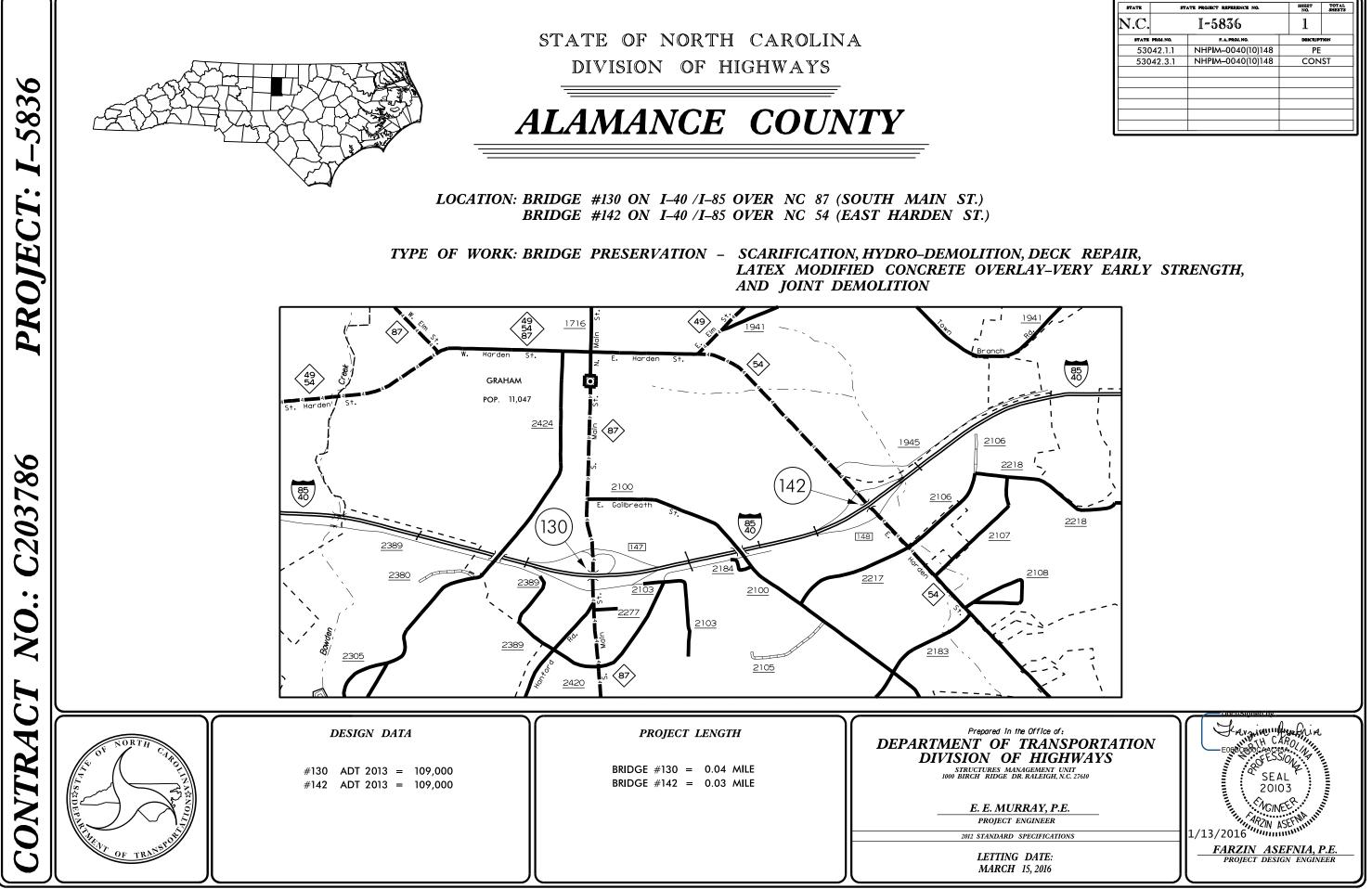
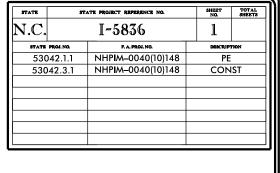
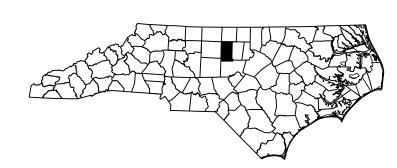
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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ALAMANCE COUNTY

LOCATION: BRIDGE #130 ON I-40 /I-85 OVER NC 87 (SOUTH MAIN ST.) BRIDGE #142 ON I-40 /I-85 OVER NC 54 (EAST HARDEN ST.)

TYPE OF WORK: BRIDGE PRESERVATION – SCARIFICATION, HYDRO-DEMOLITION, DECK REPAIR, LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH, AND JOINT DEMOLITION

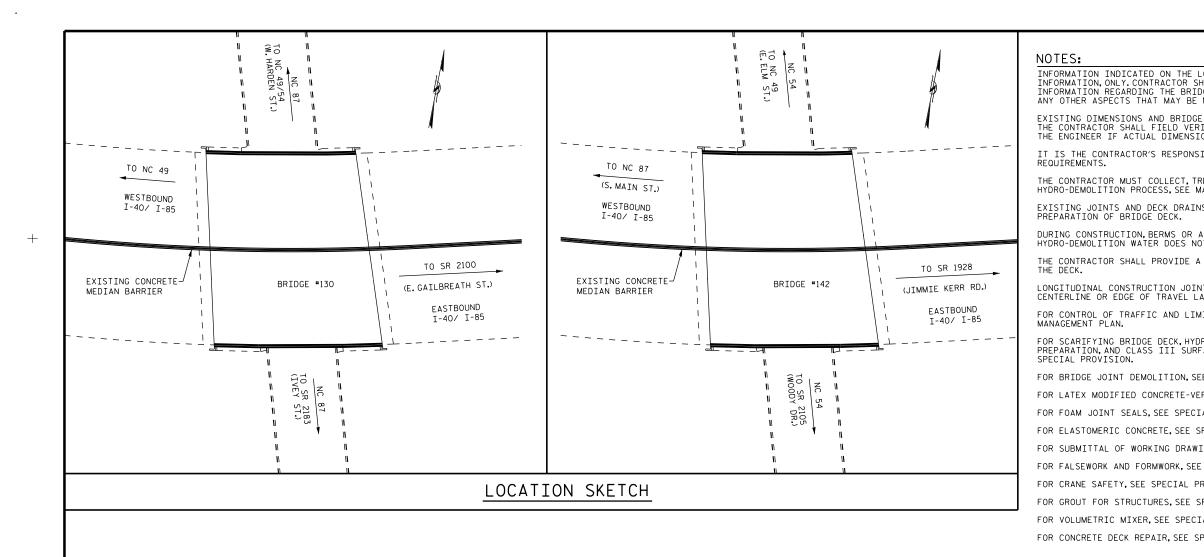
INDEX OF SHEETS

1	TITLE SHEET			
1A	INDEX OF SHEETS			
S–1 – S–14	STRUCTURAL PLANS			
SN	STANDARD NOTES			

5836

PROJECT:

STATE		STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		I-5836	1A	
STAT	TATE PROJ.NO. P. A. PROJ. NO. DESCRIPTION		ION	
53042.1.1 NHPIA		NHPIM-0040(10)148	P.E.	
53042.3.1 NHPIM-C		NHPIM-0040(10)148	CONS	T.



