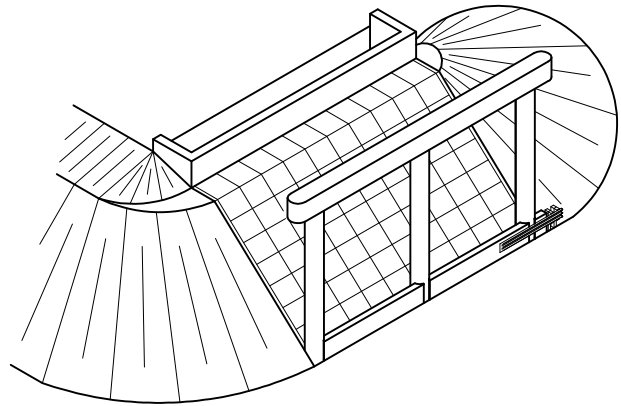
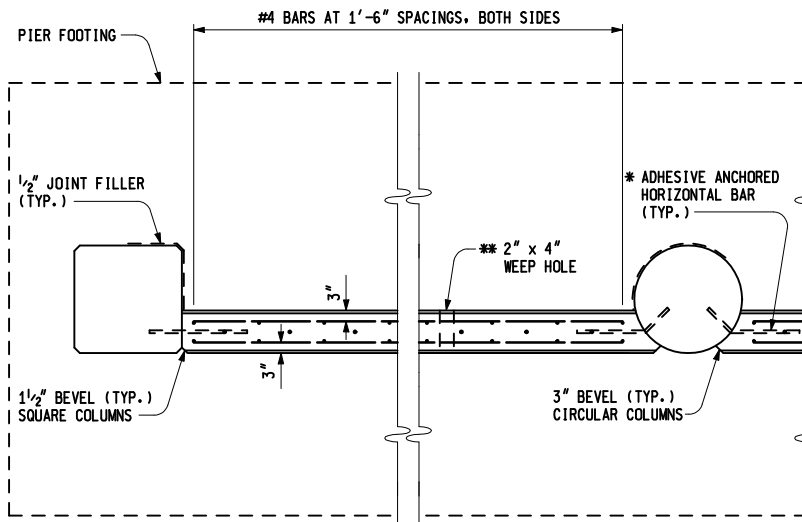


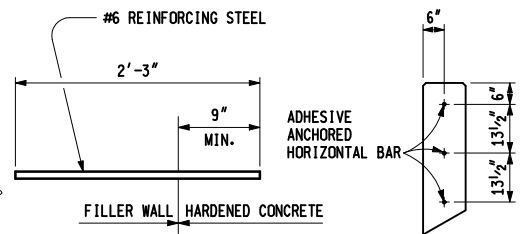
SKETCH OF FILLER WALLS
AT SQUARE PIER COLUMNS



