



Transportation

PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

March 7, 2016

Addendum No. 1

RE: Contract # C203782

WBS # 46264.3.FS1, 53042.3.1

F. A. # IMPM-040-3(134)219, NHPIM-0040(10)148

Alamance County (I-5309, I-5836)

I-40/I-85 From East Of The Guilford County Line To 0.2 Miles

East Of NC-54 in Graham

March 15, 2016 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

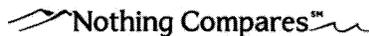
The following revisions have been made to the plans:

Sheet No.	Revisions
6 thru 9	Revised to reflect the below noted quantity changes and pay item additions
TMP-1B and TMP-1C	Revised to reflect the changes in the Intermediate Contract Times in the proposal as mentioned below

Please void Sheet Nos. 6 thru 9 and TMP-1B and TMP-1C in your plans and staple the revised Sheet Nos. 6 thru 9 and TMP-1B and TMP-1C thereto.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 03-07-16"
Table of Contents	Revised to reflect adding ICT# 6 as noted below
G-1	Revised completion date within the project special provision entitled "Contract Time and Liquidated Damages" and revised "Day and Time Restrictions" within the project special provision entitled "Intermediate Contract Time Number 1 And Liquidated Damages"
G-2 and G-3	Revised "Day and Time Restrictions" with the project special provisions entitled "Intermediate Contract Time Number 2 And Liquidated Damages" and "Intermediate Contract Time Number 3 And Liquidated Damages"
G-4 and New G-4A	Added the project special provision entitled "Intermediate Contract Time Number 6 And Liquidated Damages"



Page No.	Revisions
G-6	Revised percentages within the project special provision entitled "Schedule of Estimated Completion Progress"
R-29 and New R-30	Revised to add the project special provision entitled "Non-Tracking Hot Applied Tack Coat"

Please void the above listed pages in your proposal and replace with the revised pages. Please add New Page No. G-4A after revised Page No. G-4. Please add New Page No. R-30 after revised Page No. R-29.

On the item sheets the following pay item quantity changes have been made, items deleted and new items added:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
017-4405000000-E-1110	Work Zone Signs (Portable)	597 SF	789 SF
020-4420000000-N-1120	Portable Changeable Message Sign	5 EA	12 EA
023-4480000000-N-1165	TMA	4 EA	6 EA
054-1330000000-E-607	Incidental Milling	NEW ITEM	10,050 SY
055-4847100000-E-1205	Polyurea Pavement Marking Lines (6" Highly Reflective Elements)	NEW ITEM	4,264 lf

The Contractor's bid must include these pay item quantity changes and new pay items. The contract will be prepared accordingly.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag

cc: Mr. Ron Hancock, PE
Mr. Mike Mills PE
Mr. Rodger Rochelle, PE
Mr. R.E. Davenport, PE
Mr. Ken Kennedy, PE
Ms. Jaci Kincaid
Project File (2)

Mr. Ray Arnold, PE
Ms. Theresa Canales, PE
Ms. Marsha Sample
Mr. Mike Gwyn
Ms. Penny Higgins
Ms. Lori Strickland

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 03-07-16

DATE AND TIME OF BID OPENING: **MARCH 15, 2016 AT 2:00 PM**

CONTRACT ID C203782
WBS 46264.3.FS1, 53042.3.1

FEDERAL-AID NO. IMPM-040-3(134)219, NHPIM-0040(10)148
COUNTY ALAMANCE
T.I.P. NO. I-5309, I-5836
MILES 8.658
ROUTE NO. I 40
LOCATION I-40/I-85 FROM EAST OF THE GUILFORD COUNTY LINE TO 0.2 MILES
EAST OF NC-54 IN GRAHAM.

TYPE OF WORK PAVEMENT AND BRIDGE REHABILITATION.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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PROJECT SPECIAL PROVISIONS**GENERAL****CONTRACT TIME AND LIQUIDATED DAMAGES:**

(7-1-95) (Rev. 12-18-07)

108

SPI G10 A

The date of availability for this contract is **April 25, 2016**.

The completion date for this contract is **November 30, 2017**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Two Thousand Dollars (\$ 2,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SPI G14 C

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow **a lane** of traffic on **I-40/I-85 and multi-lane ramps and loops** during the following time restrictions:

DAY AND TIME RESTRICTIONS**(For All Asphalt Rehabilitation Operations)****Monday to Sunday****From 6:00 a.m. to 8:00 p.m.****(For All Concrete Bridge Rehabilitation Operations)****Monday to Friday****From 6:00 a.m. to 8:00 p.m.****and****Saturday and Sunday****From 10:00 a.m. to 8:00 p.m.**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the lane closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the lane closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **One Thousand Two Hundred Fifty Dollars (\$1,250.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SPI G14 C

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow **two lanes** of traffic on **I-40/I-85** during the following time restrictions:

DAY AND TIME RESTRICTIONS

(For All Asphalt Rehabilitation Operations)

Monday to Sunday

From 6:00 a.m. to 10:00 p.m.

