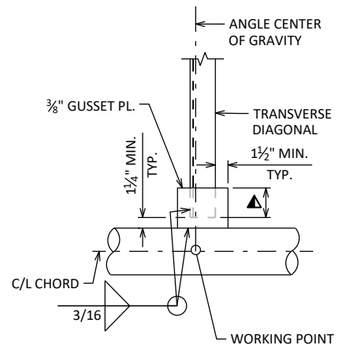



## WELDED BOXED END CONNECTION

CONNECTION SHOWN AT CHORD SPLICE,
CONNECTION AT COLUMN END SIMILAR




## WELDED PANEL CONNECTION




## WELDED TRANSVERSE DIAGONAL CONNECTION

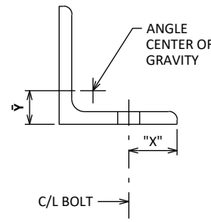
WEB MEMBERS NOT SHOWN FOR CLARITY

## MEMBER CONNECTION DATA

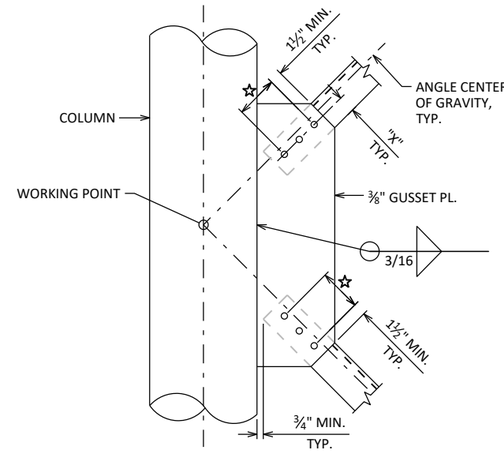
| STANDARD DESIGN TYPE | WELD LEG MIN. LENGTH | | NO. OF BOLTS | |
|---|---|---|---|---|
| | ◭ | ◐ | ◪ | ☆ |
| I | 3" | 4" | 3 | 3 |
| II | 3½" | 6" | 3 | 3 |
| III | 3½" | 6" | 5 | 3 |
| IV | 4" | 6¼" | 5 | 4 |
| V | 4½" | 7¼" | 5 | 4 |

FOR ALL ANGLE TO GUSSET CONNECTIONS,
BOLT SPACING = 2½"

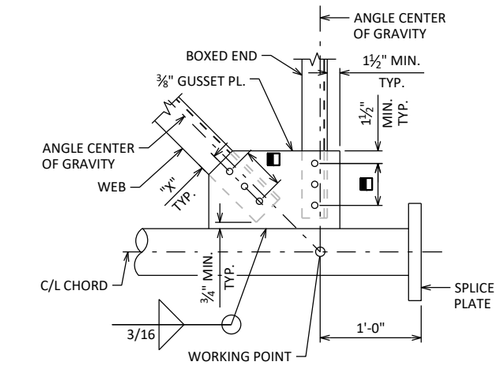
## ANGLE DATA




| ANGLE SIZE | ȳ | "X" |
|---|---|---|
| L3 X 3 X ¼ | 0.84" | 1¼" |
| L3½ X 3½ X 5⁄16 | 0.98" | 1½" |
| L3½ X 3½ X ⅜ | 1.00" | 1½" |
| L4 X 4 X ⅜ | 1.13" | 1½" |
| L4 X 4 X 7⁄16 | 1.15" | 1½" |
| L4 X 4 X ½ | 1.18" | 1½" |
| L5 X 5 X 7⁄16 | 1.40" | 2" |
| L5 X 5 X ½ | 1.42" | 2" |

