

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OK	29925(04)			

DESIGN DATA

CLASS AA CONCRETE
 REINFORCING STEEL, AASHTO M 31 (GRADE 60)
 NEW STRUCTURAL STEEL, AASHTO M 270 (GRADE 36 MIN.)
 EXISTING STRUCTURAL STEEL, GRADE 36

$f'_c = 4 \text{ ksi}$
 $f_y = 60 \text{ ksi}$
 $f_y = 36 \text{ ksi MIN.}$
 $f_y = 36 \text{ ksi}$

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

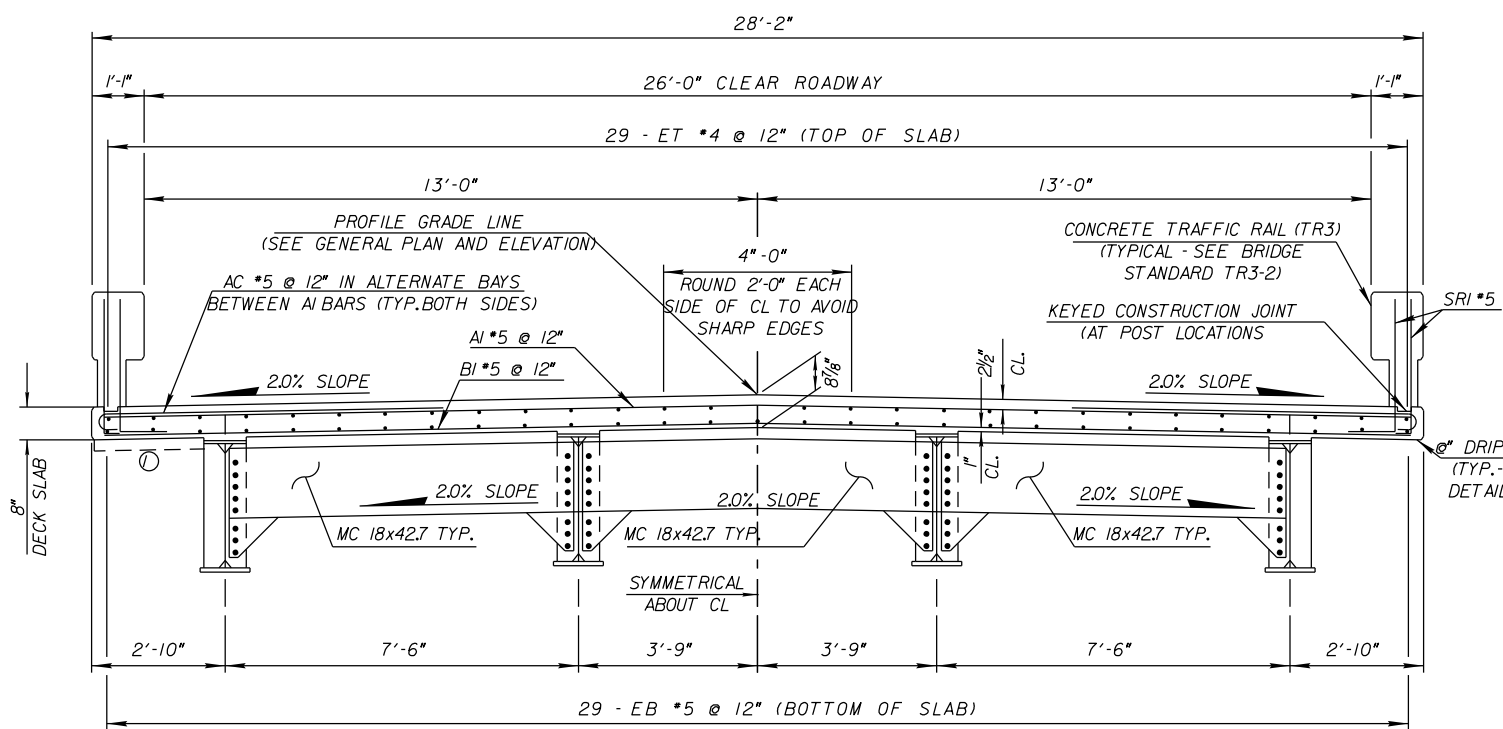
DESIGN -
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION WITH 2010 INTERIMS,
 EXCEPT AS MODIFIED BY CURRENT ODOT BRIDGE DIVISION DESIGN POLICIES.
 ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
 LFD OPERATING RATING - REFERENCE BEAM DETAIL SHEETS

