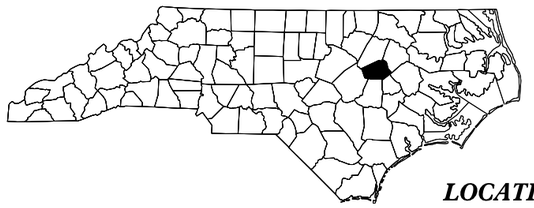
PROJECT: I-5976

CONTRACT:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

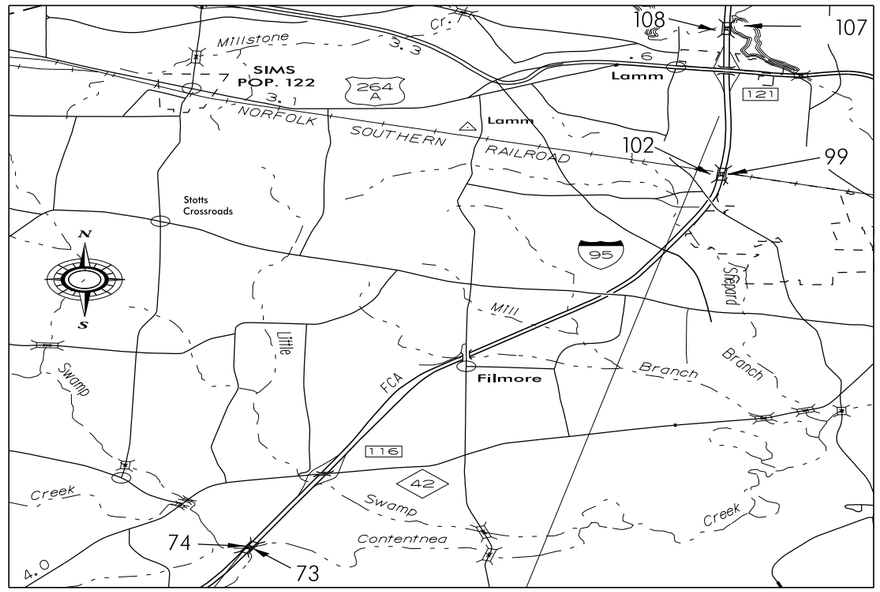
WILSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5976	1	48

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44975.1.1	NA	P.E.
44975.3.1	NA	CONST.

LOCATION: *WILSON CO. BRIDGE #73 ON I-95 NBL OVER CONTENTNEA CREEK.*
BRIDGE #74 ON I-95 SBL OVER CONTENTNEA CREEK.
BRIDGE #99 ON I-95 NBL OVER NORFOLK SOUTHERN RAILROAD.
BRIDGE #102 ON I-95 SBL OVER NORFOLK SOUTHERN RAILROAD.
BRIDGE #107 ON I-95 NBL OVER MILLSTONE CREEK.
BRIDGE #108 ON I-95 SBL OVER MILLSTONE CREEK.

TYPE OF WORK: *BRIDGE PRESERVATION – POLYESTER POLYMER CONCRETE OVERLAY, DECK REPAIR, POURABLE JOINT SEALS, INCIDENTAL MILLING, SLOPE PROTECTION REPAIR, AND ROADWAY JOINT REPAIR*



VICINITY MAP – WILSON COUNTY

DESIGN DATA

#73	ADT 2013	=	13,500
#74	ADT 2013	=	13,500
#99	ADT 2012	=	16,000
#102	ADT 2012	=	16,000
#107	ADT 2012	=	16,000
#108	ADT 2012	=	16,000

PROJECT LENGTH

# 73	=	0.052 MILE
# 74	=	0.052 MILE
# 99	=	0.022 MILE
# 102	=	0.022 MILE
# 107	=	0.020 MILE
# 108	=	0.020 MILE

Prepared in the Office of:
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURES MANAGEMENT UNIT – PRESERVATION & REPAIR GROUP
1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610

ERIC B. NELSON, P.E.
PROJECT ENGINEER

2012 STANDARD SPECIFICATIONS

LETTING DATE:
JANUARY 24, 2017

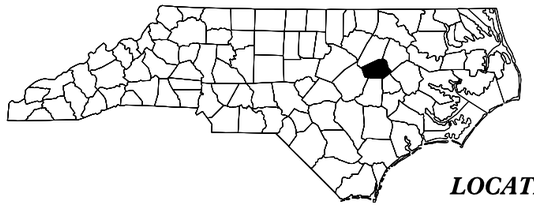
DocuSigned by:
AD50B1D97749CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

TIMOTHY M. SHERRILL, P.E.
PROJECT DESIGN ENGINEER
12/13/2016

PROJECT: I–5976

CONTRACT:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

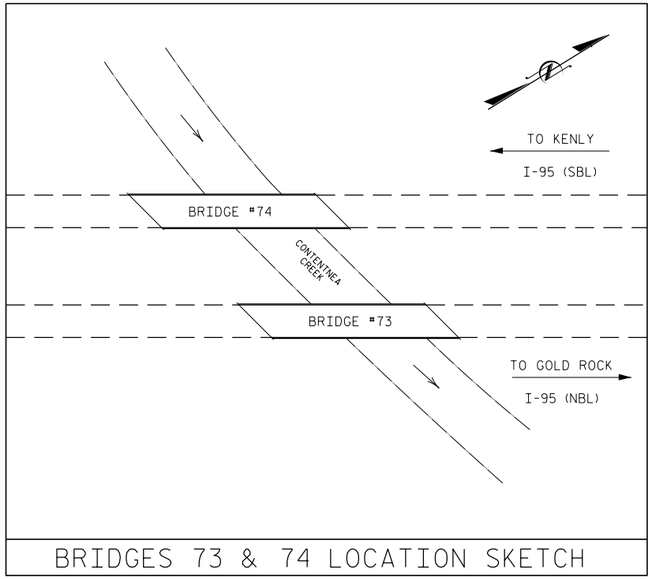
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5976	1A	48

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44975.1.1	NA	P.E.
44975.3.1	NA	CONST.

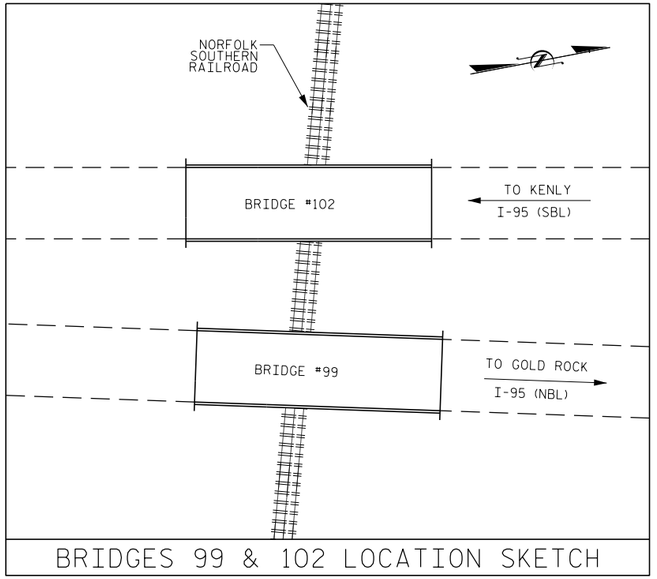
LOCATION: *WILSON CO. BRIDGE #73 ON I–95 NBL OVER CONTENTNEA CREEK.*
BRIDGE #74 ON I–95 SBL OVER CONTENTNEA CREEK.
BRIDGE #99 ON I–95 NBL OVER NORFOLK SOUTHERN RAILROAD.
BRIDGE #102 ON I–95 SBL OVER NORFOLK SOUTHERN RAILROAD.
BRIDGE #107 ON I–95 NBL OVER MILLSTONE CREEK.
BRIDGE #108 ON I–95 SBL OVER MILLSTONE CREEK.

TYPE OF WORK: *BRIDGE PRESERVATION – POLYESTER POLYMER CONCRETE OVERLAY, DECK REPAIR, POURABLE JOINT SEALS, INCIDENTAL MILLING, SLOPE PROTECTION REPAIR AND ROADWAY JOINT REPAIR*

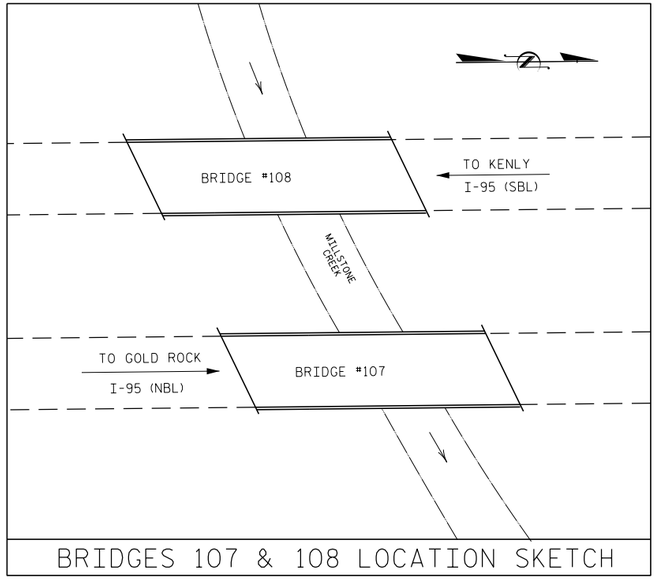
INDEX OF SHEETS



BRIDGES 73 & 74 LOCATION SKETCH



BRIDGES 99 & 102 LOCATION SKETCH



BRIDGES 107 & 108 LOCATION SKETCH

TOTAL BILL OF MATERIAL

BRIDGE NO.	INCIDENTAL MILLING	CONCRETE REPAIRS	CLASS A CONCRETE	POLYESTER POLYMER CONCRETE MATERIALS	PLACING & FINISHING PPC OVERLAY	#57 STONE	PARTIAL REMOVAL OF EXISTING STRUCTURE	* CONCRETE DECK REPAIR FOR PPC OVERLAY	STEEL PLATE	SILICONE JOINT SEALANT	GEOTEXTILE FOR DRAINAGE
	SQ. YD.	CU. FT.	CU. YD.	CU. YD.	SQ. YD.	TON	LUMP SUM	SQ. YD.	LN. FT.	LUMP SUM	SQ. YD.
73	916	--	--	56	1608	--	--	7.0	48	LUMP SUM	--
74	534	--	--	56	1608	--	--	7.0	48	LUMP SUM	--
99	534	--	--	27	778	--	--	5.0	48	LUMP SUM	--
102	534	--	--	27	777	--	--	10.0	48	LUMP SUM	--
107	534	1.0	4.1	34	987	6.1	LUMP SUM	5.0	48	LUMP SUM	36.7
108	534	1.0	2.7	30	850	4.1	LUMP SUM	5.0	48	LUMP SUM	24.4
TOTAL	3,586	2.0	6.8	230	6,608	10.2	LUMP SUM	39.0	288	LUMP SUM	61.1

GENERAL NOTES:

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION, ONLY. CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING THE BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATION OF BRIDGE DECK.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF THE DECK.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG THE CENTERLINE OR EDGE OF TRAVEL LANES.

EXISTING BRIDGE CONCRETE DECK SHALL BE REPAIRED PRIOR TO THE SURFACE PREPARATION AND APPLICATION OF THE PPC OVERLAY, AT LOCATIONS SHOWN IN THE PLANS OR AS DETERMINED BY THE ENGINEER, IF NECESSARY. SUCH LOCATIONS MAY BE REPAIRED WITH PPC.

* CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED. SEE POLYESTER POLYMER CONCRETE DECK OVERLAY SPECIAL PROVISION FOR DECK REPAIR REQUIREMENTS.

FOR #57 STONE, SEE SPECIAL PROVISIONS.

FOR SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS.

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.

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLAN.

FOR PARTIAL REMOVAL OF EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

FOR STEEL PLATE, SEE SPECIAL PROVISIONS.

FOR POLYESTER POLYMER CONCRETE BRIDGE DECK OVERLAY, SEE SPECIAL PROVISIONS.

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

DocuSigned by:
AD50B1997408CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

PROJECT NO. I-5976
WILSON COUNTY
BRIDGE NO. 73 & 74
99, 102, 107 & 108

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL NOTES
LOCATION SKETCHES
&
TOTAL BILL OF MATERIALS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			48

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY : S. T. SANDOR/ M.WELDON DATE : 08/2016
CHECKED BY : W. M. CLARKE/ W. SMITH DATE : 08/2016

13-DEC-2016 14:10
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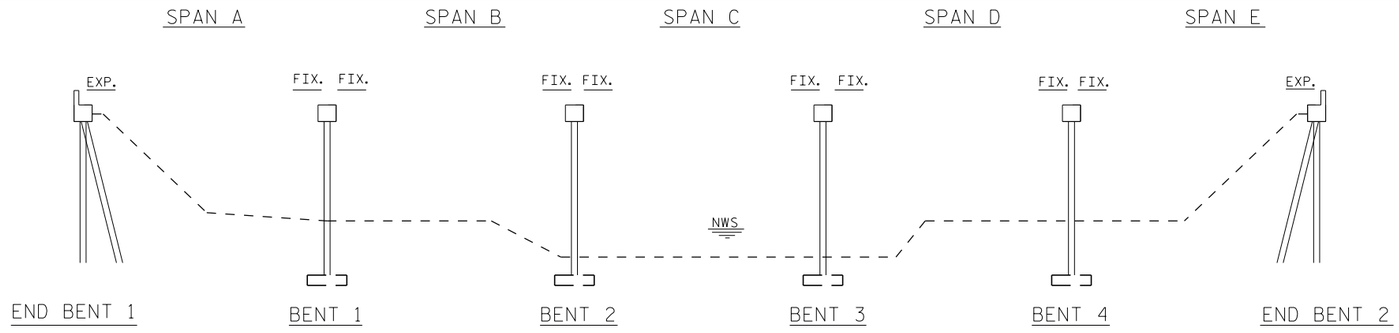
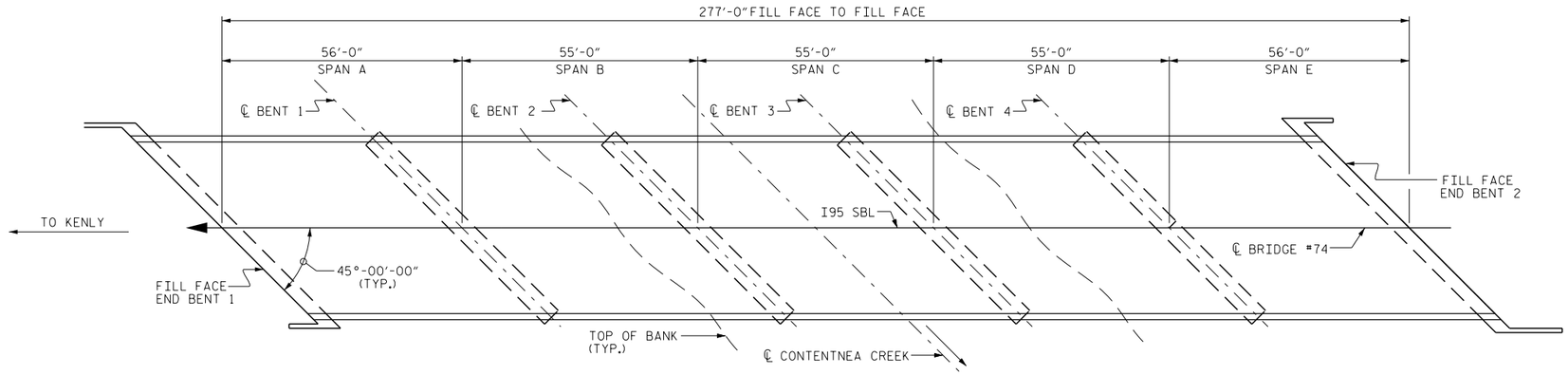
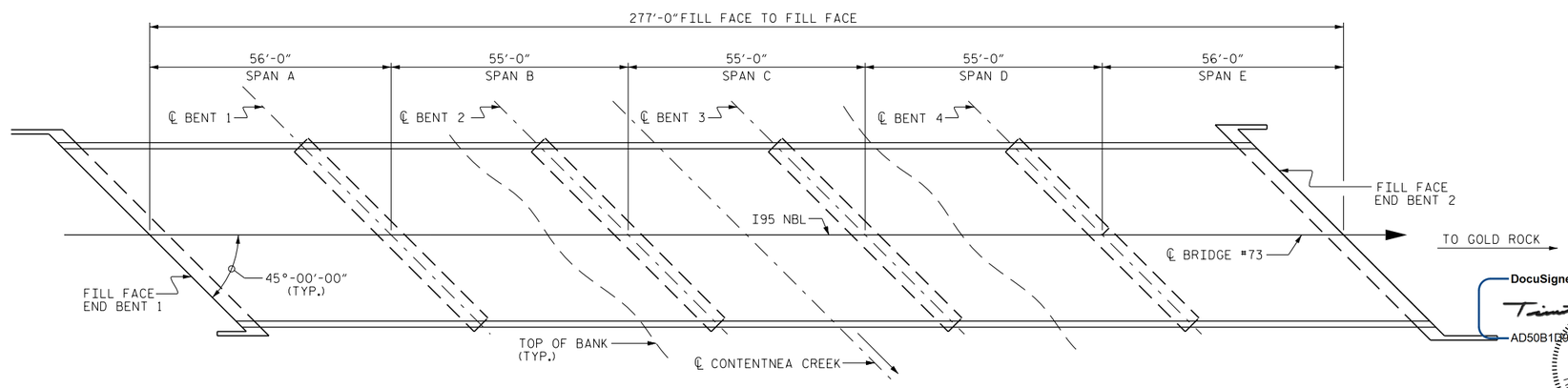
wcsmith



ELEVATION

(SECTION ALONG ℄ ROADWAY)





PLAN

(COLUMNS AND FOOTINGS NOT SHOW FOR CLARITY)

I hereby cerify that this structure was rehabilitated according to these plans or as noted therein.

Resident Engineer Date

DocuSigned by:
AD50B1D077494CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 73 & 74

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER CONTENTNEA CREEK ON I-95 (NBL) & (SBL) BETWEEN KENLY AND NC 42

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			48

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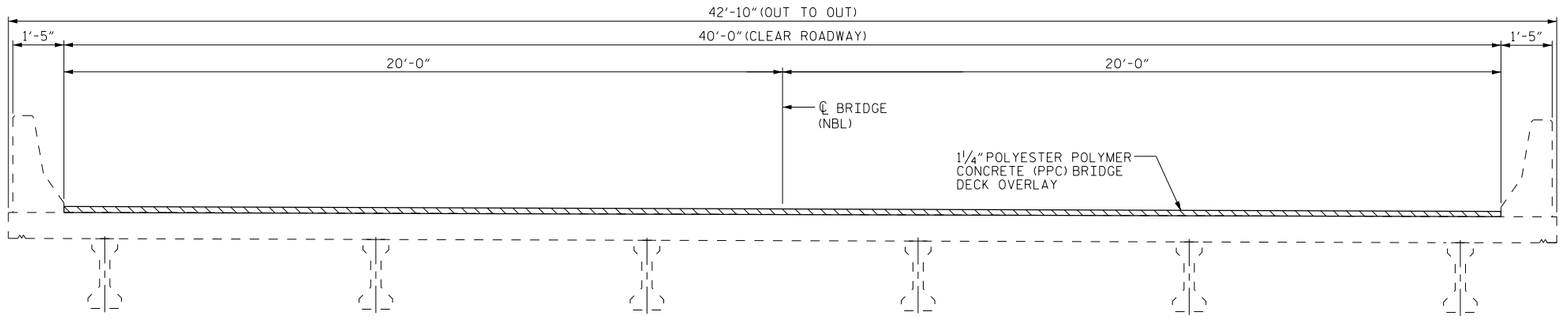
wcsmith

NOTE:

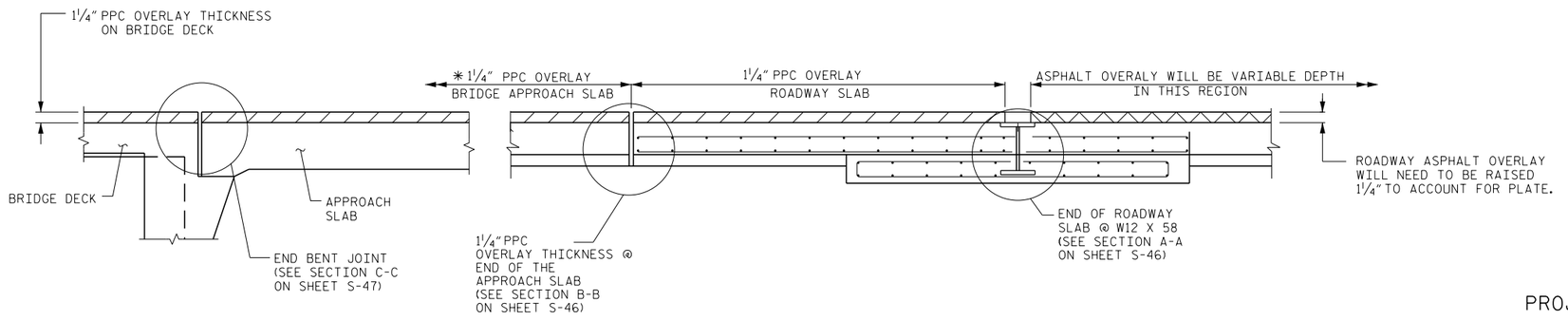
SEE TRAFFIC MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING, AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF POLYESTER POLYMER CONCRETE (PPC) BRIDGE DECK OVERLAY.

* BRIDGE APPROACH SLABS AND ROADWAY SLABS HAVE EXPERIENCED MINOR SETTLEMENT (1/2" OR LESS). OVERLAY DEPTH WILL VARY IN THIS REGION. THE FINISHED GRADE SHALL PROVIDE A SMOOTH TRANSITION FROM THE EMBEDDED I-BEAM TO THE BRIDGE DECK.



PROPOSED TYPICAL SECTION

(BRIDGE 73 NORTHBOUND LANES SHOWN, BRIDGE 74 SOUTHBOUND LANES SIMILAR BY ROTATION)



SECTION THRU ROADWAY AND APPROACH SLAB AT END BENTS

(END BENT #2 SHOWN, END BENT #1 SIMILAR BY ROTATION)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 73 & 74

DocuSigned by:
AD50B1D97A4A4CC...

