Accepted
Accepted as Noted ✓
Accepted Noted Resubmit
Rejected, Revise Resubmit
Rejected - Unacceptable

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Engineer assumes no liability for errors or omissions that may be contained herein. The Contractor, by approving and submitting these documents, verifies their accuracy as stipulated on the Contractor's Shop Drawing Stamp.

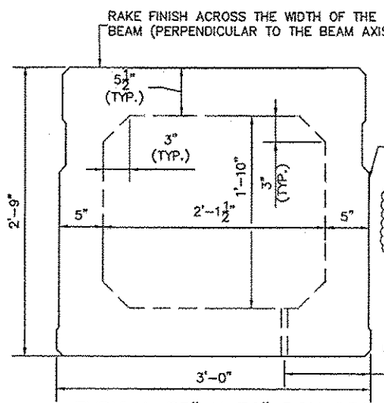
Date 7/2/10 DuBOIS AND KING By Wm Detrick

NOTES:
1. (+) INDICATES 0.6" ø LOW RELAXATION STRAIGHT STRAND, AASHTO M203. BOTTOM ROW OF STRANDS INITIAL TENSION 44 KIPS. (TOP ROW OF STRANDS 10 KIPS) 270 KSI MINIMUM ULTIMATE TENSILE STRENGTH.
2. (⊞) INDICATES 0.6" ø LOW RELAXATION DEBONDED STRAND AASHTO M203. DEBOND 5'-0" FROM END OF BEAM. INITIAL TENSION 44 KIPS. 270 KSI MINIMUM ULTIMATE TENSILE STRENGTH.
3. CONCRETE COMPRESSIVE STRENGTH TESTED BY CYLINDER BREAK TEST.
4. EACH STRAND SHALL BE FINALLY BURNED OR CUT OFF AT A DEPTH OF ¾" INTO THE END OF THE BEAM AND THE RECESSED AREA AROUND THE STRAND SHALL BE FILLED WITH NON-SHRINK GROUT.
5. OMIT SHEAR KEY ON EXPOSED EDGES.
6. PRESTRESSED CONCRETE BOX BEAMS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS WITHIN 6 FEET OF THE ENDS OF THE BEAMS.
7. THE VOIDS MUST BE VENTED DURING THE CURING PERIOD
8. CONCRETE SHALL CONTAIN AN APPROVED CORROSION INHIBITOR ADMIXTURE AT A DOSAGE RATE OF 4 GALLONS PER CUBIC YARD.

THE TOP 2 STRANDS ARE NECESSARY TO SERVE AS SUPPORTS TO FACILITATE THE PLACEMENT OF THE SHEAR STIRRUPS.

THE TOP, LONGITUDINAL, MILD STEEL SHOULD BE INSIDE THE SHEAR STIRRUPS AS SHOWN ON SHEET 25 OF THE DESIGN PLANS. THIS STEEL CAN ALSO SERVE AS SUPPORT FOR THE SHEAR STIRRUPS INSTEAD OF THE ADDITIONAL PRESTRESSING STRANDS.

THE TOP 2 STRANDS ARE NECESSARY TO SERVE AS SUPPORTS TO FACILITATE THE PLACEMENT OF THE SHEAR STIRRUPS.

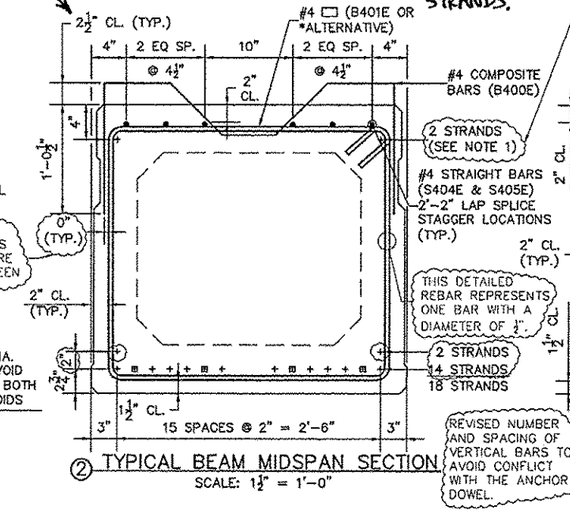


① TYPICAL 33" X 36" BOX BEAM
SCALE: 1½" = 1'-0"

FOR SHEAR KEY DIMENSIONS SEE SHEAR KEY DETAIL 4 OF THIS SHEET

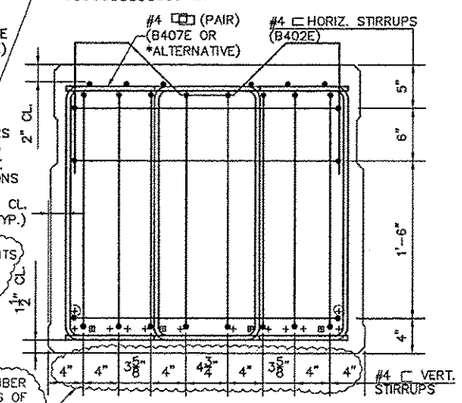
THE PURPOSE OF THIS DIMENSION IS TO INDICATE THERE IS NO GAP BETWEEN THE BARS.

10" TO ℄ ¾" DIA. NON-FERROUS VOID DRAIN (VD5.5) AT BOTH ENDS OF ALL VOIDS

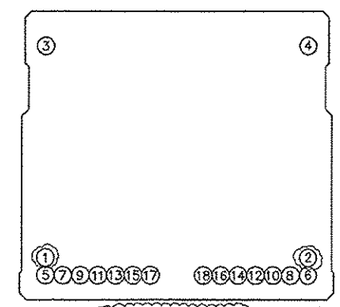


② TYPICAL BEAM MIDSPAN SECTION
SCALE: 1½" = 1'-0"

REVISED NUMBER AND SPACING OF VERTICAL BARS TO AVOID CONFLICT WITH THE ANCHOR DOWEL.