NOTES

THE DESIGN SHEETS "TYPICAL CROSS SECTION, ROLLED BEAMS, 26' CLEAR ROADWAY, 0° SKEW" AND ROLLED BEAM DETAILS, 26' CLEAR ROADWAY, 0° SKEW" ARE FOR USE IN CONSTRUCTION OF SPAN BRIDGES WITH EITHER CONCRETE INTEGRAL OR CONVENTIONAL ABUTMENTS OR STEEL CONVENTIONAL ABUTMENTS UTILIZING THE OLD I-40 CROSSTOWN SALVAGED BEAMS SIZES W33X130, W33X141, W36X135, OR W36X150.

1. SINGLE OR MULTI SPAN INTEGRAL OR CONVENTIONAL CONCRETE ABUTMENT BRIDGES: THE FOLLOWING 2009 LRFD COUNTY BRIDGE STANDARDS, OR PARTS OF THEM, ARE REQUIRED IN ADDITION TO THE DESIGN SHEETS MENTIONED ABOVE:

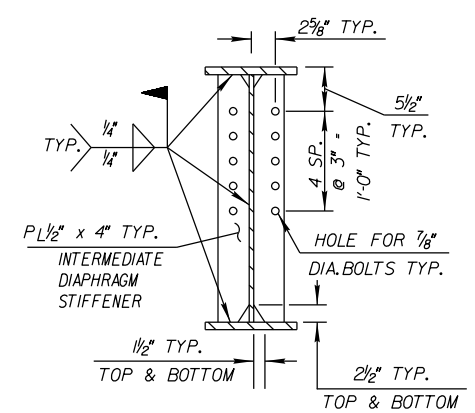
- CB26-C-SKO-DKSLB-BLST - DECK SLAB BAR LIST
 - CB26-C-SKO-DIA-END-RB - END DIAPHRAM DETAILS ROLLED BEAMS
 - CB26-C-SKO-30-DIA-INT-RB - INTERMEDIATE DIAPHRAM DETAILS ROLLED BEAMS
 - CB26-C-SKO-LSECT-RB - LONGITUDINAL SECTION ROLLED BEAMS
 - CB26-C-SKO-ABUT-RB-55100 - ABUTMENT DETAILS 55' THRU 100' ROLLED BEAMS
 - CB26-C-SKO-30-BRG-RB - BEARING DETAILS ROLLED BEAMS
 - CB26-C-SKO-SPR-QUAN-RB - SUPERSTRUCTURE QUANTITIES ROLLED BEAMS
 - CB26-32-C-SKO-WING-RB-55100 - WING DETAILS 55' THRU 100' ROLLED BEAMS
 - CB26-32-C-SKO-ABUT-MISC - SUPERSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
 - CB26-32-C-J-SKO-30-RB-BRACING - ROLLED BEAM BRACING DETAILS FOR PLACEMENT OF DECK SLAB CONCRETE
 - CB26-32-C-J-SKO-30-GRAU-BC - GUARDRAIL ANCHOR UNIT - BRIDGE CONNECTION
 - CB26-C-SKO-30-RB-80100 - ROLLED BEAM DETAILS 80' THRU 100' SPANS
 - CB26-C-SKO-30-RB-5575 - ROLLED BEAM DETAILS 55' THRU 75' SPANS
 - CB26-C-SKO-30-RB-55100 - ROLLED BEAM DETAILS 55' THRU 100' SPANS
- HPI-2
 (THESE STANDARDS ARE BASED ON A 3-BEAM SYSTEM. SOME OF THEM WILL, THEREFORE, NEED TO BE MODIFIED FOR USE ON A 4-BEAM SYSTEM.)