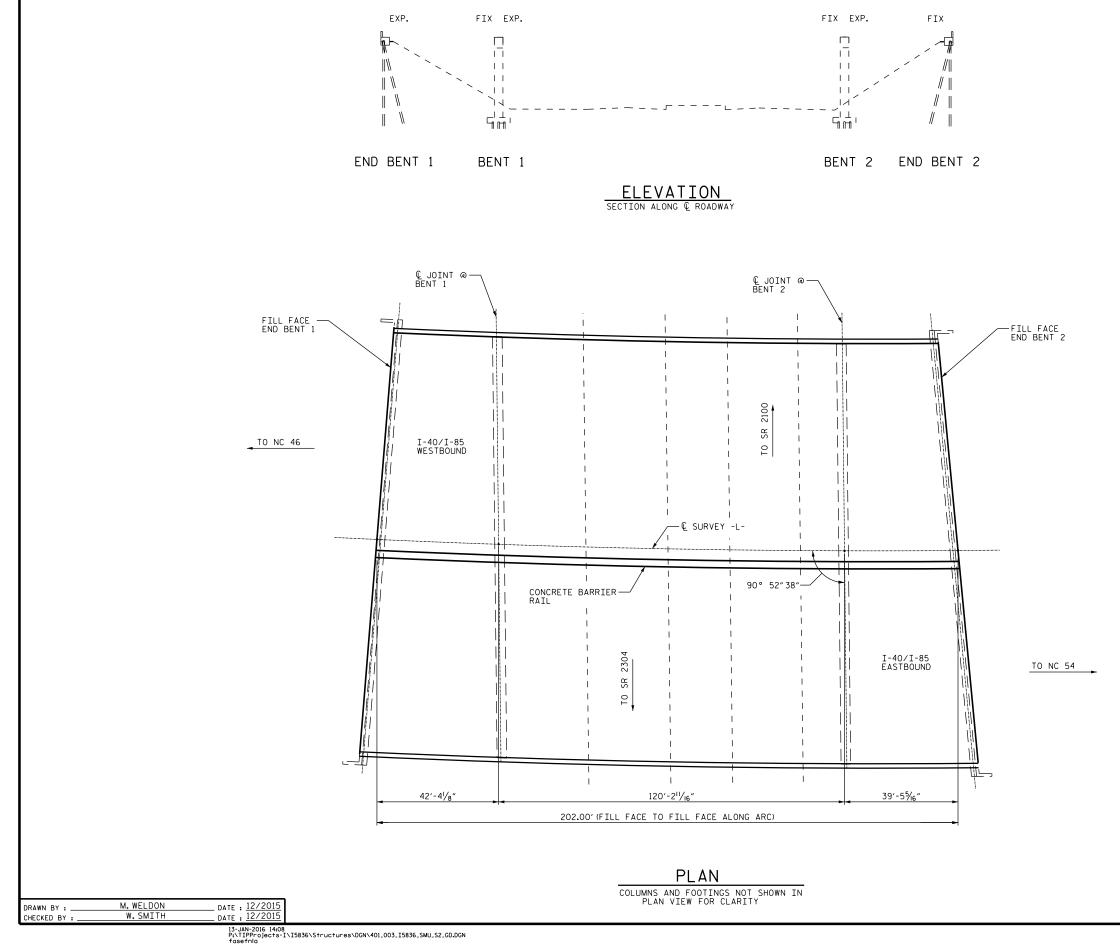
BRIDGE NO.	GROOVING BRIDGE FLOORS	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	* * LATEX MODIFIED CONCRETE OVERLAY -VES	PLACING & FINISHING OF LATEX MODIFIED CONCRETE OVERLAY -VES	FOAM JOINT SEALS	* VOLUMETRIC MIXER	* CONCRETE FOR DECK REPAIR	BRIDGE JOINT DEMOLITION	SCARIFYING BRIDGE DECK	
	SQ.FT.	SQ.YDS.	SQ.FT.	C.Y.	SQ.YDS.	LUMP SUM	LUMP SUM	CU.FT.	SQ.FT.	SQ.YDS.	SQ.YDS.
130	30,320	3	3	148	3,536	LUMP SUM	LUMP SUM	1	264	3,536	3,536
142	24,587	3	3	121	2,888	LUMP SUM	LUMP SUM	1	248	2,888	2,888
TOTAL	54,907	6	6	269	6,424	LUMP SUM	LUMP SUM	2	512	6,424	6,424

* CLASS II AND CLASS III SURFACE PREPARATION, VOLUMETRIC MIXER, AND CONCRETE FOR DECK REPAIR ARE NOT ANTICIPATED. TOKEN PAY ITEMS ARE INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CLASS III SURFACE PREPARATION AREAS ARE ENCOUNTERED.

* * THE OUANTITY OF LATEX MODIFIED CONCRETE OVERLAY-VES INCLUDES THE 4"OVERLAP BETWEEN OVERLAYS.

RAWN BY :	D.V. JOYNER	DATE :	11/2015
LECKED BY	W. SMITH	DATE .	11/2015

CATION SKETCH SHALL BE CONSIDERED GENERAL ALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC WES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ECESSARY TO PERFORM AND COMPLETE THE PROJECT.
CONDITION ARE FROM BEST INFORMATION AVAILABLE. FY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY NS AND CONDITIONS DIFFER.
BILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY
AT AND DISPOSE OF RUN-OFF WATER FROM THE NAGING HYDRO-DEMOLITION WATER SPECIAL PROVISION.
SHALL BE SEALED PRIOR TO BEGINNING SURFACE
PPROPRIATE MEASURES SHALL BE USED TO ENSURE FLOW OR MIGRATE INTO ACTIVE TRAVEL LANES.
METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF
S OF OVERLAYS SHALL BE LOCATED ALONG THE NES.
TS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION
O-DEMOLITION OF BRIDGE DECK, CLASS II SURFACE CE PREPARATION, SEE OVERLAY SURFACE PREPARATION
SPECIAL PROVISIONS. LY EARLY STRENGTH, SEE SPECIAL PROVISIONS. L PROVISIONS. ECIAL PROVISIONS. IGS, SEE SPECIAL PROVISIONS. SPECIAL PROVISIONS. ECIAL PROVISIONS. L PROVISIONS. ECIAL PROVISION.
PROJECT NO. <u>I-5836</u> <u>ALAMANCE</u> COUNTY
BRIDGE NO. <u>130 & 142</u>
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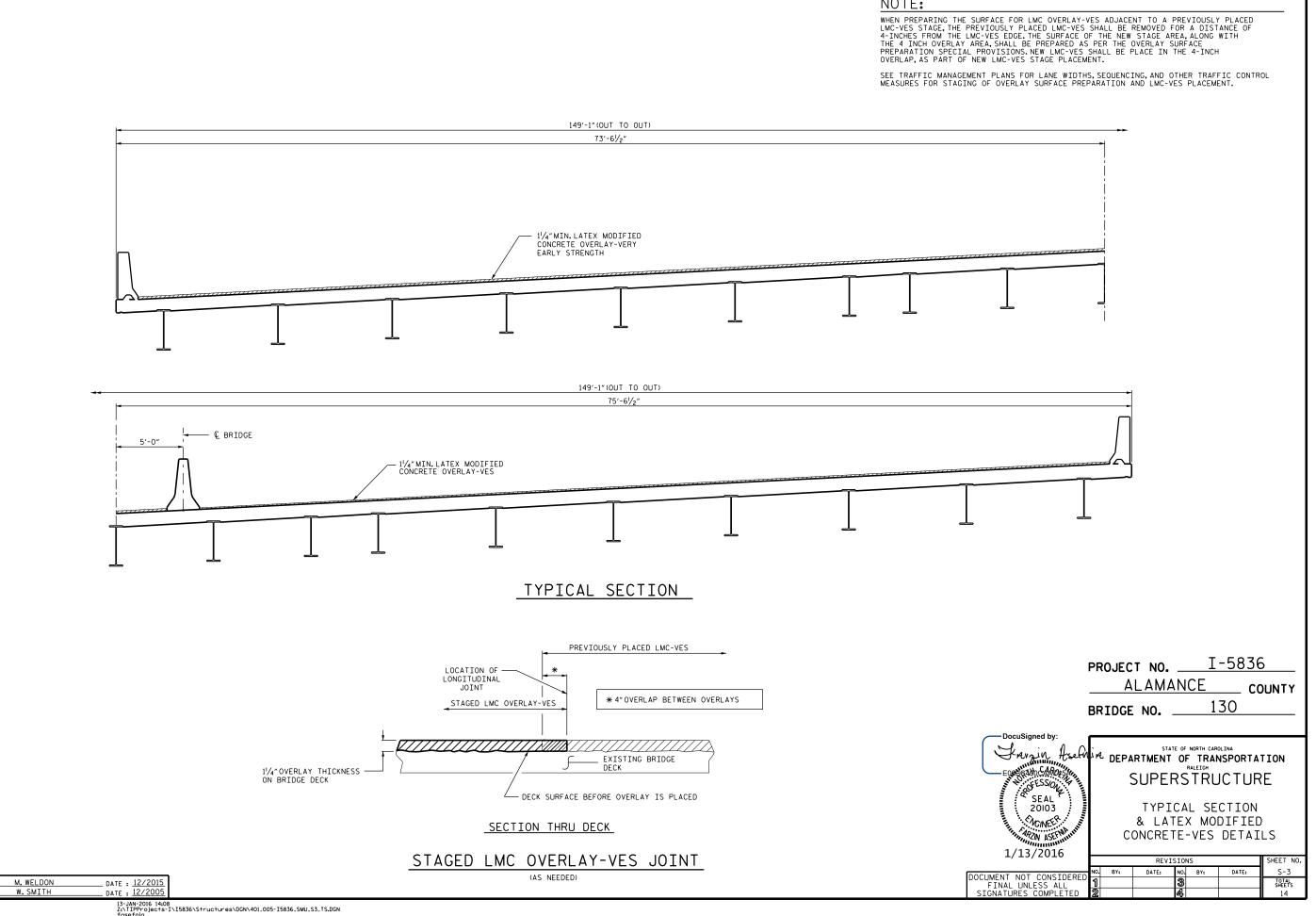


