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MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT

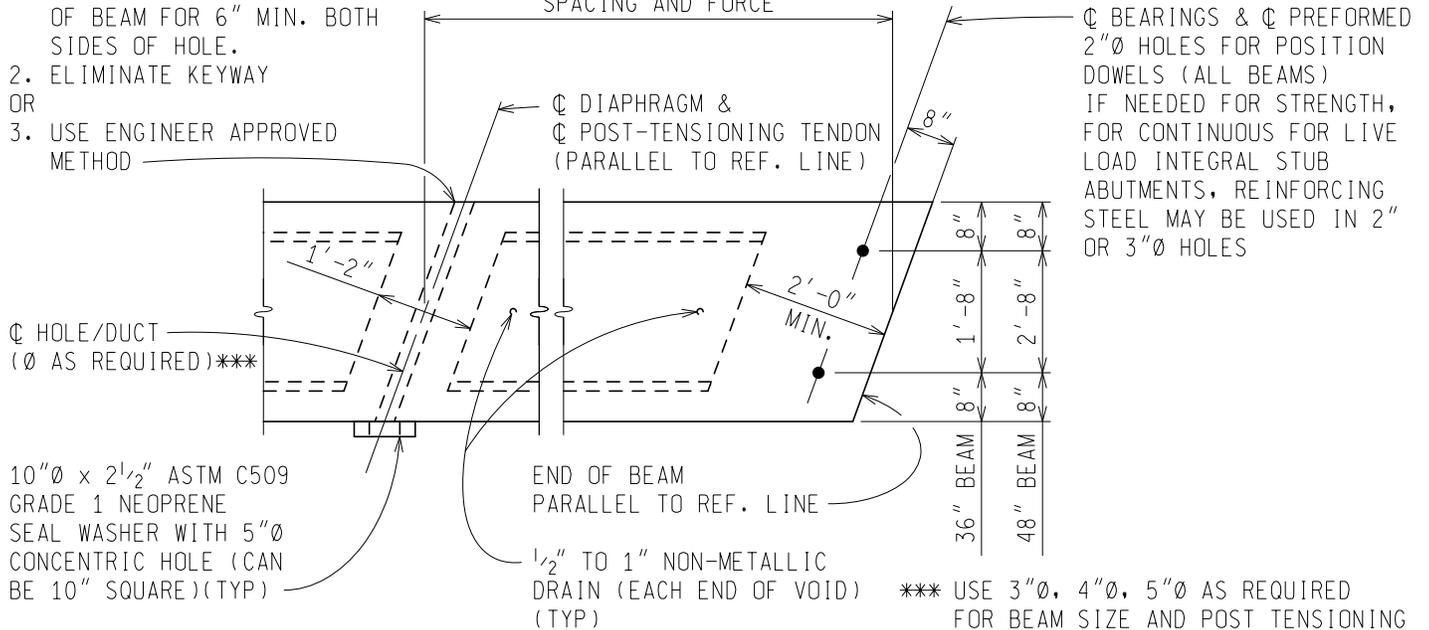
PRESTRESSED CONCRETE BOX BEAM
 AND POST-TENSIONING DETAILS

ISSUED: 09/16/13
 SUPERSEDES: 02/14/11

WHEN REQUIRED TO PREVENT GROUT FROM ENTERING POST TENSIONING HOLE AROUND SEAL WASHERS:

1. FILL KEYWAY, WITH TYPE H-1 MORTAR, FLUSH WITH SIDE OF BEAM FOR 6" MIN. BOTH SIDES OF HOLE.
2. ELIMINATE KEYWAY OR
3. USE ENGINEER APPROVED METHOD

SEE CHARTS FOR POST-TENSIONING SPACING AND FORCE



PLAN

PLUG ENDS OF JOINT BEFORE GROUTING

TENSIONING CONDUIT (FILL WITH TYPE E-1 GROUT AFTER POST TENSIONING)

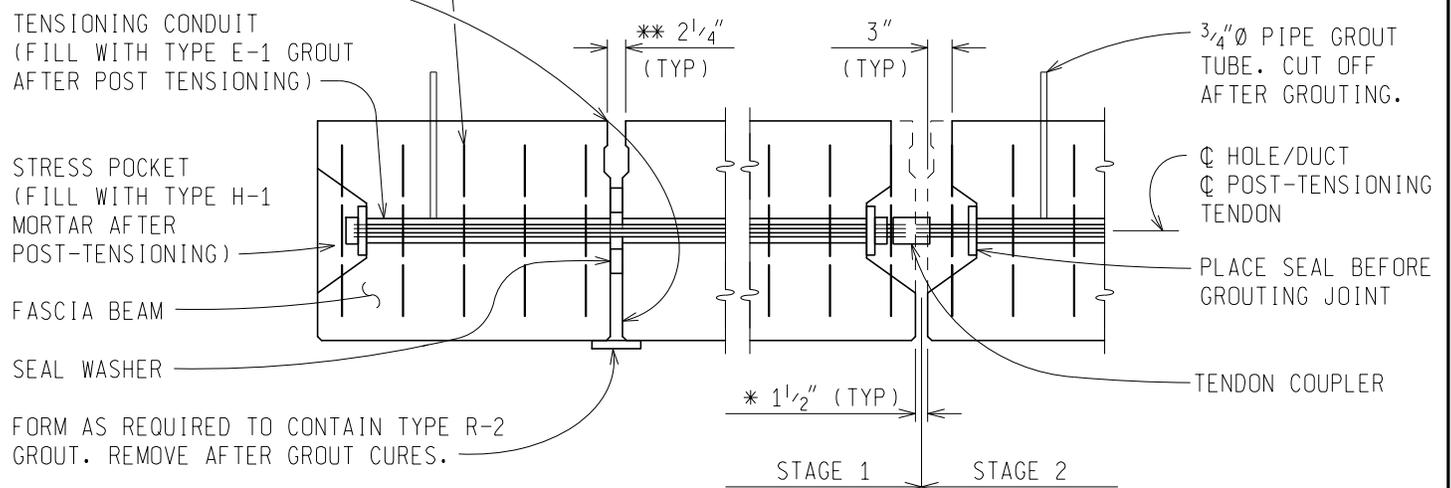
STRESS POCKET (FILL WITH TYPE H-1 MORTAR AFTER POST-TENSIONING)

FASCIA BEAM

SEAL WASHER

FORM AS REQUIRED TO CONTAIN TYPE R-2 GROUT. REMOVE AFTER GROUT CURES.

K04 BARS (5 FOR 3' WIDE BOX BEAM - 7 FOR 4' WIDE BOX BEAM) 3" COVER, SPACED @ 7 1/2" MAX. (3' WIDE BOX BEAM) - 7" MAX. (4' WIDE BOX BEAM) (10 (3' WIDE BOX BEAM) - 14 (4' WIDE BOX BEAM) BARS WITH 2 TENDONS, ENCOMPASS EACH STRESS POCKET/TENDON) (IN EACH DIAPHRAGM & END BLOCK WITH POST-TENSIONING ANCHORAGES) (SEE GUIDE 6.65.12)



POST-TENSIONING DETAIL

* 3" MAX.
 ** 3 3/4" MAX., 1 1/2" MIN.

PLAN NOTE:
 STRESS POCKETS, ANCHOR PLATES AND TENDON COUPLERS SHALL BE AS REQUIRED FOR THE POST-TENSIONING SYSTEM PROVIDED.

PREPARED BY
 DESIGN DIVISION

6.65.13