12/13/2016

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

TYPICAL SECTION & POLYESTER POLYMER CONCRETE OVERLAY DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			48

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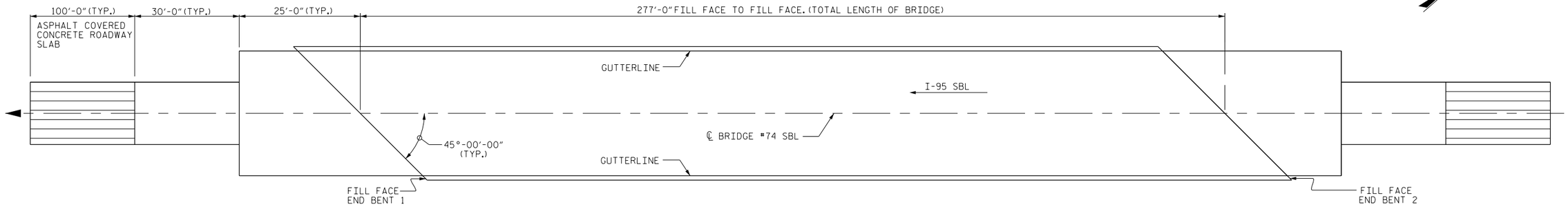
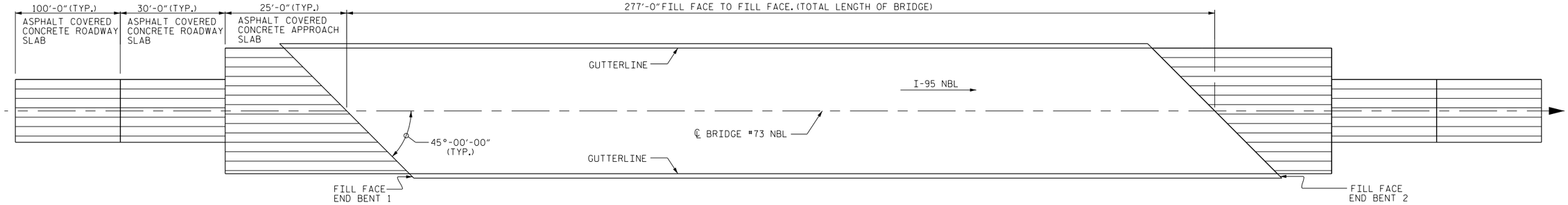
wcsmith



PLAN

(BRIDGE #74 SBL SHOWN)

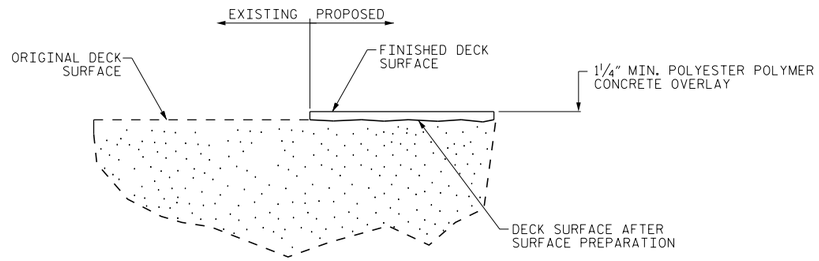


PLAN

(BRIDGE #73 NBL SHOWN)

INCIDENTAL MILLING

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY



DETAIL FOR POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 73 & 74

DocuSigned by:
AD50B1D9749RCC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

SURFACE PREPARATION

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-4
1			3			TOTAL SHEETS
2			4			48

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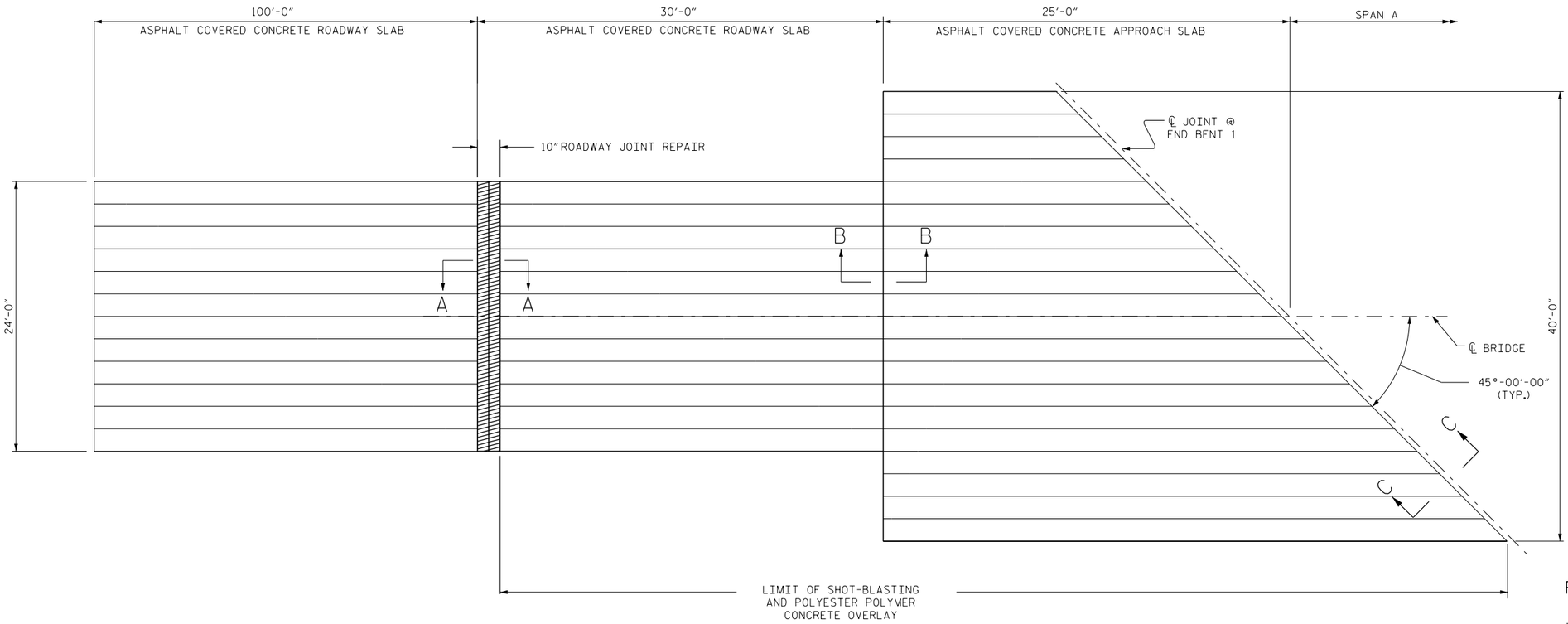
wcsmith

ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	
INCIDENTAL MILLING	458 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 1

(FOR SECTION VIEW A-A, B-B AND C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 1 OF 7

DocuSigned by:
AD50B3D97A94CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-5
1			3			TOTAL SHEETS
2			4			48

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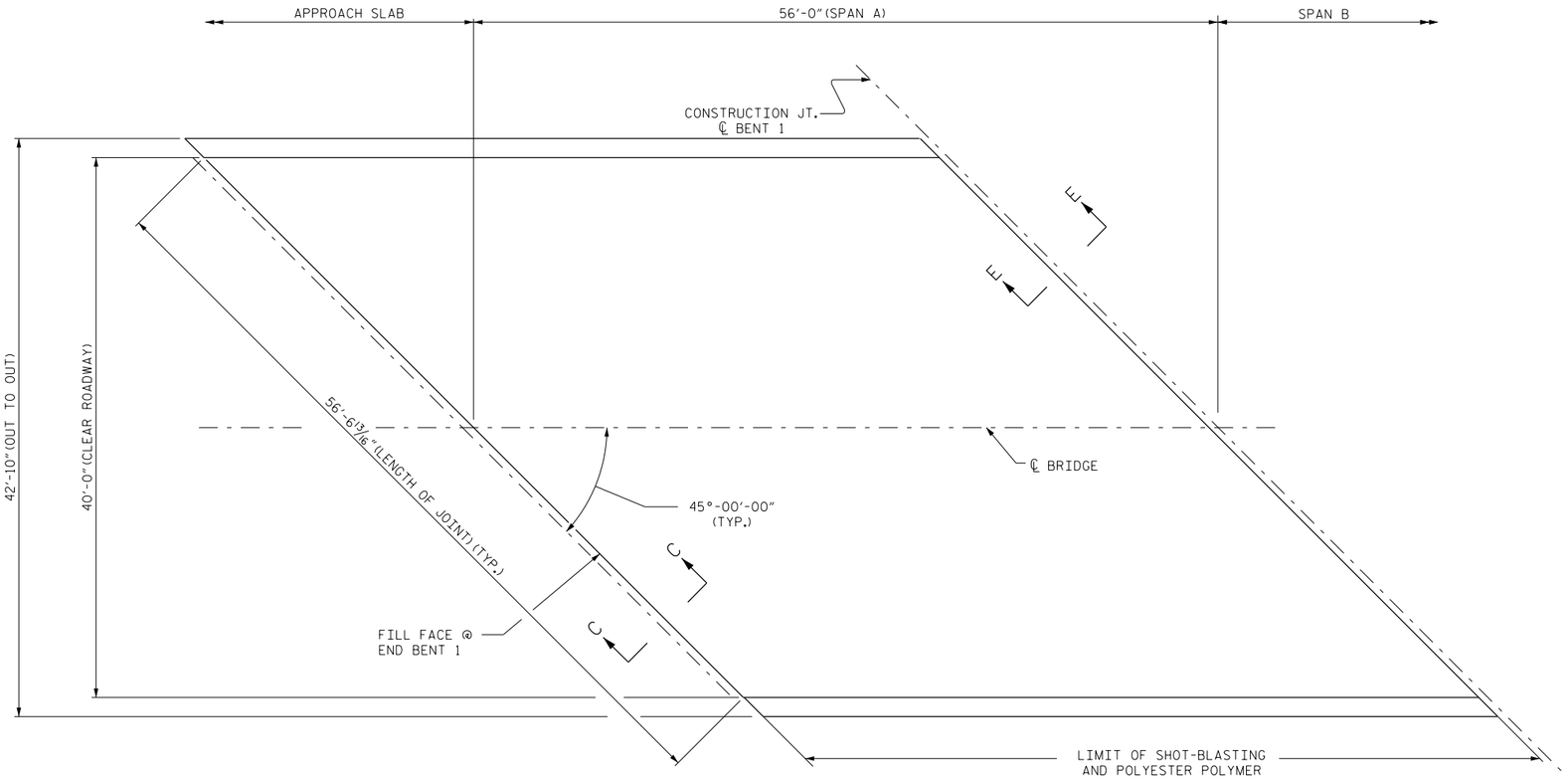
wcsmith

SPAN A QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	249 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN A

(FOR SECTION VIEW C-C, SEE "JOINT DETAILS" SHEET S-47)
(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 2 OF 7

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN A

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-6
1			3			TOTAL SHEETS
2			4			48

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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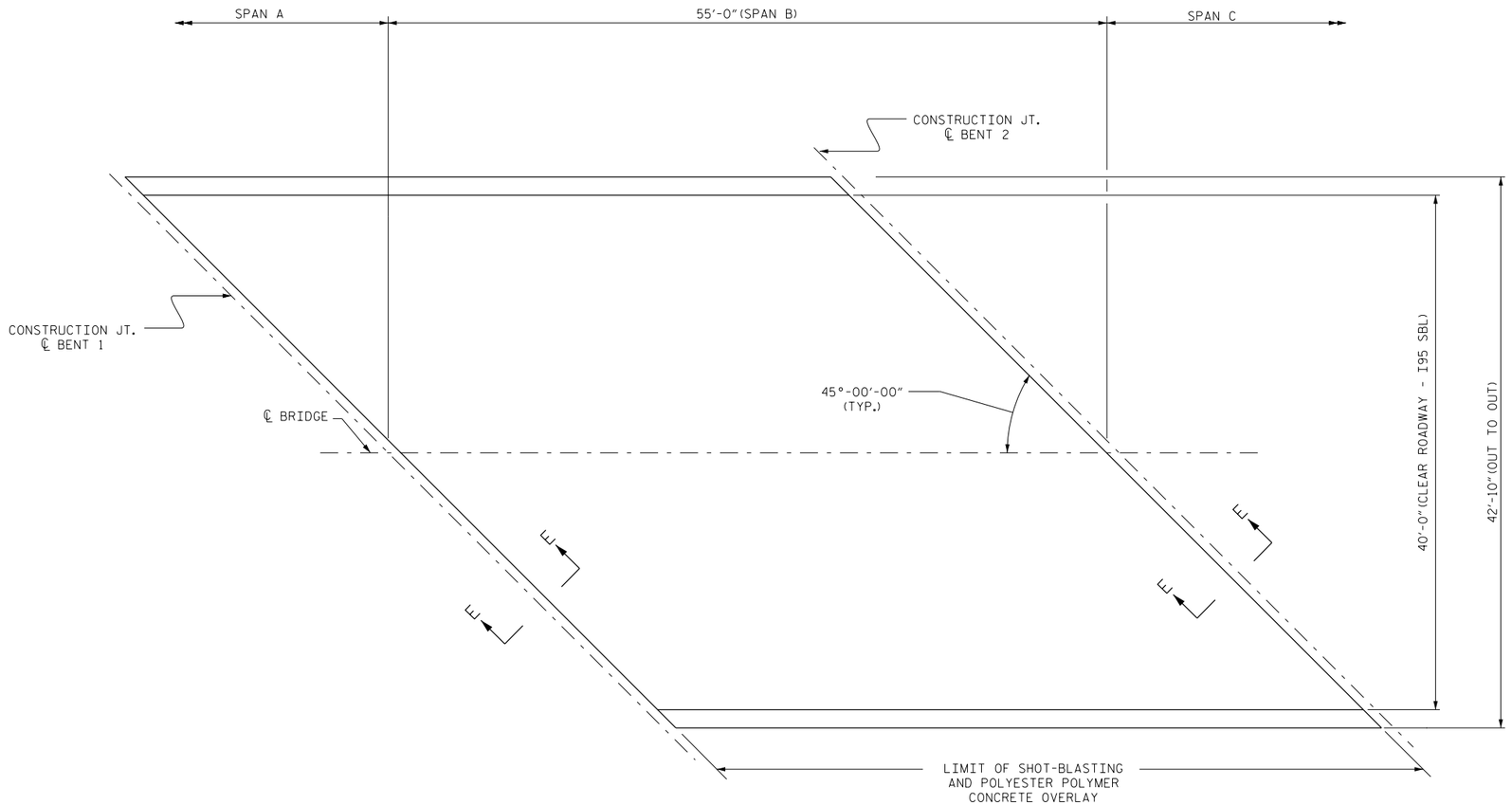
wcsmith

SPAN B QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	244 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN B

(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 3 OF 7

DocuSigned by:
AD50B1D977494CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-7
1			3			TOTAL SHEETS
2			4			48

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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CHECKED BY : W. C. SMITH DATE : 08/2016

13-DEC-2016 14:11
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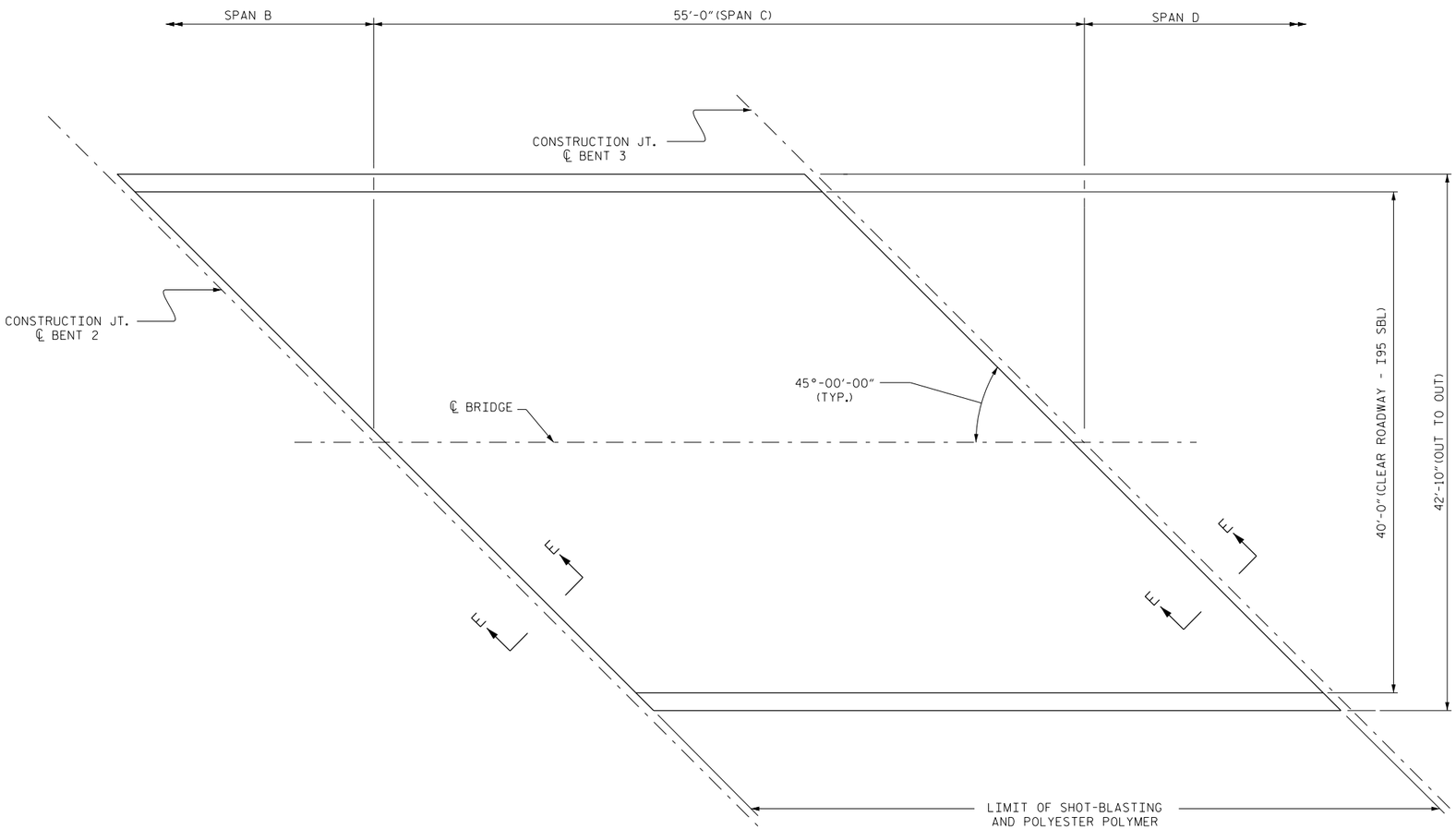
wcsmith

SPAN C QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	244 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN C

(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 4 OF 7

DocuSigned by:
AD50B3D97A494CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN C

DRAWN BY : M. WELDON DATE : 08/2016
CHECKED BY : W. C. SMITH DATE : 10/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
1			3			TOTAL SHEETS
2			4			48

13-DEC-2016 14:11
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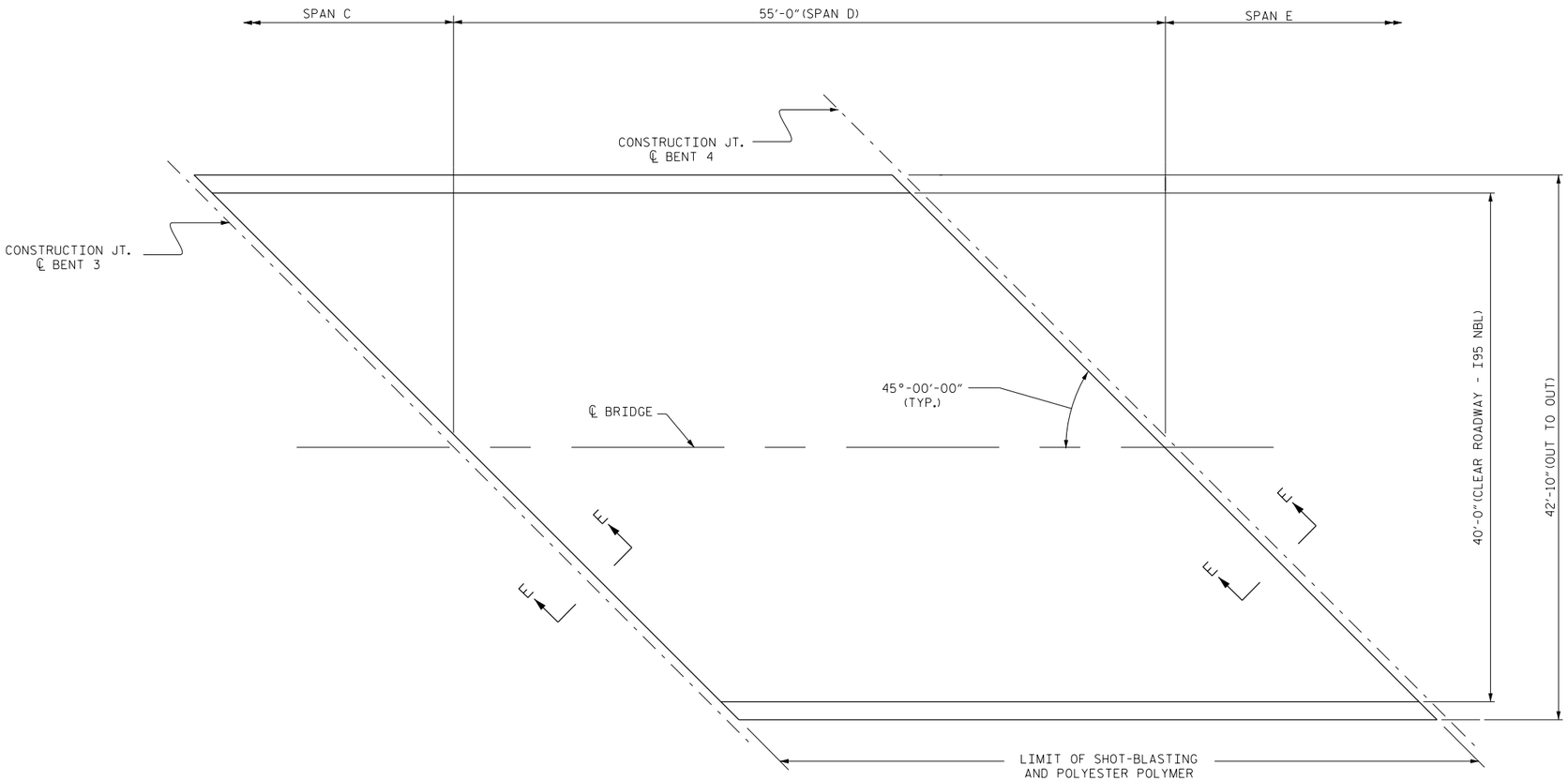
wcsmith

SPAN D QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	244 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES. IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN D

(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 5 OF 7

DocuSigned by:
AD50B3D97C494CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN D

DRAWN BY : M. WELDON DATE : 08/2016
CHECKED BY : W. C. SMITH DATE : 10/2016

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REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-9

TOTAL SHEETS 48

13-DEC-2016 14:11
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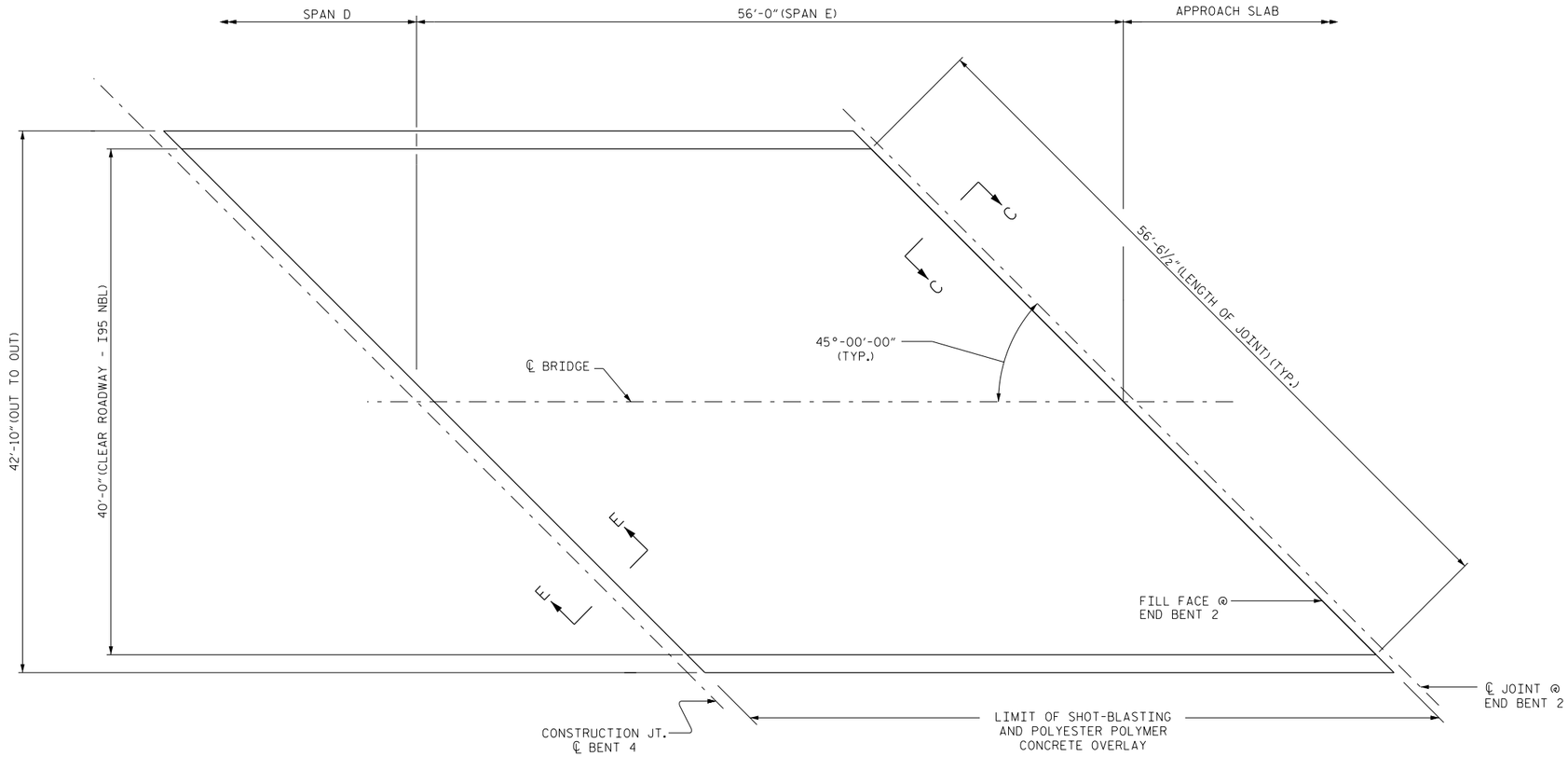
wcsmith

SPAN E		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	249 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN E

(FOR SECTION VIEW C-C, SEE "JOINT DETAILS" SHEET S-47)
(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 6 OF 7

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN E

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			53

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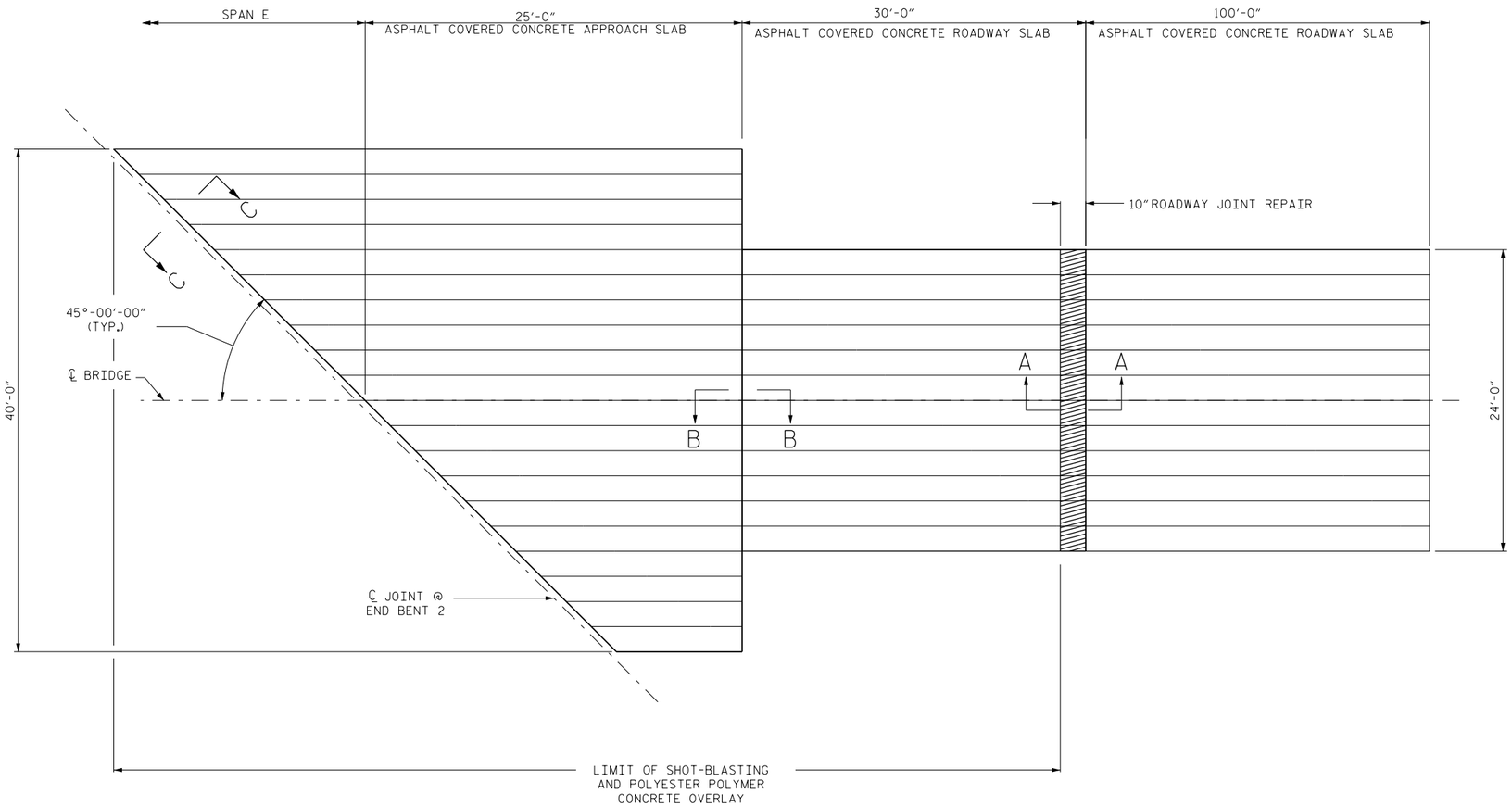
ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	
INCIDENTAL MILLING	458 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 2