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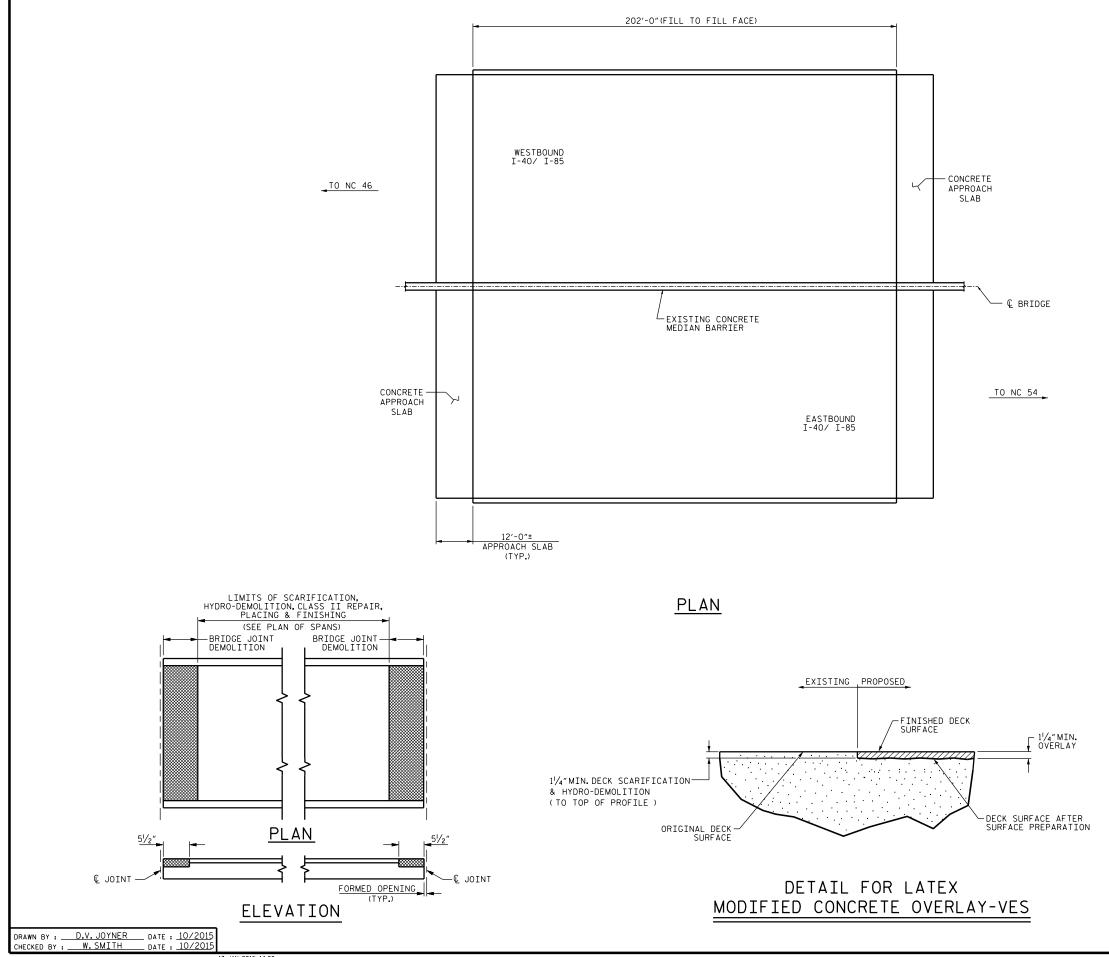


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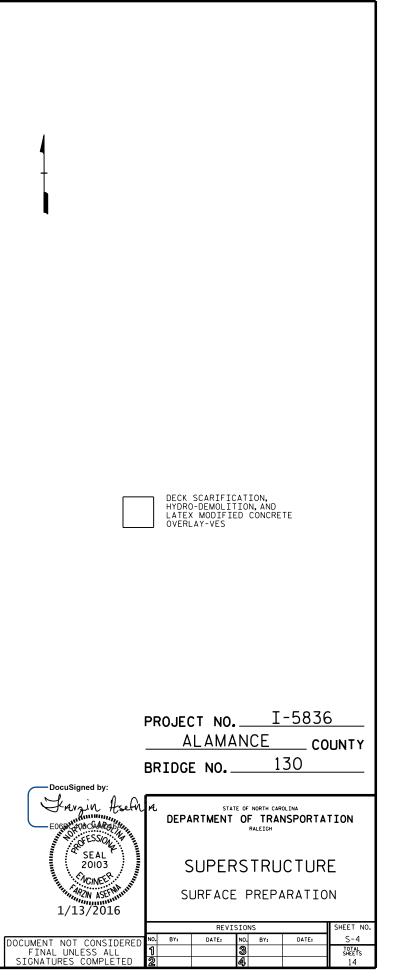