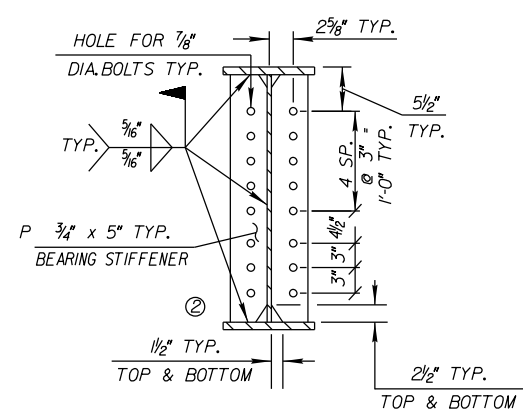
HALF SECTION AT END DIAPHRAGM
 ① REFER TO APPLICABLE STANDARDS FOR ADDITIONAL DECK REINFORCING AND DIMENSIONS NOT SHOWN HERE.

HALF SECTION AT INTERMEDIATE DIAPHRAGM

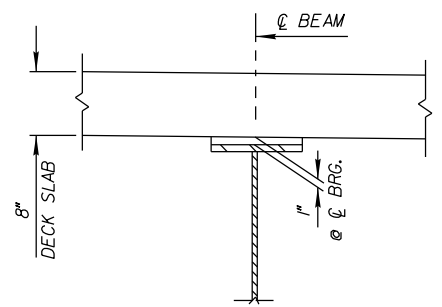
TYPICAL CROSS SECTION
 NOTE: W33X141 BEAMS SHOWN, W33X130, W36X135 OR W36X150 SIMILAR



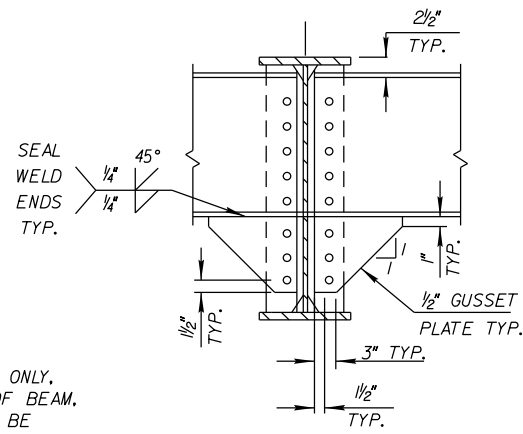
INTERMEDIATE DIAPHRAGM STIFFENER DETAILS
 DETAIL SHOWN AT INTERIOR BEAM. OMIT INTERMEDIATE DIAPHRAGM STIFFENERS AT OUTSIDE FACE OF EXTERIOR BEAM.



BEARING STIFFENER DETAILS
 DETAIL SHOWN AT INTERIOR BEAM. OMIT BOLT HOLES IN BEARING STIFFENERS AT OUTSIDE FACE OF EXTERIOR BEAM.
 ② MILL TO BEAR AT BOTTOM OF FLANGE



DETAIL OF HAUNCH
 HAUNCH HEIGHT SHOWN IS AT CENTERLINE BEARING ONLY, MEASURED FROM BOTTOM OF DECK SLAB TO TOP OF BEAM, AND VARIES ACROSS THE SPAN. HAUNCH HEIGHT TO BE DETERMINED AFTER ERECTION OF BEAMS TO PROVIDE FOR DEAD LOAD DEFLECTION AND GRADE ADJUSTMENT.