(FOR SECTION VIEW A-A, B-B AND C-C, SEE "JOINT DETAILS" SHEET S-46 & 47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73

SHEET 7 OF 7

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-11
1			3			TOTAL SHEETS
2			4			48

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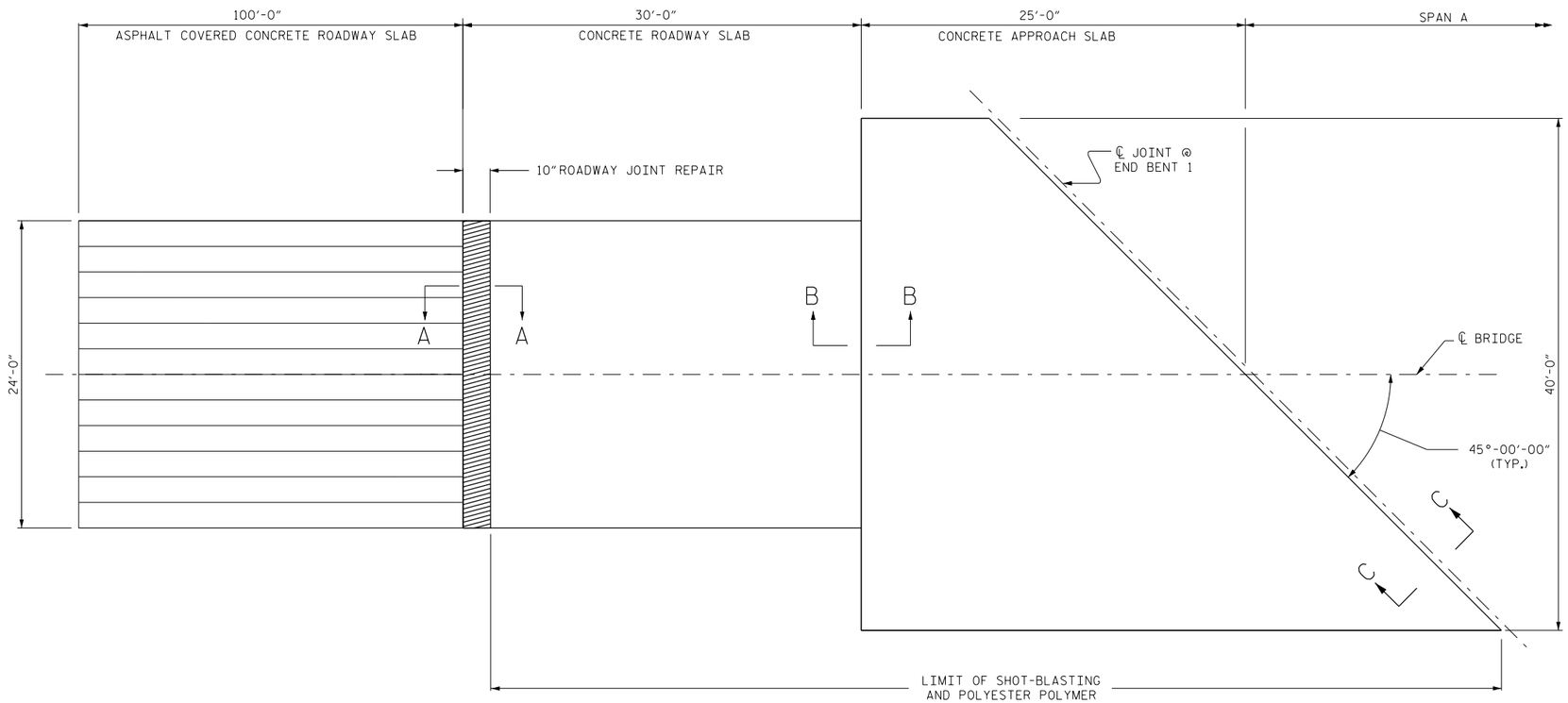
wcsmith

ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 1

(FOR SECTION VIEW A-A, B-B AND C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 1 OF 7

DocuSigned by:
AD50B1D97749AC6...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			48

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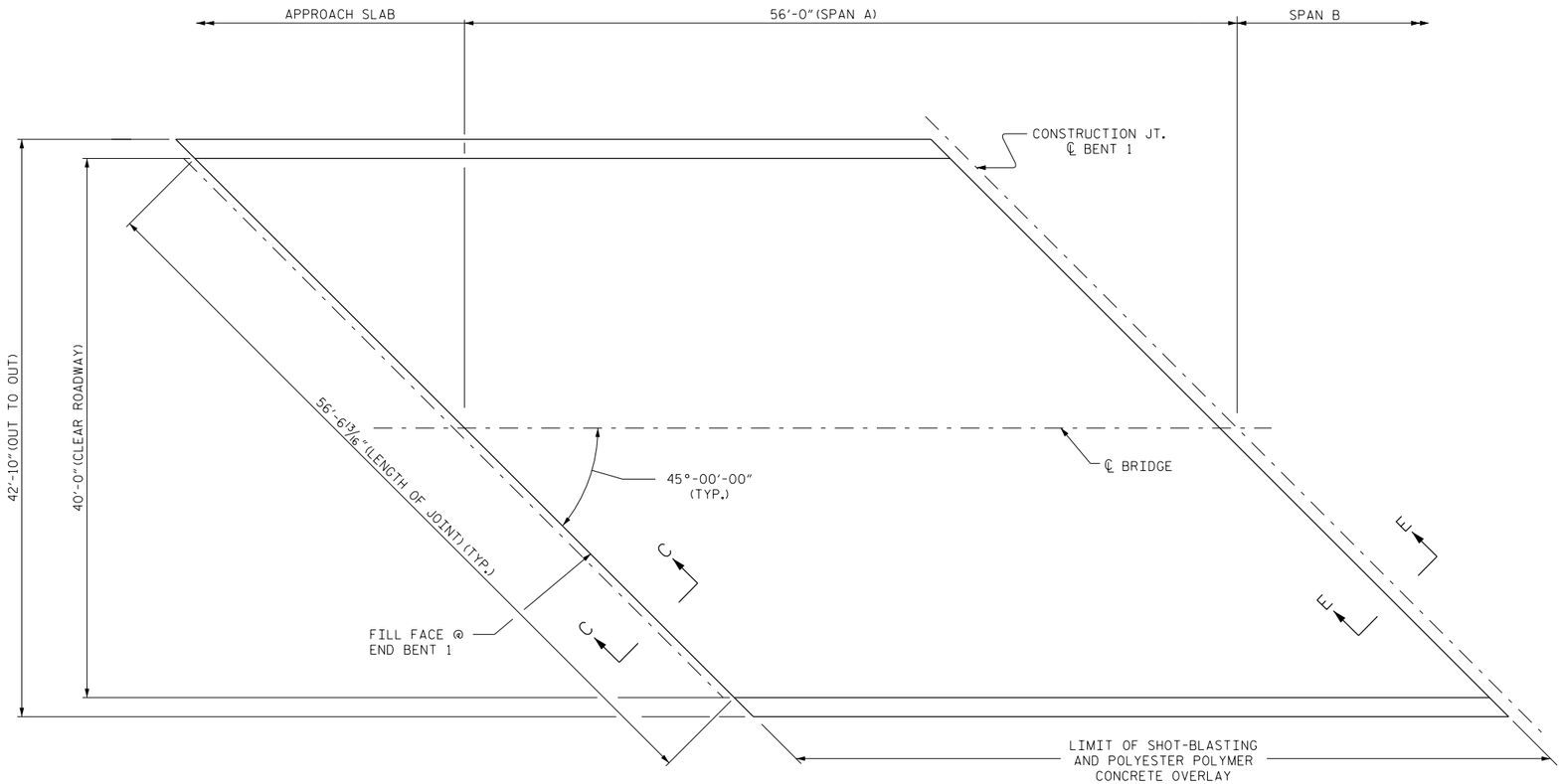
wcsmith

SPAN A QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	249 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN A

(FOR SECTION VIEW C-C, SEE "JOINT DETAILS" SHEET S-47)
(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 2 OF 7

DocuSigned by:
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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN A

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-13
1			3			TOTAL SHEETS
2			4			48

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DRAWN BY : M. WELDON DATE : 08/2016
CHECKED BY : W. C. SMITH DATE : 09/2016

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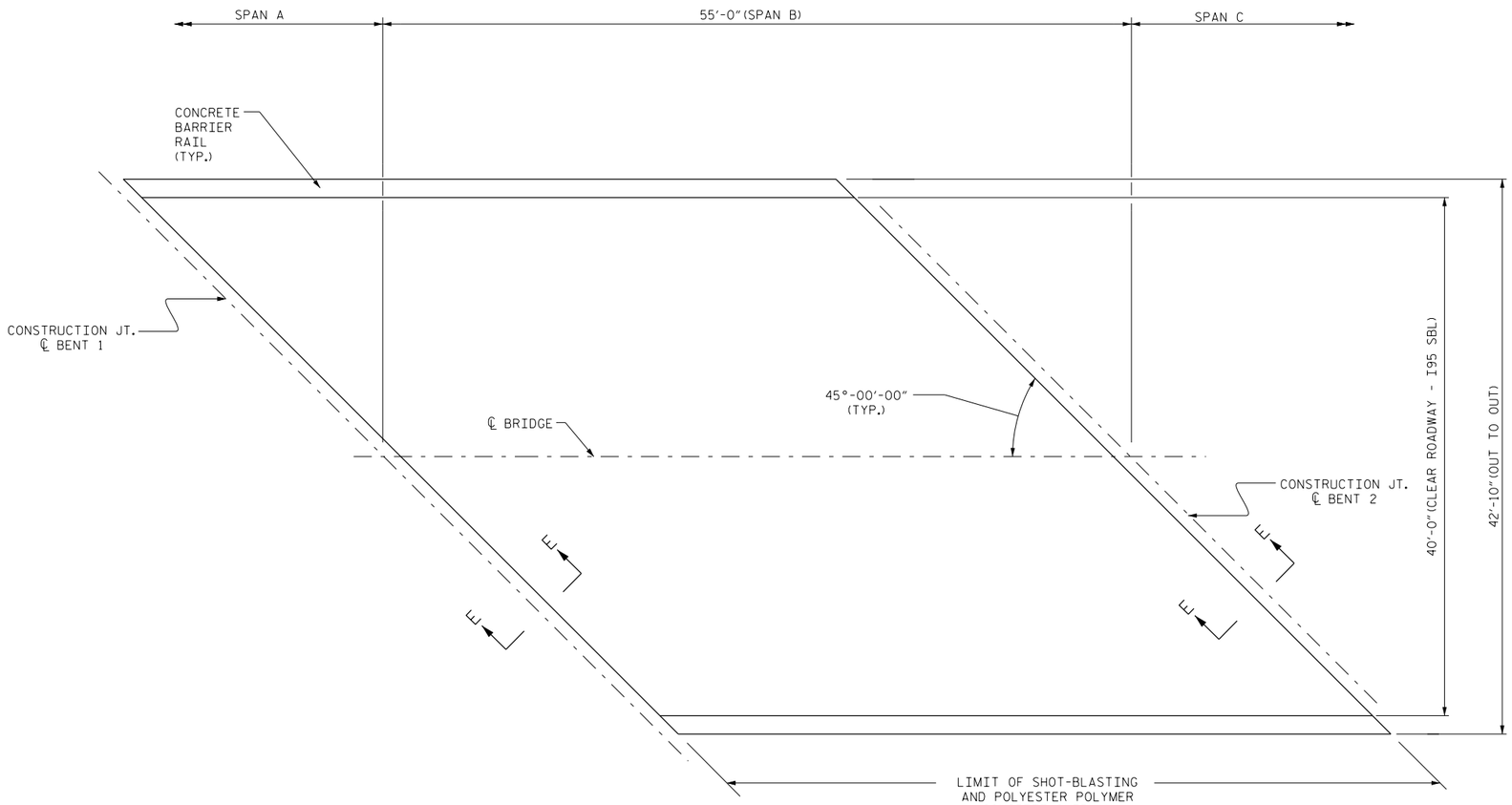
wcsmith

SPAN B QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	244 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN B

(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 3 OF 7

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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-14
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : M. WELDON DATE : 08/2016
CHECKED BY : W. C. SMITH DATE : 10/2016

13-DEC-2016 14:11
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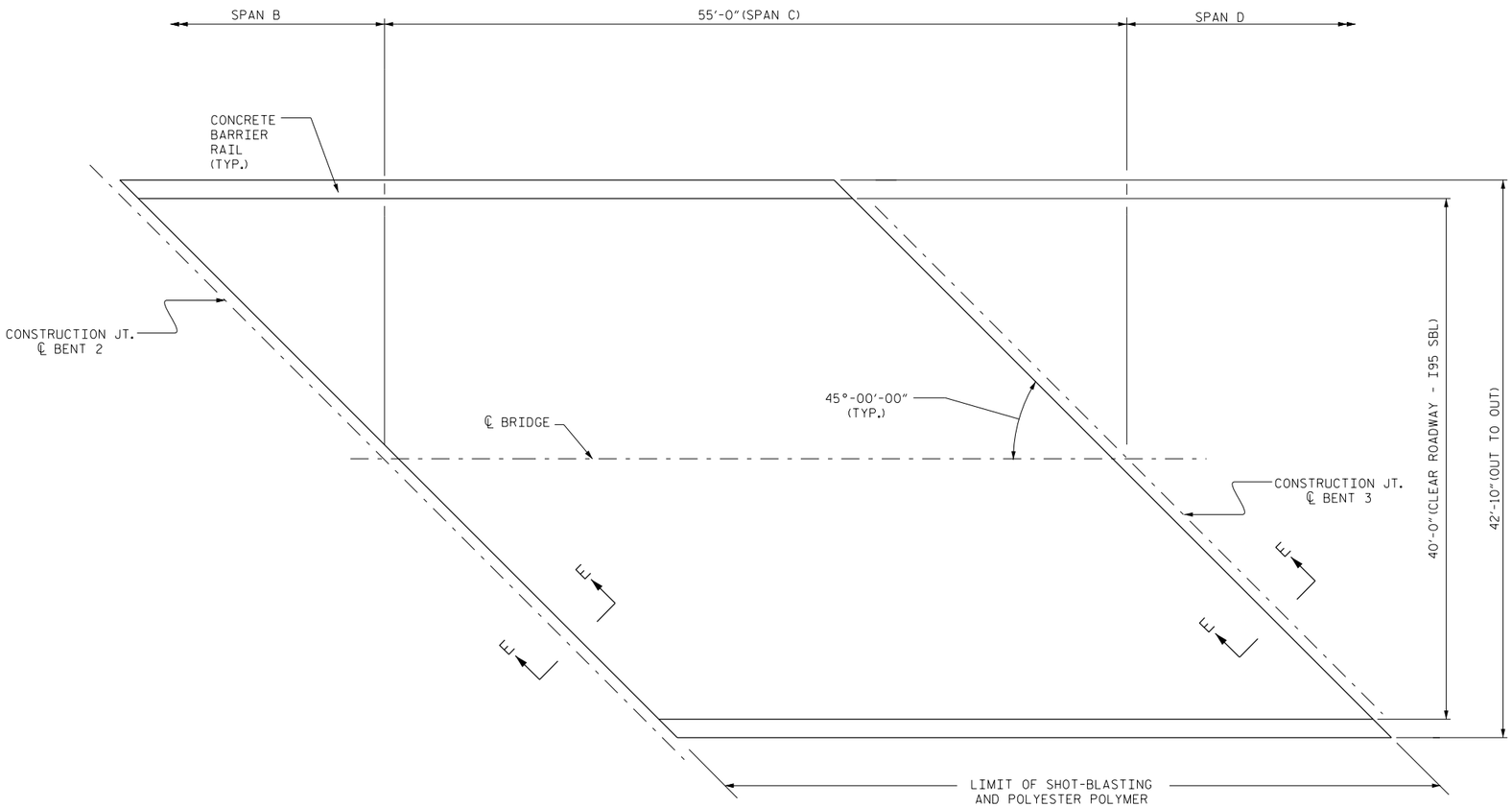
wcsmith

SPAN C QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	244 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN C

(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 4 OF 7

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN C

DRAWN BY : M. WELDON DATE : 08/2016
CHECKED BY : W. C. SMITH DATE : 10/2016

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REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-15

TOTAL SHEETS 48

13-DEC-2016 14:11
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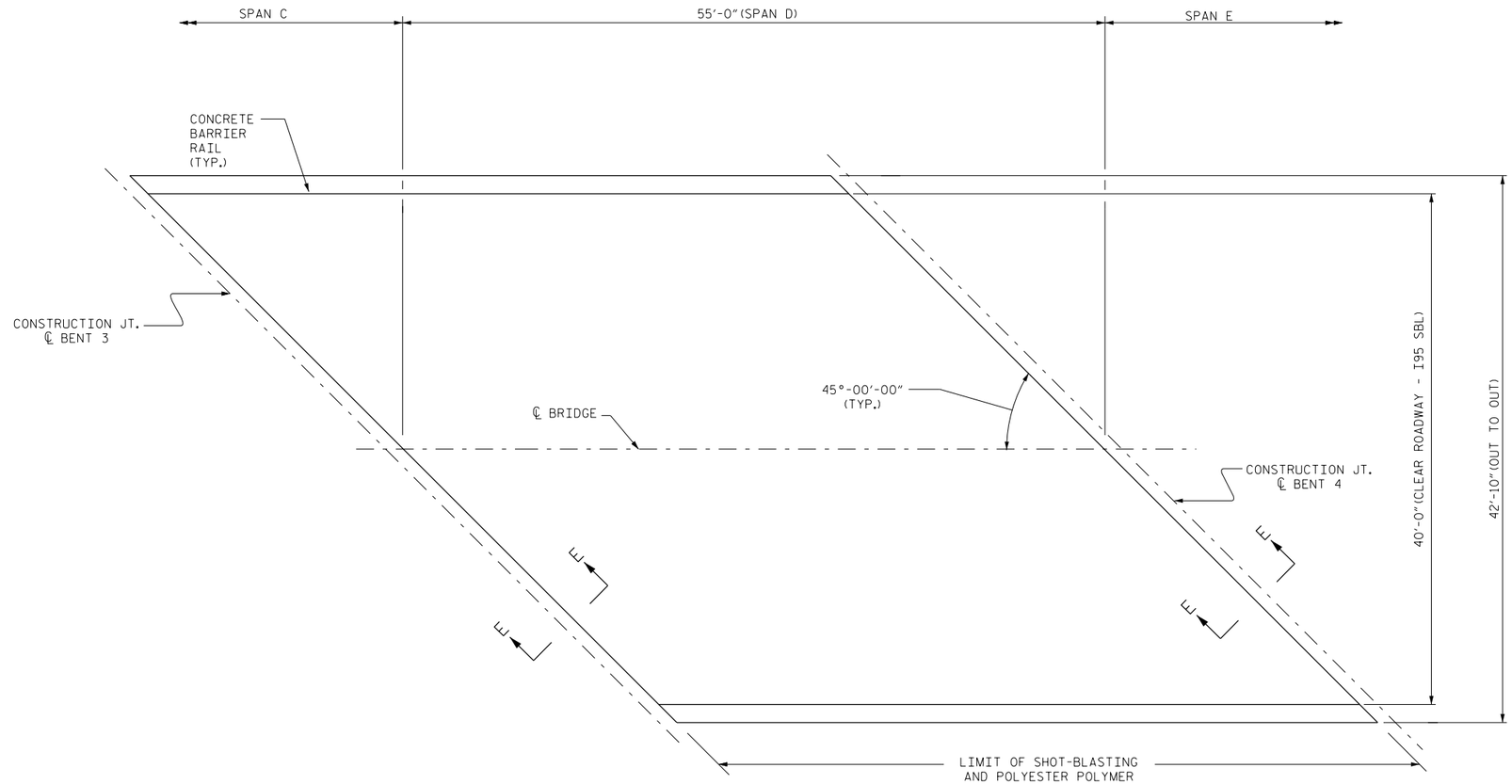
SPAN D QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	244 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN D

(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 5 OF 7

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN D

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			48

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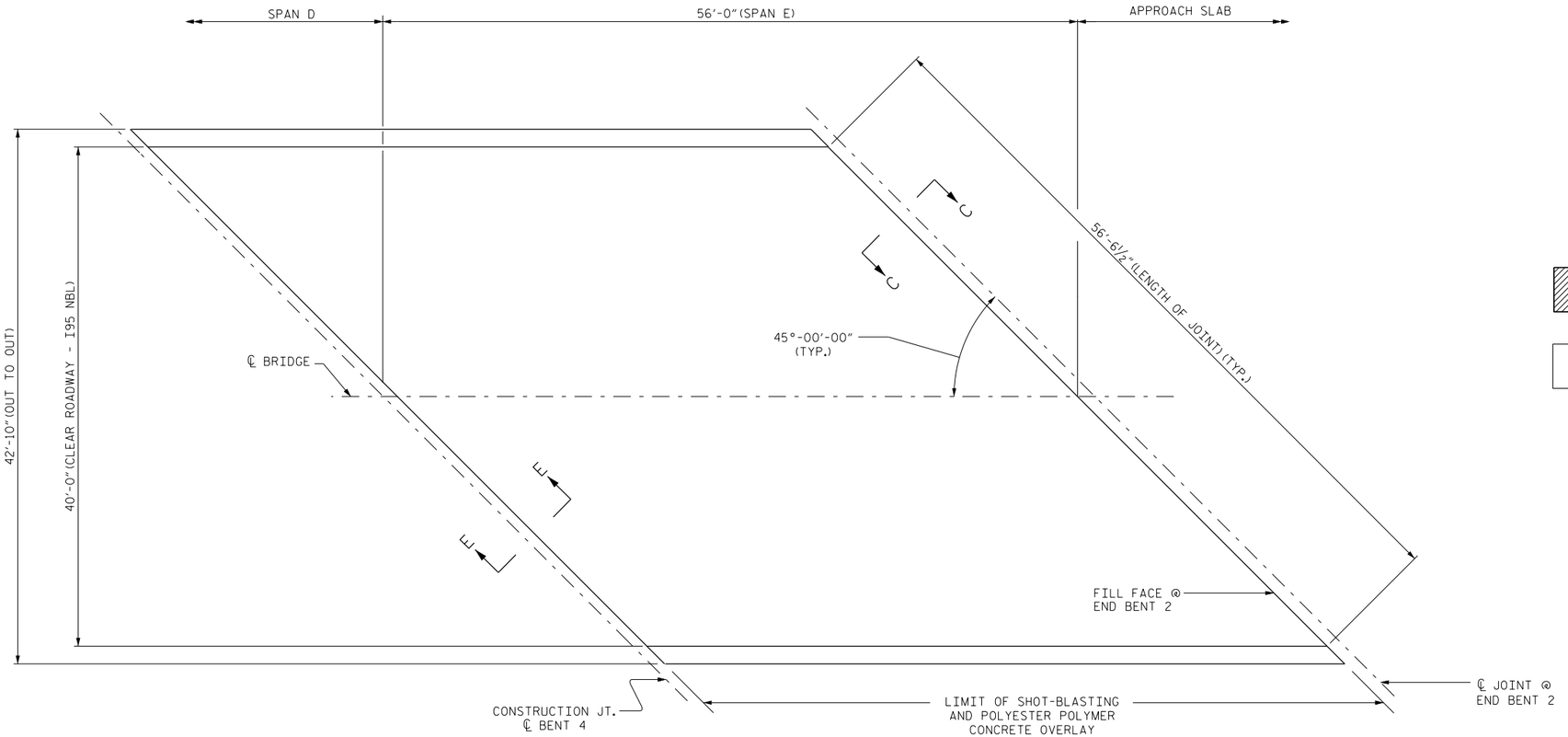
wcsmith

SPAN E		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	249 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN E

(FOR SECTION VIEW C-C, SEE "JOINT DETAILS" SHEET S-47)
(FOR SECTION VIEW E-E, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 6 OF 7