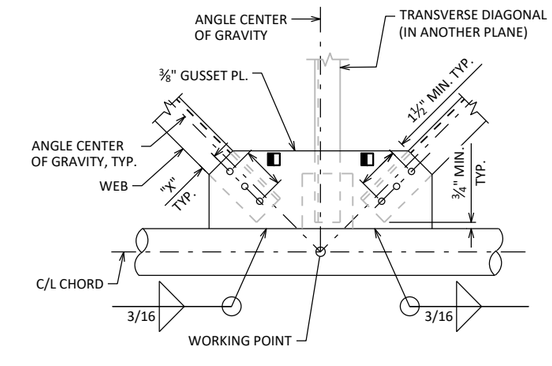



## BOLTED COLUMN WEB CONNECTION

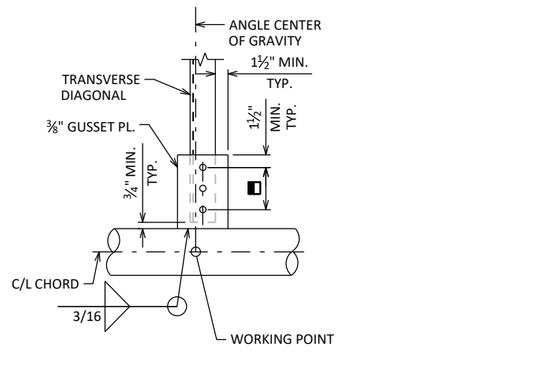



## BOLTED BOXED END CONNECTION

CONNECTION SHOWN AT CHORD SPLICE,
CONNECTION AT COLUMN END SIMILAR

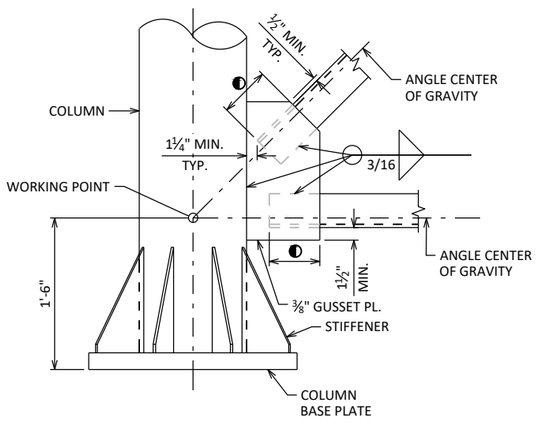



## BOLTED PANEL CONNECTION



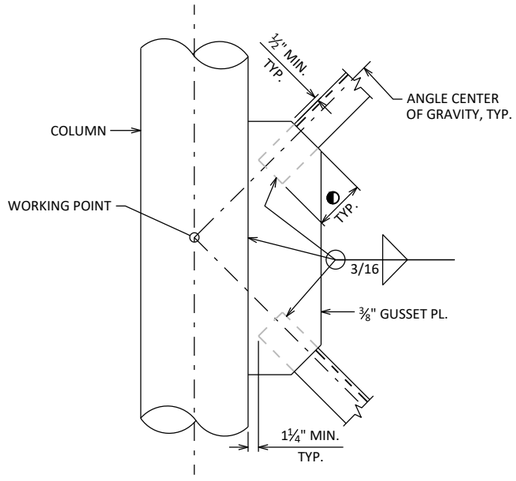

## BOLTED TRANSVERSE DIAGONAL CONNECTION

WEB MEMBERS NOT SHOWN FOR CLARITY

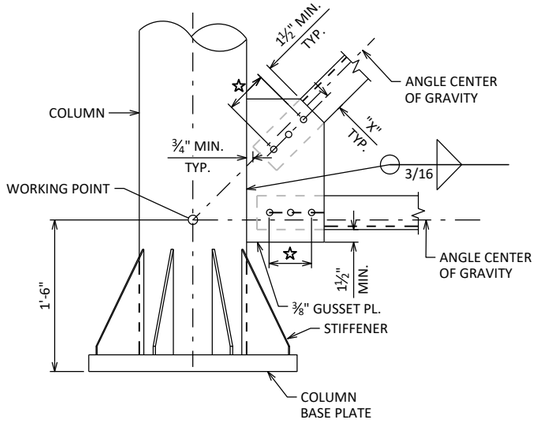



## WELDED COLUMN BOTTOM CONNECTION

TOP CONNECTION SIMILAR




## WELDED COLUMN WEB CONNECTION




## BOLTED COLUMN BOTTOM CONNECTION

TOP CONNECTION SIMILAR

## NOTE:

FABRICATOR HAS THE OPTION TO USE NON-MITERED RECTANGULAR GUSSET PLATES IN LIEU OF MITERED PLATES SHOWN IN THESE DETAILS.

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: JAN. 2023**

DRAWN BY: BOS
PLANS CK'D: BOS

**4-CHORD TRUSS FULL SPAN CONNECTIONS 1**

SHEET III

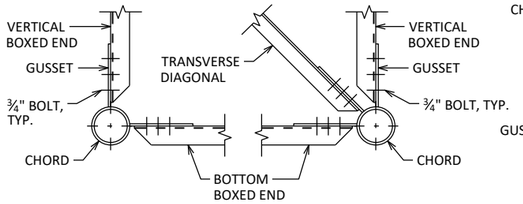
SCALE = 3.0

8

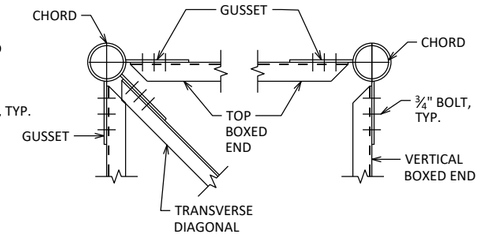
8

STATE PROJECT NUMBER

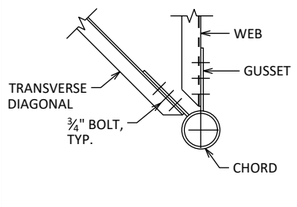
**STANDARD**



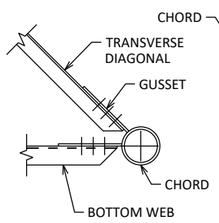

**END VIEW 1** **END VIEW 2**



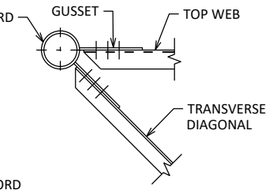

**END VIEW 3** **END VIEW 4**



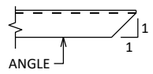

**END VIEW 5**



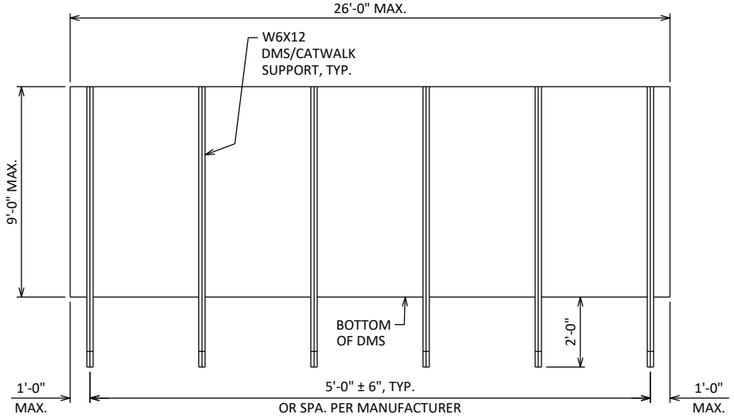

**END VIEW 6**




**END VIEW 7**

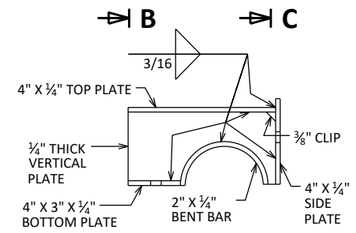



**CLIP DETAIL**




## DMS MOUNTING POST SPACING DETAIL

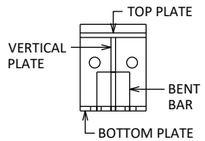
POST SPACING MAY BE ADJUSTED AS REQUIRED IF SPACING CONFLICTS WITH GUSSET PLATES OF TRUSS WITHIN TOLERANCES NOTED.




**ELEVATION**




**PLAN**




**SECTION B-B**




**SECTION C-C**

## DMS WELDED PLATE CONNECTION DETAILS

TOP HALF OF BRACKET SHOWN, BOTTOM HALF SIMILAR.