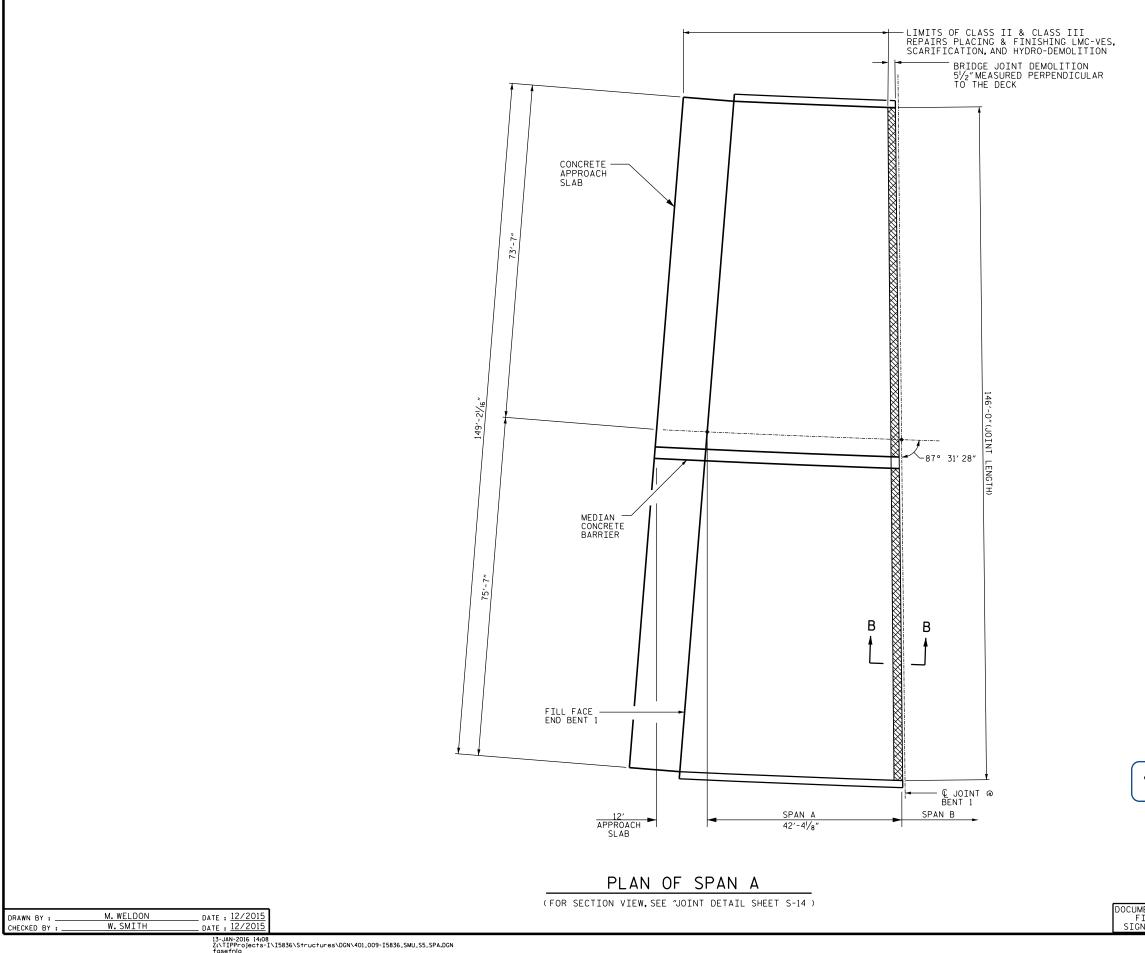
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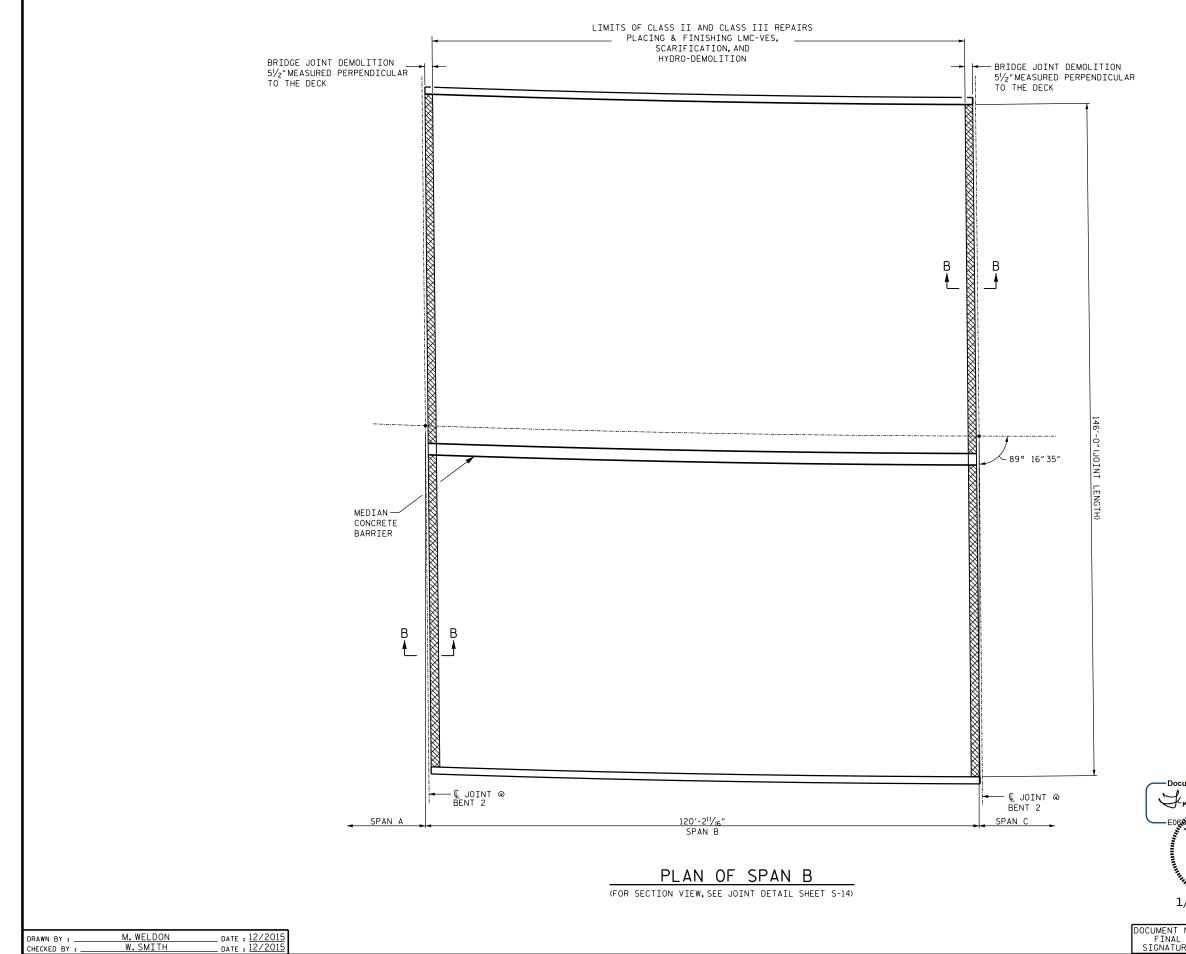
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SPAN ``A'' QUANTITIES						
	ESTIMATE	ACTUAL				
CLASS II SURFACE PREPARATION	1 SQ. YDS.					
CLASS III SURFACE PREPARATION	1 SQ. YDS.					
BRIDGE JOINT DEMOLITION	66.0 SQ.FT.					
SCARIFYING BRIDGE DECK	650.0 SQ. YDS.					
HYDRO-DEMOLITION OF BRIDGE DECK	650.0 SQ. YDS.					
SCARIFYING OF APPROACH SLAB	191.5 SQ. YDS.					
HYDRO-DEMOLITION OF APPROACH SLAB	191.5 SQ. YDS.					
PAYMENT FOR CLASS II & CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.						
CLASS II SURF PREPARATION	FACE					
BRIDGE JOINT	DEMOLITION					

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SCARIFICATION & HYDRO-DEMOLITION