(For All Concrete Bridge Rehabilitation Operations)

Monday to Friday

From 6:00 a.m. to 10:00 p.m.

and

Saturday and Sunday

From 10:00 a.m. to 10:00 p.m.

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the lane closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the lane closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **Two Thousand Dollars (\$2,000.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SPI G14 C

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow **three lanes** of traffic on **I-40/I-85** during the following time restrictions:

DAY AND TIME RESTRICTIONS

(For All Asphalt Rehabilitation Operations)

Monday to Sunday

From 6:00 a.m. to 12:00 a.m. (Midnight)

(For All Concrete Bridge Rehabilitation Operations)

Monday to Friday

From 6:00 a.m. to 12:00 a.m. (Midnight)

and

Saturday and Sunday

From 10:00 a.m. to 12:00 a.m. (Midnight)

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the lane closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the lane closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **Two Thousand Five Hundred Dollars (\$2,500.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SPI G14 B

The Contractor shall not narrow or close a lane of traffic on **I-40/I-85**, detain and /or alter the traffic flow on or during holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's Day**, between the hours of **6:00 a.m.** December 31st and **8:00 p.m.** January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until **8:00 p.m.** the following Tuesday.
3. For **Easter**, between the hours of **6:00 a.m.** Thursday and **8:00 p.m.** Monday.
4. For **Memorial Day**, between the hours of **6:00 a.m.** Friday and **8:00 p.m.** Tuesday.
5. For **Independence Day**, between the hours of **6:00 a.m.** the day before Independence Day and **8:00 p.m.** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **6:00 a.m.** the Thursday before Independence Day and **8:00 p.m.** the Tuesday after Independence Day.

6. For **Labor Day**, between the hours of **6:00 a.m.** Friday and **8:00 p.m.** Tuesday.
7. For **Thanksgiving Day**, between the hours of **6:00 a.m.** Tuesday and **8:00 p.m.** Monday.
8. For **Christmas**, between the hours of **6:00 a.m.** the Friday before the week of Christmas Day and **8:00 p.m.** the following Tuesday after the week of Christmas Day.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures are not required during these periods, unless otherwise directed by the Engineer.

When Holiday and Holiday Weekend Lane Closure Restrictions are no longer in effect, then the Day and Time Restrictions shall be in effect.

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated herein and place traffic in the existing traffic pattern.

The liquidated damages are **Two Thousand Five Hundred Dollars (\$2,500.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 5 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SPI G14 D

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for road closures and restoring traffic to the existing traffic pattern. The Contractor shall not close any **I-40/I-85 Single-lane ramp or loop** during the following time restrictions:

DAY AND TIME RESTRICTIONS

**Monday thru Sunday
From 6:00 a.m. to 12:00 a.m. (Midnight)**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for road closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the road closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern

The liquidated damages are **One Thousand Two Hundred Fifty Dollars (\$1,250.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 6 AND LIQUIDATED DAMAGES:

(5-21-13)

108

SP1 G14 I

The Contractor shall complete the work required of installing each new deep cut inductive loop prior to the removal of each existing loop by the milling, patching or resurfacing operations and shall place and maintain traffic on same.

The time of availability for this intermediate contract time is the **day at 12:00 AM (midnight)** that the Contractor elects to begin the work.

The completion time for this intermediate contract time is the **following 6:00 AM** after the time of availability.

The liquidated damages are **Five Hundred Dollars (\$ 500.00)** per hour.

MAJOR CONTRACT ITEMS:

(2-19-02)

104

SP1 G28

The following listed items are the major contract items for this contract (see Article 104-5 of the *2012 Standard Specifications*):

Line #	Description
007 —	Asphalt Concrete Surface Course, Type S9.5D
010 —	Open-Graded Asphalt Friction Course, Type FC-2 Modified

SCHEDULE OF ESTIMATED COMPLETION PROGRESS:

(7-15-08) (Rev. 5-19-15)

108-2

SP1 G58

The Contractor's attention is directed to the Standard Special Provision entitled *Availability of Funds Termination of Contracts* included elsewhere in this proposal. The Department of Transportation's schedule of estimated completion progress for this project as required by that Standard Special Provision is as follows:

2016	(7/01/15 - 6/30/16)	16	% of Total Amount Bid
2017	(7/01/16 - 6/30/17)	69	% of Total Amount Bid
2018	(7/01/17 - 6/30/18)	15	% of Total Amount Bid

The Contractor shall also furnish his own progress schedule in accordance with Article 108-2 of the *2012 Standard Specifications*. Any acceleration of the progress as shown by the Contractor's progress schedule over the progress as shown above shall be subject to the approval of the Engineer.