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN E

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			48

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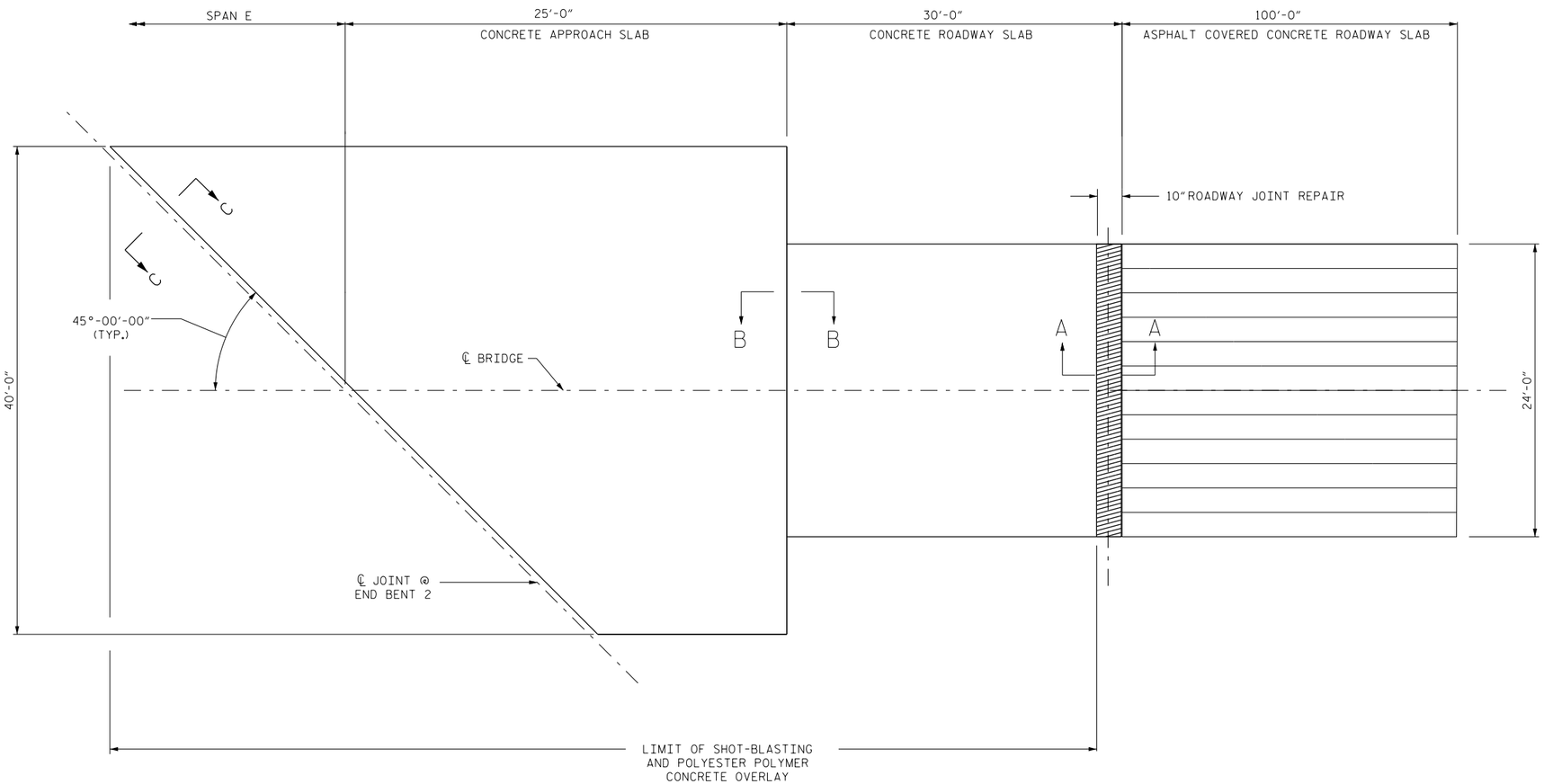
wcsmith

ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 2

(FOR SECTION VIEW A-A, B-B AND C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 74

SHEET 7 OF 7

DocuSigned by:
AD50B3D974A04CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-18
1			3			TOTAL SHEETS
2			4			48

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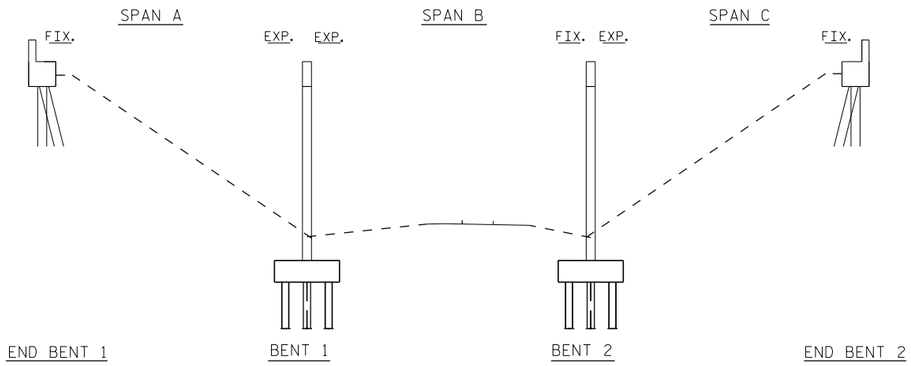
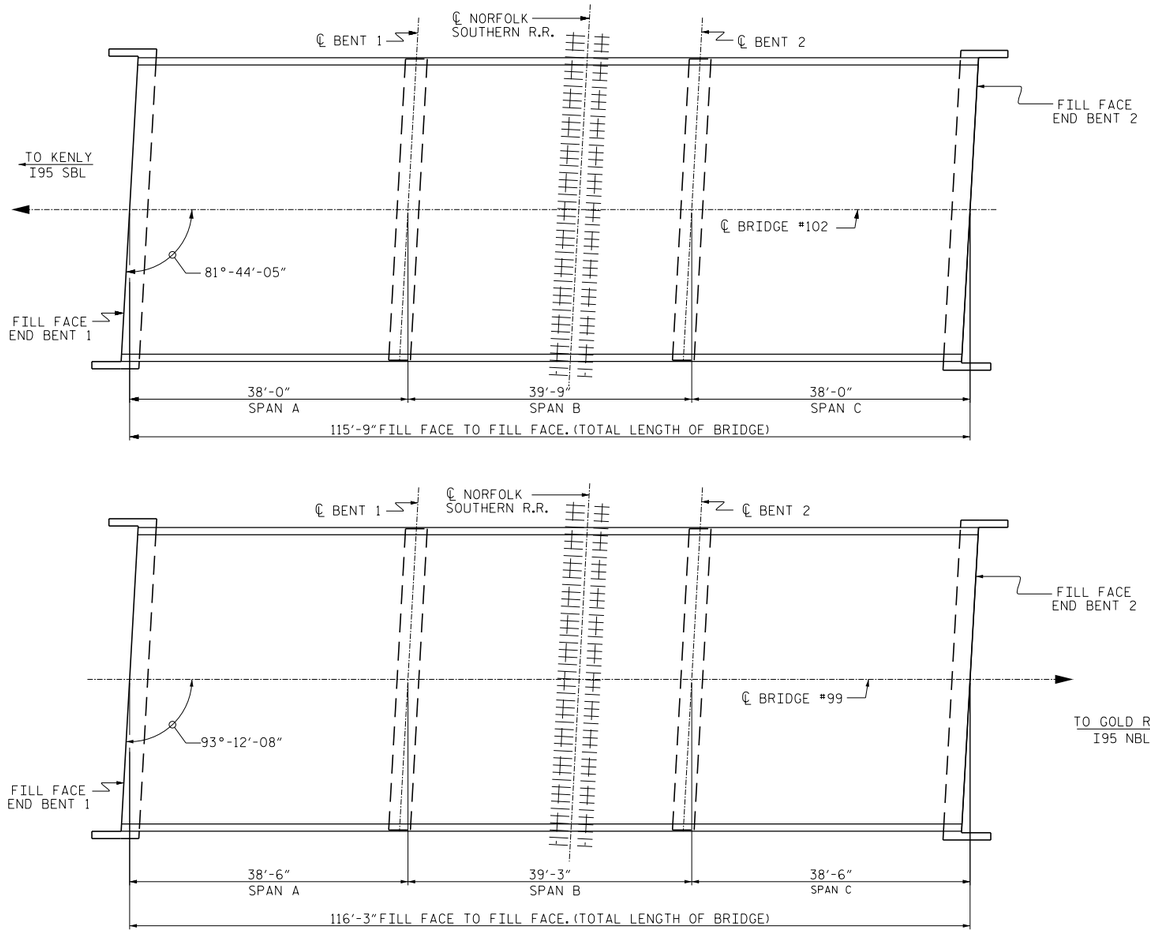


ELEVATION
(SECTION ALONG ℄ ROADWAY)



PLAN
(COLUMN AND FOOTINGS NOT SHOWN IN PLAN VIEW FOR CLARITY)

PROJECT NO. I-5727
WILSON COUNTY
BRIDGE NO. 99 & 102

DocuSigned by:
AD50B3D97A494CC...
NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL
12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGES OVER NORFOLK SOUTHERN RAILROAD ON I-95 (NBL) & (SBL) BETWEEN KENLY AND NC 42

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
1			3			TOTAL SHEETS
2			4			48

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13-DEC-2016 14:11
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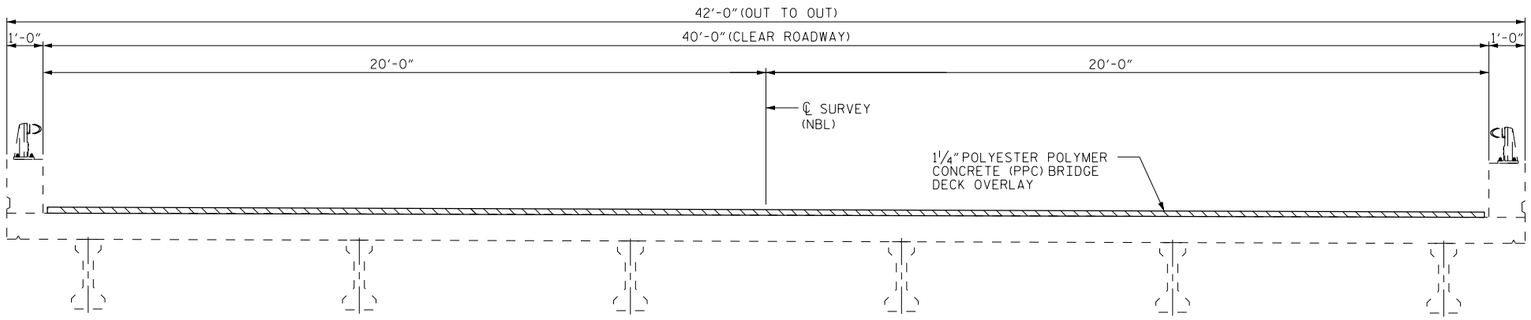
wcsmith

NOTE:

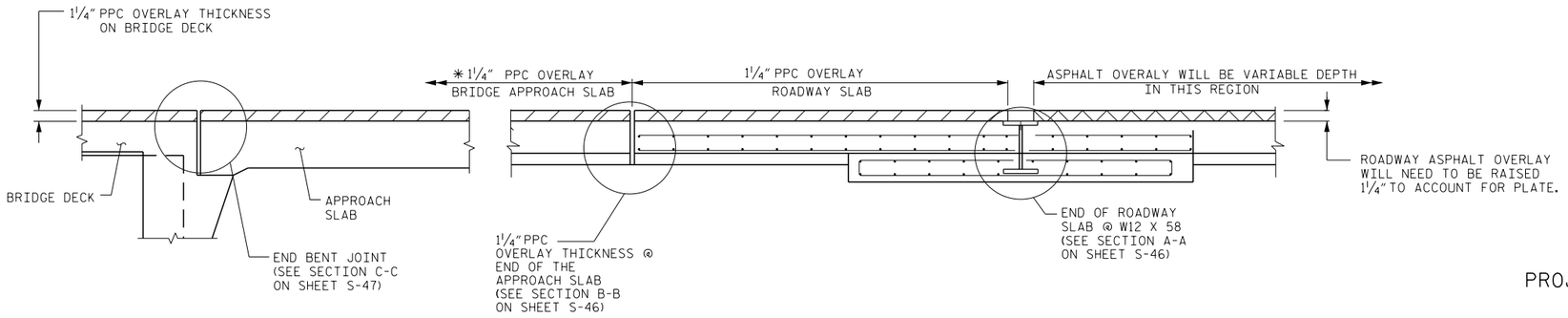
SEE TRAFFIC MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING, AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF EPOXY OVERLAY SYSTEM AND SURFACE PREPARATION.

* BRIDGE APPROACH SLABS AND ROADWAY SLABS HAVE EXPERIENCED MINOR SETTLEMENT (1/2" OR LESS). OVERLAY DEPTH WILL VARY IN THIS REGION. THE FINISHED GRADE SHALL PROVIDE A SMOOTH TRANSITION FROM THE EMBEDDED I-BEAM TO THE BRIDGE DECK.



PROPOSED TYPICAL SECTION

(BRIDGE 99 NORTHBOUND LANES SHOWN, BRIDGE 102 SOUTHBOUND LANES SIMILAR BY ROTATION)



SECTION THRU ROADWAY AND APPROACH SLAB AT END BENTS

(END BENT #2 SHOWN, END BENT #1 SIMILAR BY ROTATION)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 99 & 102

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

TYPICAL SECTION & POLYESTER POLYMER CONCRETE OVERLAY DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-20
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : M. WELDON DATE : 08/2016
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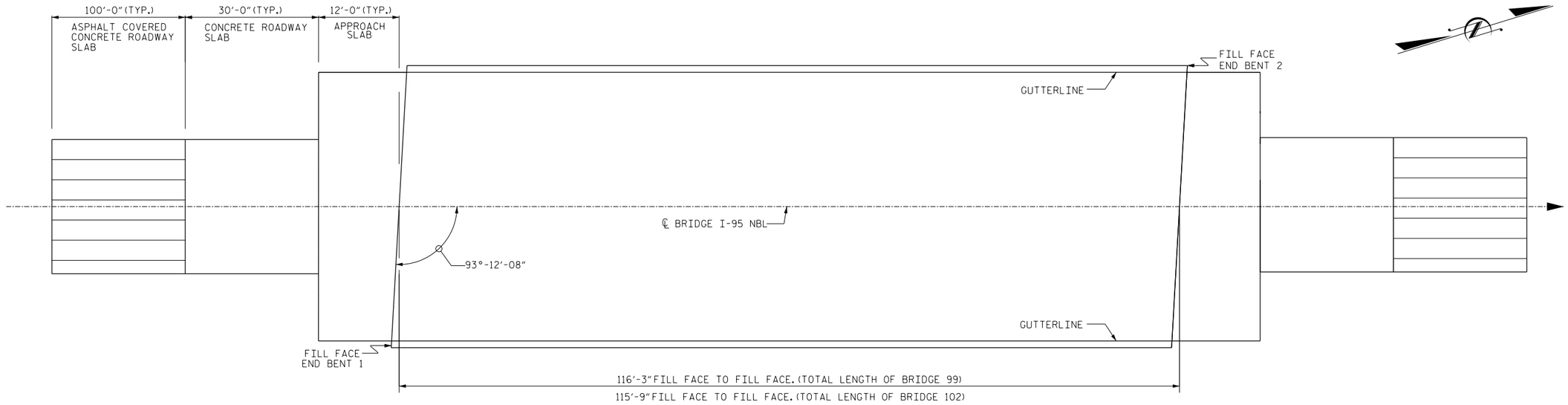
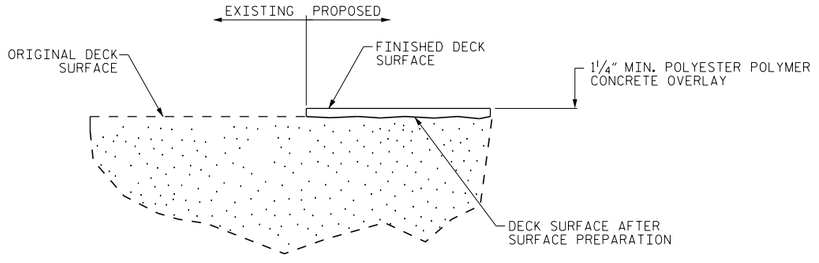


PLAN

(BRIDGE #99 NBL SHOWN, BRIDGE #102 SBL SIMILAR)

INCIDENTAL MILLING

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY



DETAIL FOR POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 99 & 102

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AD50B3D97...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

SURFACE PREPARATION

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : S. T. SANDOR/ M.WELDON DATE : 10/2015
CHECKED BY : W.M.CLARKE/ W.C.SMITH DATE : 9/2016

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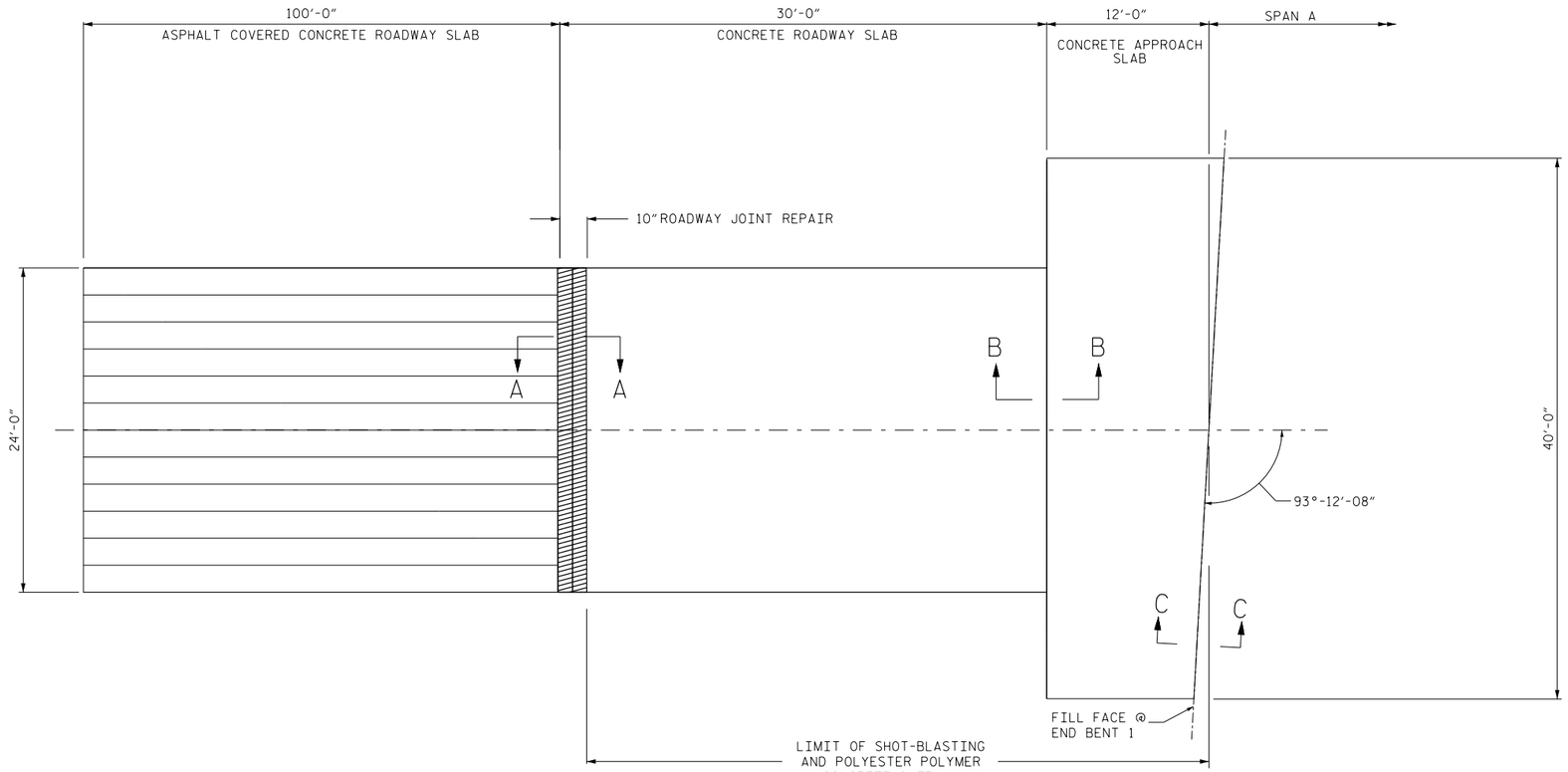
ROADWAY & APPROACH SLAB QUANTITIES

	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	131 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 1

(FOR SECTION VIEW, SEE "JOINT DETAILS" SHEET S-46 & 47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 99

SHEET 1 OF 5

DocuSigned by:
AD50B1D97A94CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-22
1			3			TOTAL SHEETS
2			4			48

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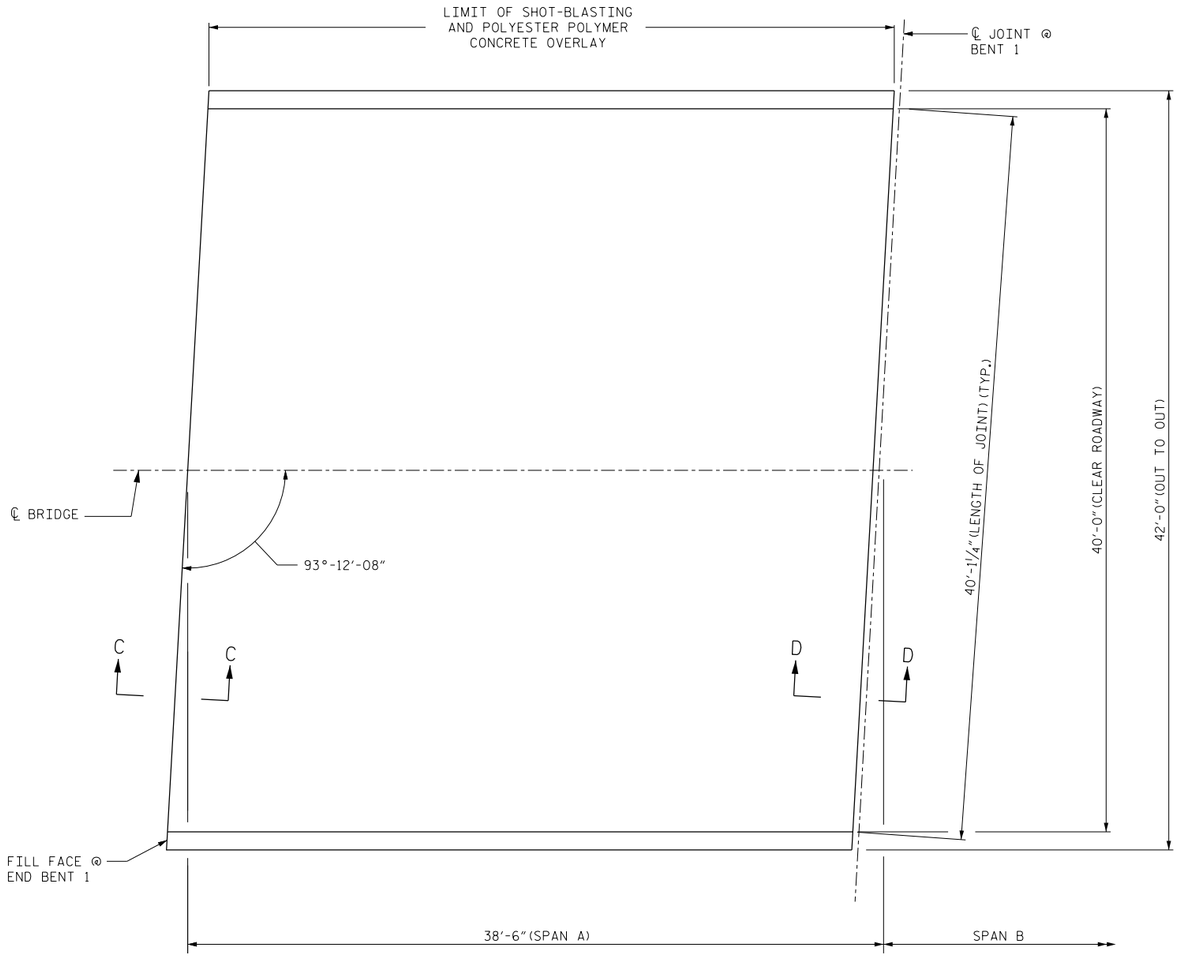
SPAN A QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	171 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN A

(FOR SECTION VIEW, SEE "JOINT DETAILS" SHEET S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 99

SHEET 2 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN A

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-23
1			3			TOTAL SHEETS
2			4			48

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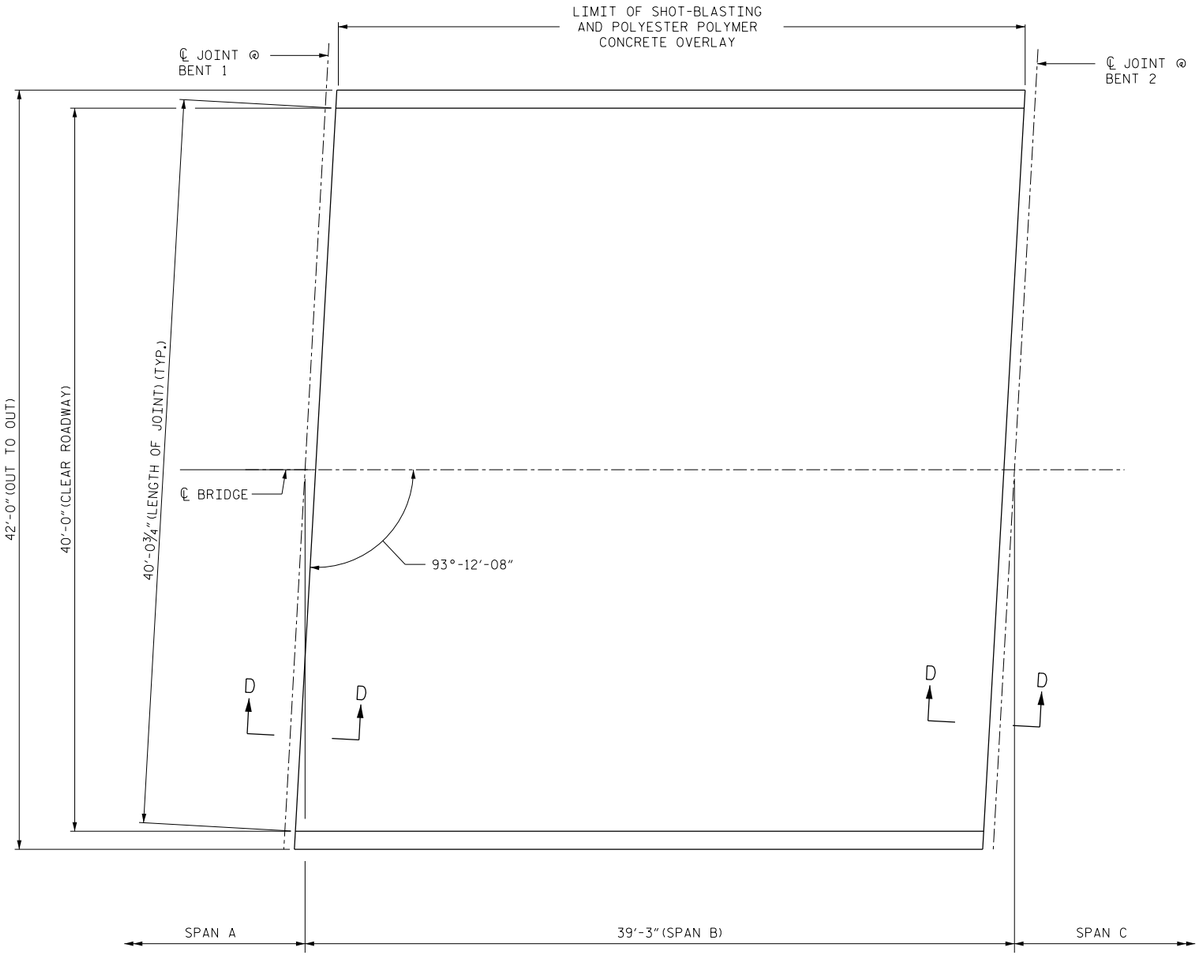
wcsmith