SKETCH OF FILLER WALLS
AT CIRCULAR PIER COLUMNS



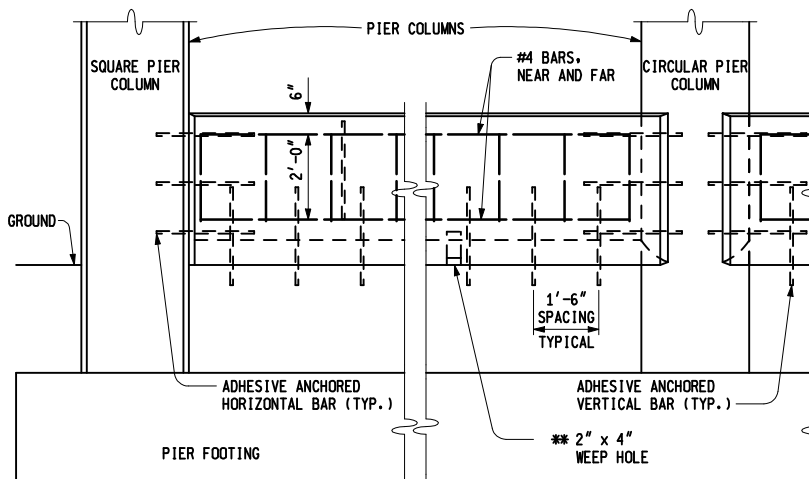
PLAN



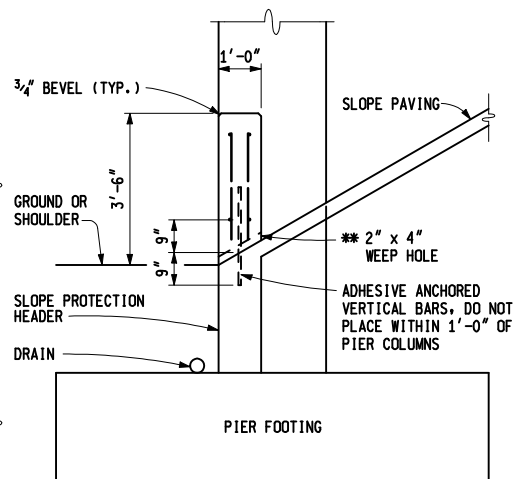
ADHESIVE ANCHORED
HORIZONTAL OR VERTICAL BAR
INSTALLATION DETAIL
(UNLESS OTHERWISE DETAILED)

* REINFORCING STEEL SHALL BE TESTED ACCORDING TO THE CURRENT SPECIFICATIONS PRIOR TO BENDING. THE REINFORCING STEEL SHALL THEN BE FIELD BENT RADially TO CIRCULAR PIERS AND PARALLEL TO THE FILLER WALL. FIELD BENDING SHALL BE ACCORDING TO THE CURRENT SPECIFICATIONS. ANY DAMAGE TO THE EPOXY COATING DURING TESTING OR BENDING SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

** PLACE ONE 2" x 4" WEEP HOLE IN EACH FILLER WALL SECTION. (MAY BE RANDOMLY LOCATED)



ELEVATION



END

FILLER WALLS USING SLOPE PROTECTION HEADER AS FOOTING



PREPARED
BY
DESIGN DIVISION

DRAWN BY: B.L.T.

CHECKED BY: W.K.P.

DEPARTMENT DIRECTOR
Kirk T. Steudle

APPROVED BY: *John C. Friend*
ENGINEER OF DELIVERY

APPROVED BY: *Mark A. Van Pelt*
ENGINEER OF DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