DISADVANTAGED BUSINESS ENTERPRISE:

(10-16-07)(Rev. 2-16-16)

102-15(J)

SP1 G61

Description

The purpose of this Special Provision is to carry out the U.S. Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with Federal funds. This provision is guided by 49 CFR Part 26.

Definitions

Additional DBE Subcontractors - Any DBE submitted at the time of bid that will not be used to meet the DBE goal. No submittal of a Letter of Intent is required.

Committed DBE Subcontractor - Any DBE submitted at the time of bid that is being used to meet the DBE goal by submission of a Letter of Intent. Or any DBE used as a replacement for a previously committed DBE firm.

Contract Goal Requirement - The approved DBE participation at time of award, but not greater than the advertised contract goal.

DBE Goal - A portion of the total contract, expressed as a percentage, that is to be performed by committed DBE subcontractor(s).

Disadvantaged Business Enterprise (DBE) - A firm certified as a Disadvantaged Business Enterprise through the North Carolina Unified Certification Program.

Goal Confirmation Letter - Written documentation from the Department to the bidder confirming the Contractor's approved, committed DBE participation along with a listing of the committed DBE firms.

PAVEMENT MARKING INSTALLATION REQUIREMENTS:

(2-7-14)

SPD 02-500

All pavement markings shall be installed in accordance with Section 1205 of the *2012 Standard Specifications* and the following: The Contractor shall install two coats of paint pavement markings and beads on all portions of roadway that will be wintered-over.

Measurement and Payment

No payment will be made for installation or removal of pavement markings installed in order to over-winter a portion of the project.

NON-TRACKING HOT APPLIED TACK COAT (Entire Project):

(3-15-16)

605

SPI 6-13C

Revise the *2012 Standard Specifications* as follows:

Page 6-4, SECTION 605 ASPHALT TACK COAT, line 29, after Section 605, add the following:

**SECTION 606
NON-TRACKING ASPHALT TACK COAT**

606-1 DESCRIPTION

Refer to Article 605-1.

Non-tracking tack coat will be required. Notify the Engineer prior to using non-tracking tack coat.

606-2 MATERIALS

Use only the Hot Applied Tack products from the "Non-tracking Asphalt Tack Coat" materials on the NCDOT Approved Product List maintained by the Materials and Tests Unit located at the following website:

<https://connect.ncdot.gov/resources/Materials/MaterialsResources/Approved%20Non-Tracking%20Tack%20Coat%20Products%20for%20NC.pdf>

Do not dilute or mix the non-tracking tack coat with water, solvents, or other materials before application.

606-3 WEATHER LIMITATIONS

Refer to Article 605-3.

606-4 SURFACE PREPARATION

Refer to Article 605-4.

606-5 ACCEPTANCE OF ASPHALT MATERIALS

Refer to Article 605-5.

606-6 APPLICATION EQUIPMENT

Refer to Article 605-6.

606-7 APPLICATION RATES AND TEMPERATURES

Target application rate for hot applied tack products shall be 0.10 gal/sy and adjusted based on existing pavement conditions, milled surface, and manufacturer's recommendations and approved by the Engineer. Application temperatures shall be in accordance with manufacturer's recommendations. Non-tracking asphalt tack coat shall not be overheated.

606-8 APPLICATION OF TACK COAT

Refer to Article 605-8 except on **Page 6-4, Article 605-8**, line 6, replace second paragraph with the following:

If public traffic is being maintained, cover the non-tracking tack coat in the same day's operation or provide continual lane closures until the tack is covered. Due to non-tracking tack requiring heat to activate the adhesive properties, the application of temporary granular material will not be allowed. If extended lane closures are required, applicable liquidated damages will apply. To facilitate safe traffic conditions or for other reasons the Engineer may limit the application of non-tracking tack in advance of the paving operation.

606-9 MEASUREMENT AND PAYMENT

There will be no direct payment for the work covered by this section.

Page 6-26, Article 610-8, line 30, replace "Section 605" with "Sections 605 or 606".