SPAN B QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	174 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN B

(FOR SECTION VIEW, SEE "JOINT DETAILS" SHEET S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 99

SHEET 3 OF 5

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-24
1			3			TOTAL SHEETS
2			4			48

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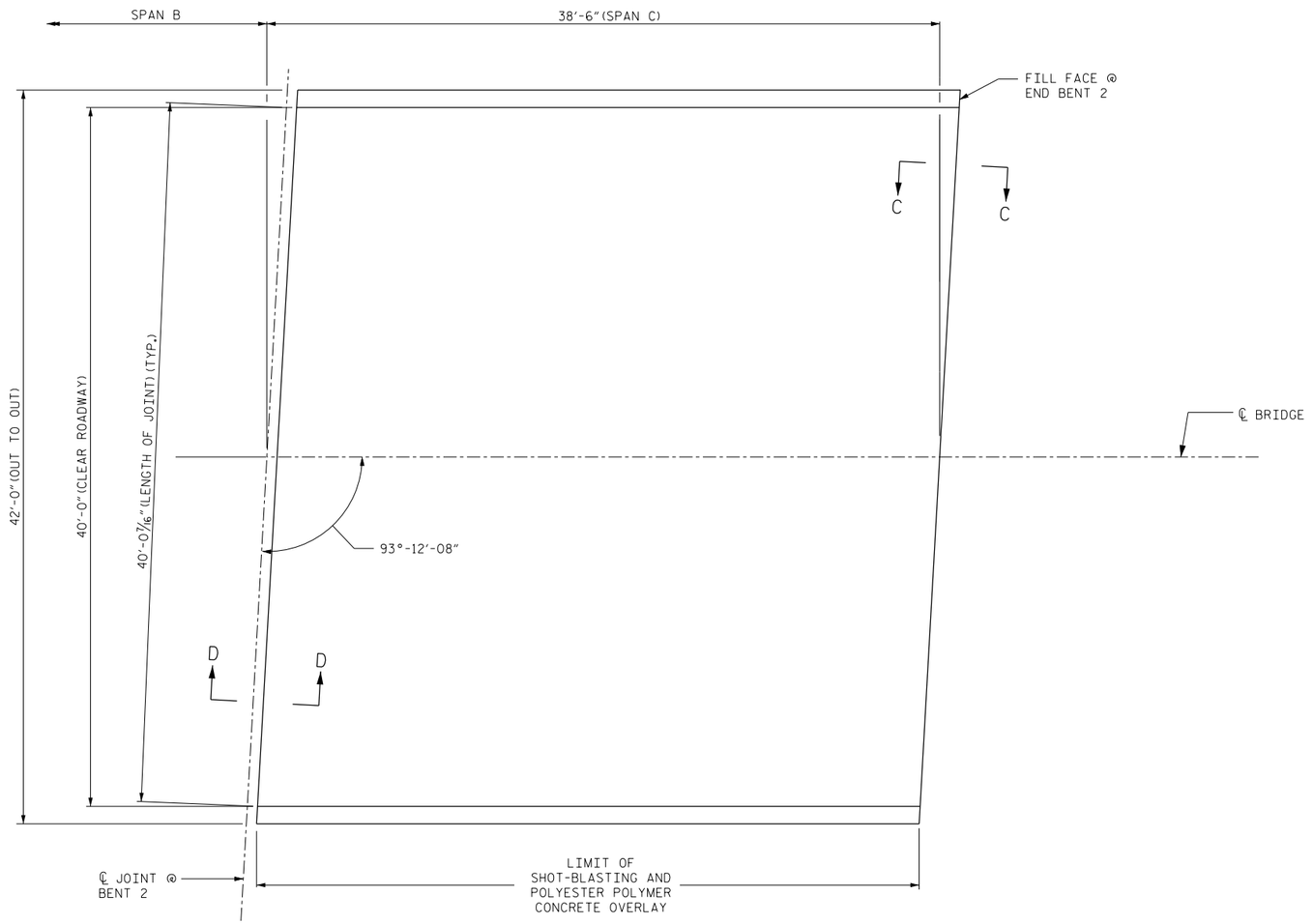
SPAN "C" QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	171 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN C

(FOR SECTION VIEW, SEE "JOINT DETAILS" SHEET S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 99

SHEET 4 OF 5

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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN C

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-25
1			3			TOTAL SHEETS
2			4			48

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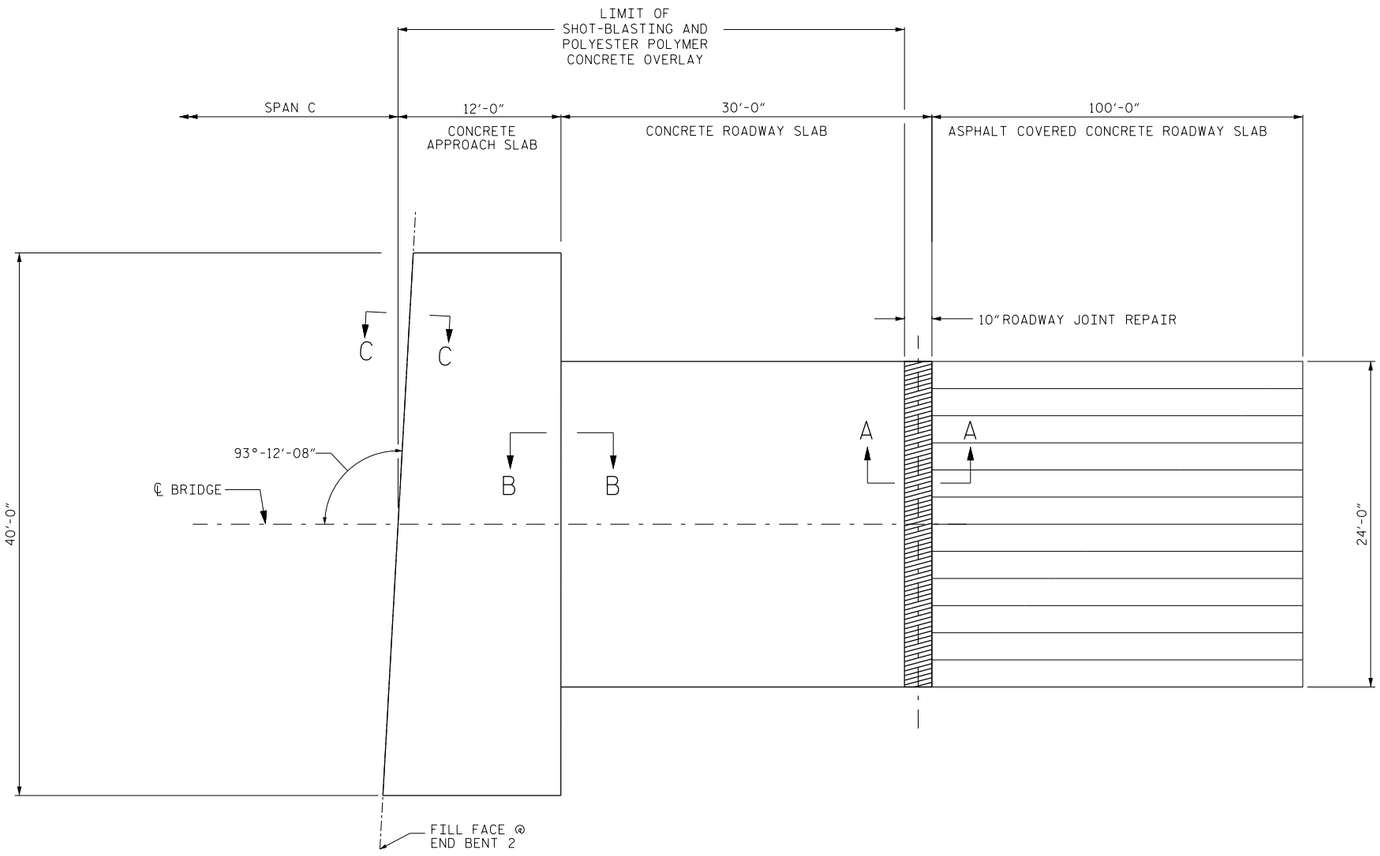
ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	131 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 2

(FOR SECTION VIEW A-A & B-B, SEE "JOINT DETAILS" SHEET S-46)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 99

SHEET 5 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-26
1			3			TOTAL SHEETS
2			4			48

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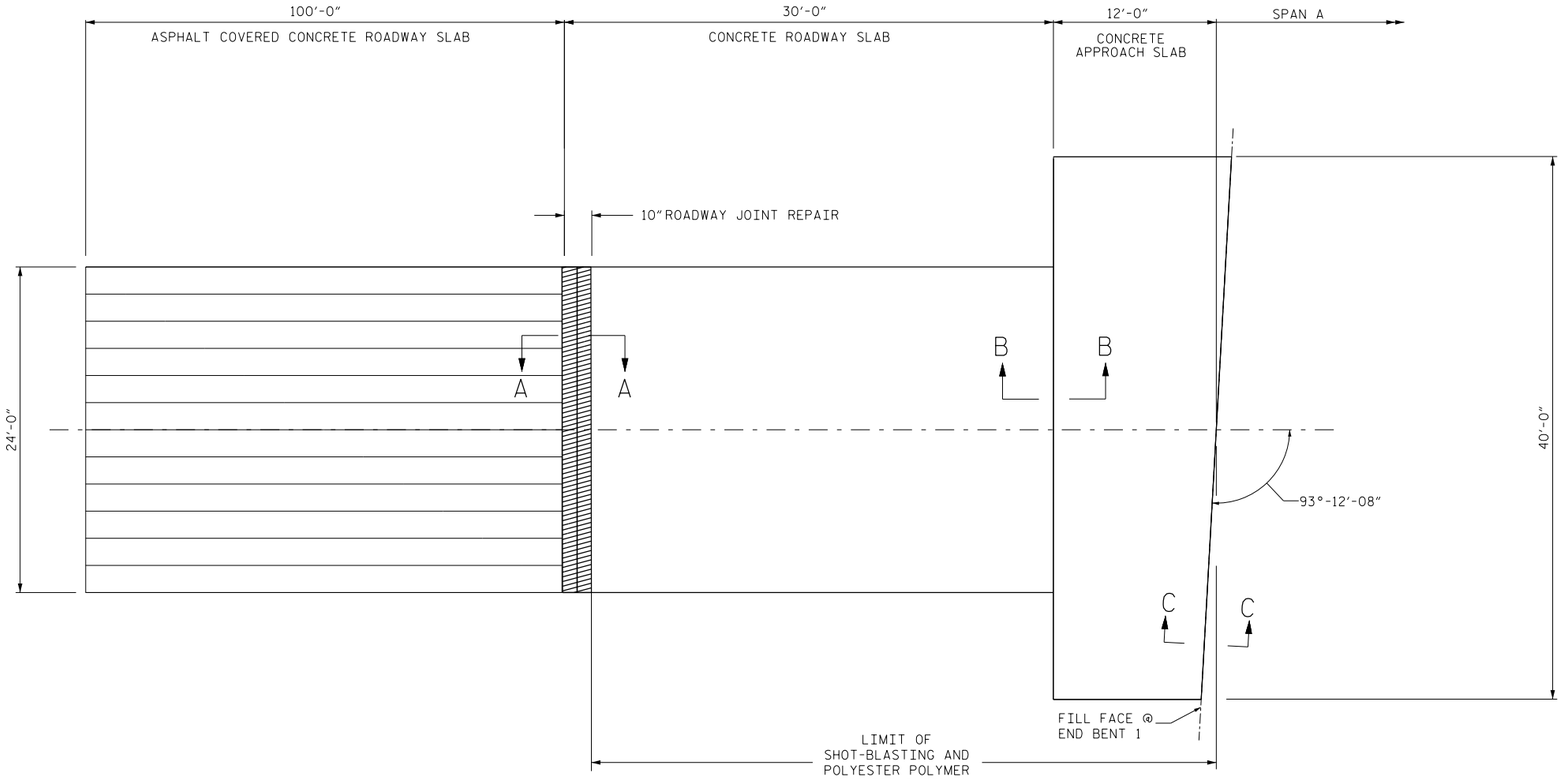
ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	131 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 1

(FOR SECTION VIEW, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 102

SHEET 1 OF 5

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AD50B3D974404CC...

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-27
1			3			TOTAL SHEETS
2			4			48

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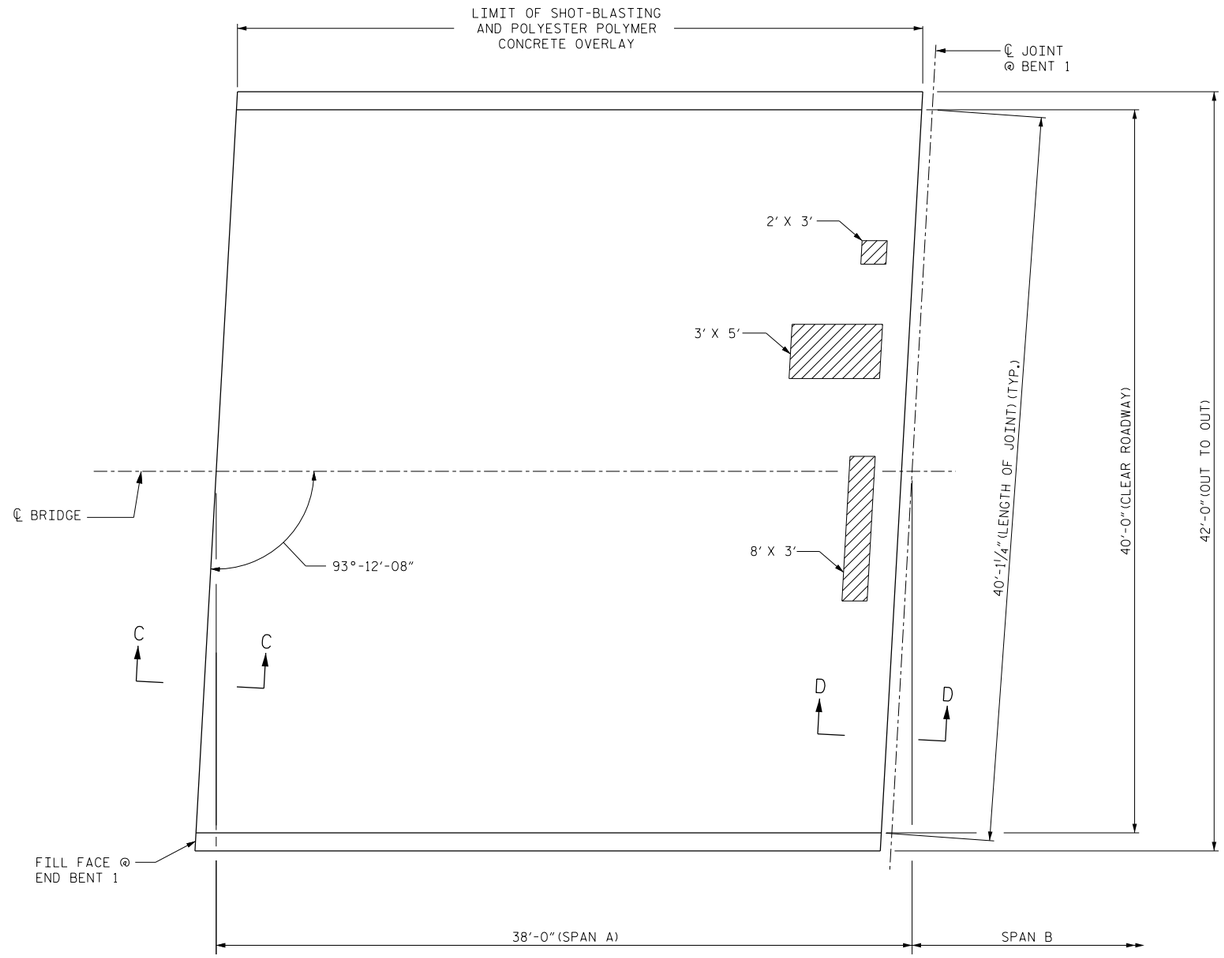
SPAN A QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	5 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	169 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



PLAN OF SPAN A

(FOR SECTION VIEW C-C & D-D, SEE "JOINT DETAILS" SHEET S-47)

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 102

SHEET 2 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN A

DRAWN BY : M. WELDON DATE : 08/2016
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-28
1			3			TOTAL SHEETS
2			4			48

13-DEC-2016 14:11
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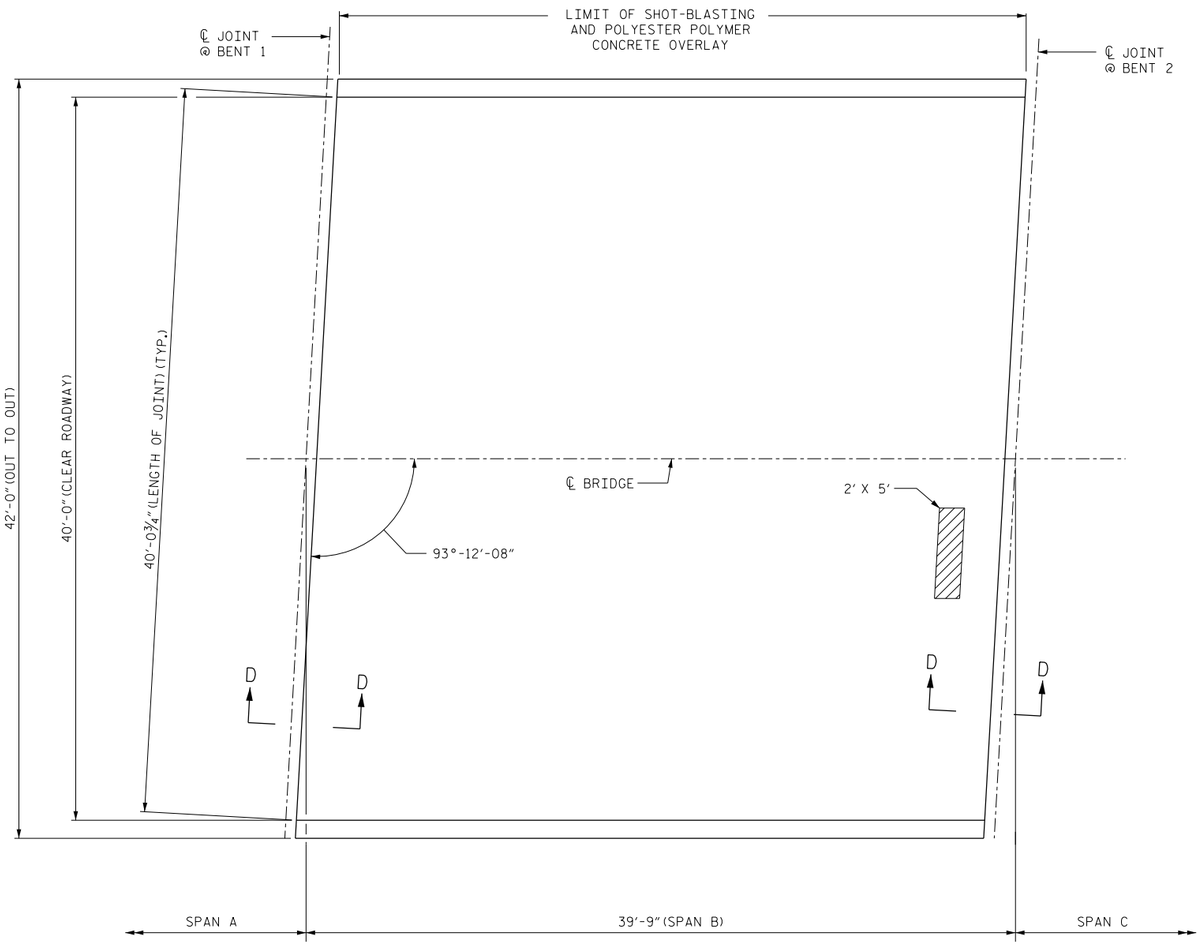
SPAN B QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	2 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	177 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS ROUNDED UP WITH AN EXTRA 1 SQ. YD.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN B

(FOR SECTION VIEW D-D, SEE "JOINT DETAILS" SHEET S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 102

SHEET 3 OF 5

DocuSigned by:
AD50B3D97...

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN B

DRAWN BY : M. WELDON DATE : 08/2016
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-29
1			3			TOTAL SHEETS
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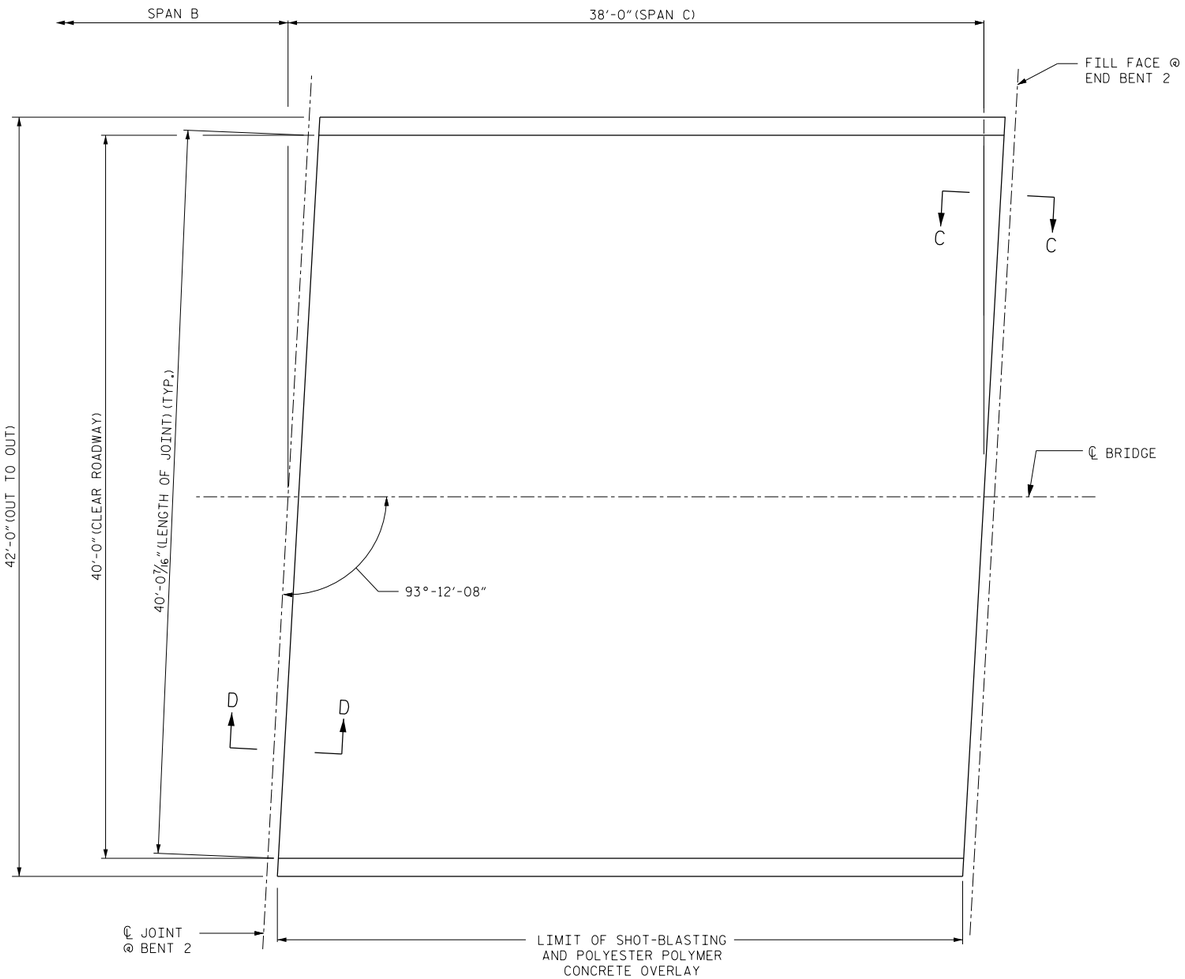

PLAN OF SPAN C

(FOR SECTION VIEW C-C & D-D, SEE "JOINT DETAILS" SHEET S-47)

SPAN C QUANTITIES

	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	169 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 102

SHEET 4 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN C

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-30
1			3			TOTAL SHEETS
2			4			48

