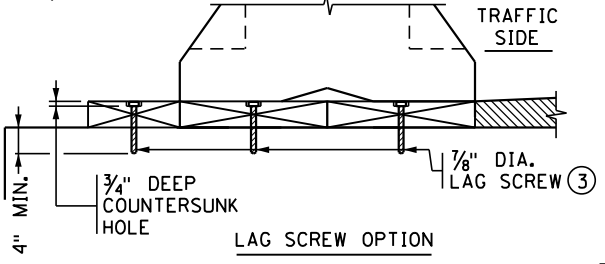
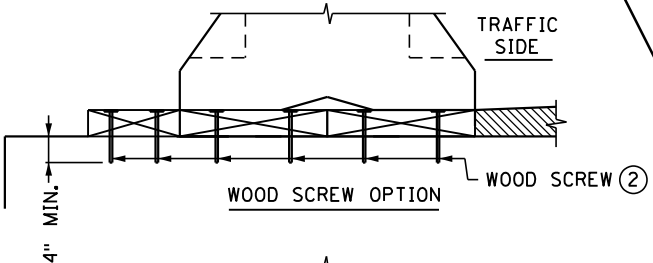
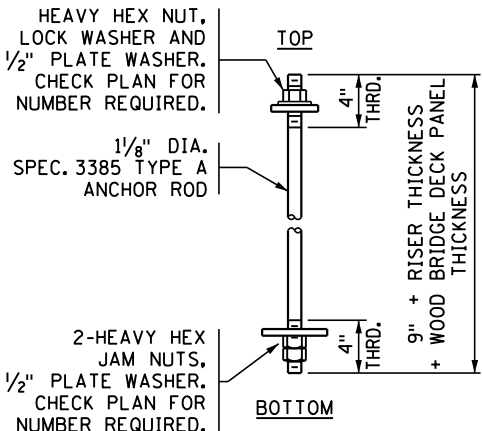


DESIGNER NOTE
(REMOVE PRIOR TO PRINTING FINAL PLAN);
REFER TO MNDOT BDM "MEMO TO DESIGNERS #2019-01"
AND "TEMPORARY BARRIER GUIDANCE MANUAL",
TABLE 3-3 FOR GUIDANCE ON DEFLECTION DISTANCE.

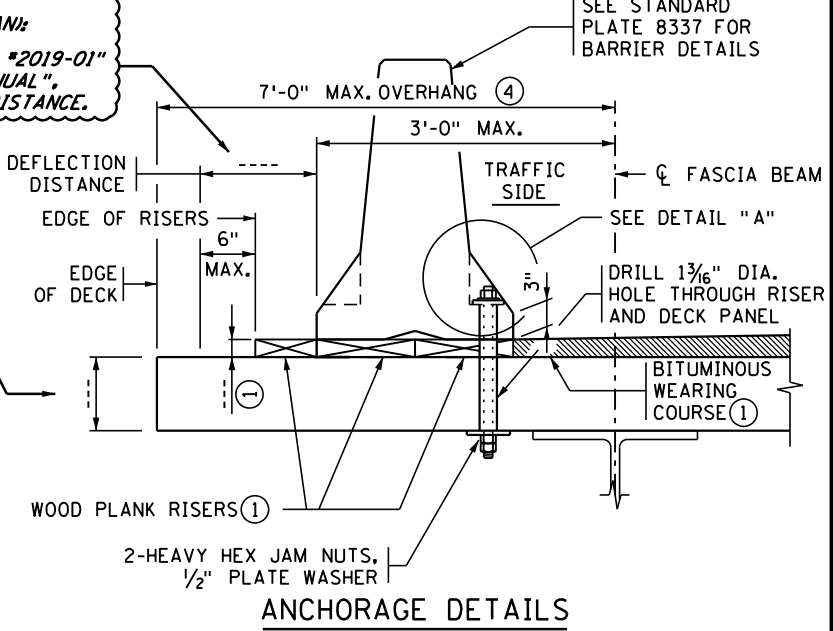
DESIGNER NOTE
(REMOVE PRIOR TO PRINTING FINAL PLAN);
MIN. THICKNESS FOR GLUED-LAMINATED WOOD BRIDGE DECK
PANEL IS 5", REFER TO MNDOT BDM ARTICLE 2.4.1.3 FOR
ADDITIONAL REQUIREMENTS.