Page 6-42, Article 650-5, line 32, replace "Section 605" with "Sections 605 or 606".

Page 6-44, Article 652-1, line 11, replace "Section 605" with "Sections 605 or 606".

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	1220000000-E	545	INCIDENTAL STONE BASE	963 TON		
0003	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	505,410 SY		
0004	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (2")	63,531 SY		
0005	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (1-1/2" TO 4")	12,500 SY		
0006	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	4,904 TON		
0007	1524200000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	44,808 TON		
0008	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	291 TON		
0009	1577000000-E	620	POLYMER MODIFIED ASPHALT BIN- DER FOR PLANT MIX	3,980 TON		
0010	1663000000-E	650	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED	23,018 TON		
0011	1820000000-E	SP	ASPHALT SURFACE TREATMENT, FOG SEAL	236,538 SY		
0012	1880000000-E	SP	GENERIC PAVING ITEM 4-1/2" PATCHING EXISTING PAVE- MENT	513 TON		
0013	2275000000-E	SP	FLOWABLE FILL	14 CY		
0014	2473000000-N	SP	GENERIC DRAINAGE ITEM REMOVE AND REPLACE CONCRETE APRON	4 EA		
0015	2830000000-N	858	ADJUSTMENT OF MANHOLES	1 EA		
0016	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	496 SF		
0017	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	789 SF		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	32 SF		
0019	4415000000-N	1115	FLASHING ARROW BOARD	6 EA		
0020	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	12 EA		
0021	4430000000-N	1130	DRUMS	250 EA		
0022	4445000000-E	1145	BARRICADES (TYPE III)	40 LF		
0023	4480000000-N	1165	TMA	6 EA		
0024	4516000000-N	1180	SKINNY DRUM	250 EA		
0025	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	220,037 LF		
0026	4690000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	71,769 LF		
0027	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	1,175 LF		
0028	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	514 LF		
0029	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	18,693 LF		
0030	4702000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 120 MILS)	1,566 LF		
0031	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	613 LF		
0032	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	170 EA		
0033	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	314,456 LF		
0034	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	6,500 LF		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	20,159	LF	
0036	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	629	LF	
0037	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	158	EA	
0038	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	5,700	EA	
0039	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0040	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	4	EA	
0041	7420000000-E	1722	2" RISER WITH WEATHERHEAD	1	EA	
0042	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	6,450	LF	
0054	1330000000-E	607	INCIDENTAL MILLING	10,050	SY	
0055	4847100000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", *****) (HIGHLY REFLECTIVE ELEMENTS)	4,264	LF	

STRUCTURE ITEMS

0043	8161000000-E	420	GROOVING BRIDGE FLOORS	99,761	SF	
0044	8559000000-E	SP	CLASS II, SURFACE PREPARATION	13	SY	
0045	8566000000-E	SP	CLASS III, SURFACE PREPARATION	13	SY	
0046	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	
0047	8860000000-N	SP	GENERIC STRUCTURE ITEM VOLUMETRIC MIXER	Lump Sum	L.S.	
0048	8881000000-E	SP	GENERIC STRUCTURE ITEM LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH	488	CY	

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0049	8882000000-E	SP	GENERIC STRUCTURE ITEM CONCRETE FOR DECK REPAIR	4	CF	
0050	8892000000-E	SP	GENERIC STRUCTURE ITEM BRIDGE JOINT DEMOLITION	1,162	SF	
0051	8893000000-E	SP	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK	11,650	SY	
0052	8893000000-E	SP	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD- IFIED CONC OVERLAY - VERY EARLY STRENGTH	11,650	SY	
0053	8893000000-E	SP	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK	11,650	SY	

0841/Mar07/Q1717659.0/D260627400000/E55

Total Amount Of Bid For Entire Project :