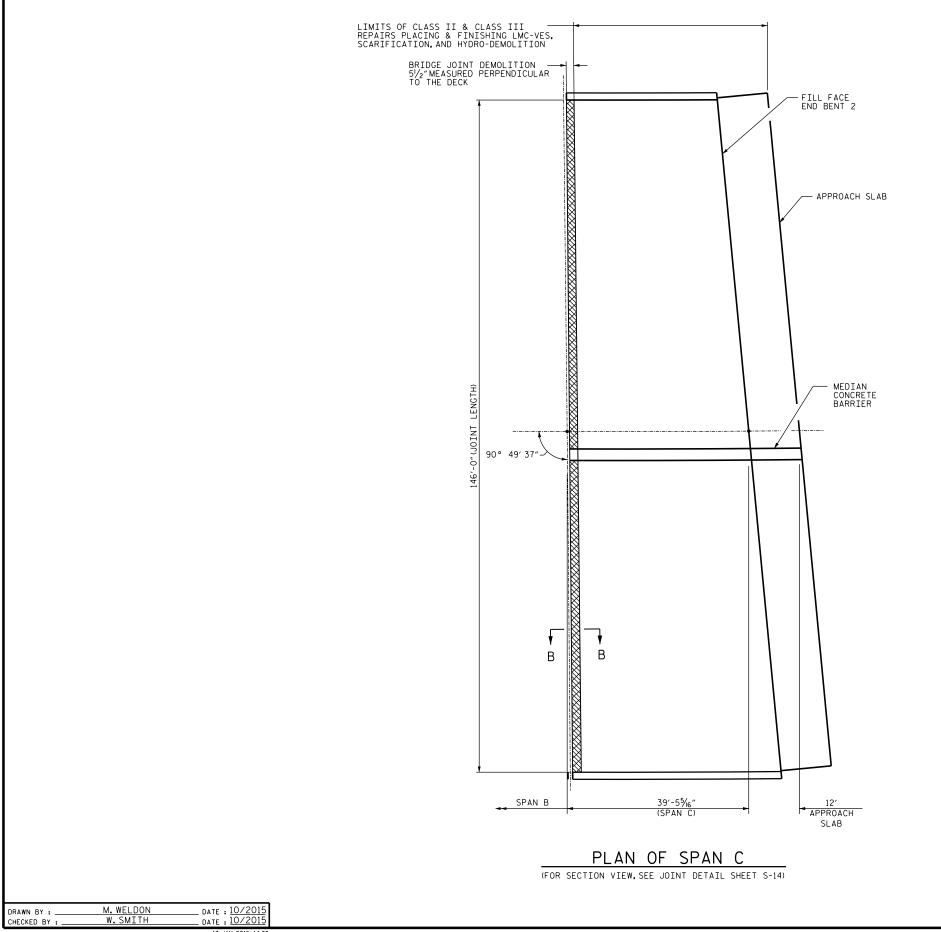
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		•	SPAN `	`B'' QU	ANTIT	IES	
		TT C		ESTIN	IATE	ACTUAL	
	CLASS PREPAR	NOITA	N	1 SQ	.YDS.		
	CLASS PREPAR		SURFACE	1 SQ	.YDS.		
	BRIDGE DEMOLI		ΙT	132.0 S	Q.FT.		
	SCARIF BRIDGE			1,899.0 \$	SQ. YDS.		
	HYDRO- OF BRI			1,899.0	SQ. YDS.		
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			S II SUF ARATION	RFACE			
		BRID	GE JOINT	DEMOLI	TION		
			IFICATIO O-DEMOLI				
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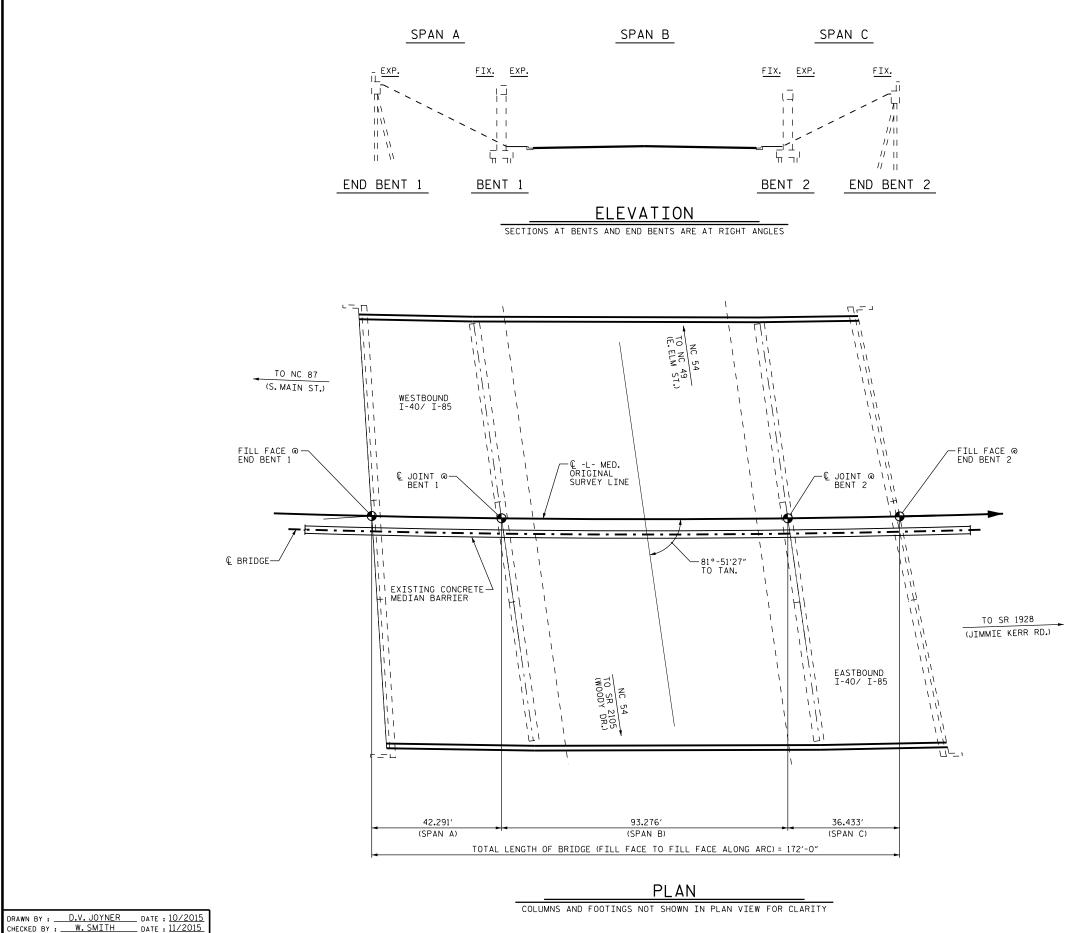
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	SPAN	``C'' QUANTI	TIES				
	CLASS II SURFACE	ESTIMATE	ACTUAL				
	PREPARATION	1 SQ. YDS.					
	CLASS III SURFACE PREPARATION	1 SQ. YDS.					
	BRIDGE JOINT DEMOLITION	66.0 SQ.FT.					
	SCARIFYING BRIDGE DECK	604.0 SQ. YDS.					
	HYDRO-DEMOLITION OF BRIDGE DECK	604.0 SQ. YDS.					
	SCARIFYING OF APPROACH SLAB	191.5 SQ. YDS.					
	HYDRO-DEMOLITION OF APPROACH SLAB	191.5 SQ. YDS.					
PAYMENT FOR CLASS II & CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.							
	CLASS II SU PREPARATION						
	BRIDGE JOINT DEMOLITION						
	SCARIFICATI HYDRO-DEMOL						
		-					
		CT NO.					
	ALAMANCE COUNTY						
BRIDGE NO. <u>130</u>							
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	SEAL S	URFACE PRE	PARATION				
······································	MGINE	SPAN C					
1/1 1/1	AZIN ASEFTITUTU 13/2016	APPROACH	1 SLAB				
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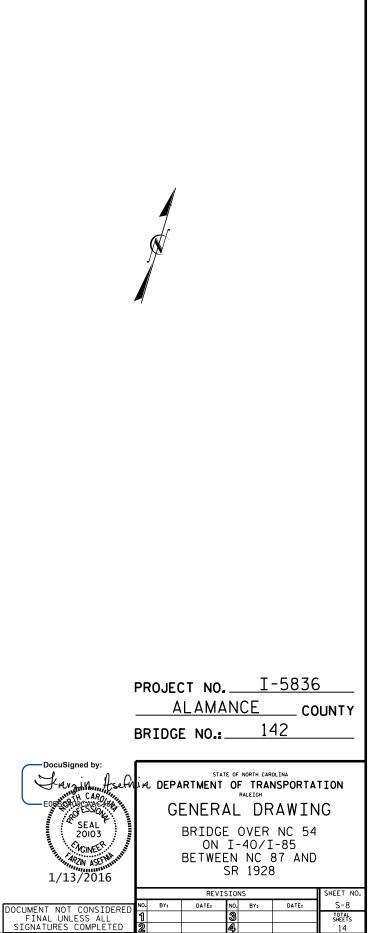
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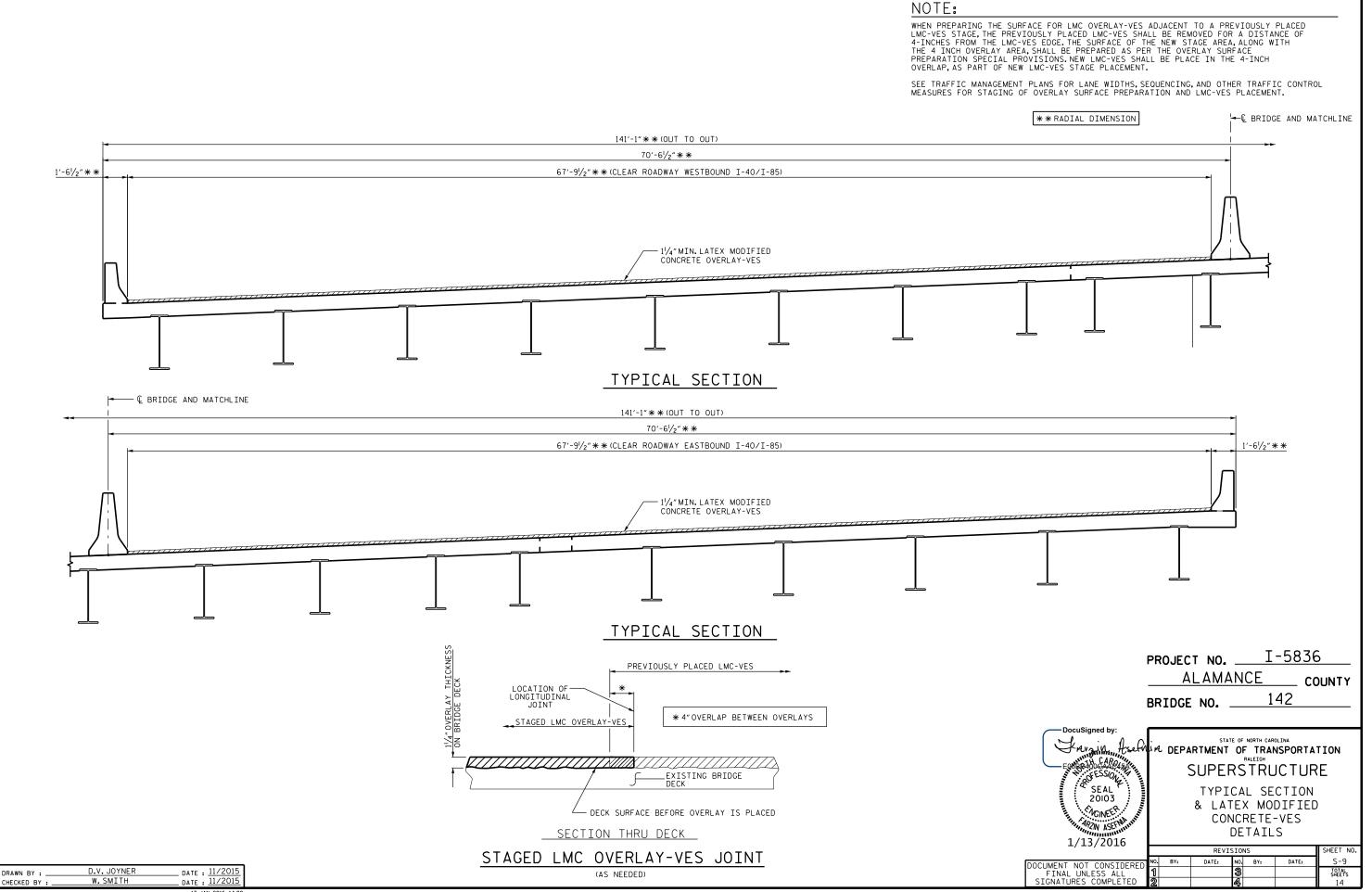
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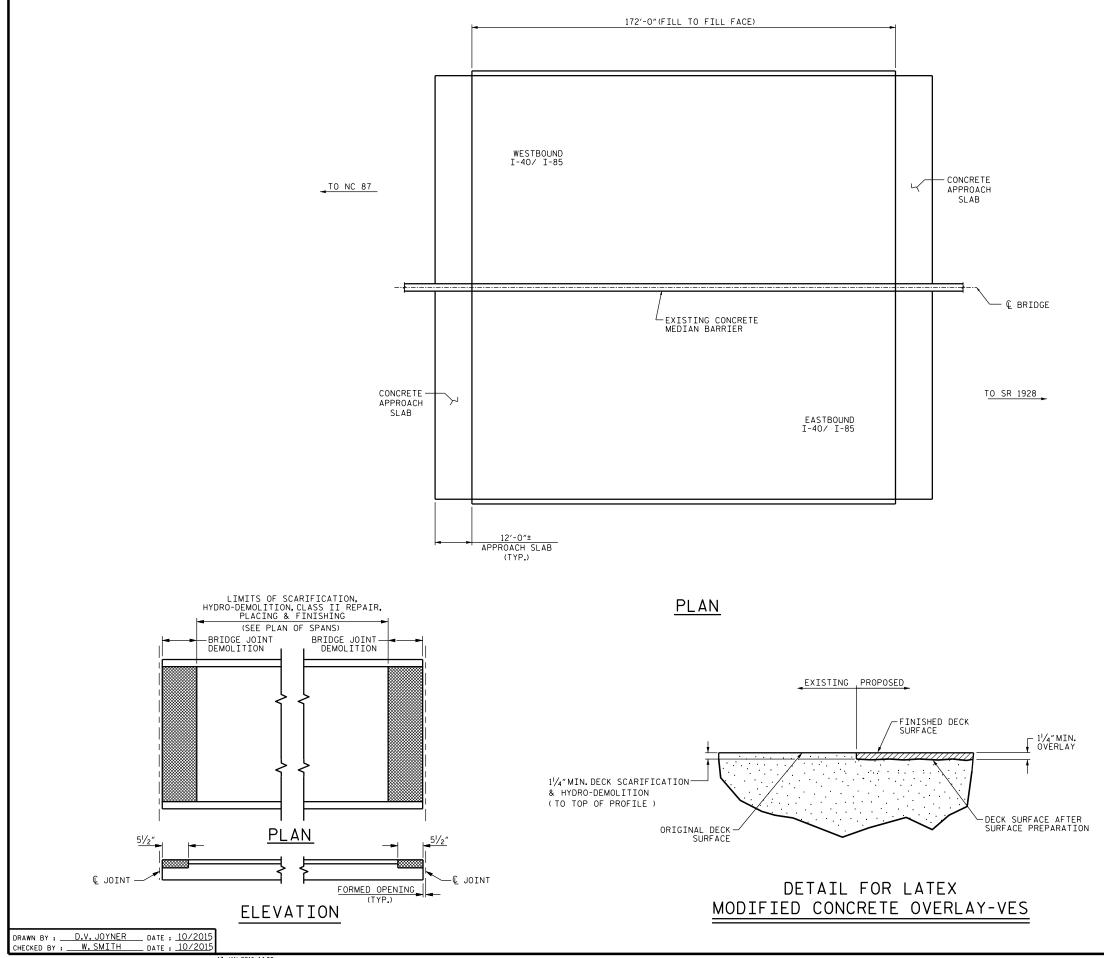
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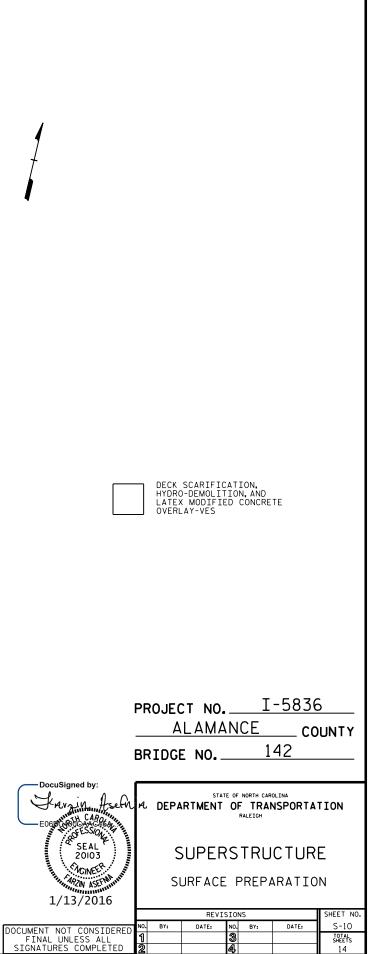