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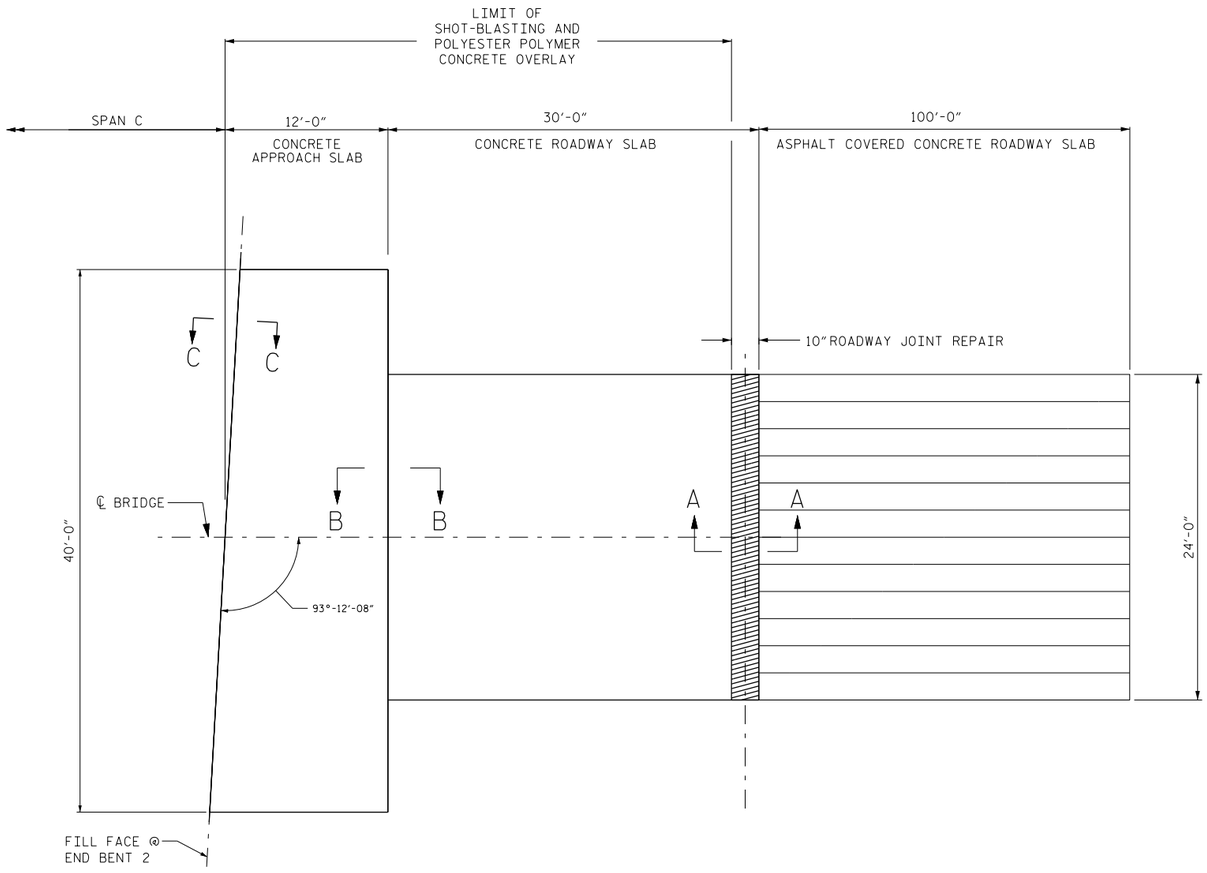
wcsmith

ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	131 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 2

(FOR SECTION VIEW A-A, B-B AND C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 102

SHEET 5 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-31
1			3			TOTAL SHEETS
2			4			48

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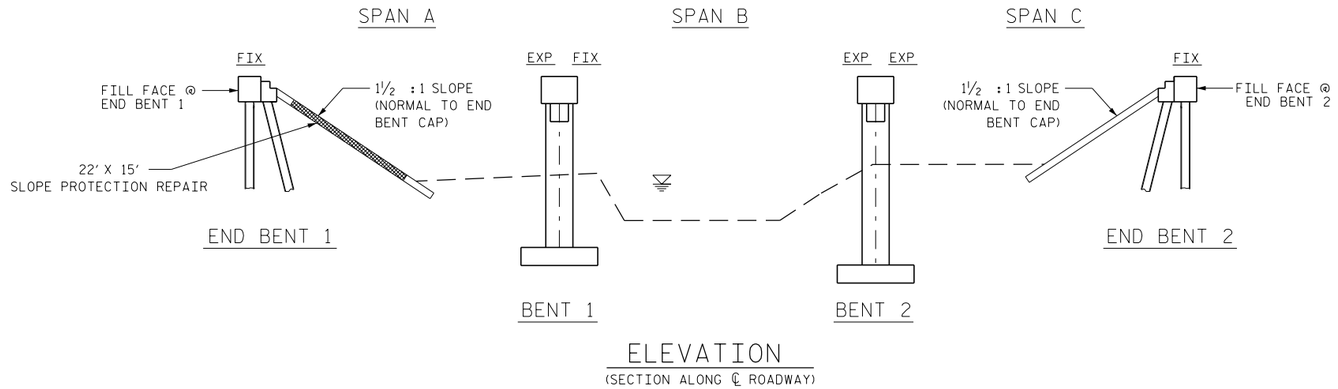
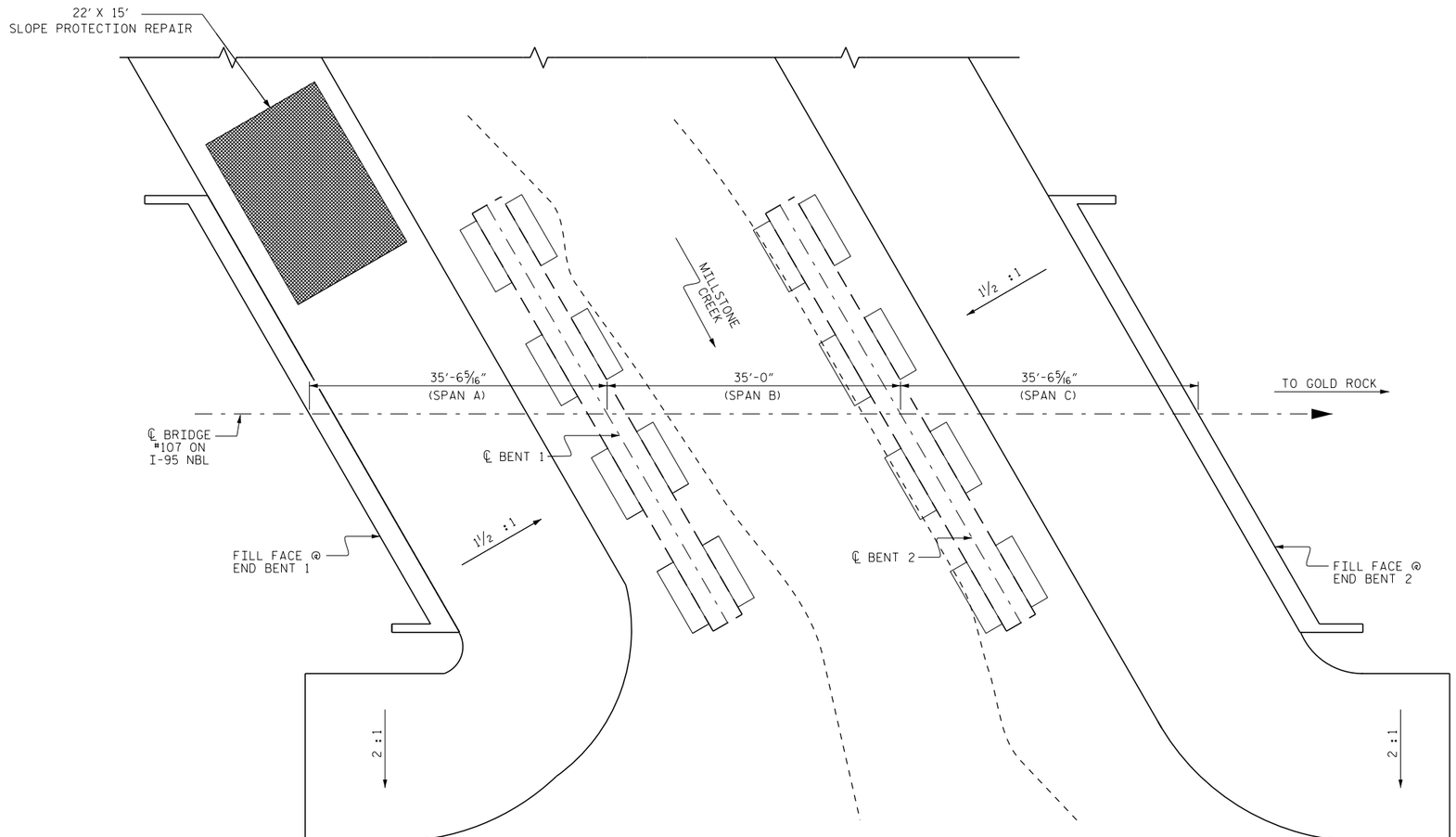


ELEVATION

(SECTION ALONG ℄ ROADWAY)



PLAN

(COLUMN AND FOOTINGS NOT SHOWN IN PLAN VIEW FOR CLARITY)

NOTE

FOR SLOPE PROTECTION REPAIR SEE SHEET S-48.

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 107

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER MILLSTONE CREEK ON I-95 NBL

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-32
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : S. T. SANDOR DATE : 10/2015
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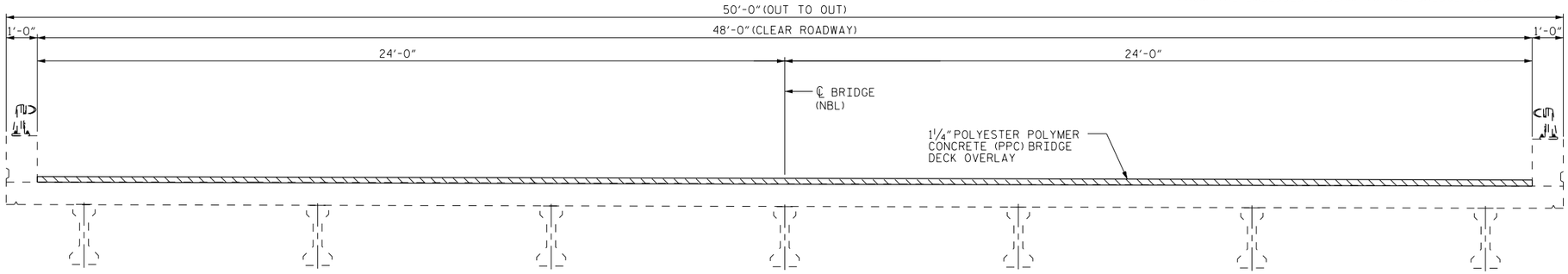
NOTE:

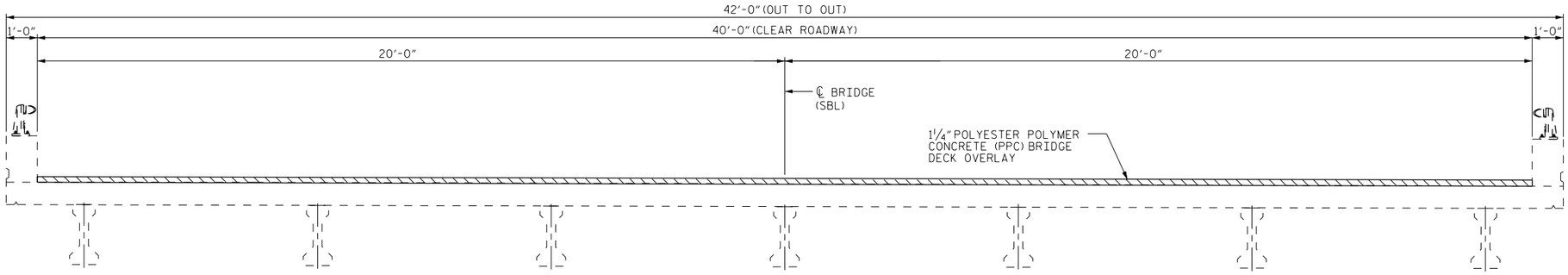
SEE TRAFFIC MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING, AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF POLYESTER POLYMER CONCRETE (PPC) BRIDGE DECK OVERLAY.

* BRIDGE APPROACH SLABS AND ROADWAY SLABS HAVE EXPERIENCED MINOR SETTLEMENT (1/2" OR LESS). OVERLAY DEPTH WILL VARY IN THIS REGION. THE FINISHED GRADE SHALL PROVIDE A SMOOTH TRANSITION FROM THE EMBEDDED I-BEAM TO THE BRIDGE DECK.



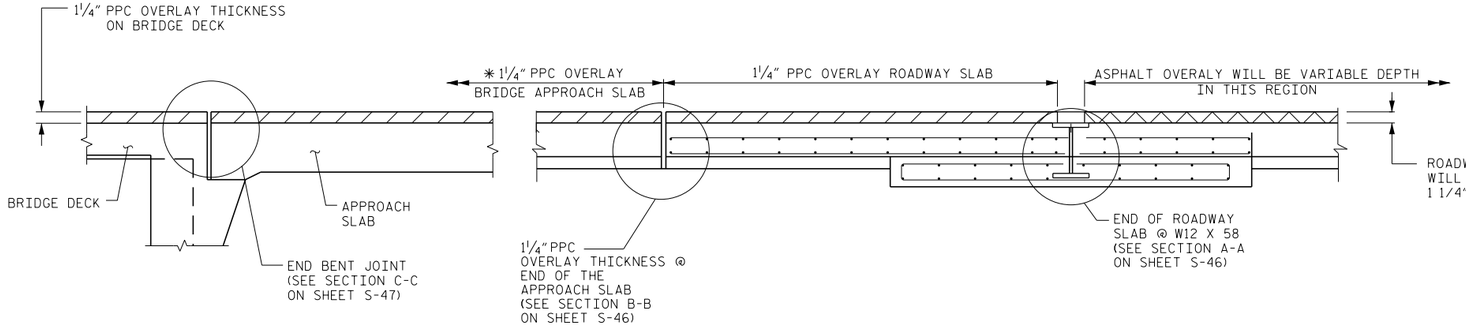
PROPOSED TYPICAL SECTION

(BRIDGE 107 NORTHBOUND LANES SHOWN)



PROPOSED TYPICAL SECTION

(BRIDGE 108 SOUTHBOUND LANES SHOWN)



SECTION THRU ROADWAY AND APPROACH SLAB AT END BENTS

(END BENT #2 SHOWN, END BENT #1 SIMILAR BY ROTATION)

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12/13/2016

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PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 107 & 108

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

TYPICAL SECTION & POLYESTER POLYMER CONCRETE OVERLAY DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-33
1			3			TOTAL SHEETS
2			4			48

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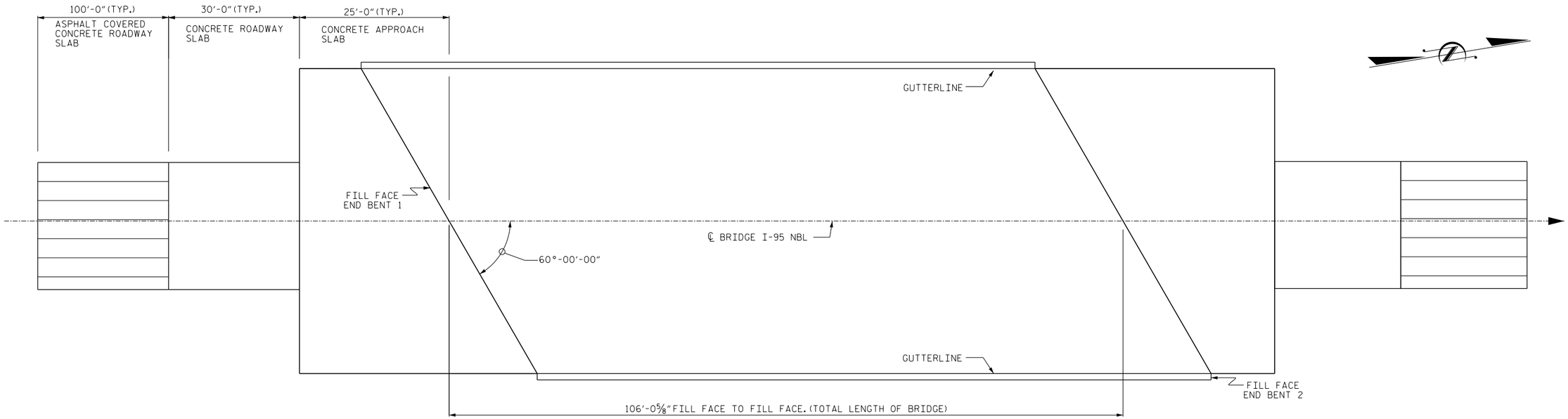
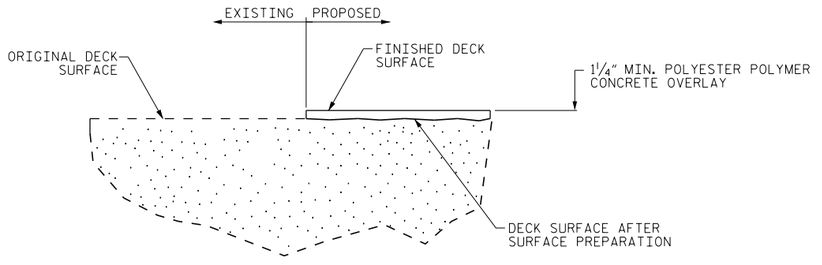


PLAN

(BRIDGE #107 NBL SHOWN, BRIDGE #108 SBL SIMILAR BY ROTATION)

INCIDENTAL MILLING

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY



DETAIL FOR POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 107 & 108

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18565 TIMOTHY M. SHERRILL

12/13/2016

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

SURFACE PREPARATION

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-34
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : S. T. SANDOR/ M.WELDON DATE : 10/2015

CHECKED BY : W.M.CLARKE/ W.C.SMITH DATE : 9/2016

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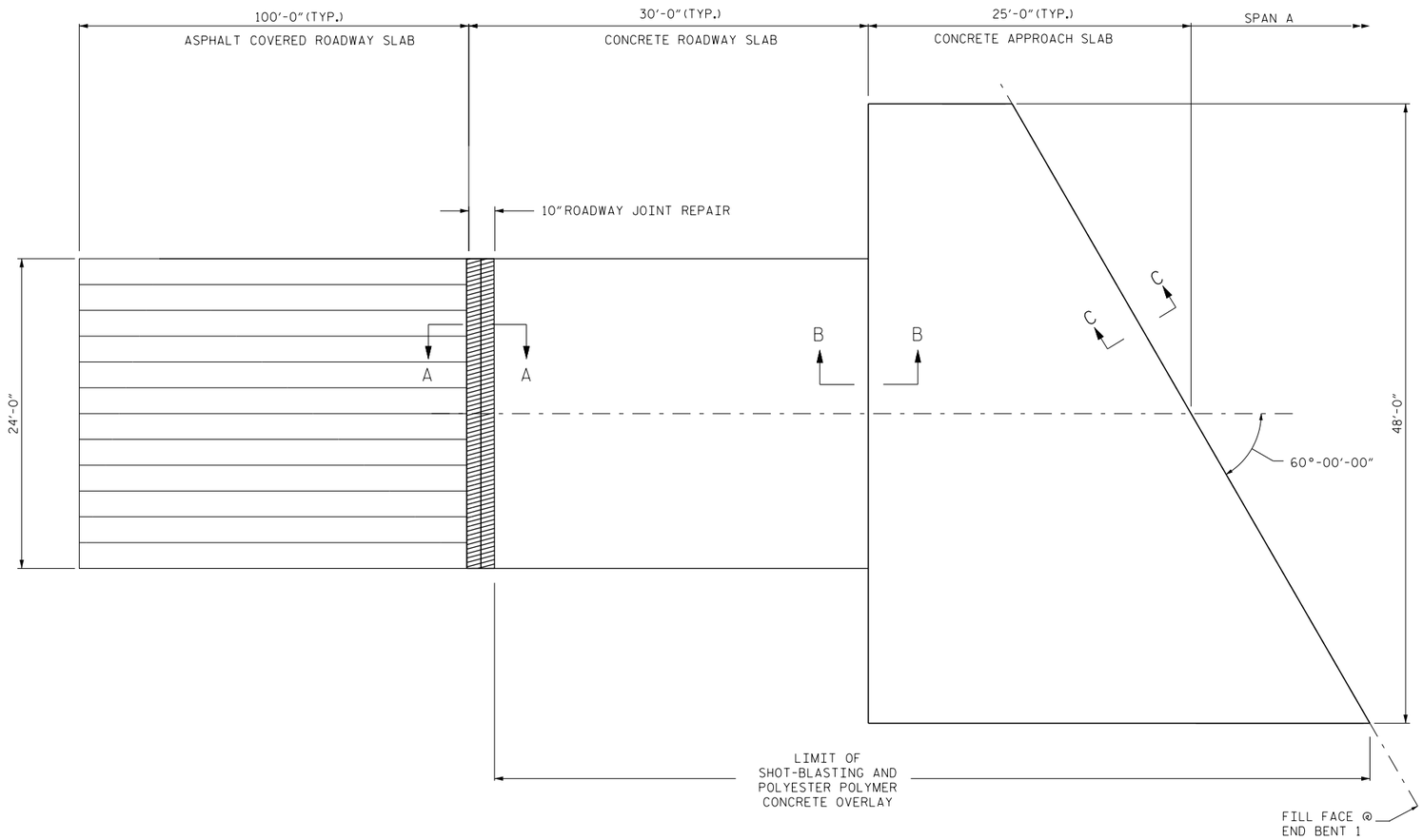
wcsmith

ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	211 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 1

(FOR SECTION VIEW A-A, B-B & C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 107

SHEET 1 OF 5

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-35
1			3			TOTAL SHEETS
2			4			48

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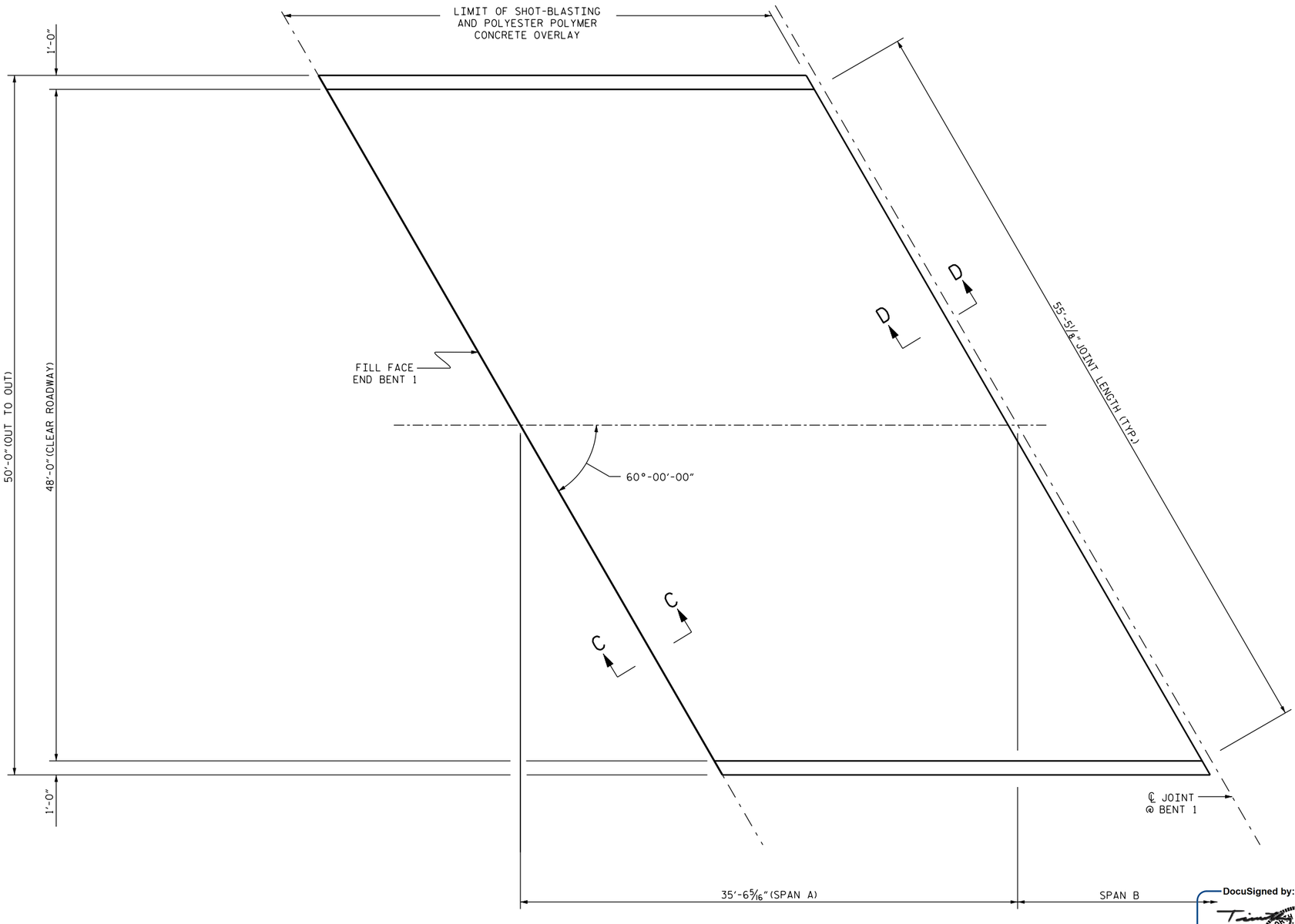
SPAN A QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PLAN OF SPAN A