PROJECT NO. I-5309, I-5836	SHEET NO. 6	TOTAL NO.
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SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TON	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATABLE) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF						
I-5309	Alamance	1	I-40 EASTBOUND/I-85 NORTHBOUND	FROM E. OF GUILFORD COUNTY LINE TO EAST OF NC 49 (0.795-6.62)	1	4	MD	NO	NO	0.214	48		6,026					677		55	272	171	2,578	11		4		0.50								
							1	4	NO	NO	0.121	56			3,975					447		36	179		2,062											
							1	4	NO	NO	0.158	48			4,449					500		41	200		1,951											
							1	4	NO	NO	0.026	62			946					106		9	43		563											
							1	4	NO	NO	0.014	60			493					55		5	22		127											
							1	4	NO	NO	0.031	60			1,091					123		10	49		290											
							1	4	NO	NO	0.039	60			1,373					154		13	62		364											
							1	4	NO	NO	0.034	60			1,197					134		11	54		300											
							1	4	NO	NO	0.062	54			1,964					221		18	88		640											
							1	4	NO	NO	0.037	48			1,042					117		10	47		450											
							1	4	NO	NO	0.063	63			2,329					261		21	105		1,240											
							1	4	NO	NO	0.007	61			251					28		2	11		66											
							1	4	NO	NO	0.106	60			3,731					419		34	168		1,056											
							1	4	NO	NO	0.058	54			1,837					206		17	83		648											
							1	4	NO	NO	0.036	48			1,014					114		9	46		443											
							2	4	NO	NO	0.257	48			7,237			2,400		610		55	326		3,164											
							2	4	NO	NO	0.109	58			3,709					312		28	167		1,658											
							2	4	NO	NO	0.291	48			8,195					690		62	369		3,586											
							2	4	NO	NO	0.082	63			3,031					255		23	137		1,107											
							2	4	NO	NO	0.119	60			4,189					353		32	189		1,155											
							2	4	NO	NO	0.069	54			2,186					184		16	98		804											
							2	4	NO	NO	1.084	48			30,525					2,571		230	1,375		13,351											
							2	4	NO	NO	0.108	56			3,548					299		27	160		1,995											
							2	4	NO	NO	0.093	48			2,619					221		20	118		1,143											
							2	4	NO	NO	0.03	48			481					406		36	217		2,112											
							2	4	NO	NO	0.059	62			2,146			12,500		181		16	97		896											
							2	4	NO	NO	0.134	60			4,717					397		36	212		1,183											
							2	4	NO	NO	0.059	54			1,869					157		14	84		637											
							2	4	NO	NO	1.34	48			37,734					3,178		285	1,700		16,513											
							2	4	NO	NO	0.186	54			5,893					496		44	265		4,474											
					2	4	NO	NO	0.104	48			2,929					247		22	132		1,276													
					2	4	NO	NO	0.042	62			1,528					129		12	69		759													
					2	4	NO	NO	0.034	60			1,014					114		9	46		443													
					2	4	NO	NO	0.148	60			5,210					439		39	235		1,481													
					2	4	NO	NO	0.048	54			1,521					128		11	69		540													
					2	4	NO	NO	0.066	62			2,401					202		18	108		1,326													
					2	4	NO	NO	0.092	60			3,238					273		24	146		864													
					2	4	NO	NO	0.074	54			2,344					197		18	106		804													
					2	4	NO	NO	0.011	48			310					26		2	14		136													
										5.816			31,718			14,894	12,500	2,400		15,513	1,361	7,822	171	73,742	11		4		0.50							
I-5309	Alamance	2	1 - OFF RAMP TO UNIVERSITY DRIVE	FROM I-40EB/I-85NB TO UNIVERSITY DRIVE	3	2	NO	NO	0.162	16	64		1,521				129		8			855										650				
							3	2	NO	NO	0.036	27			570				48		3			84												
							3	2	NO	NO	0.019	43			479				40		2			146												
							3	2	NO	NO	0.04	48			1,126				95		6			305												
							3	2	NO	NO	0.01	48			282				24		1			48												
							3	2	NO	NO	0.016	73			685				58		3															
										0.283		64	4,663					394		23			1,438										650			
I-5309	Alamance	3	1 - ON RAMP SB UNIVERSITY DRIVE	FROM SB UNIVERSITY DRIVE TO I-40EB/I-85NB	3	2	NO	NO	0.013	18	13		137				12		1			50														
							3	2	NO	NO	0.167	17			1,666				141		8			500												
										0.18		13	1,803					153		9		550														
I-5309	Alamance	4	1 - ON RAMP FROM NB UNIVERSITY	FROM NB UNIVERSITY TO I-40EB/I-85NB	3	2	NO	NO	0.002	98	33		115				10		1																	
							3	2	NO	NO	0.013	53			404				34		2															
							3	2	NO	NO	0.057	16			535				45		3			300												
							3	2	NO	NO	0.019	16			178				15		1			100												
							3	2	NO	NO																										

