## BRIDGE BEAM FABRICATION NOTES

COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS (f c) SHALL NOT BE LESS THAN 5500 PSI.

COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF DETENSIONING (f  $_{\rm C}$  ) SHALL NOT BE LESS THAN 4000 PSI.

PRESTRESSING STEEL SHALL BE SEVEN WIRE UNCOATED LOW RELAXATION STRAND IN ACCORDANCE WITH ASTM A416 GRADE 270, 1/2" DIAMETER.

ALL PRESTRESSING STRANDS SHALL BE STRESSED TO AN INITIAL TENSIONING FORCE PER STRAND EQUAL TO 3,000 lbs. ALL PRESTRESSING STRANDS SHALL BE STRESSED TO A FINAL TENSIONING FORCE PER STRAND EQUAL TO 30,982 lbs. (BEFORE LOSSES).

DETENTION STRANDS SYMMETRICALLY ABOUT CENTERLINE OF BEAM IN ACCORDANCE WITH STANDARD RECOGNIZED PRACTICES.

ALL REINFORCING BARS SHALL CONFIRM TO ASTM A615, A616, OR A617 GRADE 60 BLACK STEEL, UNLESS OTHERWISE NOTICED.

ALL ANCHOR BOLTS, NUTS AND STUDS SHALL CONFORM TO THE PHYSICAL PROPERTIES OF ASTM-A325

ALL GUARDRAIL EMBEDDED ACCESSORIES AND TRANSVERSE TIE RODS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM 711.02.

KEY WAYS TO BE GIVEN A MEDIUM SANDBLAST AT THE PLANT (WITHIN (4) DAYS OF SHIPMENT)

TOP OF BEAM FINISH TO BE TRANSVERSE BROOMED.

TRANSVERSE TIE RODS SHALL BE 1" DIAMETER STEEL ROD OF GRADE A311 G1018 STEEL.

CALCIUM NITRITE CORROSION INHIBITOR SHALL BE ADDED AT THE RATE OF 4 GAL. PER CUBIC YARD OF CONCRETE. (WR GRACE DCI)

BEAMS ARE DESIGNED WITH HS 20-44 LOADING AND ARE DESIGNED IN ACCORDANCE WITH ODOT STANDARDS PSBD-1-93 AND SPECIFICATION 865.

ITEMS FURNISHED BY CARR CONCRETE

- $\langle A \rangle$ (12)1" Ø X 43" ANCHOR DOWEL
- B (20)I"ø X 7'-11" TIE ROD
  - (40)HEAVY HEX NUTS
  - (40) 4" X 4" X 1/2" PLATE WASHERS
  - (365') 1/2" Ø BACKER ROD
  - 6" X 6" X 1" GROUT RETAINERS (PEJF) (12)
  - 1 1/4" dia. X 8" STUDS (88)
  - (176) 1 1/4" dia. HVY. HEX NUTS
  - (176) 1 1/4" dia. FLAT WASHERS
  - (24) 1" X 6" X 20" BEARING PADS
  - (22)GUARDRAIL TYPE 2 POST (ATTACHED)
  - (2) 75'-0" RUNS DEEP BEAM RAIL w/ TUBULAR BACKUP
  - (8)GUARDRAIL POST W6X25

















