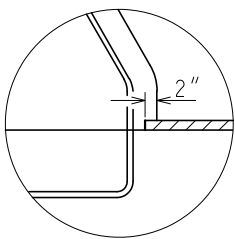


DRAWN BY: BLT
 CHECKED BY: VZ
 APPROVED BY: *T&F*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT

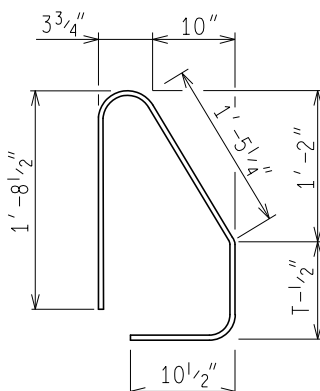
BRIDGE BARRIER RAILING, TYPE 4
 (TWO-STAGE DECK)

ISSUED: 02/14/11
 SUPERSEDES: 11/27/01

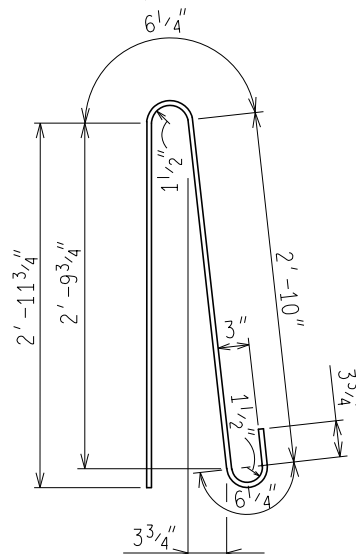


DETAIL A-OPTIONAL

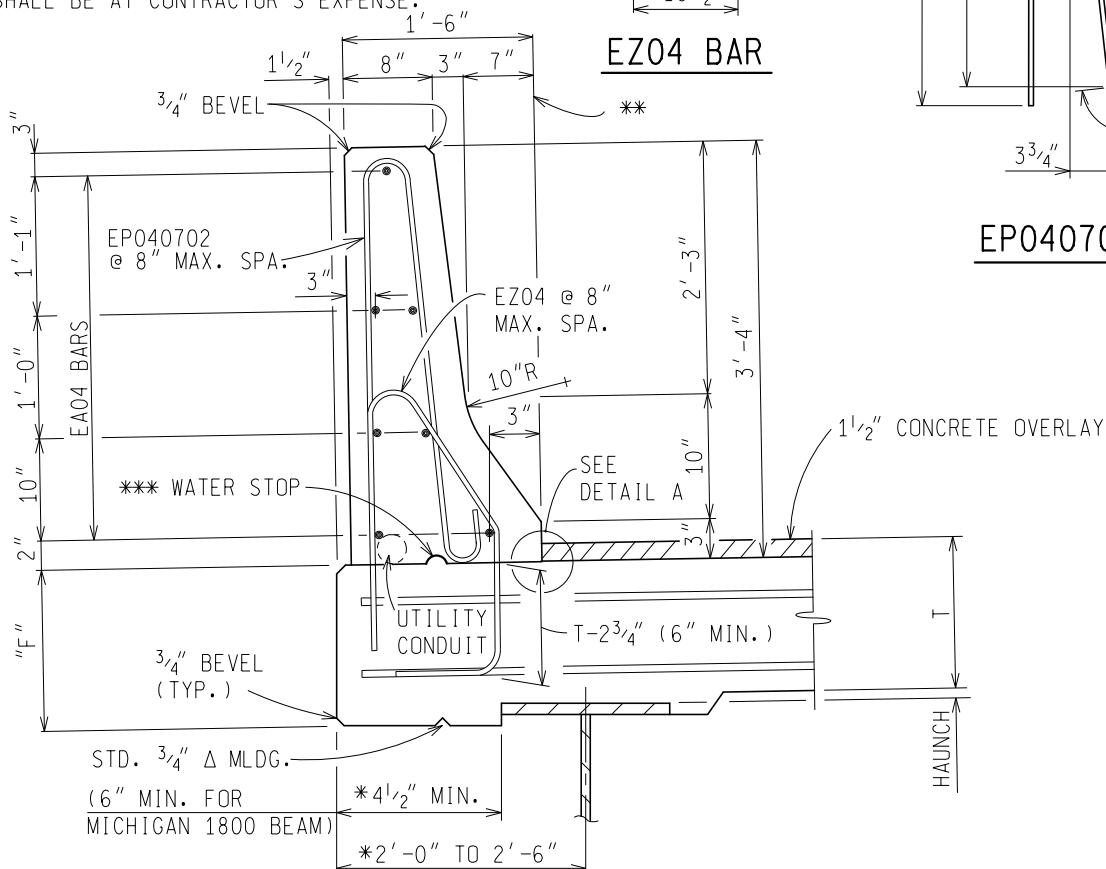
CONTRACTOR MAY PLACE OVERLAY
 PRIOR TO PLACEMENT OF BARRIER.
 ADDITIONAL OVERLAY MATERIAL NEEDED
 SHALL BE AT CONTRACTOR'S EXPENSE.



EZ04 BAR



EP040702



NOTE:

"F" EQUALS SLAB THICKNESS, MINUS SECOND STAGE,
 PLUS THICKEST FASCIA BEAM FLANGE, PLUS 1/2", PLUS
 AMOUNT OF FASCIA BEAM DROP REQUIRED TO MAINTAIN
 MINIMUM THICKNESS AT CURB PLUS HAUNCH (1").

IF "F" BECOMES GREATER THAN 12" USE A HAUNCH DETAIL
 ON THE FASCIA SIDE OF THE BEAM SIMILAR TO THE HAUNCH
 DETAIL ON THE INTERIOR SIDE. ADDITIONAL REINFORCEMENT
 MAY BE REQUIRED IN THE AREA OVER THE BEAM FLANGE IF
 THE HAUNCH BECOMES EXCESSIVE.

BAR WITH PREFIX "E" ARE TO BE EPOXY COATED.

FOR ADDITIONAL DETAILS OF RAILING, SEE STANDARD PLAN
 B-20-SERIES.

DO NOT PLACE MORE THAN ONE 3" Ø UTILITY CONDUIT IN
 THE BARRIER.

* IT IS PREFERRED TO POSITION THE FASCIA BEAM
 TO CARRY THE SCREED RAIL WHICH WILL BE 6" TO
 8" FROM THE EZ BAR. HOWEVER, 4 1/2" MINIMUM
 WILL APPLY TO CURVED GIRDERS ONLY.

** PERPENDICULAR TO PLANE OF SLAB - NORMAL CROWN
 SECTION AND HIGH SIDE OF SUPERELEVATED
 SECTIONS. VERTICAL - LOW SIDE OF SUPERELEVATED
 SECTIONS.

*** 2" HIGH x 4" LONG (±). FORMING NOT REQUIRED.

PREPARED BY
 DESIGN DIVISION

6.29.09D