

**GENERAL NOTES**

ASSUMED LIVE LOAD = AREMA E80 WITH FULL DIESEL IMPACT OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF AREMA'S MANUAL FOR RAILWAY ENGINEERING, "VOL. 2, STRUCTURES" AND CSX TRANSPORTATION'S "UNDERGRADE BRIDGE CRITERIA INCLUDING BALLAST DECK" AND THE STRUCTURE SPECIAL PROVISIONS.

WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) BRIDGE WELDING CODE D1.5 AS AMENDED AND COMPLEMENTED BY THE AREMA MANUAL.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM DESIGNATION A615, GRADE 60. ALL DIMENSIONS RELATING TO BAR SPACING ARE TO BAR CENTERS UNLESS NOTED. ALL REINFORCING IN THE CONCRETE DECK SLAB AND PARAPETS SHALL BE EPOXY COATED. COMPATIBLE EPOXY COATED STEEL TIE WIRES SHALL BE USED WITH THE EPOXY COATED BARS.

EXPANSION JOINT MATERIAL SHALL BE EITHER RUBBER OR CORK CONFORMING WITH AASHTO SPECIFICATIONS M-153-84 EXCEPT AS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. CELLULAR AND BULB TYPE WATERSTOPS AND RUBBER JOINT COMPOUNDS SHALL BE AS SHOWN ON THE PLANS AND IN THE SPECIAL PROVISIONS.

METAL DRAINS BEHIND ABUTMENTS AND IN BALLAST TROUGH OF BRIDGE, INCLUDING DUCTILE IRON PIPE COLLECTOR SYSTEM, SHALL BE AS SHOWN ON THE PLANS AND OUTLINED IN THE SPECIAL PROVISIONS. DETAILS OF THE DRAINAGE SYSTEM SHALL BE SUBMITTED FOR REVIEW.

WATERPROOFING: BRIDGE DECK, ALL CONSTRUCTION JOINTS AND ANY VISIBLE SHRINKAGE CRACKS WHICH WILL BE COVERED BY FILL SHALL BE WATERPROOFED WITH A COLD LIQUID - APPLIED ELASTOMERIC MEMBRANE. FOR WATERPROOFING, SEE SPECIAL PROVISIONS.

- WATERPROOFING IS REQUIRED AT THE FOLLOWING LOCATIONS:
1. OVER ENTIRE TOP SURFACE OF REINFORCED CONCRETE DECK SLAB AND INSIDE FACES OF CONCRETE PARAPETS TO PROPOSED BALLAST ELEVATION.
  2. ALONG FULL LENGTH OF HORIZONTAL CONSTRUCTION JOINT AT TOP OF CAP/FOOTING WITH BACKWALL AT EACH ABUTMENT (FILL FACE OF BACKWALL AND WINGWALLS ONLY).
  3. ALONG FULL CIRCUMFERENCE OF EACH BOTTOM OF COLUMN TO TOP OF FOOTING INTERFACE.
  4. AT ANY CONCRETE SHRINKAGE CRACKS WHICH WILL BE COVERED BY FILL.

WATERPROOFING FOR LOCATIONS 2, 3 AND 4 ABOVE SHALL BE 24" WIDE AND SHALL BE CENTERED OVER JOINTS OR CRACKS.

DAMPPOOFING SHALL BE APPLIED TO THE FOLLOWING SURFACES REGARDLESS OF WHETHER OR NOT THE PLAN DETAILS SO INDICATE:

1. ON FILL SIDE TOP OF FOOTING AND FILL FACE OF BACKWALL AT EACH ABUTMENT.
2. ON FILL FACE OF ABUTMENT WINGWALLS FROM BOTTOM OF WINGWALL TO TOP OF BACKWALL ELEVATION AT EACH ABUTMENT.
3. TOP OF PIER FOOTINGS AND PIER COLUMNS UP TO PROPOSED GROUND LINE.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOR PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES", JANUARY 2012, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (HEREIN CALLED STANDARD SPECIFICATIONS), EXCEPT AS NOTED HEREIN, ELSEWHERE ON PLANS, OR IN THE SPECIAL PROVISIONS.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

THE ELEVATION(S) AND CLEARANCE(S) SHOWN ON THE PLANS AT THE POINT(S) OF MINIMUM VERTICAL CLEARANCE ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATION(S) ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.