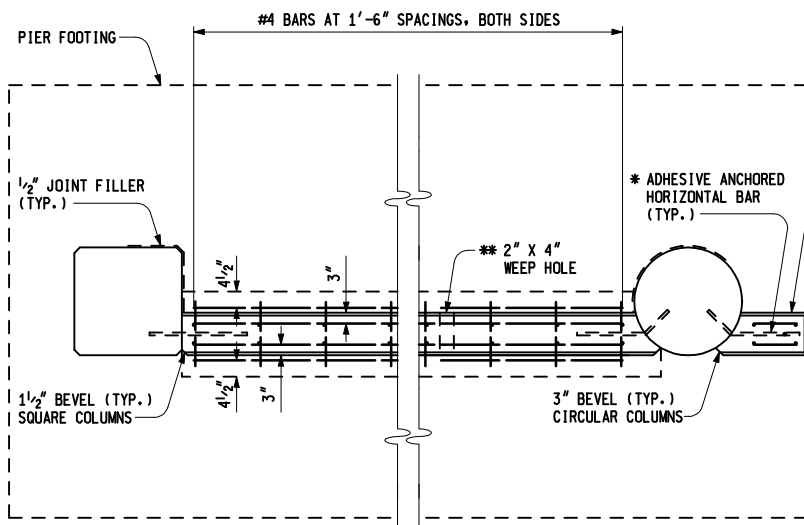
FILLER WALLS AT
BRIDGE PIER COLUMNS

9-10-2010
F.H.W.A. APPROVAL

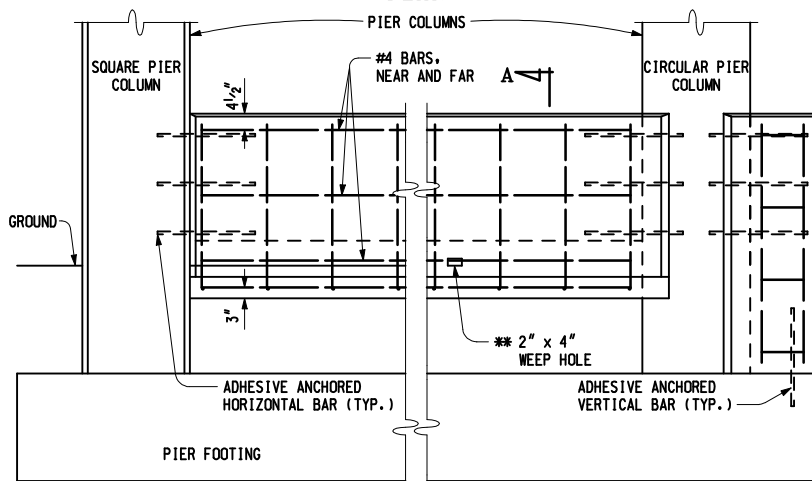
2-25-2010
PLAN DATE

R-55-G

SHEET
1 OF 4

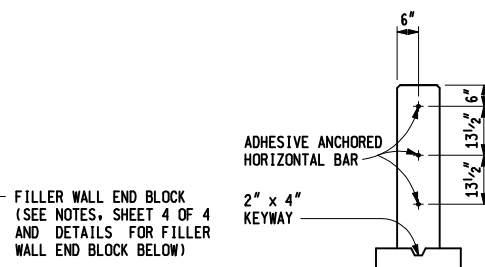


PLAN



ELEVATION A

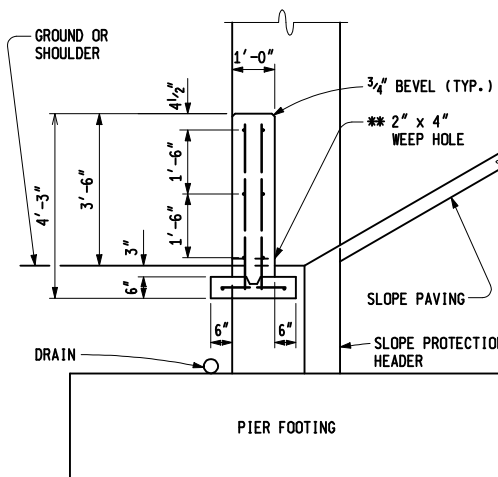
FILLER WALLS WITH FOOTINGS - OUTSIDE PIERS



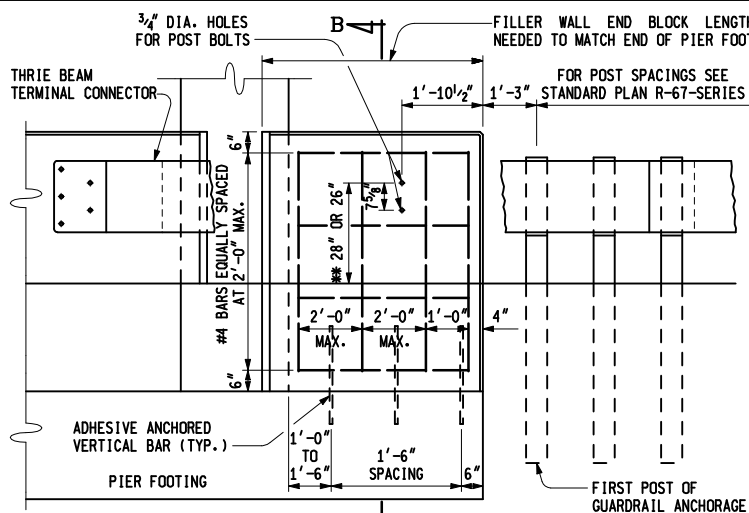
ADHESIVE ANCHORED HORIZONTAL BAR LAYOUT

* REINFORCING STEEL SHALL BE TESTED ACCORDING TO THE CURRENT SPECIFICATIONS PRIOR TO BENDING. THE REINFORCING STEEL SHALL THEN BE FIELD BENT RADIAL TO CIRCULAR PIERS AND PARALLEL TO THE FILLER WALL. FIELD BENDING SHALL BE ACCORDING TO THE CURRENT SPECIFICATIONS. ANY DAMAGE TO THE EPOXY COATING DURING TESTING OR BENDING SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