**DETAIL 2**

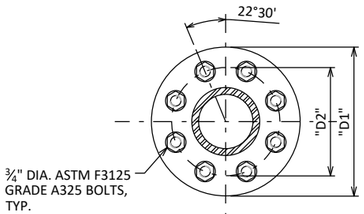


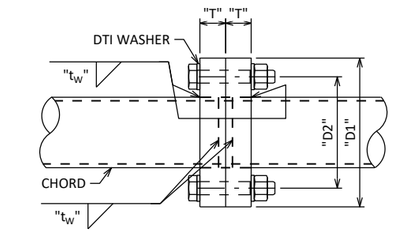

**SECTION A-A**

| CHORD "OD" | "X" | "Y" |
|---|---|---|
| 5.563" | 10⅜" | 10⅝" |
| 6.625" | 11⅞" | 11¹¹⁄₁₆" |

## TYPICAL DMS CONNECTION

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

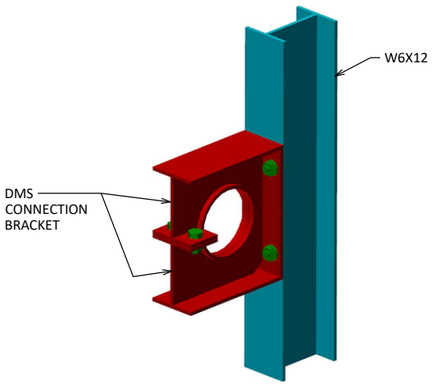



## CHORD SPLICE PLATE DETAIL

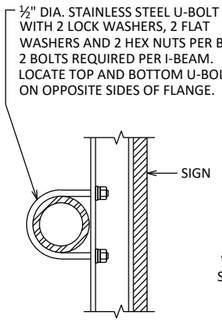
## CHORD SPLICE CONNECTION DATA

| STANDARD DESIGN TYPE | "D1" | "D2" | "T" | "tw" | NO. OF BOLTS |
|---|---|---|---|---|---|
| I | 11⅝" | 8⅝" | 1½" | 5/16" | 8 |
| II | 11⅝" | 8⅝" | 1½" | 5/16" | 8 |
| III | 11⅝" | 8⅝" | 1½" | ⅜" | 8 |
| IV | 1'-0⅝" | 9⅝" | 1½" | ⅜" | 8 |
| V | 1'-0⅝" | 9⅝" | 1½" | ⅜" | 8 |

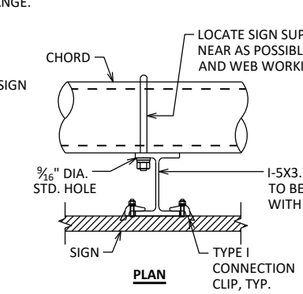



## 3-D VIEW OF DMS CONNECTION

CHORD NOT SHOW FOR CLARITY



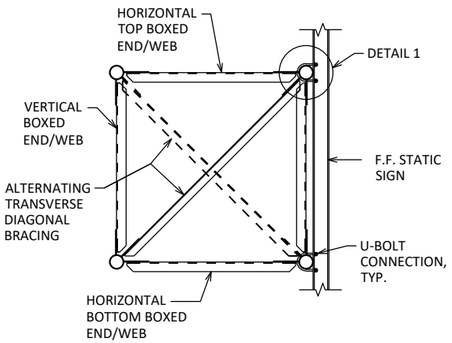

**DETAIL 1**




**PLAN**

## TYPICAL SIGN CONNECTION

USE FOR TYPE I AND II SIGNS, TYPE I SIGN SHOWN.
SEE SIGN PLATE MANUAL A4-7A AND A4-7B FOR DETAILS.



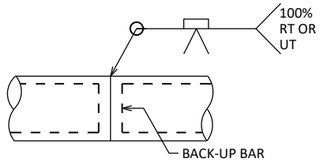

## SECTION THRU TRUSS - STATIC SIGN

FOR SIGN CONNECTION

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL. HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.

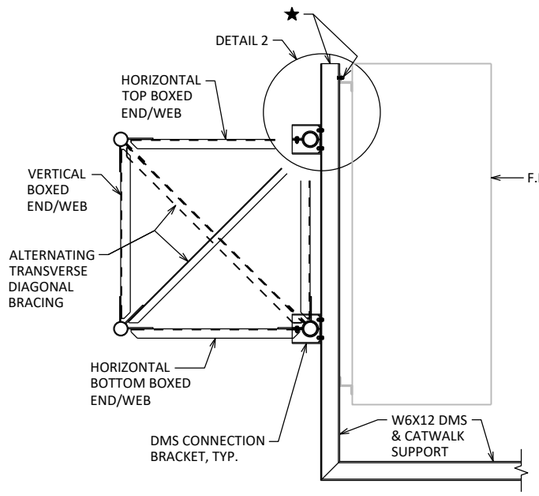
## TRUSS CONNECTION DETAILS

MEMBER ORIENTATION FOR BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR




## CHORD SPLICE

NOT TO BE USED AT ENDS OF TRUSS SEGMENTS.




## SECTION THRU TRUSS - DMS

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. FIELD DRILLED HOLES IN STEEL SUPPORTS MUST BE COLD GALVANIZED.

| NO. | DATE | REVISION | BY |
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| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: JAN. 2023**