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5309, I-5836	7	

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TON	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATABLE) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF						
I-5309	Alamance	12	1 - I-40 WESTBOUND/I-85 SOUTHBOUND	FROM EAST OF NC 49 TO EAST OF GUILFORD COUNTY LINE (MM 9.42 - 15.27)	2	4		NO	NO	0.153	48							363		33	194	342	1,890													
					2	4		NO	NO	0.126	56								4,140		31	186			2,845											
					2	4		NO	NO	0.154	48								4,337		33	195			1,902											
					2	4		NO	NO	0.034	48																									
					2	4		NO	NO	0.098	48									2,760		21	124			1,213										
					2	4		NO	NO	0.046	62									1,673		13	75			897										
					2	4		NO	NO	0.112	60									3,942		30	178			1,248										
					2	4		NO	NO	0.077	54									2,439		18	110			909										
					2	4		NO	NO	1.348	48									37,960		287	1,710			16,609										
					2	4		NO	NO	0.121	48									3,407		26	154			1,491										
					2	4		NO	NO	0.205	57									6,855		71	309			3,978										
					2	4		NO	NO	0.093	48									2,619		20	118			1,146										
					2	4		NO	NO	0.03	48																									
					2	4		NO	NO	0.105	48									2,957		22	133			1,293										
					2	4		NO	NO	0.046	63									1,700		13	77			824										
					2	4		NO	NO	0.15	60									5,280		40	238			1,496										
					2	4		NO	NO	0.07	54									2,218		17	100			781										
					2	4		NO	NO	0.917	48						2,400			25,823		195	1,164			11,303										
					2	4		NO	NO	0.119	48									3,351		25	151			1,461										
					2	4		NO	NO	0.113	62									4,110		31	185			2,020										
					2	4		NO	NO	0.295	48									8,307		63	374			3,628										
					2	4		NO	NO	0.046	63									1,700		13	77			789										
					2	4		NO	NO	0.162	60									5,702		43	257			1,997										
					2	4		NO	NO	0.076	54									2,408		18	108			936										
					2	4		NO	NO	0.119	48									3,351		25	151			1,461										
					1	4		NO	NO	0.156	48				4,393					494		40	198			1,833										
					1	4		NO	NO	0.015	48				422					47		4	19			237										
					1	4		NO	NO	0.107	56				3,515					395		32	158			2,189										
					1	4		NO	NO	0.152	48				4,280					481		39	193			1,874										
					1	4		NO	NO	0.034	63				1,257					141		11	57			415										
					1	4		NO	NO	0.11	60				3,872					435		35	174			907										
					1	4		NO	NO	0.056	54				1,774					199		16	80			572										
			1	4		NO	NO	0.08	48				2,253					253		21	102			980												
			1	4		NO	NO	0.052	62				1,891					212		17	85			877												
			1	4		NO	NO	0.129	60				4,541					510		42	205			1,212												
			1	4		NO	NO	0.051	56				1,676					69		15	75			417												
			1	4		NO	NO	0.021	50				616					85		7	34			331												
			1	4		NO	NO	0.027	48				760					63		5	25			254												
			1	4		NO	NO	0.02	48				563					63		5	25			254												
			TOTAL FOR MAP NO. 12							5.825			31,813	141,348		2,400		15,474		1,378	7,801	342		74,420												
I-5309	Alamance	13	1 - OFF RAMP TO NC 49	FROM I-40WB/I-85SB TO NC 49	3	2		NO	NO	0.018	18	56						16		1													650			
					3	2		NO	NO	0.018	21									19		1														
					3	2		NO	NO	0.036	32									57		3														
					3	2		NO	NO	0.015	42									31		2														
					3	2		NO	NO	0.021	45									47		3														
					3	2		NO	NO	0.008	85									34		2														
					TOTAL FOR MAP NO. 13							0.116		56						2,411		204				548									650	
I-5309	Alamance	14	1 - ON RAMP SB NC 49	FROM NC 49 TO I-40WB/I-85SB	3	2		NO	NO	0.003	35	68						5		12																
					3	2		NO	NO	0.016	22									17		1														
					3	2		NO	NO	0.085	16									798		4														
					3	2		NO	NO	0.012	16									113		1														
					3	2		NO	NO	0.003	15									26		2														
			TOTAL FOR MAP NO. 14							0.119		68						1,206		102				532												
I-5309	Alamance	15	1 - OFF RAMP TO NC 62	FROM I-40WB/I-85SB TO NC 62	3	2		NO	NO	0.028	17	4						279		1																
					3	2		NO	NO	0.021	28									3																

