

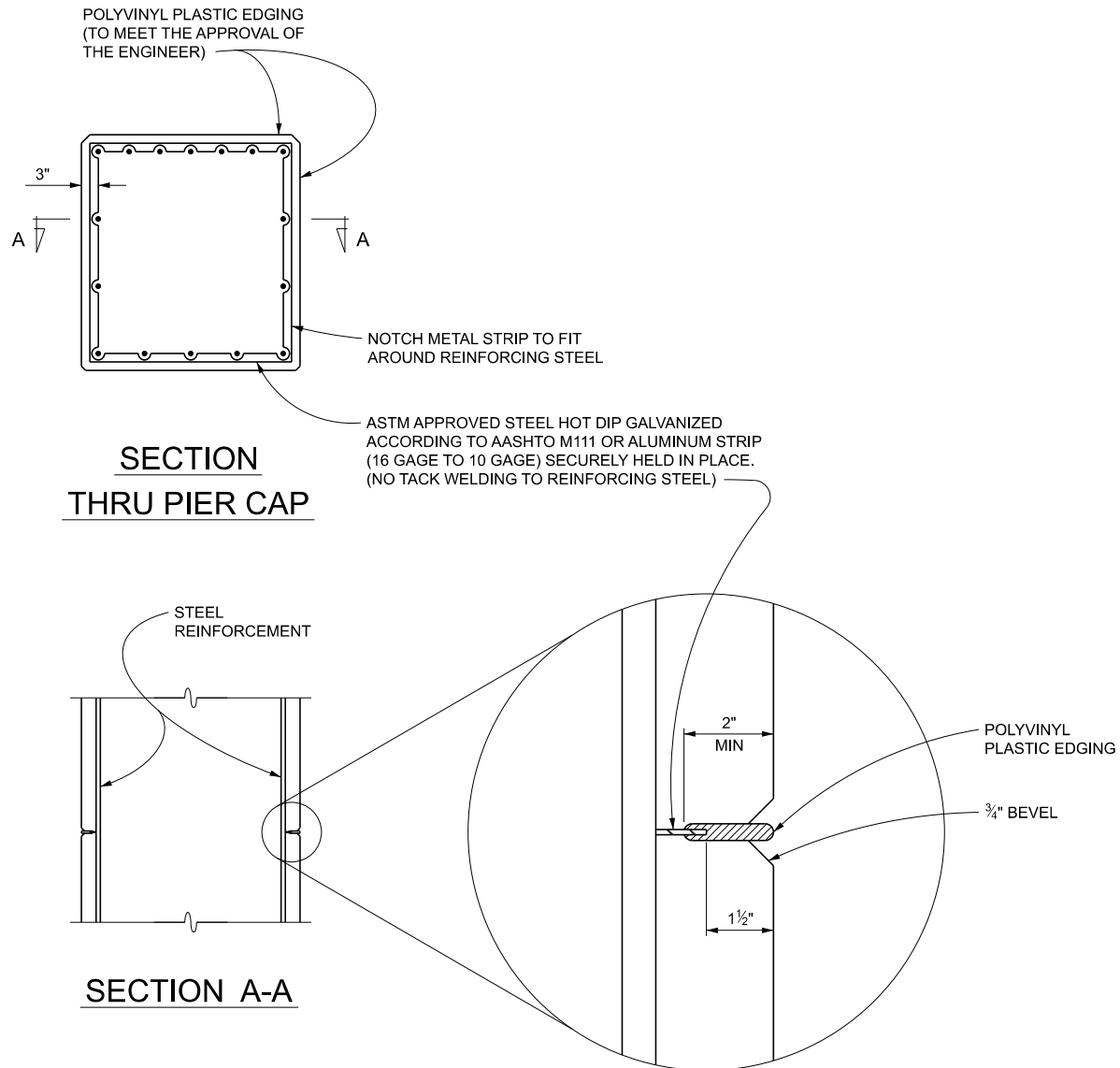
DRAWN BY: BLT  
CHECKED BY: CWC  
APPROVED BY: KCK

MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF DEVELOPMENT

PARTIAL METAL BULKHEAD FOR  
PIER CAP CONSTRUCTION JOINT

ISSUED: 05/27/25

SUPERSEDES: 11/27/01



PLAN NOTES:

PARTIAL METAL BULKHEAD MAY BE USED AS ALTERNATE  
CONSTRUCTION JOINT AT CONTRACTOR'S EXPENSE.  
CARE IS TO BE USED IN CASTING CONCRETE TO PREVENT  
DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

PREPARED BY  
DESIGN DIVISION

5.27.04

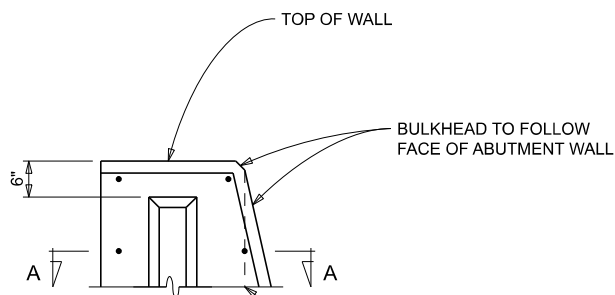
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MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF DEVELOPMENT

METAL BULKHEAD FOR  
ABUTMENT CONSTRUCTION JOINT

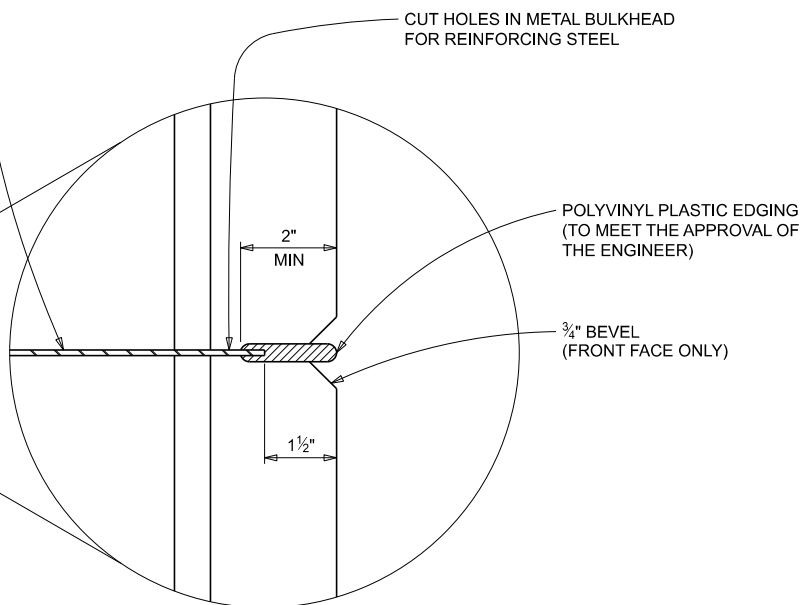
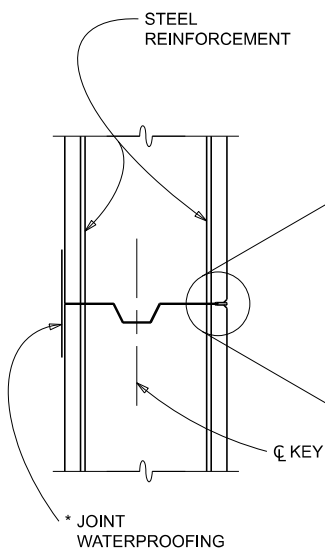
ISSUED: 05/27/25

SUPERSEDES: 11/27/01



SECTION AT JOINT

PRE-FORMED ASTM APPROVED STEEL HOT DIP GALVANIZED  
ACCORDING TO AASHTO M111 OR ALUMINUM BULKHEAD  
(12 GAGE) SECURELY HELD IN PLACE. (NO TACK WELDING TO  
REINFORCING STEEL)



SECTION A-A

\* PREFORMED WATERPROOFING MEMBRANE MAY BE  
USED AS AN ALTERNATE.

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5.27.05