

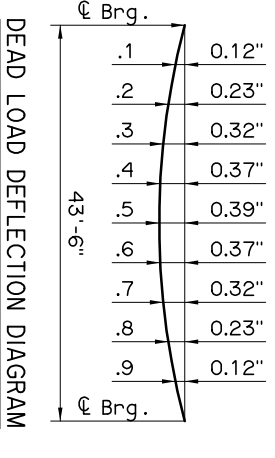
**BEAM SECTIONS**  
(16 - 0.6"Ø STRANDS)

**PRESTRESSED CONCRETE BEAM NOTES**

**COMPRESSIVE STRENGTH**  
The required compressive strength of the concrete is 5,250 p.s.i. at transfer of prestress and 7,000 p.s.i. at 28 days.

**STRAND TYPE**  
The required strand type is low-relaxation, use strand having a nominal diameter of 0.6 with ultimate tensile strength of 270 k.s.i.

**LFD OPERATING RATING - HS 37.6**  
The Operating Rating shown is based on a nominal strength using only strands that are bonded for the full length of the beam. All partially bonded strands are neglected in strength computations.



**NOTE:**  
The Dead Load Deflection shown above at the tenth points are the initial deflections due to Deck Slab + Diaphragms + 5 p.s.f. Deck Form Allowance + Concrete Traffic Rail. It does not include the Beam weight or Future Wearing Surface.

Information shown on this sheet is applicable only to the standard bridge cross-section with 40' Clear Roadway, 8" Deck Slab and 4 Beams at 11'-4" spacing. Stay-In-Place Deck Forms are permitted if the conditions listed in the STAY-IN-PLACE DECK FORM NOTES on LONGITUDINAL SECTION sheet are satisfied. Any modification will require a custom design with an appropriate Dead Load Deflection Diagram.

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE 12-1-04

OKLAHOMA DEPT. OF TRANSPORTATION  
BRIDGE STANDARD (ENGLISH)  
**TYPE II P.C. BEAM DETAILS**  
45' SPAN  
INTEGRAL

1999 SPECIFICATIONS B40-I-PCB-II-45

O1E  
B-78E