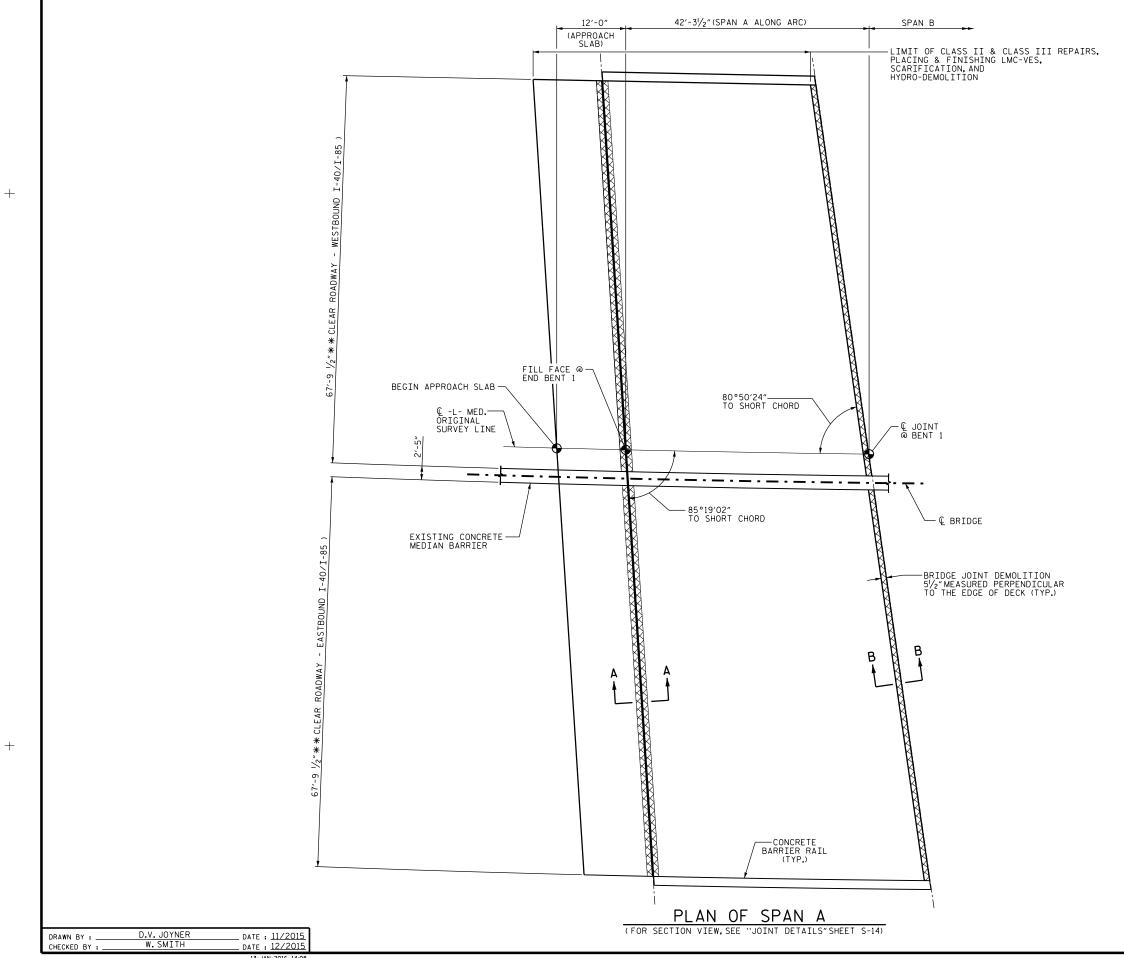
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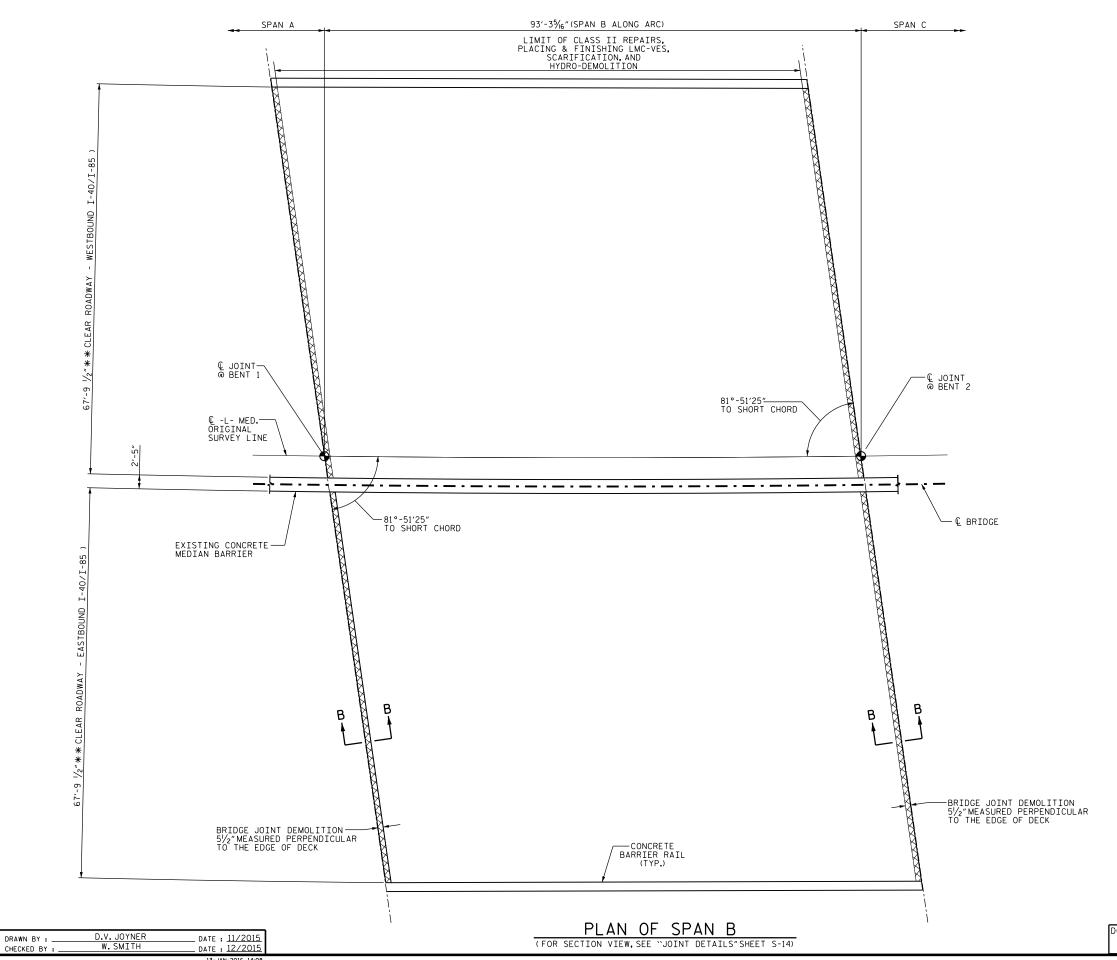