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5309, I-5836	8	

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TON	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATION) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF		
I-5836	Alamance	22	1- I40 EASTBOUND/I-85 NORTHBOUND	I40 EASTBOUND/I-85 NORTHBOUND		2	4	NO	NO	0.837	48			23,570				1,985		178	1,062		10,306	3						0.50		
						2	4	NO	NO	0.202	48			5,688				479		43	256		2,492									
						2	4	NO	NO	0.068	57			2,274				191		17	102		955									
						2	4	NO	NO	0.042	66			1,626				137		12	73		937									
						2	4	NO	NO	0.133	48			3,745				315		28	169		1,633									
						2	4	NO	NO	0.044	48																					
						2	4	NO	NO	0.16	48			4,506				379		34	203		1,972									
						2	4	NO	NO	0.042	62			1,528				129		12	69		672									
						2	4	NO	NO	0.071	60			2,499				210		19	113		729									
						2	4	NO	NO	0.3	60			10,560	2,625			889		80	476		3,698									
						2	4	NO	NO	0.096	60			3,379				284		25	152		1,291									
						2	4	NO	NO	0.098	62			3,565				300		27	161		1,745									
						2	4	NO	NO	0.161	48			4,534				382		34	204		1,983									
						2	4	NO	NO	0.038	48																					
						2	4	NO	NO	0.077	48			2,168				183		16	98		945									
						2	4	NO	NO	0.055	64			2,065				174		16	93		1,063									
						2	4	NO	NO	0.159	60			5,597				471		42	252		1,400									
						2	4	NO	NO	0.12	54			3,802				320		29	171		1,164									
										2.703				81,106		2,625		6,828		612	3,654		32,985		3					0.50		
I-5836	Alamance	23	1 - OFF RAMP TO NC 87	FROM I-40EB/I-85NB TO NC 87		3	2	NO	NO	0.081	18	33		855			72		4				382									600
						3	2	NO	NO	0.055	25			807				68		4			193									
						3	2	NO	NO	0.018	84			887				75		4												
										0.154		33		2,549				215		12			575									600
I-5836	Alamance	24	1 - ON RAMP FROM NC 87	FROM NC 87 TO I-40EB/I-85NB		3	2	NO	NO	0.021	86	34		1,060				89		5												
						3	2	NO	NO	0.079	20			927				78		5			373									
						3	2	NO	NO	0.08	16			751				64		4			373									
										0.18		34		2,738				231		14			746									
I-5836	Alamance	25	1 - OFF RAMP TO NC 54	FROM I-40EB/I-85NB TO NC 54		3	2	NO	NO	0.072	16	59		676				57		3												425
						3	2	NO	NO	0.073	20			857				72		4			342									
						3	2	NO	NO	0.034	26			519				44		3			80									
						3	2	NO	NO	0.008	39			183				15		1												
										0.187		59		2,235				188		11			760									425
I-5836	Alamance	26	1 - ON RAMP FROM NC 54	FROM NC 54 TO I-40EB/I-85NB		3	2	NO	NO	0.012	49	4		345				29		2			36									
						3	2	NO	NO	0.073	17			728				62		4			513									
										0.085		4		1,073				91		6			549									
I-5836	Alamance	27	1 - I-40 WESTBOUND/I-85 SOUTHBOUND	FROM .2 MILES EAST OF NC 54 TO .2 MILES EAST OF NC 49 (6.72-9.42)		2	4	NO	NO	0.153	48	133		4,309				363		33	194		1,890									
						2	4	NO	NO	0.05	48			1,408				119		11	63		618									
						2	4	NO	NO	0.045	56			1,478				124		11	67		548									
						2	4	NO	NO	0.066	65			2,517				212		19	113		1,244									
						2	4	NO	NO	0.102	48			2,872				242		22	129		1,200									
						2	4	NO	NO	0.036	48																					
						2	4	NO	NO	0.127	48			3,576				301		27	161		1,489									
						2	4	NO	NO	0.018	68			718				60		5	32		254									
						2	4	NO	NO	0.063	64			2,365				199		18	107		933									
						2	4	NO	NO	0.234	60			8,237				693		62	371		2,882									
						2	4	NO	NO	0.168	60			5,914				498		45	266		2,070									
						2	4	NO	NO	0.115	63			4,250	2,625			358		32	191		2,196									
						2	4	NO	NO	0.158	60			5,562				468		42	251		1,941									
						2	4	NO	NO	0.038	69			1,538				129		12	69		595									
						2	4	NO	NO	0.041	60																					
						2	4	NO	NO	0.155	54			4,910				413		37	221		2,554									
						2	4	NO	NO	0.131	64			4,919				414		37	222		2,415									
						2	4	NO	NO	0.115	56			3,778				318		29	170		1,421									
						2	4	NO	NO	0.878	48			24,725				2,082		187	1,114		10,820									
										2.693		133		83,076		2,625		6,993		629	3,741		35,070									
I-5836	Alamance	28	1 - OFF RAMP TO NC 54	FROM I-40WB/I-85SB TO NC 54		3	2	NO	NO	0.011	18																					

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW ONE TRAVEL LANE IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL ASPHALT REHABILITATION OPERATIONS)	
I-40/I-85 AND MULTI-LANE RAMPS AND LOOPS	MONDAY TO SUNDAY FROM 6:00 AM TO 8:00 PM

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)	
I-40/I-85	MONDAY THRU FRIDAY FROM 6:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY FROM 10:00 A.M. TO 8:00 P.M.