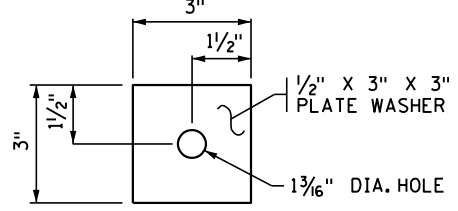
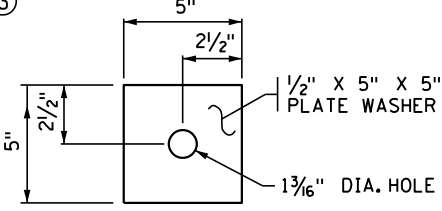
DETAIL "B"



DESIGNER NOTE
(REMOVE PRIOR TO
PRINTING FINAL PLAN);
COORDINATE W/ROADWAY
DESIGNER FOR LAYOUT
AND PAYMENT.
INSERT SPECIAL
PROVISION 2433.8.D
FOR INSTALLATION
INSTRUCTIONS.



**ANCHORED BARRIER MEETS
MASH TL-3 REQUIREMENTS**



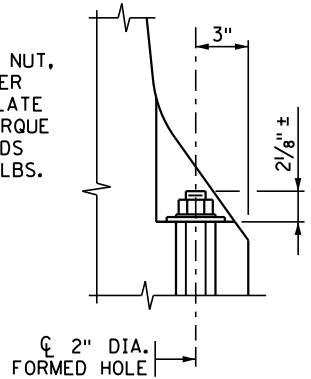
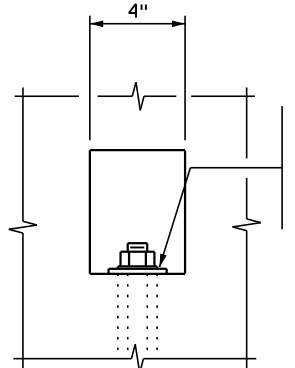
BOTTOM PLATE WASHER

TOP PLATE WASHER

NOTES:

- ALL HARDWARE TO BE GALVANIZED IN ACCORDANCE WITH SPEC. 3392.
- PLATE WASHERS TO BE STRUCTURAL STEEL IN ACCORDANCE WITH SPEC. 3306.
- COST OF ANCHORAGE SYSTEM AND ANCHOR REMOVAL ARE INCLUDED IN COST OF PLACING TEMPORARY PORTABLE PRECAST BARRIER.
- PIN BARRIERS TOGETHER PER STANDARD PLATE 8337.
- REFER TO TRAFFIC CONTROL PLANS FOR DEPLOYMENT LENGTH AND BARRIER TERMINATION REQUIREMENTS.
- ANCHOR ON TRAFFIC SIDE OF BARRIER ONLY.

- ① THICKNESS OF WOOD PLANK RISERS TO MATCH THICKNESS OF BITUMINOUS WEARING COURSE AT GUTTERLINE. MINIMUM BITUMINOUS THICKNESS = 2". MAXIMUM BITUMINOUS THICKNESS = 4". MINIMUM RISER WIDTH = 6". MINIMUM NO. OF RISER LINES = 3. MINIMUM RISER SPECIFIC GRAVITY, G = 0.55, MINIMUM RISER MODULUS OF ELASTICITY, E = 1,700,000 PSI. SEE DETAIL "B" FOR RISER CONNECTION DETAILS.
- ② ATTACH EACH WOOD PLANK RISER TO GLUED-LAMINATED WOOD BRIDGE DECK PANELS WITH 2 WOOD SCREWS SPACED AT 1'-0" MAX. ALONG LENGTH OF RISER. 4" MIN. SCREW EMBEDMENT IN GLUED-LAMINATED WOOD PANEL. MIN. WOOD SCREW BENDING YIELD STRENGTH = 150,000 PSI. MIN. WOOD SCREW ROOT DIA. = 0.172 IN.
- ③ ATTACH EACH WOOD PLANK RISER TO GLUED-LAMINATED WOOD BRIDGE DECK PANELS WITH 1 - 7/8" DIA. LAG SCREW SPACED AT 1'-0" MAX. ALONG LENGTH OF RISER. 4" MIN. SCREW EMBEDMENT IN GLUED-LAMINATED WOOD PANEL. LAG SCREW TO MEET ANSI/ASME STANDARD B18.2.1. MIN. LAG SCREW BENDING YIELD STRENGTH = 45,000 PSI. SEE SPECIAL PROVISIONS FOR INSTALLATION INSTRUCTIONS.
- ④ LOADING IS LIMITED TO THE SELF-WEIGHT OF THE OVERHANG COMPONENTS SHOWN, PLUS A MAXIMUM CONSTRUCTION LOAD OF 20 PSF APPLIED TO THE AREA BETWEEN THE BACK BOTTOM EDGE OF THE PORTABLE BARRIER AND THE EDGE OF DECK.



APPROVED: APRIL 09, 2020
Kevin Westrom
STATE BRIDGE ENGINEER

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY PORTABLE PRECAST CONCRETE BARRIER
ANCHORAGE TO GLUED-LAMINATED WOOD PANEL**
(TEMPORARY USAGE IN LIMITED BARRIER DISPLACEMENT AREAS)

REVISED
12-02-2020

DETAIL NO.
B919