GUSSET DETAILS

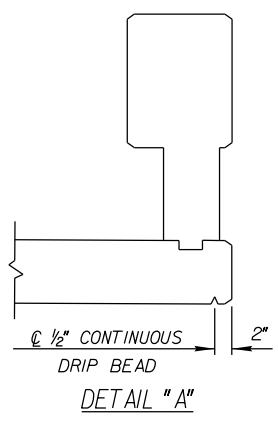
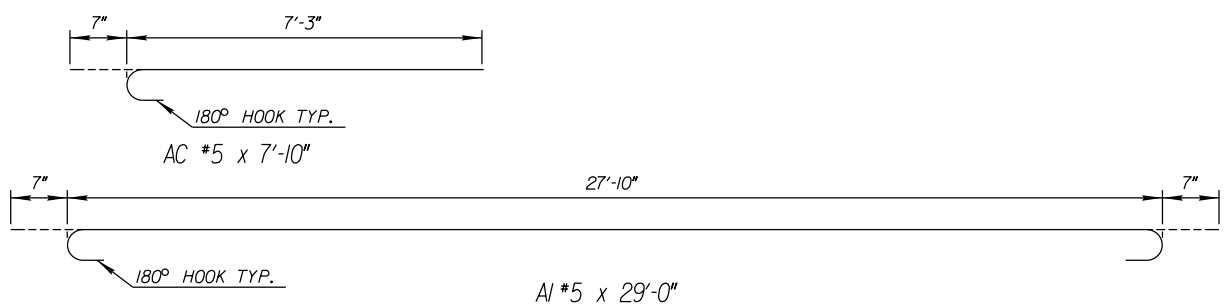
GENERAL NOTES

- 1. STAY-IN-PLACE STEEL DECK FORMS MAY BE USED IF THE MINIMUM DECK SLAB THICKNESS OF 8" IS OBTAINED BY MEASURING FROM THE TOP OF THE DECK SLAB TO THE TOP PORTION OF THE STEEL CORRUGATION. NO ADDITIONAL CONCRETE WEIGHT OF THE DECK SLAB IS PERMITTED. ADDITIONAL STEEL WEIGHT OF THE DECK FORMS SHALL NOT EXCEED 5 PSF. STAY-IN-PLACE PRESTRESSED CONCRETE DECK FORMS MAY BE USED IF THE FOLLOWING CONDITIONS ARE MET:
 - 1) SHOP DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE FORMS ARE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
 - 2) A NEW STRUCTURAL DESIGN, STRUCTURAL CALCULATIONS, AND A NEW REINFORCING SCHEDULE FOR THE DECK SLAB ARE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
 - 3) SHOP DRAWINGS, NEW DECK SLAB REINFORCING SCHEDULE AND STRUCTURAL DESIGNS AND CALCULATIONS SHALL BE PREPARED BY AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OKLAHOMA AND SHALL BE SUBMITTED TO THE ODOT BRIDGE ENGINEER FOR APPROVAL.

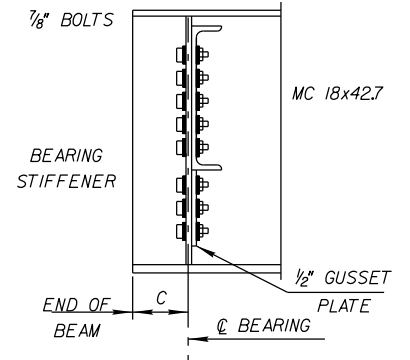
ALL COSTS ASSOCIATED WITH THE USE OF STAY-IN-PLACE FORMS, INCLUDING ALL PROFESSIONAL SERVICES, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS, SHALL BE AT THE CONTRACTOR'S EXPENSE. FOR ADDITIONAL INFORMATION CONCERNING THE USE OF STAY-IN-PLACE FORMS, SEE SECTION 502 OF THE STANDARD SPECIFICATIONS.

DO NOT SAW CUT GROOVE OR TINE THE DECK SLAB WITHIN 6" OF ANY CONSTRUCTION JOINT.

ALL STRUCTURAL STEEL COST ASSOCIATED WITH THE USE OF CROSS TOWN BEAMS USED ALONE OR IN COMBINATION WITH NEW ROLLED BEAMS MODIFIED FOR USE ON A 4 BEAM SYSTEM INCLUDING ALL PROFESSIONAL SERVICES, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL. STRUCTURAL STEEL DESIGN, CALCULATIONS AND QUANTITIES SHALL BE SUBMITTED TO THE ODOT BRIDGE ENGINEER FOR APPROVAL.



DETAIL "A"



END DIAPHRAGM SECTION
 (SEE BEAM DETAILS FOR DIMENSION "C")

SOUTHEAST #3 CIRCUIT ENGINEERING DISTRICT
 ATOKA COUNTY

TYPICAL CROSS SECTION
 ROLLED BEAMS
 26' CLEAR ROADWAY, 0° SKEW
 STATE JOB NO. 29925(04) SHEET NO. B005