DRAWN BY BOS | PLANS CK'D BOS

**4-CHORD TRUSS FULL SPAN CONNECTIONS 2**

SHEET IV

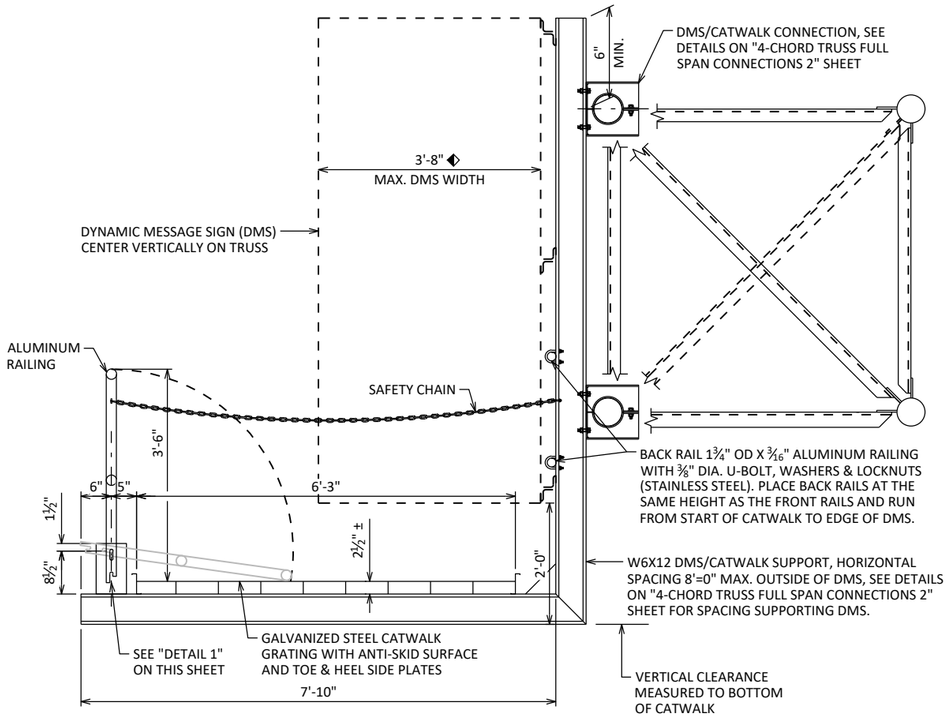
SCALE = 4.0

8

8

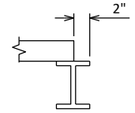
STATE PROJECT NUMBER

**STANDARD**

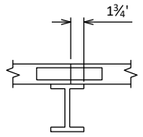



## SECTION THRU WALKWAY

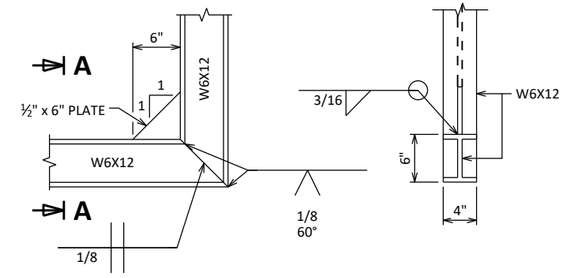
◆ DMS MAY BE RECTANGULAR OR TRAPEZOIDAL. IF DMS HAS A TRAPEZOIDAL SHAPE, THIS DIMENSION REPRESENTS THE AVERAGE WIDTH.




## CATWALK TERMINATION DETAIL

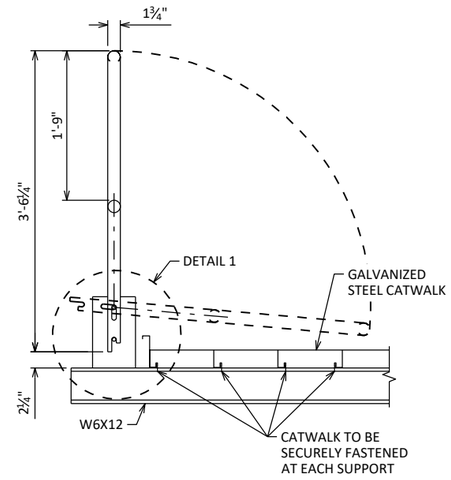



## CATWALK SPLICE LOCATION DETAIL

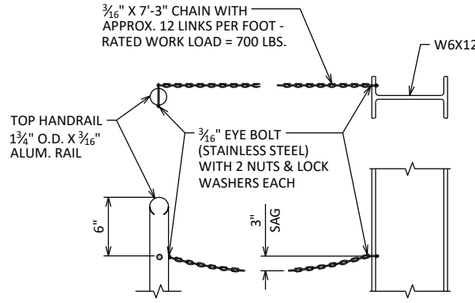



## CATWALK BRACKET DETAIL

## SECTION A-A

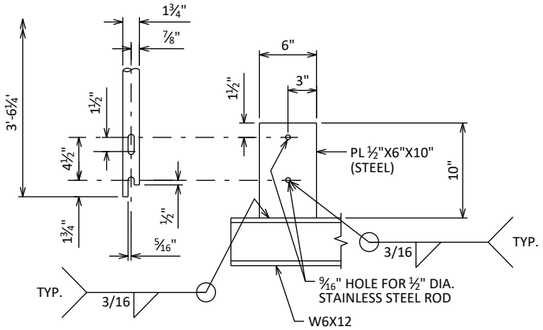



## RAIL POST DETAIL

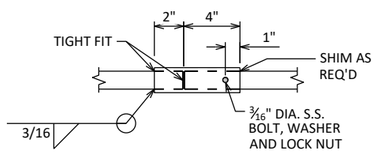



## SAFETY CHAIN DETAIL

PROVIDE SAFETY CHAIN AT EACH END OF CATWALK

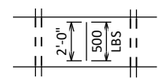



## DETAIL 1



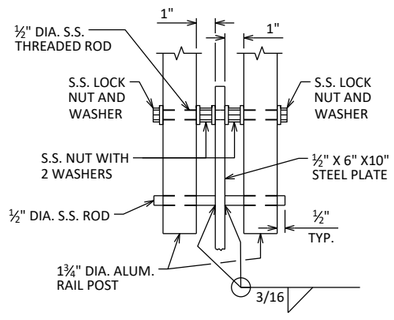

## BACKRAIL SPLICE

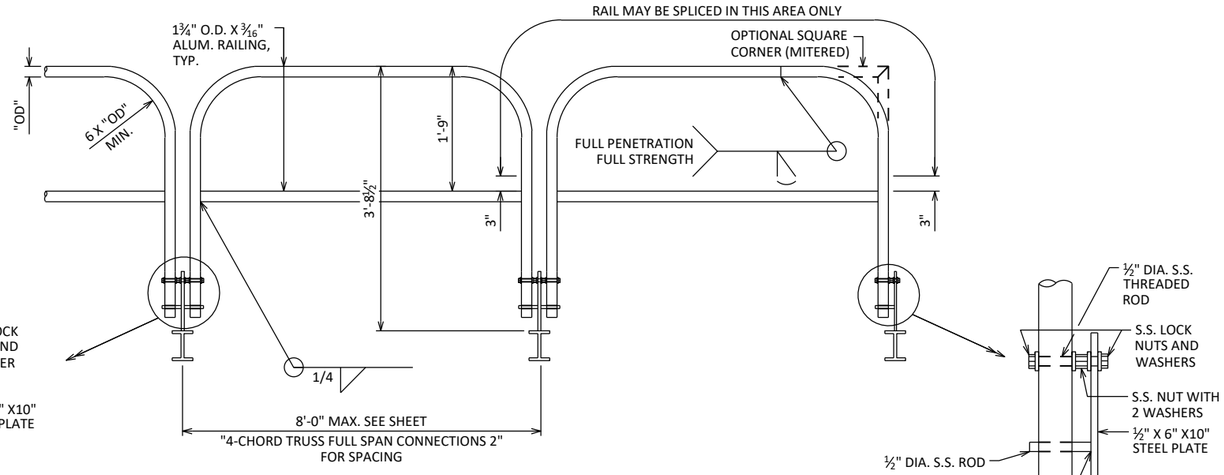
ONE SPLICE ALLOWED FOR LENGTHS OVER 30'-0"




## CATWALK LOADING DIAGRAM

NOTE:
CATWALK GRATING SHALL MEET THE CURRENT AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" WITH 500 LB LIVE LOAD DISTRIBUTED OVER 2'-0" TRANSVERSELY - MAX. SPAN IS 8'-0". CATWALK SHALL ALSO MEET CURRENT OSHA STD'S FOR WALKING-WORKING SURFACES.