(FOR SECTION VIEW C-C, & D-D, SEE "JOINT DETAILS" SHEET S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 107

SHEET 2 OF 5

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RALEIGH

SURFACE PREPARATION

SPAN A

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tmsherrill

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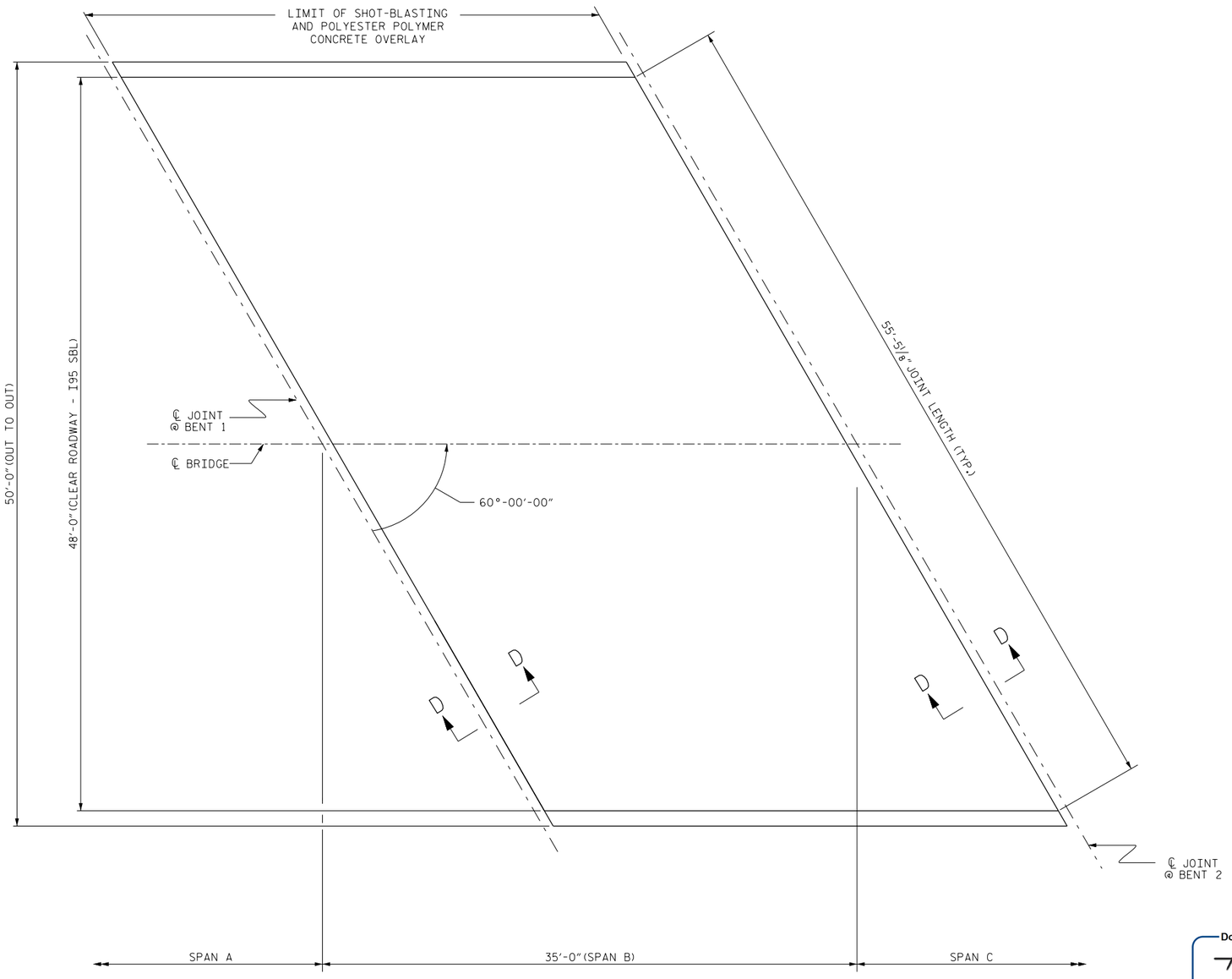
NO.	BY:	DATE:	NO.	BY:	DATE:	S-36
1			3			TOTAL SHEETS
2			4			48



PLAN OF SPAN B

(FOR SECTION VIEW D-D, SEE "JOINT DETAILS" SHEET S-47)

SPAN B QUANTITIES

	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	187 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 107

SHEET 3 OF 5

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STATE OF NORTH CAROLINA
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RALEIGH

SURFACE PREPARATION

SPAN B

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-37
1			3			TOTAL SHEETS
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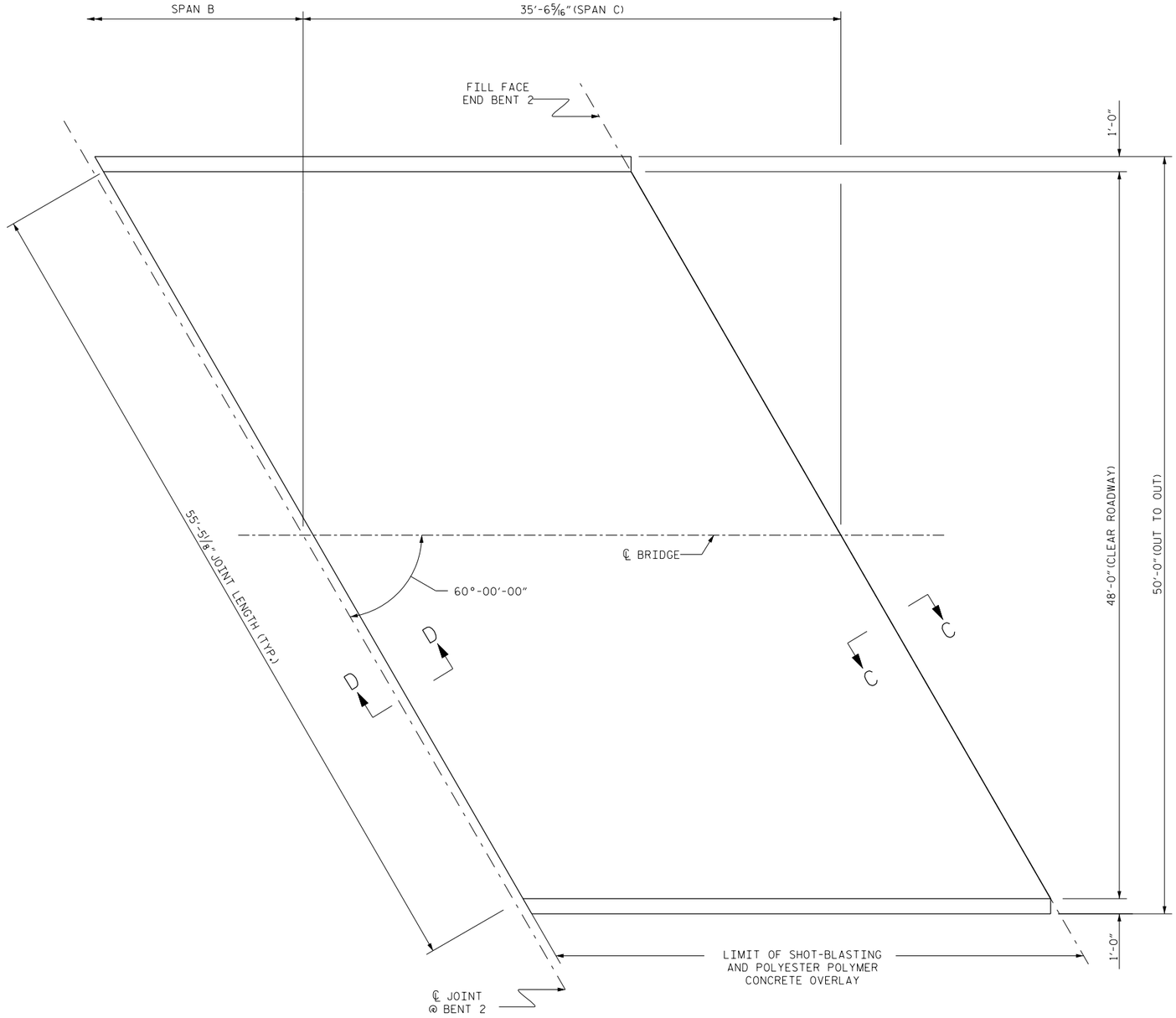

PLAN OF SPAN C

(FOR SECTION VIEW D-D & C-C, SEE "JOINT DETAILS" SHEET S-47)

SPAN C QUANTITIES

	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 107

SHEET 4 OF 5

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN C

DRAWN BY : M. WELDON DATE : 08/2016
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-38
1			3			TOTAL SHEETS
2			4			48

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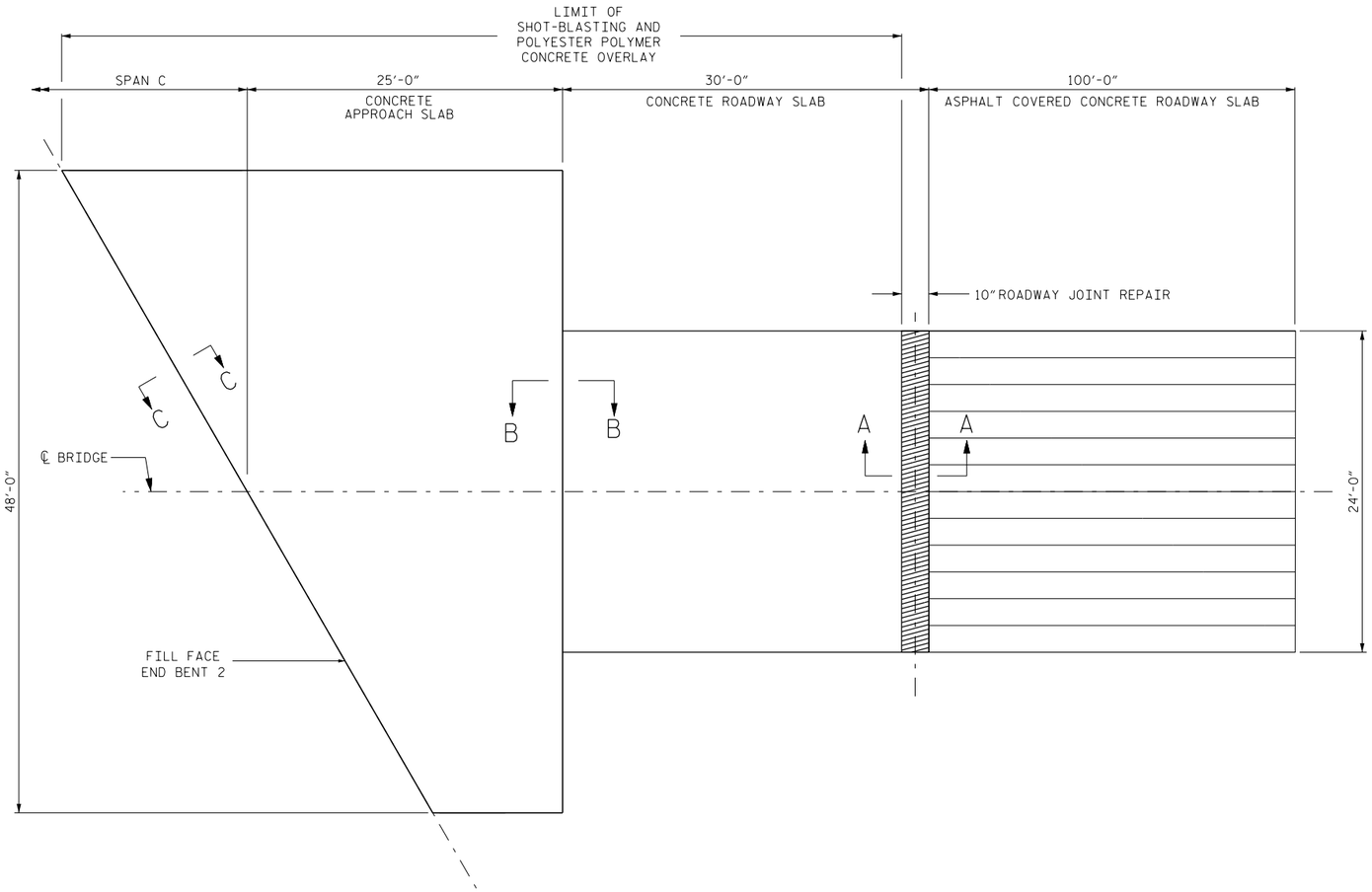
ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	211 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 2

(FOR SECTION VIEW A-A, B-B & C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 107

SHEET 5 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-39
1			3			TOTAL SHEETS
2			4			48

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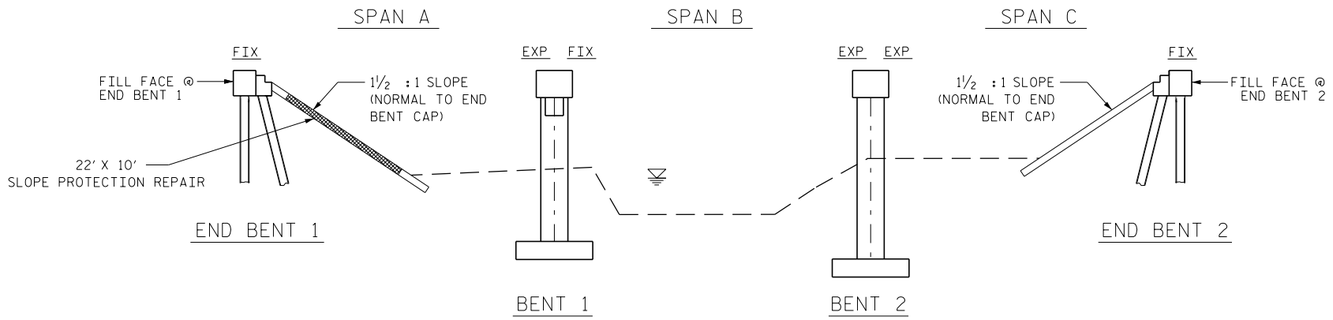
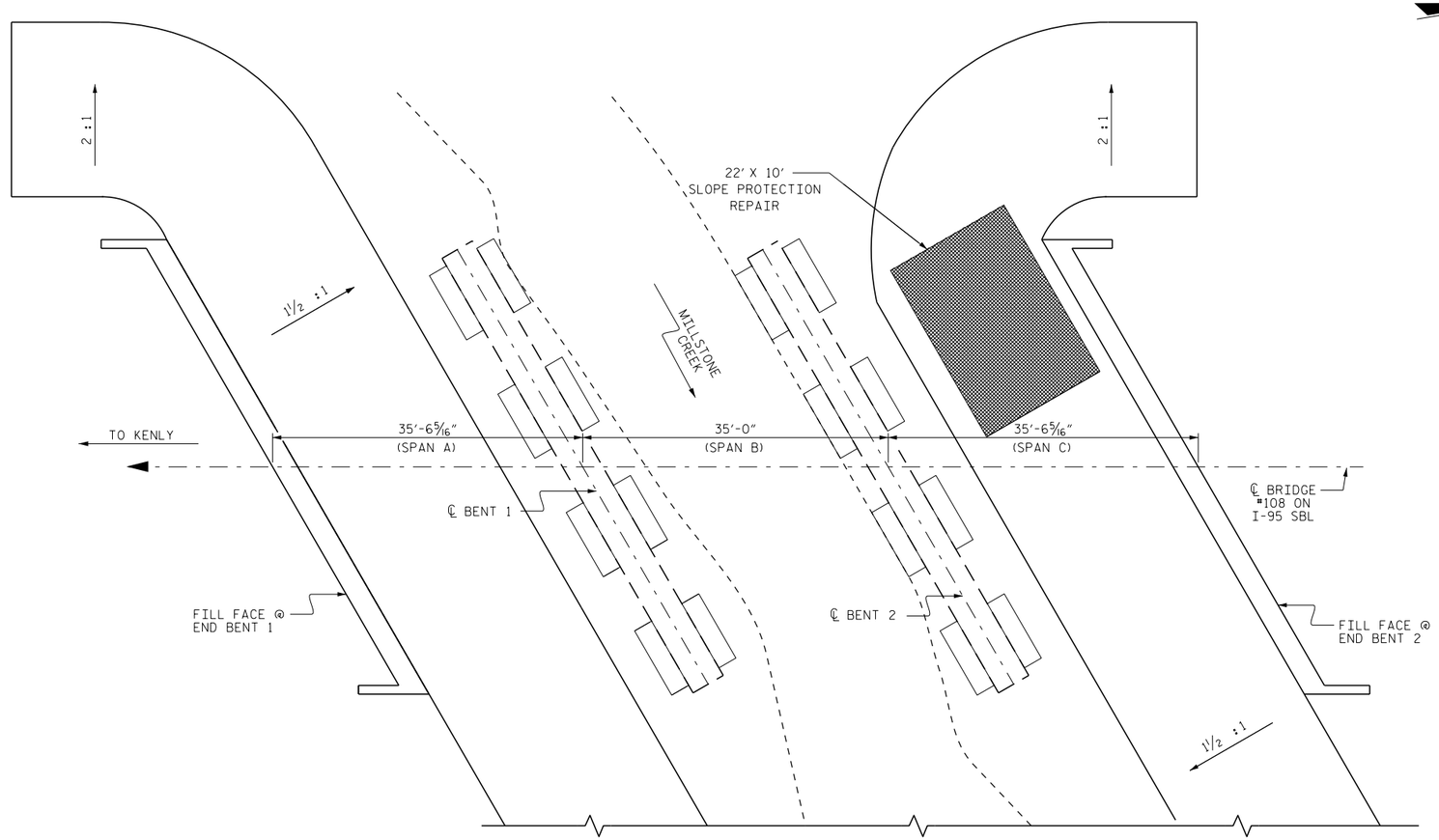


ELEVATION

(SECTION ALONG ℄ ROADWAY)



PLAN

(COLUMN AND FOOTINGS NOT SHOWN IN PLAN VIEW FOR CLARITY)

NOTE

FOR SLOPE PROTECTION REPAIR SEE SHEET S-48.

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 108

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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
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RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER MILLSTONE CREEK ON I-95 SBL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-40
1			3			TOTAL SHEETS
2			4			48

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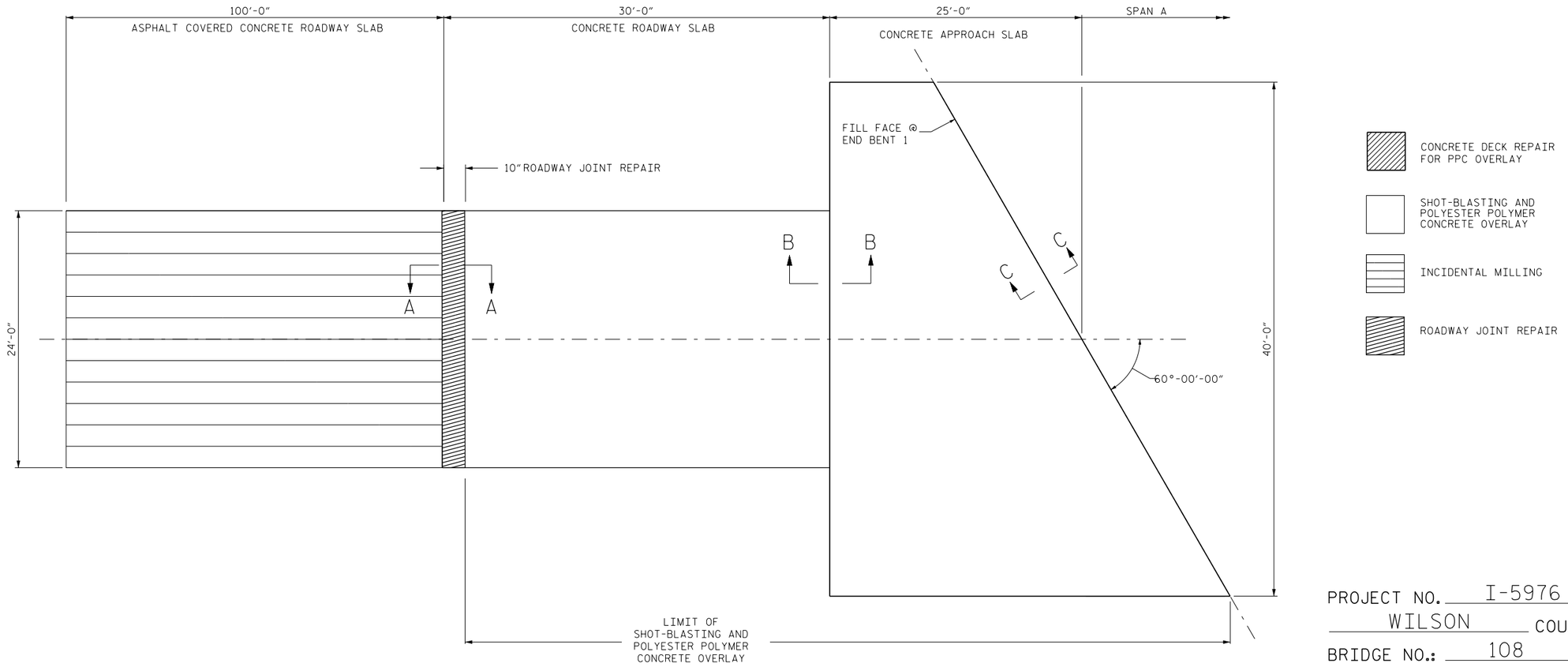
ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 1

(FOR SECTION VIEW A-A, B-B & C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 108

SHEET 1 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-41
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : M. WELDON DATE : 08/2016
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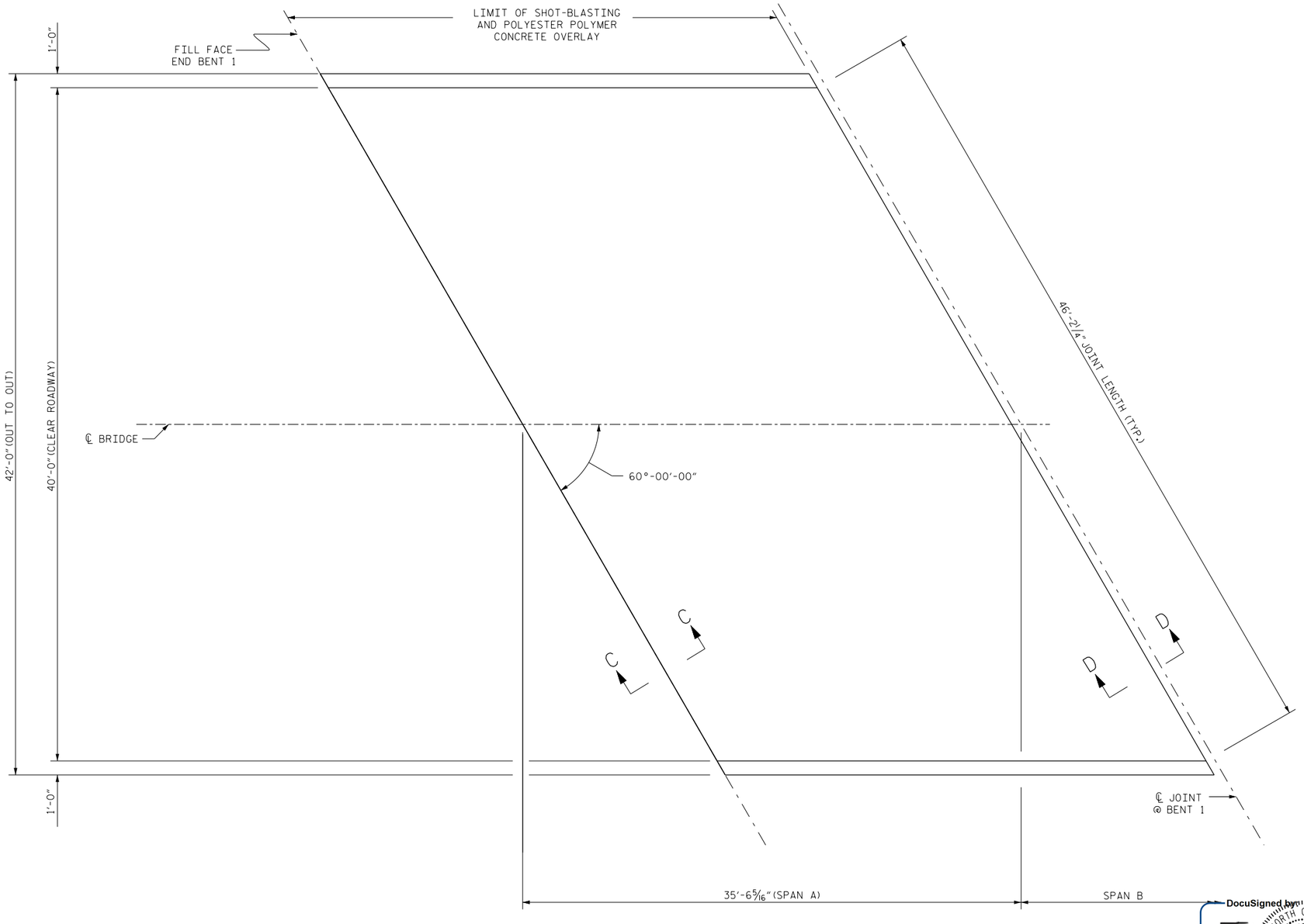

PLAN OF SPAN A

(FOR SECTION VIEW C-C & D-D, SEE "JOINT DETAILS" SHEET S-47)

SPAN A QUANTITIES

	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	158 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

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PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 108

SHEET 2 OF 5

STATE OF NORTH CAROLINA
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RALEIGH

SURFACE PREPARATION

SPAN A

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-42
1			3			TOTAL SHEETS
2			4			48

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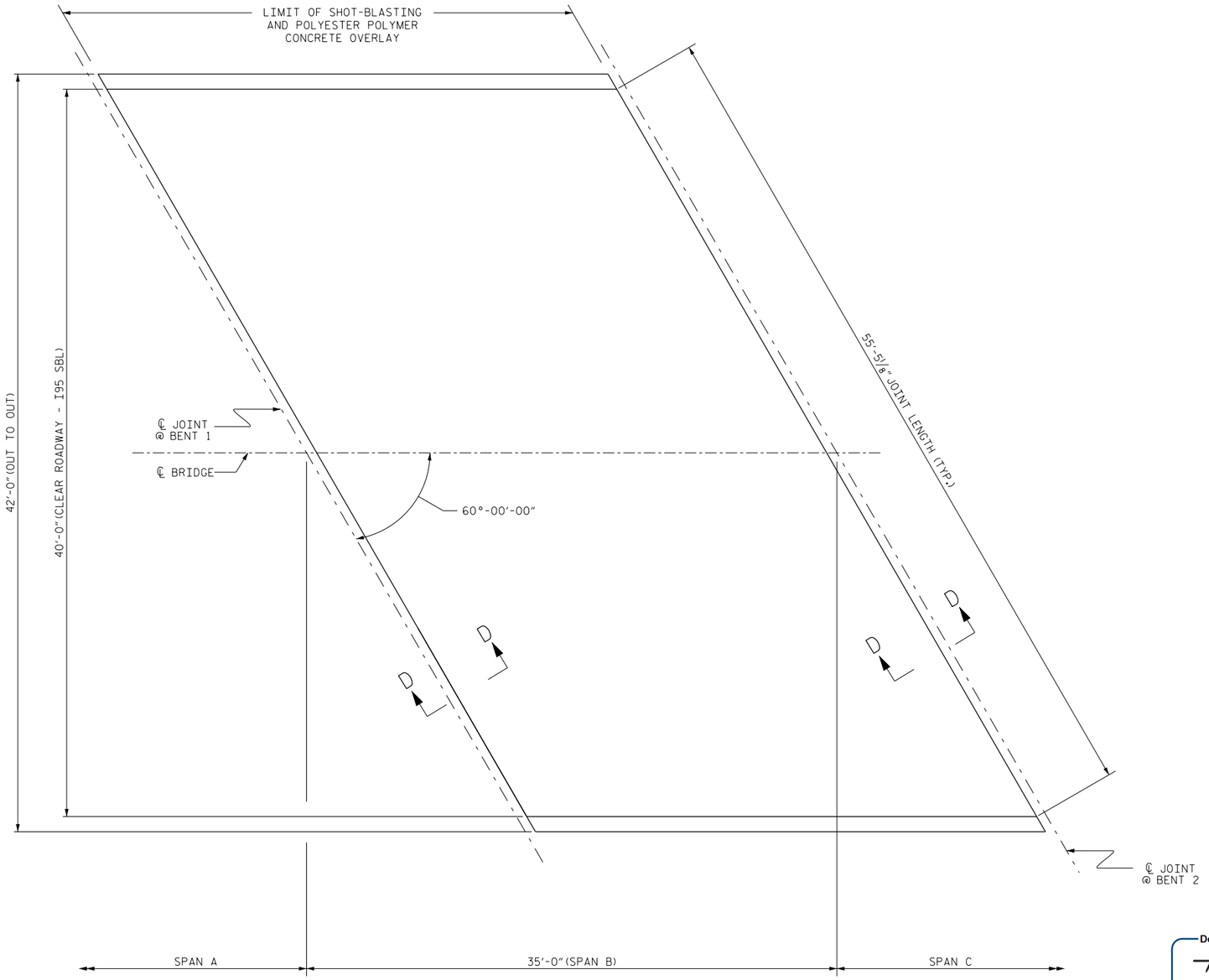
SPAN B QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	173 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.