ALL CONSTRUCTION JOINTS SHOWN ON THESE PLANS SHALL BE REQUIRED UNLESS SHOWN AS OPTIONAL. CONSTRUCTION JOINTS SHALL NOT BE PERMITTED EXCEPT AS SHOWN ON THE PLANS, OR WHERE WRITTEN APPROVAL HAS BEEN OBTAINED.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH SEISMIC PERFORMANCE CATEGORY A REQUIREMENTS OF THE AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", AND CHAPTER NINE "SEISMIC DESIGN FOR RAILWAY STRUCTURES" OF THE CURRENT EDITION OF AREMA'S MANUAL FOR RAILWAY ENGINEERING, "VOL. 2 STRUCTURES".

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR SELF-LUBRICATING EXPANSION BEARING ASSEMBLIES, SEE SPECIAL PROVISIONS.

SEE "STRUCTURAL STEEL DETAILS" SHEET FOR STRUCTURAL STEEL NOTES.

FOR BACKFILL BEHIND ABUTMENTS AND OTHER BACKFILL AROUND THE STRUCTURE, SEE SPECIAL PROVISION "BACKFILLING AROUND STRUCTURES".

FOR PAINTING STEEL STRUCTURES, SEE SPECIAL PROVISIONS.

FOR WATERSTOPS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC FLASHING, SEE SPECIAL PROVISIONS.

FOR RUBBER JOINT COMPOUNDS, SEE SPECIAL PROVISIONS.

FOR STRUCTURAL STEEL, SEE SPECIAL PROVISIONS.

FOR RAILROAD TRACKWORK, SEE RAILROAD TRACKWORK PLANS.

FOR ARCHITECTURAL TREATMENT, SEE SPECIAL PROVISIONS.

FOR WATERPROOFING, SEE SPECIAL PROVISIONS.

FOR REINFORCING, CONCRETE, AND DAMPPROOFING, SEE "CAST-IN-PLACE CONCRETE", SPECIAL PROVISION.

ONLY ITEMS IN THE PROPOSAL AS PAY ITEMS WILL BE PAID FOR. COMPENSATION FOR ALL LABORS, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS FOR THE ENTIRE CONTRACT SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEMS.

FOR FOUNDATION NOTES, SEE "FOUNDATION LAYOUT" SHEET.

FOR APPLICATION OF BRIDGE COATING, SEE SPECIAL PROVISION.

FOR CONCRETE PARAPET, SEE SPECIAL PROVISION.

FOR MASS CONCRETE AT PIER 1 AND PIER 2, SEE SPECIAL PROVISIONS.

PROJECT NO. P-4900A

ROBESON COUNTY

STATION: POC 38+93.36 -L-

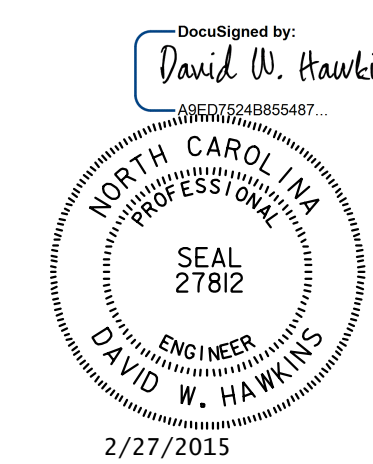
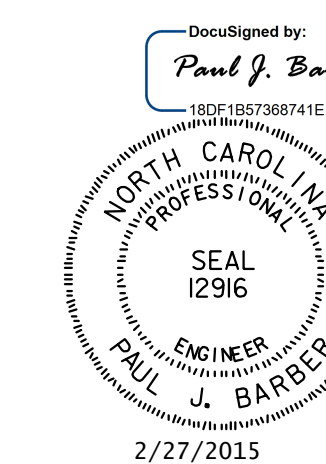
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SHEET 4 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

GENERAL DRAWING

GENERAL NOTES



<b>HNTB</b>		HNTB NORTH CAROLINA, P.C. License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS				SHEET NO. <b>S-23</b>
DRAWN BY	M. WRIGHT	DATE	8/14	NO.	BY:	DATE:	TOTAL SHEETS	
CHECKED BY	P. BARBER	DATE	9/14	1			54	
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