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	SPAN ``A	" QUANTITI	ES
		ESTIMATE	ACTUAL
PREP	S II SURFACE ARATION	1 SQ. YDS.	
CLAS PREP	S III SURFACE ARATION	1 SQ. YDS.	
	GE JOINT DLITION	62 SQ.FT.	
	IFYING DGE DECK	612 SQ. YDS.	
	O-DEMOLITION RIDGE DECK	612 SQ. YDS.	
	IFYING COACH SLAB	181 SQ. YDS.	
	O-DEMOLITION PPROACH SLAB	181 SQ. YDS.	
PREP ADDI HYDR SPEC	MENT FOR CLASS ARATION IS BASI TIONAL DEMOLIT O-DEMOLITION OF IAL PROVISIONS. RADIAL DIMENSIO	ED ON THE SQUAR ION REQUIRED FC THE BRIDGE DE	E FEET OF DLLOWING
	CLASS	5 II SURFACE RATION	
	BRID	GE JOINT DEMOLI	ITION
		FICATION & D-DEMOLITION	
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SPAN ``B" QUANTITIES			
	ESTIMATE	ACTUAL	
CLASS II SURFACE PREPARATION	1 SQ. YDS.		
CLASS III SURFACE PREPARATION	1 SQ. YDS.		
BRIDGE JOINT DEMOLITION	124 SQ.FT.		
SCARIFYING BRIDGE DECK	1388 SQ. YDS.		
HYDRO-DEMOLITION OF BRIDGE DECK	1388 SQ. YDS.		

PAYMENT FOR CLASS II & CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.