## TYPICAL FRONT RAILING DETAILS

S.S. - STAINLESS STEEL

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: JAN. 2023**

DRAWN BY BOS | PLANS CK'D BOS

**4-CHORD TRUSS FULL SPAN CATWALK DETAILS**

SHEET V

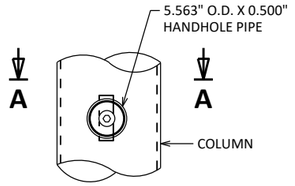
SCALE = 2.5

8

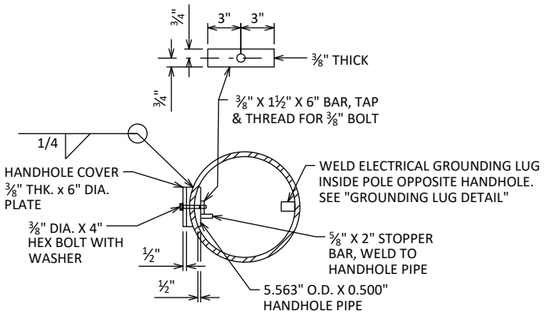
8

STATE PROJECT NUMBER

**STANDARD**




**ELEVATION**

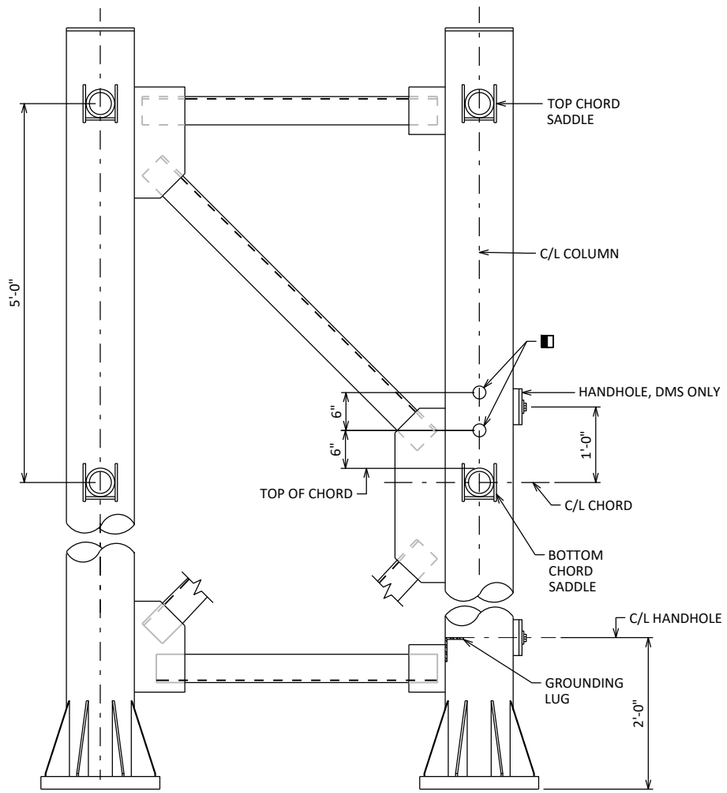



**SECTION A-A**

## 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.

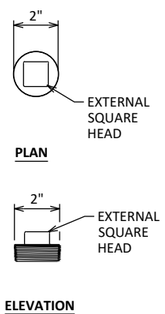
UNLESS OTHERWISE NOTED, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