PLAN OF SPAN B

(FOR SECTION VIEW D-D, SEE "JOINT DETAILS" SHEET S-47)

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 108

SHEET 3 OF 5

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-43
1			3			TOTAL SHEETS
2			4			48

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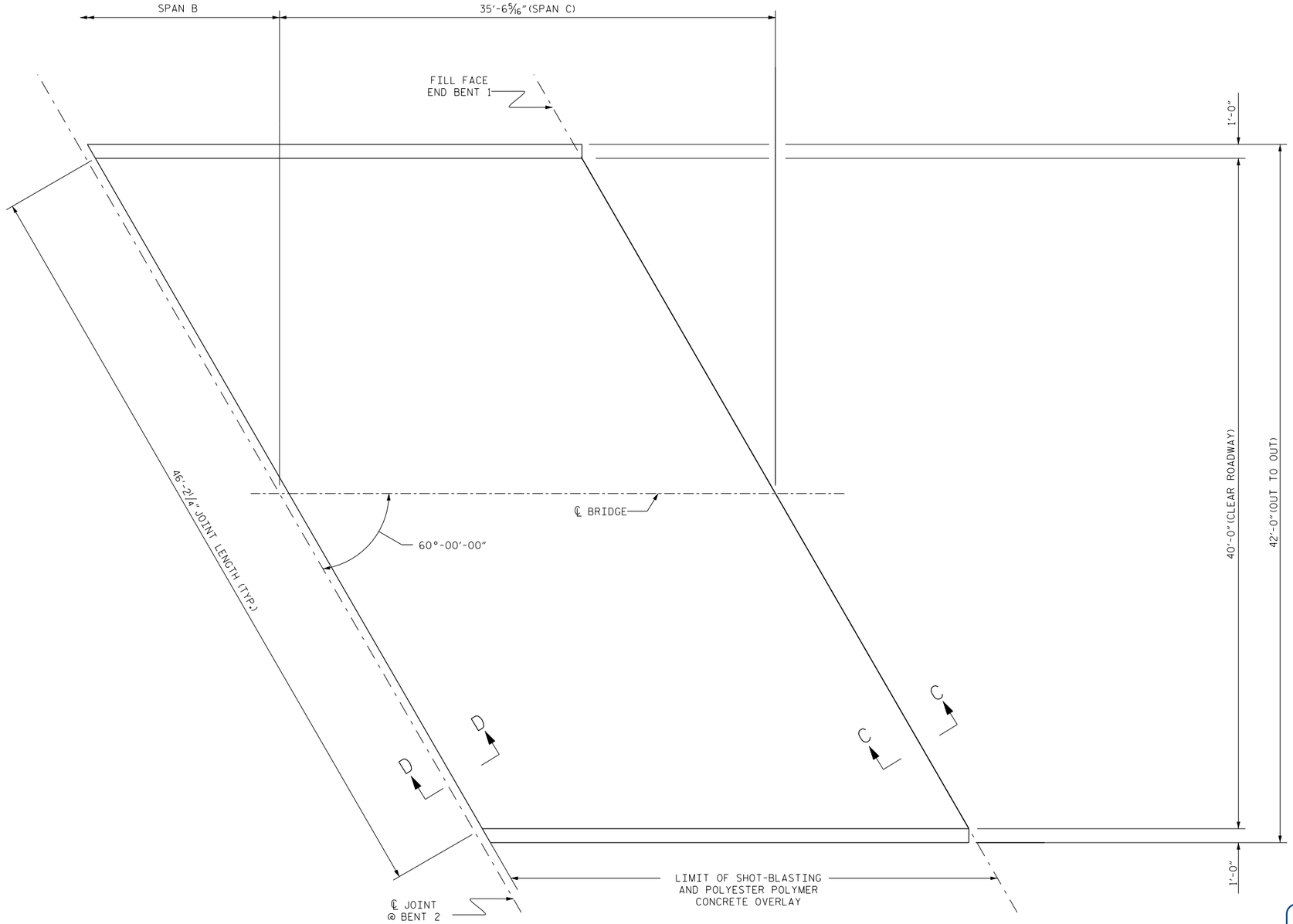

PLAN OF SPAN C

(FOR SECTION VIEW D-D & C-C, SEE "JOINT DETAILS" SHEET S-47)

SPAN C QUANTITIES

	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	158 SQ. YDS.	

CONCRETE DECK REPAIR FOR PPC OVERLAY IS NOT ANTICIPATED. A TOKEN AMOUNT IS INDICATED FOR PRICING PURPOSES, IN CASE UNANTICIPATED CONCRETE DECK REPAIR AREAS ARE ENCOUNTERED.

CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 108

SHEET 4 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

SPAN C

DRAWN BY : M. WELDON DATE : 08/2016
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-44
1			3			TOTAL SHEETS
2			4			48

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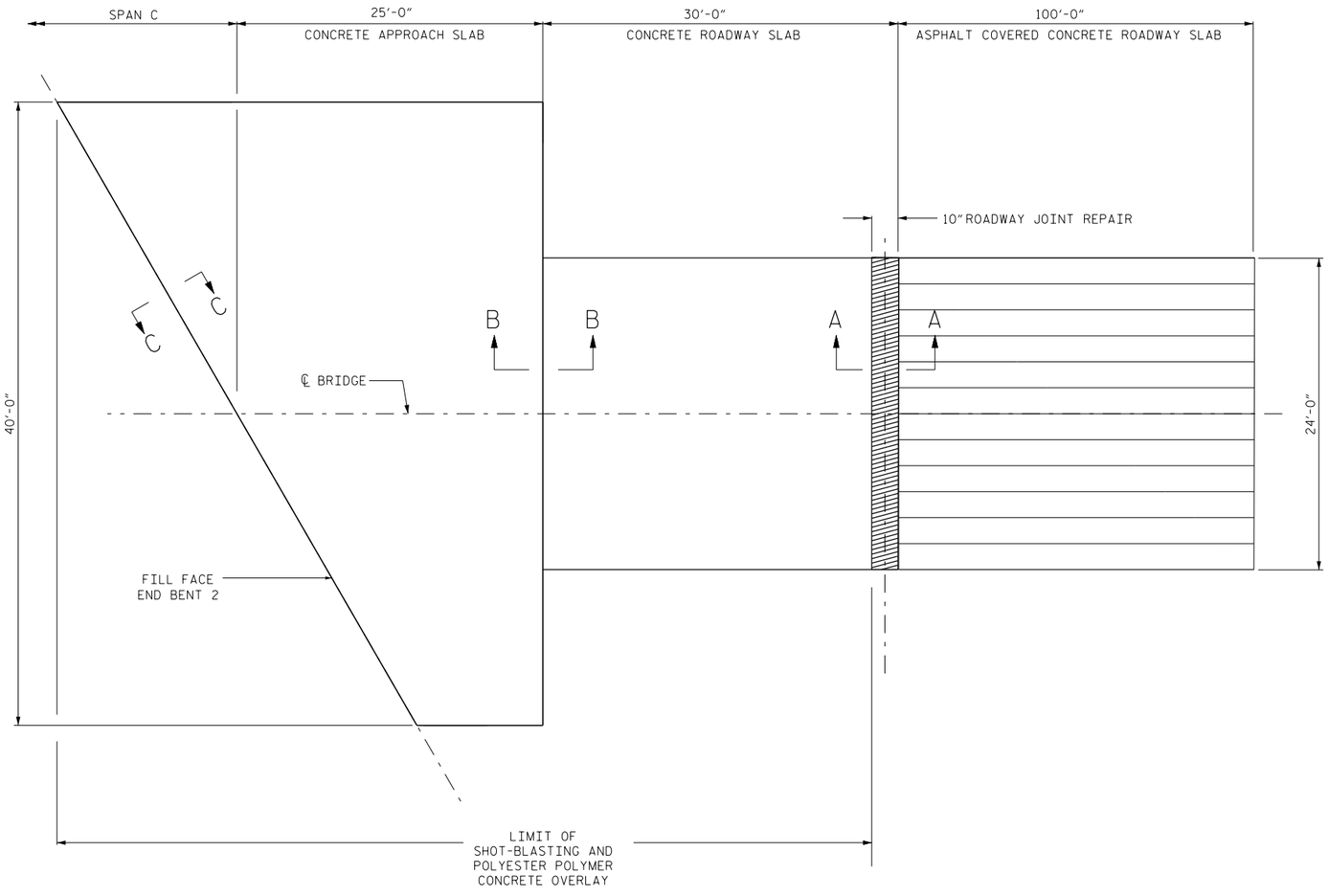
ROADWAY & APPROACH SLAB QUANTITIES		
	ESTIMATE	ACTUAL
CONCRETE DECK REPAIR FOR PPC OVERLAY	1 SQ. YDS.	
PLACING AND FINISHING PPC OVERLAY	189 SQ. YDS.	
INCIDENTAL MILLING	267 SQ. YDS.	
STEEL PLATE	24 LN. FT.	



CONCRETE DECK REPAIR FOR PPC OVERLAY

SHOT-BLASTING AND POLYESTER POLYMER CONCRETE OVERLAY

INCIDENTAL MILLING

ROADWAY JOINT REPAIR

ROADWAY AND BRIDGE APPROACH SLAB AT END BENT 2

(FOR SECTION VIEW A-A, B-B & C-C, SEE "JOINT DETAILS" SHEET S-46 & S-47)

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 108

SHEET 5 OF 5

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12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SURFACE PREPARATION

APPROACH SLAB @ END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-45
1			3			TOTAL SHEETS
2			4			48

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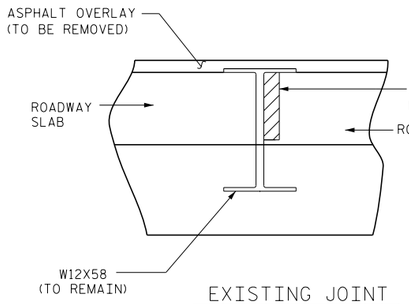
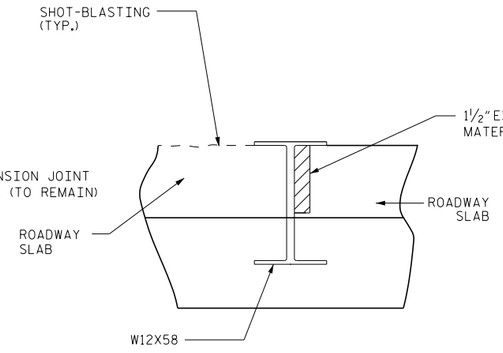
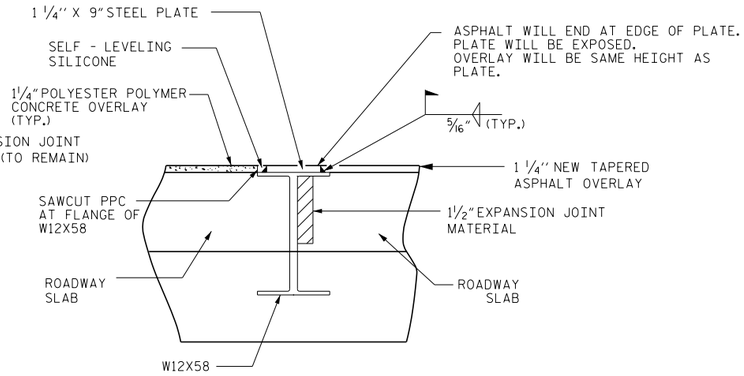


EXISTING JOINT



MINIMUM EXISTING
JOINT DEMOLITION



PROPOSED JOINT REPAIR

NOTES:

CONTRACTOR SHALL FIELD VERIFY THE EXISTING FORMED OPENING PRIOR TO OBTAINING JOINT MATERIAL.

RETAIN ALL EXISTING REINFORCING STEEL. CLEAN AND REPAIR AS NEEDED.

PROVIDE ¼" TALL, 45° BEVEL AT TOP OF SAWED JOINT OPENING.

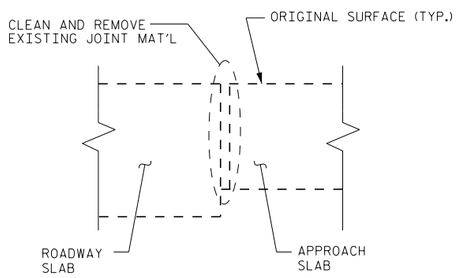
ALL WELDING SHALL BE IN ACCORDANCE WITH CURRENT APPLICABLE AWS AND NCDOT STANDARD SPECIFICATIONS.

ALL WELDS SHALL PASS INSPECTION AND TESTING BY NCDOT MATERIALS AND TEST UNIT IN ACCORDANCE WITH THE CURRENT AWS BRIDGE WELDING CODE AND STANDARD SPECIFICATIONS.

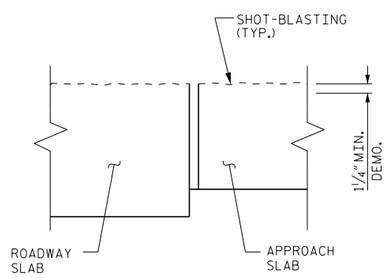
IN ACCORDANCE WITH STANDARD SPECIFICATIONS, GRIND ALL WELDS FLUSH, THOROUGHLY CLEAN AREA TO REMOVE DEBRIS AND OILS FROM REPAIR PROCESS.

JOINT INSTALLATION SEQUENCE AT APPROACH ROADWAY SLAB

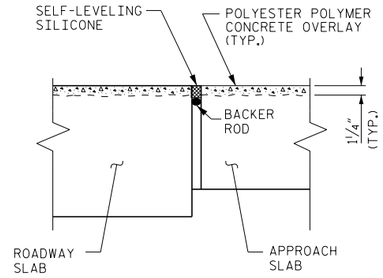
SECTION A-A



EXISTING JOINT



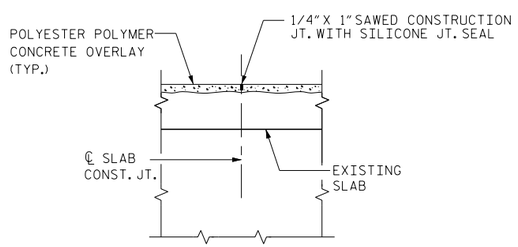
MINIMUM EXISTING
JOINT DEMOLITION



PROPOSED JOINT

JOINT INSTALLATION SEQUENCE AT APPROACH SLAB

SECTION B-B



INSTALLATION AT CONSTRUCTION JOINT

SECTION E-E

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 73, 74, 99, 102

SHEET 1 OF 2 107 & 108

DocuSigned by:
AD50B1D977494CC...

NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

JOINT DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-46
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : S. T. SANDOR DATE : 10/2016

CHECKED BY : W. M. CLARKE DATE : 10/2016

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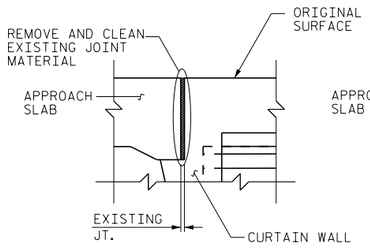
NOTES:

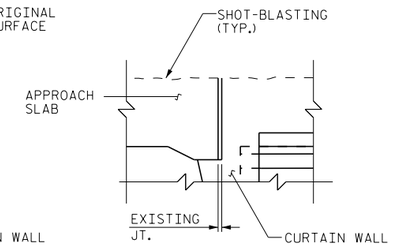
CONTRACTOR SHALL FIELD VERIFY THE EXISTING FORMED OPENING PRIOR TO OBTAINING JOINT MATERIAL.

RETAIN ALL EXISTING REINFORCING STEEL. CLEAN AND REPAIR AS NEEDED.

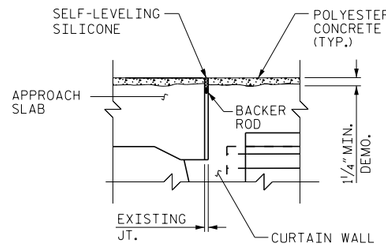
PROVIDE 1/4" TALL, 45° BEVEL AT TOP OF SAWED JOINT OPENING.



EXISTING JOINT



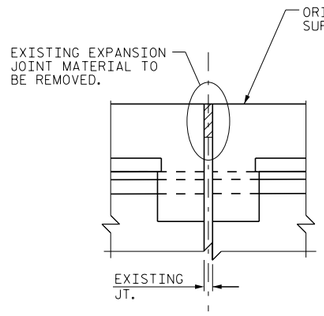
MINIMUM EXISTING JOINT DEMOLITION



PROPOSED JOINT

JOINT INSTALLATION SEQUENCE AT APPROACH ROADWAY SLAB

SECTION C-C



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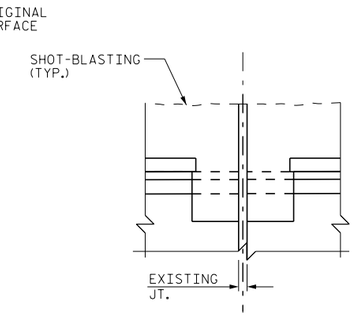

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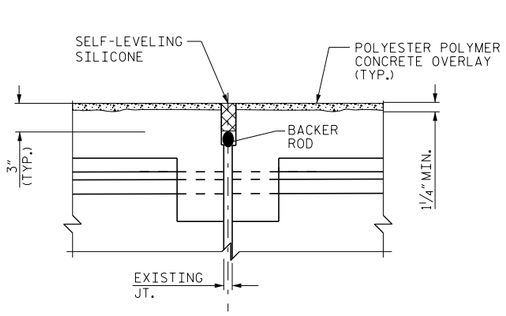
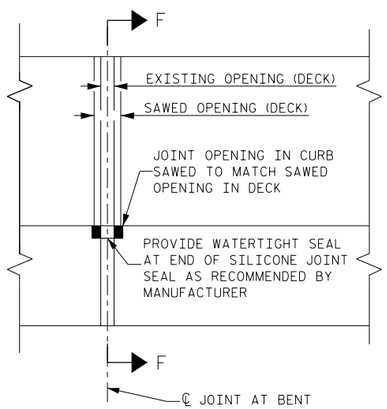


PROPOSED JOINT

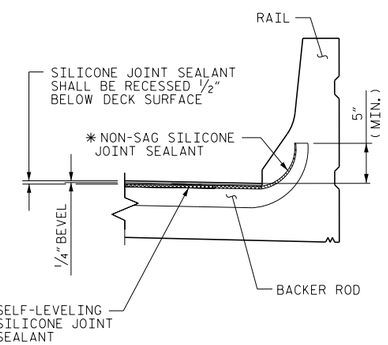
JOINT INSTALLATION SEQUENCE AT APPROACH ROADWAY SLAB

SECTION D-D



PLAN

JOINT DETAIL AT BARRIER RAIL



SECTION F-F

* NON-SAG SILICONE JOINT SEALANT TO BE PLACED AND ALLOWED TO SET, PRIOR TO PLACEMENT OF SELF-LEVELING SILICONE JOINT SEALANT.

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO.: 73, 74, 99, 102 107 & 108

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

JOINT DETAILS

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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-47
1			3			TOTAL SHEETS
2			4			48

DRAWN BY : M. WELDON DATE : 9/2016
CHECKED BY : W. C. SMITH DATE : 10/2016

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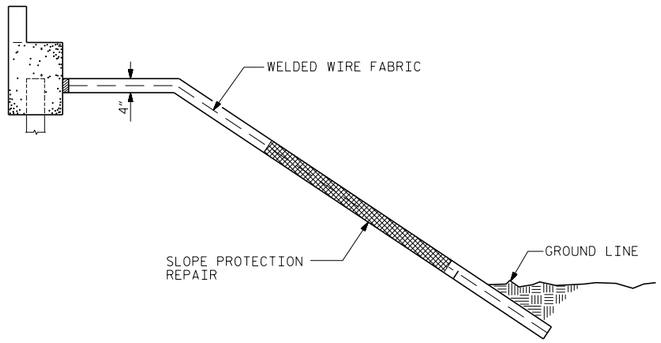

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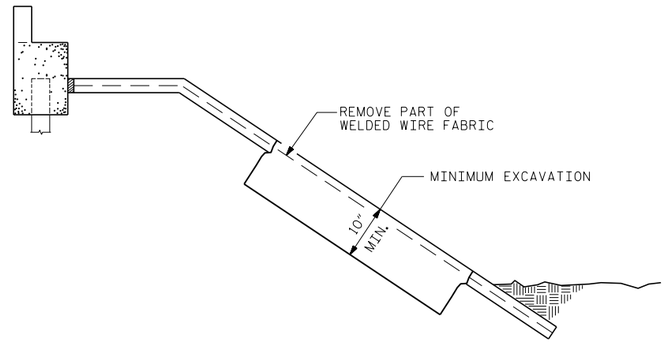


DETAILS OF EXCAVATION

NOTES

EXCAVATION FOR REPAIRS OF SLOPE PROTECTION SHALL BE DONE AFTER THE THOROUGH REMOVAL OF ALL LOOSE CONCRETE OF EXISTING SLOPE PROTECTION.

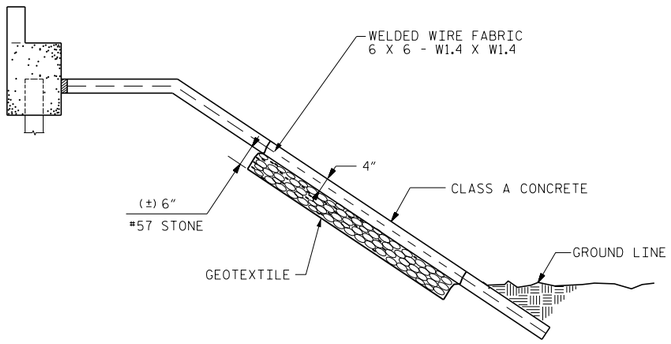
DEPTH OF EXCAVATION IS FOR REFERENCE ONLY BUT IS PREFERABLE TO EXCAVATE UNTIL REACH A STABLE GROUND.

FILTER FABRIC SHALL BE PLACED OVER THE EXCAVATED AREA AND A LAYER OF #57 (OR SIMILAR) STONE SHALL BE PLACED ON TOP OF IT TO A DEPTH OF APPROXIMATIVE SIX INCHES.

CLASS A CONCRETE SHALL BE PLACED OVER THE AREA SHOWN ON THE PLANS TO A LEVEL THAT MATCHES THE REMAINING CONCRETE SLOPE PROTECTION.

BRIDGE #107	#57 STONE	GEOTEXTILE FOR DRAINAGE	CLASS A CONCRETE
	TON	SQUARE YARDS	CUBIC YARDS
END BENT 1	6.1	36.7	4.1
END BENT 2	0	0	0

BRIDGE #108	#57 STONE	GEOTEXTILE FOR DRAINAGE	CLASS A CONCRETE
	TON	SQUARE YARDS	CUBIC YARDS
END BENT 1	4.1	24.4	2.7
END BENT 2	0	0	0



DETAILS OF REPAIR

PROJECT NO. I-5976

WILSON COUNTY

BRIDGE NO. 107 & 108

DocuSigned by:
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NORTH CAROLINA PROFESSIONAL SEAL 18565 ENGINEER TIMOTHY M. SHERRILL

12/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SLOPE PROTECTION REPAIRS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-48
1			3			TOTAL SHEETS
2			4			48

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DRAWN BY : S. T. SANDOR DATE : 10/2015
CHECKED BY : W. C. SMITH DATE : 10/2016

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STANDARD NOTES

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 SQ. IN.
CONCRETE IN COMPRESSION	1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR	
UNTREATED - EXTREME FIBER STRESS	1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH	30 LBS. PER CU. FT. (MINIMUM)

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.

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 1-1/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED 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 REQUIRED 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.

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 ELEVATIONS 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 CAMBER. WHERE BOTTOM 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 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 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 3/4" 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'-0".

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 THESE 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 AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES 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.

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. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

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 SPECIFICATIONS ARTICLE 105-4.

ENGLISH

JANUARY, 1990

STD. NO. SN

REV. 6-16-95 EEM (/) RGW REV. 5-7-03 RWW (/) JTE REV. 10-1-11 MAA (/) GM
REV. 8-16-99 RWW (/) LES REV. 5-1-06 TLA (/) GM

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