B) DO NOT CLOSE OR NARROW TWO TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL ASPHALT REHABILITATION OPERATIONS)	
I-40/I-85	MONDAY TO SUNDAY 6:00 AM TO 10:00 PM

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)	
I-40/I-85	MONDAY THRU FRIDAY FROM 6:00 A.M. TO 10:00 P.M. SATURDAY AND SUNDAY FROM 10:00 A.M. TO 10:00 P.M.

C) DO NOT CLOSE OR NARROW THREE TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL ASPHALT REHABILITATION OPERATIONS)	
I-40/I-85	MONDAY TO SUNDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)	
I-40/I-85	MONDAY THRU FRIDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT) SATURDAY AND SUNDAY FROM 10:00 A.M. TO 12:00 A.M. (MIDNIGHT)

D) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME	HOLIDAY
I-40/I-85	
1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.	
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.	
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.	
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.	

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

E) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40/I-85 RAMPS AND LOOPS	MONDAY TO SUNDAY 6:00 AM TO 12:00 MIDNIGHT

LANE AND SHOULDER CLOSURE REQUIREMENTS

F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 1000 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

M) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

P) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES), AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

U) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

V) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

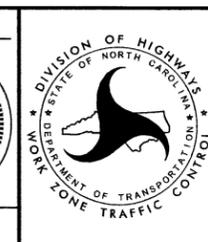
MISCELLANEOUS

Y) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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APPROVED: *Steve Miller*
DATE: 3/3/2016
SEAL



TRANSPORTATION OPERATIONS PLAN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MANAGEMENT STRATEGIES

- MAINTAIN I-40/85 TRAFFIC THROUGH LANE CLOSURES
- SINGLE LANE RAMPS AND LOOPS MAY BE CLOSED AND TRAFFIC DETOURED OFF SITE
- PROVIDE THIRTY (30) CALENDAR DAYS NOTICE TO THE ENGINEER, ALAMANCE COUNTY EMERGENCY SERVICES, AND ALAMANCE COUNTY SCHOOL OFFICIALS PRIOR TO ROAD CLOSURE

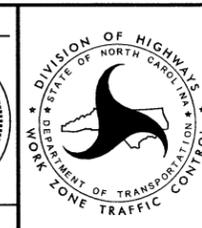
PHASING

- STEP 1: USING RSD 1101.01 SHEET 1 OF 3, PLACE ADVANCE WARNING SIGNS ALONG I-40/85 AND RAMPS WHERE NECESSARY.
- STEP 2: NOTE: THE CONTRACTOR MUST COMPLETE THE BRIDGE REHABILITATION IN EACH DIRECTION BEFORE PROCEEDING WITH THE PAVEMENT REHABILITATION IN THAT DIRECTION. USING RSD 1101.02 SHEETS 4, 8, 9, AND 10 OF 15, COMPLETE PAVEMENT REHABILITATION OPERATIONS FOR THE ESTABLISHED WORK AREA, PLACING TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS NECESSARY. PLACE FINAL PAVEMENT MARKINGS ON THE FINAL SURFACE LAYER. INTERCHANGE RAMPS AND LOOPS MAY BE CLOSED USING RSD 1101.03 SHEETS 1 AND 2 OF 9. SEE TMP-2 THROUGH TMP-19 FOR ADDITIONAL CLOSURE SIGNS AND THE OFF SITE DETOUR FOR EACH RAMP. USE RSD 1101.02 SHEET 4 OF 15 TO CLOSE AUXILLARY LANES WHEN THE DOWNSTREAM RAMP IS CLOSED. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL NOT CLOSE ANY RAMP OR LANE OF A RAMP THAT IS INCLUDED AS PART OF AN ACTIVE DETOUR.
- STEP 3: REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

3/3/2016 6:21:00 PM G:\Traffic\TRIS\022\00 I-5309 & I-5836 TMP\TMP\I-5309_5836 TMP-1C.dgn jwiles



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