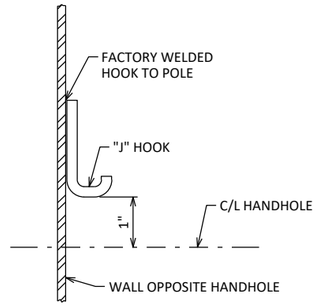

## CONDUIT HOLE LOCATIONS

LOOKING AT INSIDE FACE OF COLUMN

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

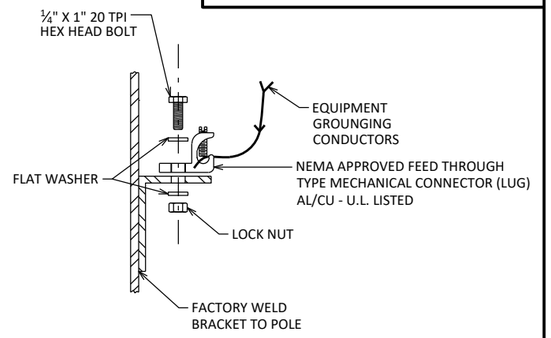



## CONDUIT PLUG DETAILS



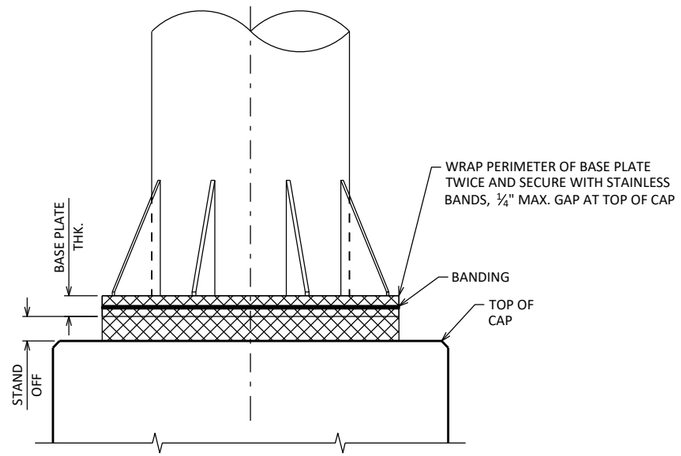

## TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF THE 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.



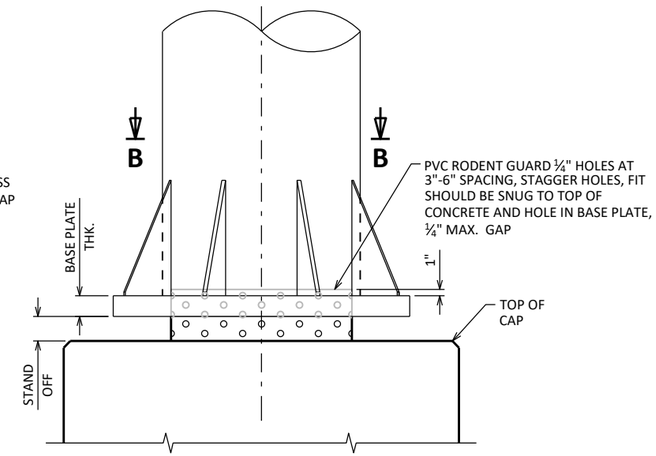

## GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



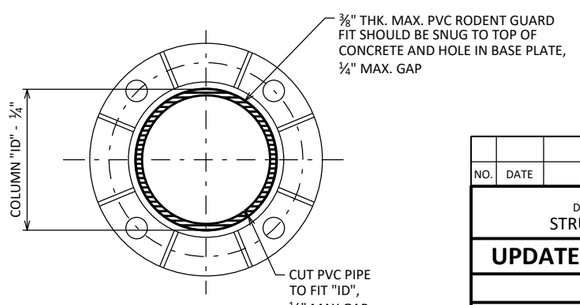

## RODENT SCREEN

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




## RODENT SCREEN - ALTERNATE

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




## SECTION B-B

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

**UPDATED: JAN. 2023**

DRAWN BY: BOS | PLANS CK'D: BOS

**4-CHORD TRUSS FULL SPAN ELECTRICAL DETAILS**

SHEET VI

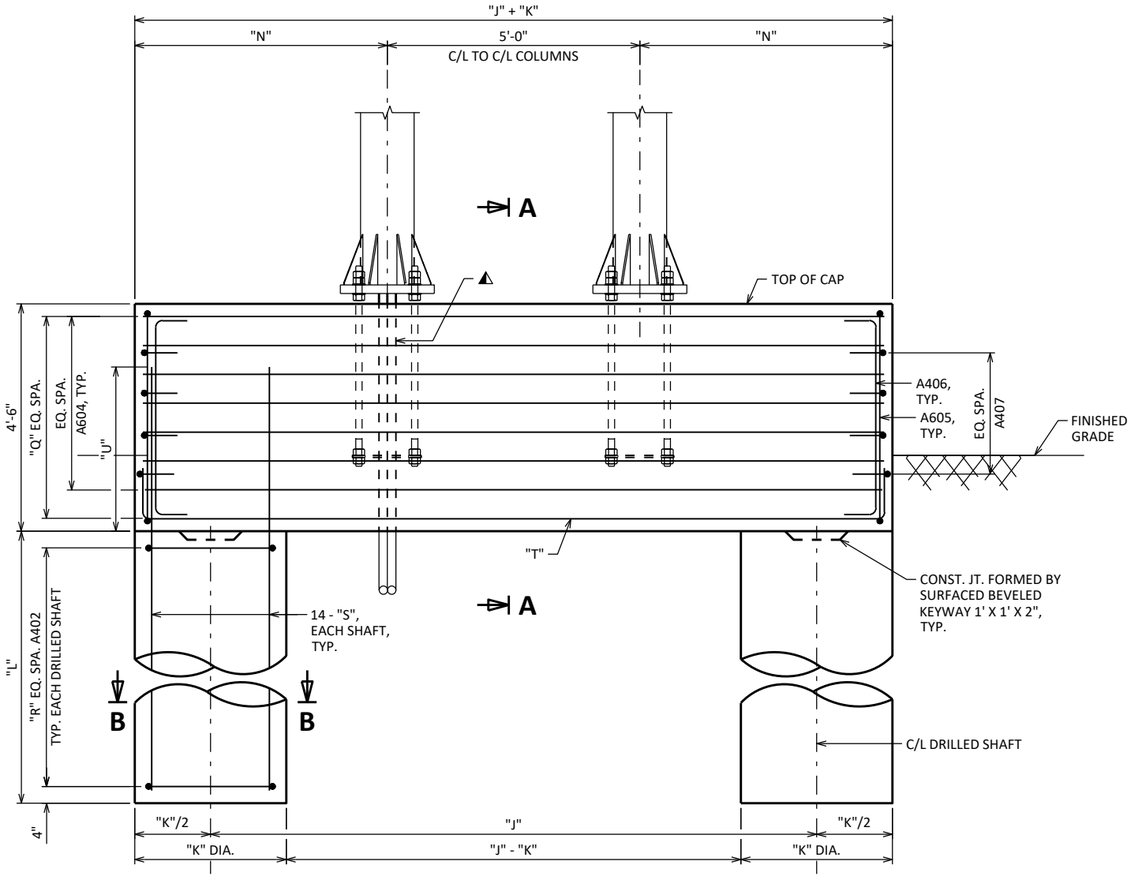
SCALE = 2.0

8

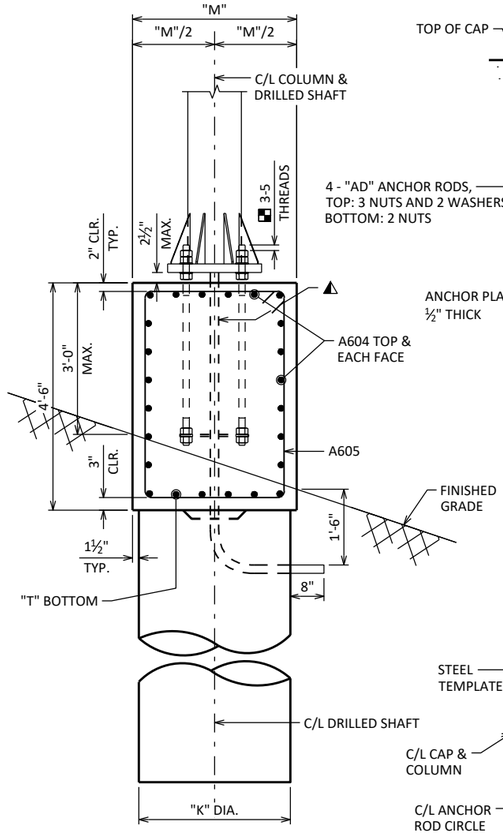
8

STATE PROJECT NUMBER

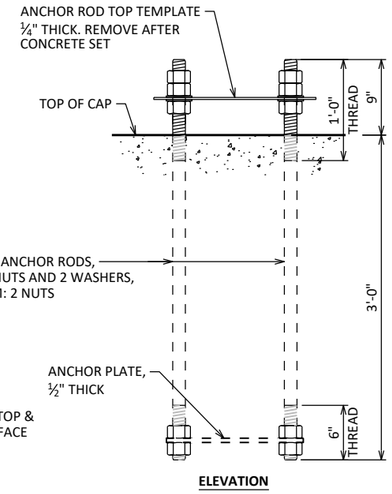
**STANDARD**



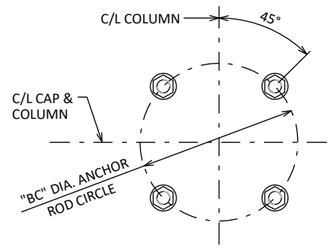

## ELEVATION




## SECTION A-A




**ELEVATION**

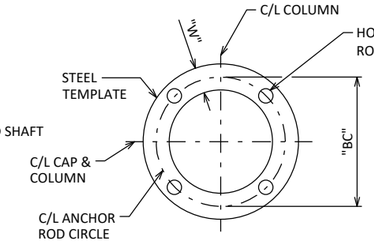



**PLAN**

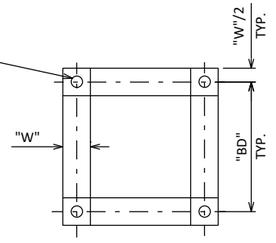
## ANCHOR ROD ASSEMBLY DETAILS

SINGLE ANCHOR ASSEMBLY SHOWN, 4 ANCHOR RODS PER ASSEMBLY

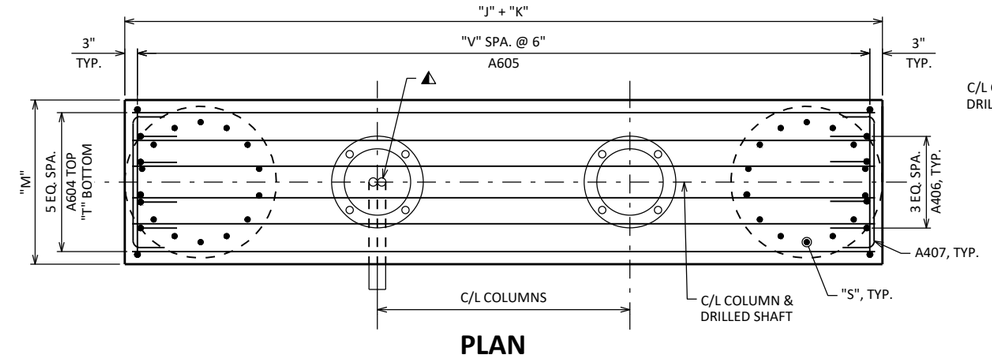
CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHORS.



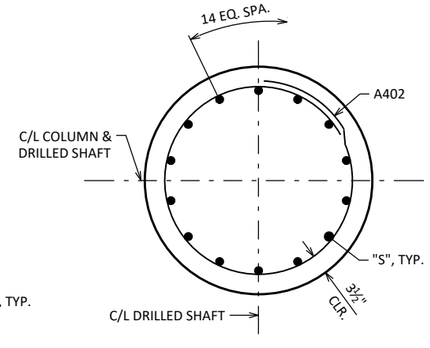