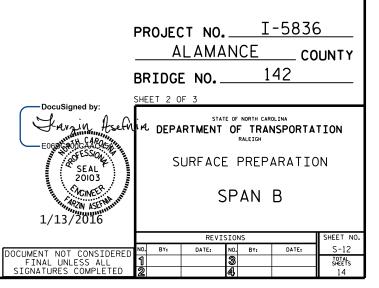
CLASS II SURFACE PREPARATION

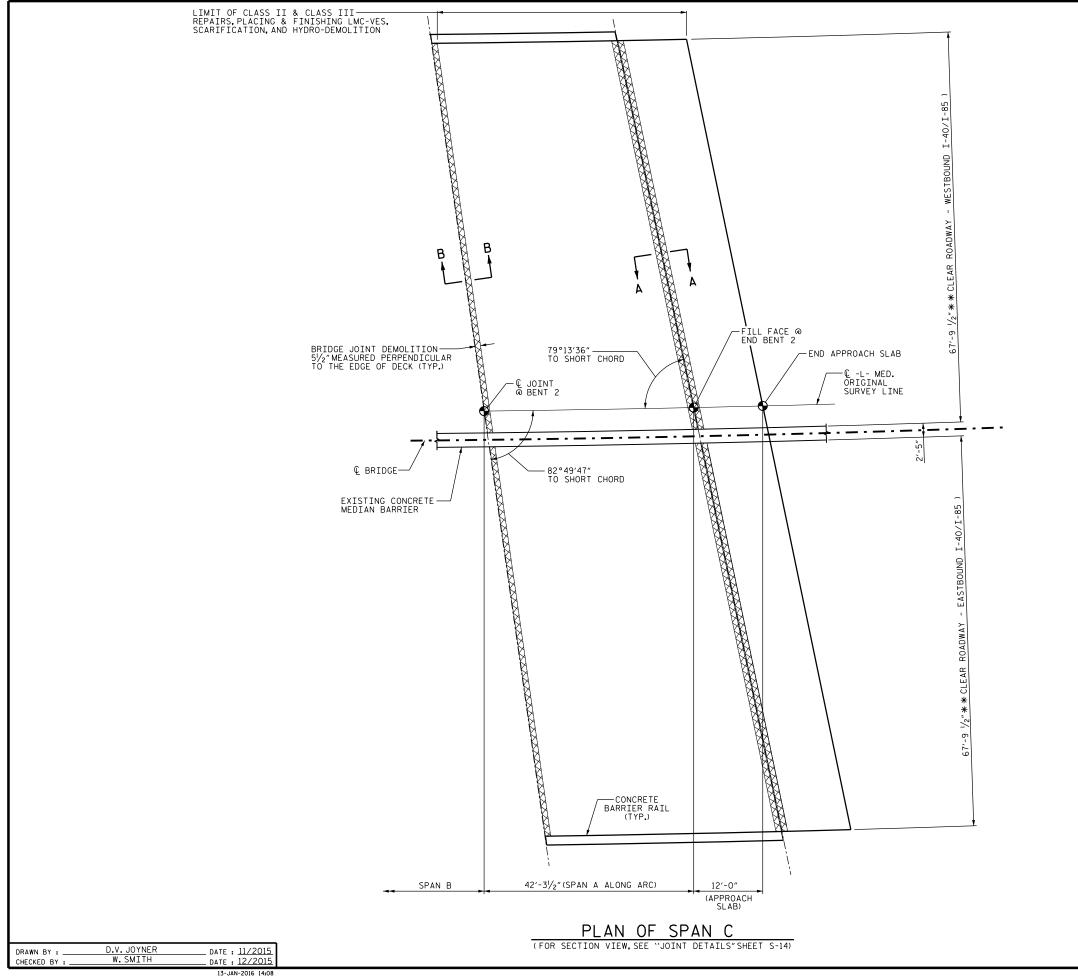


BRIDGE JOINT DEMOLITION



SCARIFICATION & HYDRO-DEMOLITION





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	SPAN ``C'' QUANTITIES				
		ESTIMATE	ACTUAL		
P	LASS II SURFACE REPARATION	1 SQ. YDS.			
C P	LASS III SURFACE REPARATION	1 SQ. YDS.			
B	RIDGE JOINT EMOLITION	62 SQ.FT.			
	CARIFYING RIDGE DECK	526 SQ.YDS.			
H O	YDRO-DEMOLITION F BRIDGE DECK	526 SQ.YDS.			
	CARIFYING PPROACH SLAB	181 SQ. YDS.			
	YDRO-DEMOLITION F APPROACH SLAB	181 SO. YDS.			
PAYMENT FOR CLASS II & CLASS III SURFACE PREPARATION IS BASED ON THE SOUARE FEET OF ADDITIONAL DEMOLITION REOUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.					
*	* RADIAL DIMENSIO	Ν			
CLASS II SURFACE PREPARATION BRIDGE JOINT DEMOLITION					
SCARIFICATION & HYDRO-DEMOLITION					
PROJECT NO. <u>I-5836</u> <u>ALAMANCE</u> COUNTY BRIDGE NO. <u>142</u>					
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SPAN C AND APPROACH SLAB

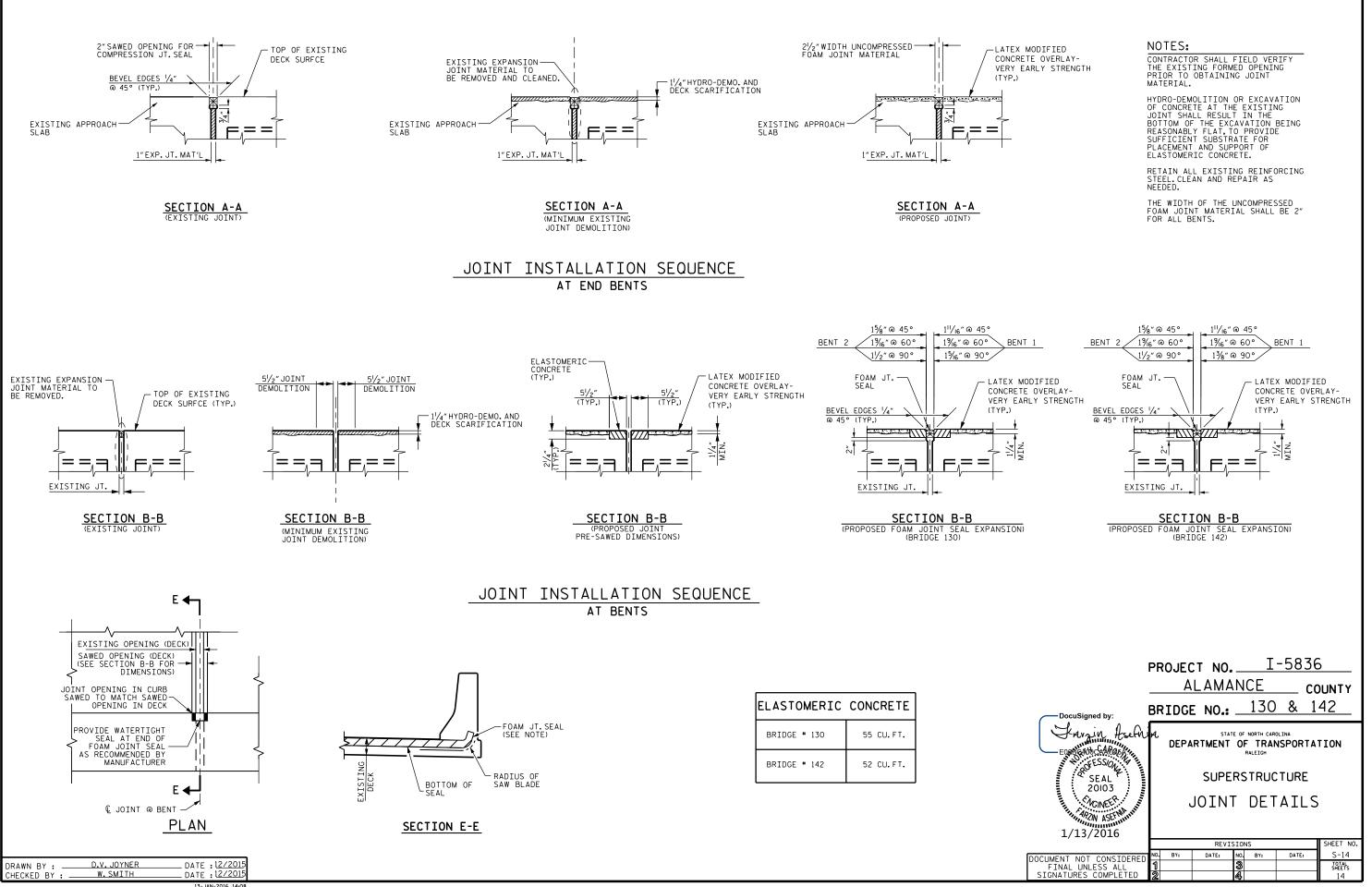
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DESIGN DATA:

SPECIFICATIONS	A.A.S.H.T.O. (CURRENT)
LIVE LOAD	SEE PLANS
IMPACT ALLOWANCE	SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF	
STRUCTURAL STEEL - AASHTO M270 GRADE 36 -	20,000 LBS.PER SQ.IN.
- AASHTO M270 GRADE 50W -	27,000 LBS.PER SQ.IN.
- AASHTO M270 GRADE 50 -	27,000 LBS.PER SQ.IN.
REINFORCING STEEL IN TENSION	
GRADE 60	24,000 LBS.PER SO.IN.
CONCRETE IN COMPRESSION	1,200 LBS.PER SO.IN.
CONCRETE IN SHEAR	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR	
UNTREATED - EXTREME FIBER STRESS	1,800 LBS.PER SO.IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	375 LBS.PER SQ.IN.
	375 LBS.PER SQ.IN. 30 LBS.PER CU.FT.

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N.C. DEPARTMENT OF TRANSPORTATION.

(MINIMUM)

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4"WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1-/2"RADIUS WHICH IS BUILT INTO CURB FORMS: CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4"FINISHING TOOL UNLESS OTHERWISE REOUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4"RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REOUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12'INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

STANDARD NOTES

ALLOWANCE FOR DEAD LOAD DEFLECTION. SETTLEMENT. ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE. ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE LEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CRUDOR OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ACTUAL BEAM CAMBER.

TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER. DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT

IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS. WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8" Ø SHEAR STUDS FOR THE ⁷/₄" Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4" Ø STUDS BASED ON THE RATIO OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-O". EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THES PLATES ARE AT LEAST 5/16"IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED. WITH THE SOLE EXCEPTION OF EDGES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16 INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB. METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED, CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED CERTIFED MIL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

SPECIFICATIONS ARTICLE 105-4.

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GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE

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