③ TYPICAL END OF BEAM SECTION
SCALE: 1½" = 1'-0"



DETENSION SCHEDULE

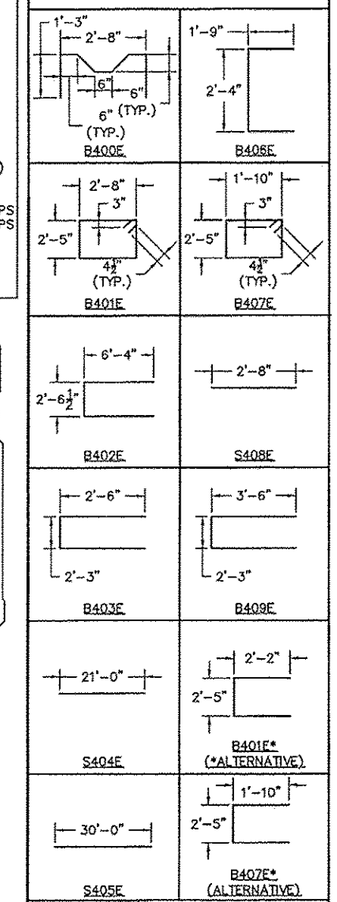
MATERIAL SPECIFICATION
CONCRETE MIX:
28 DAY STRENGTH: 6000 PSI
RELEASE STRENGTH: 4800 PSI
STRAND: AASHTO M203
MILD REINFORCING: AASHTO M31M/M3 EPOXY COATED

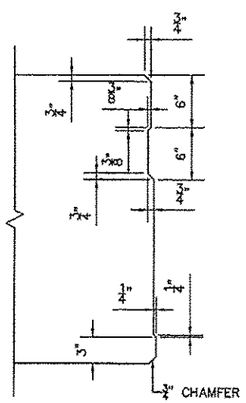
FINISHES
TOP: RAKE FINISH ¼" AMPLITUDE
SIDES: STEEL FORM
BOTTOM: STEEL FORM
ENDS: FORM (SEE NOTE 4)

DUNNAGE
STORAGE: BELOW LIFTING LOOPS
SHIPPING: BELOW LIFTING LOOPS

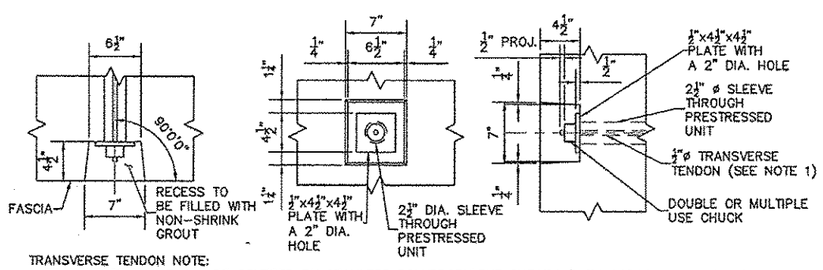
BEAM
TOTAL WEIGHT: 58,154 LBS
CONC. YARDAGE: 14.36 CY

PARTS & PART NUMBERS



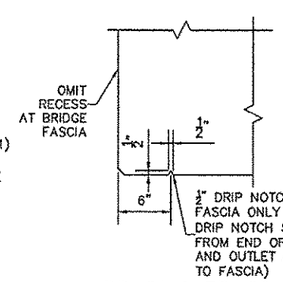


④ SHEAR KEY DETAIL
SCALE 1½" =1'-0"

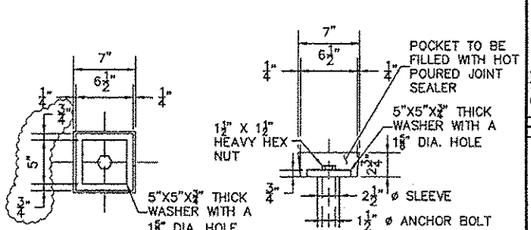


TRANSVERSE TENDON NOTE:
1. TRANSVERSE TIES SHALL BE COVERED BY SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITOR GREASE BETWEEN SHEATH AND STRAND) FOR THE LENGTH OF THE STRAND, EXCEPT AT ANCHORAGE LOCATIONS, TIES SHALL BE TENSIONED TO 30,000 LBS.

⑤ TRANSVERSE TENDON DETAILS
SCALE: 1½" = 1'-0"



⑥ RB-01 & RB-03 DRIP NOTCH DETAIL
SCALE: 1½" = 1'-0"



⑦ ANCHOR BOLT POCKET DETAILS
SCALE: 1½" = 1'-0"

Hoyle, Tanner & Associates, Inc.
125 College Street, 4th Floor Burlington, VT 05401
Tel (802)860-1331 Fax (802)860-6499 www.hoyletanner.com

© Copyright 2010 Hoyle, Tanner & Associates, Inc.

DRAWN BY: NAN	DATE: JUNE 2010
CHECKED BY: CHS	PROJECT NO: 122420.75

W.E. DAILEY INC.
PRECAST CONCRETE PRODUCTS
TEL: (802) 442-4418 FAX: (802) 442-4719

STATE OF VERMONT AGENCY OF TRANSPORTAION

STOWE, VT

MOSCOW ROAD (T.H. NO. 1) OVER MILLER BROOK BRIDGE #3
PROJECT NO. BHO 1446(30)

SHEET 2 OF 5

042