** PLACE ONE 2" x 4" WEEP HOLE IN EACH FILLER WALL SECTION. (MAY BE RANDOMLY LOCATED)



SECTION A - A

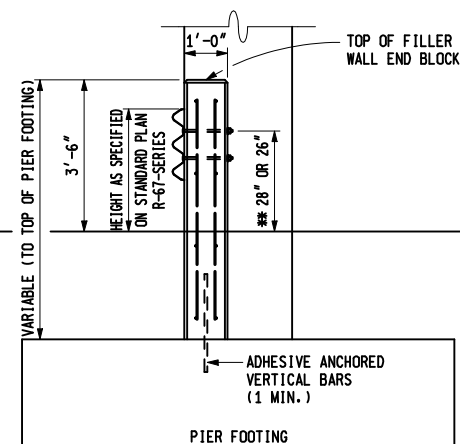


ELEVATION B

DETAILS FOR FILLER WALL END BLOCK

(SEE STANDARD PLAN R-67-SERIES FOR GUARDRAIL ATTACHMENT DETAILS)

** USE 28" WHEN TOP OF BEAM ELEMENT IS 34" AND 26" WHEN TOP OF BEAM ELEMENT IS 32"



SECTION B - B

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

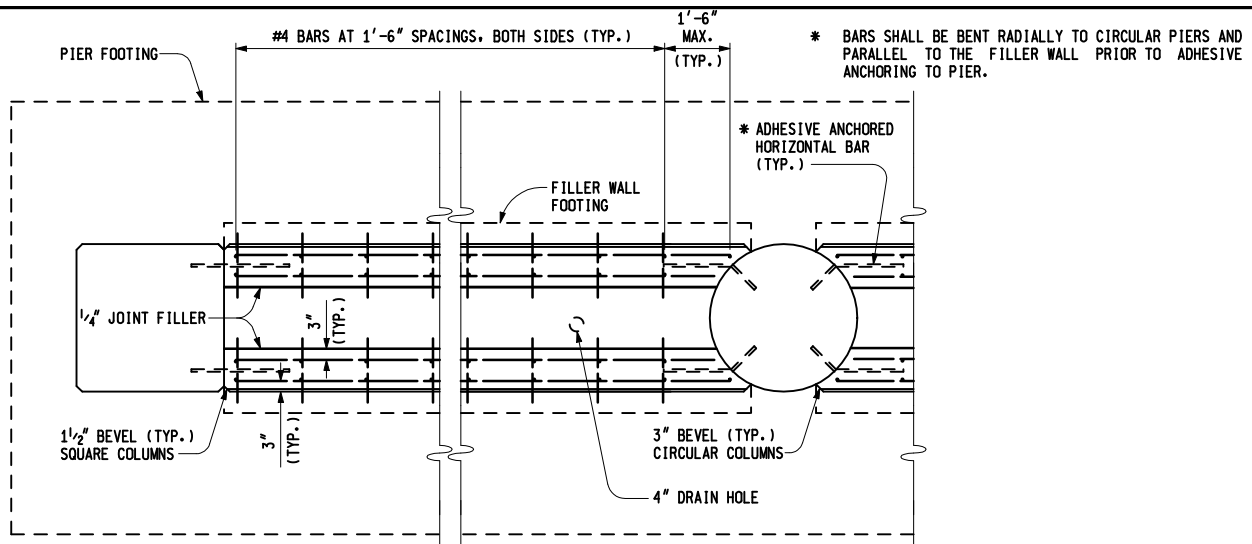
FILLER WALLS AT BRIDGE PIER COLUMNS

9-10-2010
F.H.W.A. APPROVAL

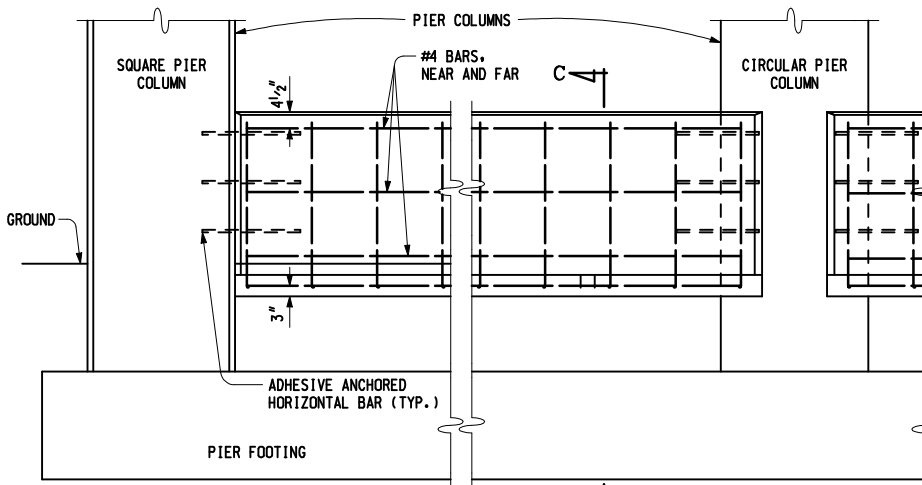
2-25-2010
PLAN DATE

R-55-G

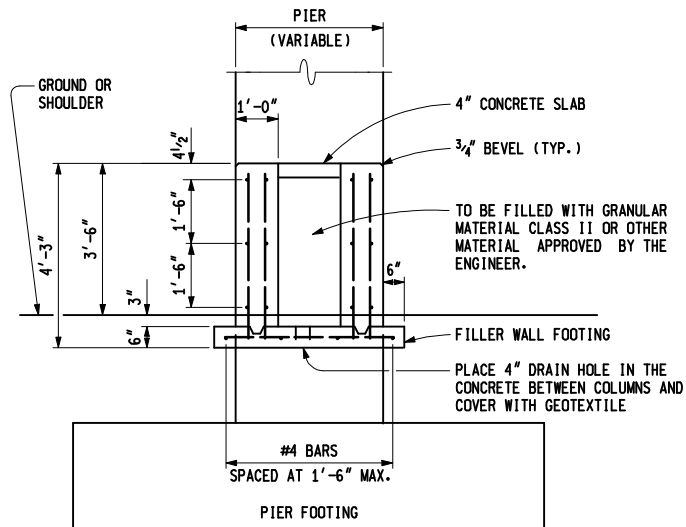
SHEET
2 OF 4



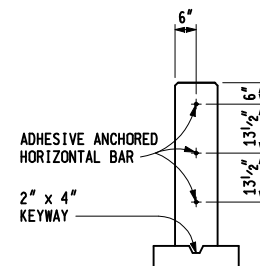
PLAN



ELEVATION C - C



SECTION C - C



ADHESIVE ANCHORED HORIZONTAL BAR LAYOUT

FILLER WALLS WITH FOOTINGS - MEDIAN PIERS