## ANCHOR PLATE & TOP TEMPLATE




## ALTERNATE ANCHOR PLATE & TOP TEMPLATE




## PLAN




## SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

## FOUNDATION, REINFORCING & ANCHOR PLATE DATA

| STANDARD DESIGN TYPE | FOUNDATION DIMENSIONS | | | | | | | | | | | ANCHOR PLATE DIMENSIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | "J" | "K" | "L" | "M" | "N" | "Q" | "R" | "S" | "T" | "U" | "V" | "AD" | "BC" | "BD" | "W" |
| I | 9'-0" | 3'-0" | 19'-0" | 3'-3" | 3'-6" | 7 | 19 | A801 | A603 | 2'-2" | 23 | 1½" | 1'-6¾" | 1'-1¼" | 3" |
| II | 12'-0" | 3'-0" | 22'-0" | 3'-3" | 5'-0" | 7 | 22 | A801 | A603 | 2'-2" | 29 | 1½" | 1'-6¾" | 1'-1¼" | 3" |
| III | 12'-0" | 3'-6" | 23'-0" | 3'-9" | 5'-3" | 7 | 23 | A901 | A703 | 2'-9" | 29 | 1¾" | 1'-6¾" | 1'-1¼" | 3½" |
| IV | 15'-0" | 3'-6" | 23'-0" | 3'-9" | 6'-9" | 7 | 23 | A901 | A703 | 2'-9" | 36 | 1¾" | 1'-8" | 1'-2⅛" | 3½" |
| V | 15'-0" | 4'-0" | 23'-0" | 4'-3" | 7'-0" | 8 | 23 | A1001 | A703 | 3'-5" | 37 | 1¾" | 1'-10" | 1'-3⅝" | 3½" |

## 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 |
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: JUNE 2023**

DRAWN BY BOS | PLANS CK'D BOS

**4-CHORD TRUSS FULL SPAN FOUNDATIONS 1**

SHEET VII

SCALE = 3.0

8

8

STATE PROJECT NUMBER

**STANDARD**

# BILL OF BARS

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

**STANDARD DESIGN TYPE I**

| BAR MARK | COAT | NO. ✳ REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|---|---|---|---|---|---|---|
| A801 | | 56 | 24'-2" | | | DRILLED SHAFT - VERTICAL |
| A402 | | 80 | 9'-3" | X | | DRILLED SHAFT - HORIZONTAL |
| A603 | X | 12 | 13'-3" | X | | CAP - LONGITUDINAL - BOTTOM |
| A604 | X | 36 | 11'-8" | | | CAP - LONGITUDINAL - TOP & SIDES |
| A605 | X | 48 | 14'-10" | X | | CAP - STIRRUP |
| A406 | X | 16 | 4'-7" | X | | CAP - VERTICAL - EACH END |
| A407 | X | 16 | 3'-5" | X | | CAP - HORIZONTAL - EACH END |

