

DESIGN SOFTWARE

DECK SLAB -
EST, INC. PROPRIETARY SOFTWARE (VERSION 1.0)
WINSTRUDL PROPRIETARY SOFTWARE (VERSION 4.1)

DECK CLOSURE SLAB -
EST, INC. PROPRIETARY SOFTWARE (VERSION 2.0)

PRESTRESSED CONCRETE BEAMS -
EST, INC. PROPRIETARY SOFTWARE (VERSION 4.0)

STEEL BEAMS -
MDX STEEL HIGHWAY GIRDER DESIGN PROGRAM (VERSION 6.5.141)
PENNDOT BRIDGE ANALYSIS AND RATING (BAR7) (VERSION 7.11)

BEARING PADS -
EST, INC. PROPRIETARY SOFTWARE (VERSION 3.0)

ABUTMENTS -
EST, INC. PROPRIETARY SOFTWARE (VERSION 1.0)
WINSTRUDL PROPRIETARY SOFTWARE (VERSION 4.1)

DESIGN DATA

CLASS AA CONCRETE $f'c = 4$ KSI
CLASS A CONCRETE $f'c = 3$ KSI
REINFORCING STEEL, AASHTO M 31 (GRADE 60) $f_y = 60$ KSI
STRUCTURAL STEEL, AASHTO M 270 (GRADE 50W) $F_y = 50$ KSI

LOADING -
HL-93
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN -
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION WITH 2010 INTERIMS, EXCEPT AS MODIFIED
BY CURRENT ODOT BRIDGE DIVISION DESIGN POLICIES.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE

LFD OPERATING RATING -
REFERENCE BEAM DETAIL SHEETS

APPROVED BY BRIDGE ENGINEER <i>Robert J. Dusch</i>	DATE 9-9-2011
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)	
DESIGN INFORMATION FOR COUNTY BRIDGE STANDARD DRAWINGS	
2009 SPECIFICATIONS	CB-INFO-DESIGN 01E
	CB-111E