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

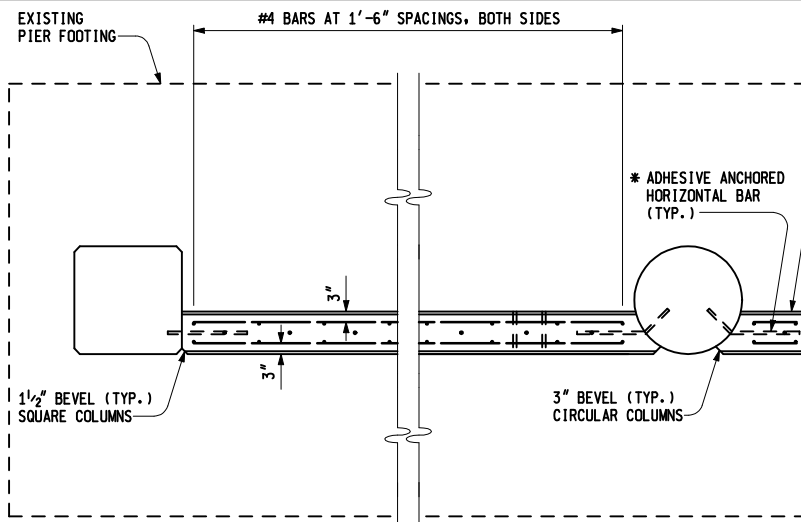
FILLER WALLS AT BRIDGE PIER COLUMNS

9-10-2010
F.H.W.A. APPROVAL

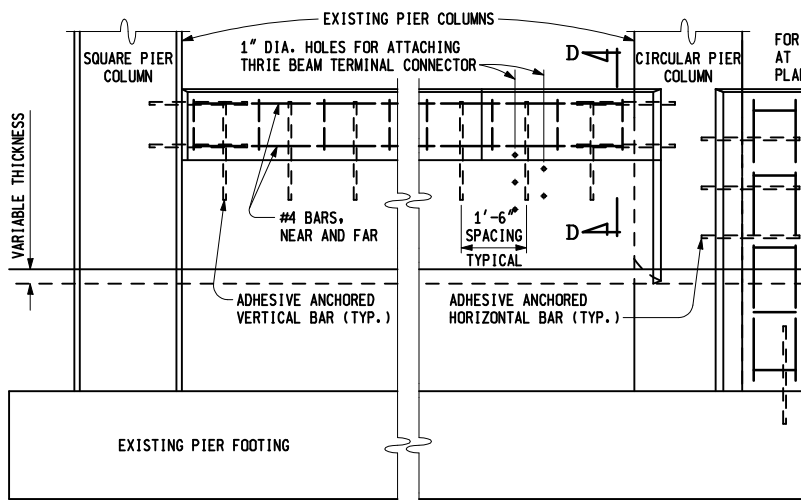
2-25-2010
PLAN DATE

R-55-G

SHEET
3 OF 4



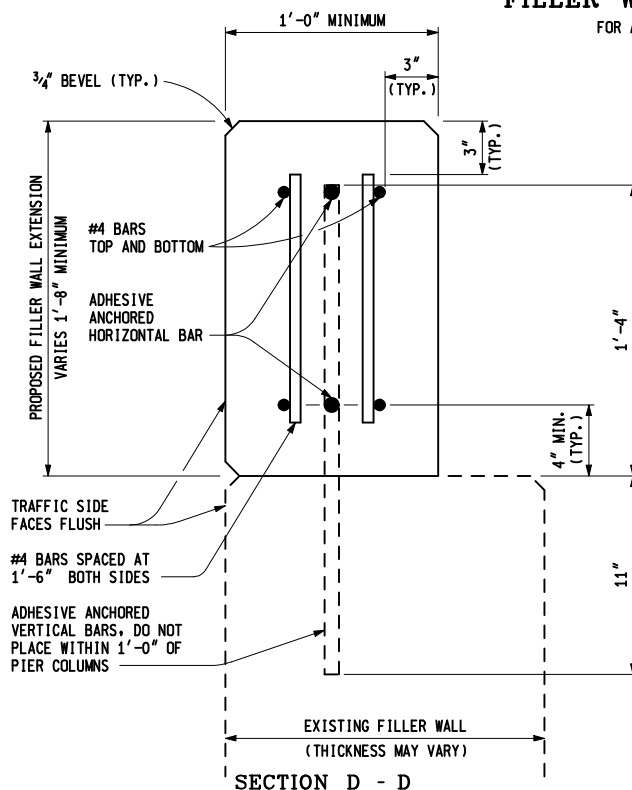
PLAN



ELEVATION

END

FILLER WALL EXTENSION FOR ADDITIONAL HEIGHT



NOTES:

THE AREA BETWEEN THE FILLER WALLS AT THE MEDIAN PIERS MAY BE FILLED WITH CONCRETE AT THE CONTRACTOR'S OPTION, WITH NO INCREASE IN COST TO THE DEPARTMENT.

CARE SHALL BE TAKEN TO ENSURE THAT FILLER WALLS DO NOT ENTRAP WATER. DRAINAGE MUST BE PROVIDED BY USE OF WEEP HOLES AND DRAIN HOLES AND/OR RESHAPING SLOPES.

TOP OF FILLER WALL SHALL BE PARALLEL WITH THE PAVEMENT GRADE.

MATERIALS AND LABOR REQUIRED TO CONSTRUCT FILLER WALL END BLOCKS SHALL BE PAID FOR AS FILLER WALL CONCRETE AND ADHESIVE ANCHORING OF HORIZONTAL/VERTICAL BARS, AND SHALL BE ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS.

SEE CURRENT STANDARD PLAN R-67-SERIES WHEN ATTACHING GUARDRAIL TO FILLER WALLS.

ALTERNATE METHODS MAY BE USED TO ANCHOR THE BARS IF APPROVED BY THE ENGINEER.

ALL STEEL REINFORCEMENT BARS AND ADHESIVE ANCHORED HORIZONTAL/VERTICAL BARS SHALL BE EPOXY COATED AND PAID FOR SEPARATELY.

ADHESIVE ANCHORS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATION EXCEPT AS MODIFIED ON THIS STANDARD.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

FILLER WALLS AT BRIDGE PIER COLUMNS

9-10-2010
F.H.W.A. APPROVAL

2-25-2010
PLAN DATE

R-55-G

SHEET
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