**STANDARD DESIGN TYPE II**

| BAR MARK | COAT | NO. ✳ REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|---|---|---|---|---|---|---|
| A801 | | 56 | 24'-2" | | | DRILLED SHAFT - VERTICAL |
| A402 | | 92 | 9'-3" | X | | DRILLED SHAFT - HORIZONTAL |
| A603 | X | 12 | 16'-3" | X | | CAP - LONGITUDINAL - BOTTOM |
| A604 | X | 36 | 14'-8" | | | CAP - LONGITUDINAL - TOP & SIDES |
| A605 | X | 60 | 14'-10" | X | | CAP - STIRRUP |
| A406 | X | 16 | 4'-7" | X | | CAP - VERTICAL - EACH END |
| A407 | X | 16 | 3'-5" | X | | CAP - HORIZONTAL - EACH END |

**STANDARD DESIGN TYPE III**

| BAR MARK | COAT | NO. ✳ REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|---|---|---|---|---|---|---|
| A901 | | 56 | 25'-9" | | | DRILLED SHAFT - VERTICAL |
| A402 | | 96 | 10'-6" | X | | DRILLED SHAFT - HORIZONTAL |
| A703 | X | 12 | 17'-1" | X | | CAP - LONGITUDINAL - BOTTOM |
| A604 | X | 36 | 15'-2" | | | CAP - LONGITUDINAL - TOP & SIDES |
| A605 | X | 62 | 15'-10" | X | | CAP - STIRRUP |
| A406 | X | 16 | 4'-7" | X | | CAP - VERTICAL - EACH END |
| A407 | X | 16 | 3'-11" | X | | CAP - HORIZONTAL - EACH END |

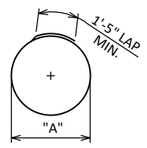
**STANDARD DESIGN TYPE IV**

| BAR MARK | COAT | NO. ✳ REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|---|---|---|---|---|---|---|
| A901 | | 56 | 25'-9" | | | DRILLED SHAFT - VERTICAL |
| A402 | | 96 | 10'-6" | X | | DRILLED SHAFT - HORIZONTAL |
| A703 | X | 12 | 20'-1" | X | | CAP - LONGITUDINAL - BOTTOM |
| A604 | X | 36 | 18'-2" | | | CAP - LONGITUDINAL - TOP & SIDES |
| A605 | X | 74 | 15'-10" | X | | CAP - STIRRUP |
| A406 | X | 16 | 4'-7" | X | | CAP - VERTICAL - EACH END |
| A407 | X | 16 | 3'-11" | X | | CAP - HORIZONTAL - EACH END |

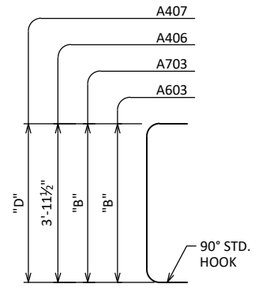
**STANDARD DESIGN TYPE V**

| BAR MARK | COAT | NO. ✳ REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|---|---|---|---|---|---|---|
| A1001 | | 56 | 26'-5" | | | DRILLED SHAFT - VERTICAL |
| A402 | | 96 | 12'-1" | X | | DRILLED SHAFT - HORIZONTAL |
| A703 | X | 12 | 20'-7" | X | | CAP - LONGITUDINAL - BOTTOM |
| A604 | X | 36 | 18'-8" | | | CAP - LONGITUDINAL - TOP & SIDES |
| A605 | X | 76 | 16'-10" | X | | CAP - STIRRUP |
| A406 | X | 16 | 4'-7" | X | | CAP - VERTICAL - EACH END |
| A407 | X | 16 | 4'-5" | X | | CAP - HORIZONTAL - EACH END |

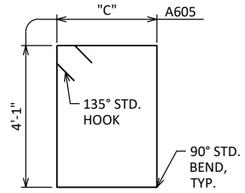
✳ VALUES SHOWN ARE FOR BOTH FOUNDATIONS, DIVIDE VALUES BY 2 IF A STANDARD FOUNDATION IS USED WITH A NON-STANDARD FOUNDATION.




**A402**




**A603, A703, A406, A407**




**A605**

| STANDARD DESIGN TYPE | "A" | "B" | "C" | "D" |
|---|---|---|---|---|
| I | 2'-5" | 11'-7" | 2'-11" | 2'-9½" |
| II | 2'-5" | 14'-7" | 2'-11" | 2'-9½" |
| III | 2'-11" | 15'-1" | 3'-5" | 3'-3½" |
| IV | 2'-11" | 18'-1" | 3'-5" | 3'-3½" |
| V | 3'-5" | 18'-7" | 3'-11" | 3'-9½" |

# ESTIMATED QUANTITIES - FOUNDATION

| STANDARD DESIGN TYPE | CONCRETE MASONRY | STEEL REINFORCEMENT HS | STEEL REINFORCEMENT HS COATED | ANCHOR ASSEMBLY 1½-INCH | ANCHOR ASSEMBLY 1¾-INCH | FOUNDATION DRILLING (DIA.) (LF) | | |
|---|---|---|---|---|---|---|---|---|
| | (CY) | (LBS) | (LBS) | (EACH) | (EACH) | 36" | 42" | 48 |
| I | 33 | 4,110 | 2,020 | 4 | --- | 76 | --- | --- |
| II | 40 | 4,180 | 2,510 | 4 | --- | 88 | --- | --- |
| III | 53 | 5,280 | 2,800 | --- | 4 | --- | 92 | --- |
| IV | 56 | 5,750 | 3,320 | --- | 4 | --- | 92 | --- |
| V | 70 | 7,140 | 3,530 | --- | 4 | --- | --- | 92 |

✳✳ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS. VALUES SHOWN ARE FOR BOTH FOUNDATIONS, DIVIDE VALUES BY 2 IF A STANDARD FOUNDATION IS USED WITH A NON-STANDARD FOUNDATION. ✳✳

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

**UPDATED: JAN. 2023**

DRAWN BY BOS | PLANS CK'D BOS

**4-CHORD TRUSS FULL SPAN FOUNDATIONS 2**

SHEET VIII

SCALE = 1.0

8

8