



SPECIFICATIONS

LOADING: HS20-44
 MINIMUM CONCRETE STRENGTH AT 28 DAYS - 5500 P.S.I.
 MINIMUM DO RELEASE - 4000 P.S.I.
 PRESTRESSING STRAND: 1/2" DIA. - 270K, 7 WIRE UNCOATED (ASTM-A416)
 STRESS RELIEVED, INITIAL TENSION - 189,000 P.S.I.
 TIE ROD AND POST ANCHOR ASSEMBLIES TO BE GALVANIZED
 PER ODOT SPECIFICATIONS SECTION 711.02
 SURFACE FINISH: ROUGH GRAIN WOOD FLOAT
 REINFORCING BARS: 40,000 P.S.I. YIELD
 BEAM WT: B21x48, 55'-6" = 20 1/2 TON

ODOT STANDARD DRAWING REFERENCE

PSBD - 1 - 81 (1/4) PRESTRESSED CONCRETE BOX BEAM DETAILS
 A) BEAM LIFTING INSERTS
 B) VOID ALTERNATION AT GUARD RAIL ANCHORS
 PSBD - 1 - 81 (2/4) DO
 A) END DETAIL OF TRANSVERSE TIE ROD ANCHORAGE
 DBR - 2 - 73 DEEP BEAM BRIDGE GUARD RAIL
 A) TYPE "B" ANCHOR DETAIL
 B) TYPE "C" ANCHOR DETAIL

ADDITIONAL MATERIAL FURNISHED BY UNIVERSAL CONCRETE PRODUCTS INC.

NON-SHRINK GROUT
 JUTE FOR KEYWAYS AS REQUIRED
 12 EA. DOWEL PIN - #6 BAR x 2'-10"
 12 EA. DOWEL PIN SEALS - 1/2" x 6" x 6" PEJM
 EPOXY SPRAY SEALER - FASCIA BEAMS ONLY
 INITIAL CAMBER - 1.15" WHICH IS AT THE TIME OF TRANSFER OF STRESS AND INCLUDES DEFLECTION DUE TO WEIGHT OF BEAM.
 TOTAL CAMBER - 2 3/8" WHICH INCLUDES AN ALLOWANCE FOR CAMBER GROWTH DUE TO CREEP.
 DEFLECTION DUE TO WEARING SURFACE & RAILING IS .25"
 FINAL BEAM CAMBER = 2.50"

ISSUE	FOR NO.	DATE	REVISION	BY	CH. BY
1	1-5-87	1-5-87	CHANGE DOWEL SEALS TO 1"x6"x6"	GSM	

PRESTRESS BEAM DETAILS

BRIDGE No. 69-3.03
 MIAMI TOWNSHIP
 LOGAN COUNTY ENGINEER'S OFFICE
 LOGAN COUNTY

UNIVERSAL CONCRETE PRODUCTS INC.

PLANT: COLUMBUS

SHEET NO. 1 OF 2

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
CJM	Dec (86)	DEJ	JAN (87)	ENGINEER	JAN (87)

