



PAT McCrory
Governor

NICHOLAS J. TENNYSON
Secretary

June 13, 2016

Addendum No. 1

RE: Contract # C203843
WBS # 53029.3.1
F. A. # NHPIM-0085(3)117
Guilford, Randolph Counties (I-5738, I-5789, I-5821)
I-85 From I-85 Business To Main Street In Archdale

June 21, 2016 Letting

To Whom It May Concern:

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

The following revision has been made to the plans:

Sheet No.	Revisions
3	Notes were added/revised concerning the placement of joints
TMP-1B	Revised time restrictions in note A) and B)

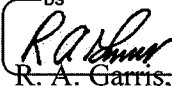
The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 06-13-16"
G-1	Revised lane closure restriction times within the project special provision entitled "Intermediate Contract Time Number 1 and Liquidated Damages"
G-2 and G-3	Revised the holiday lane closure restriction times to agree with the changes noted above within the project special provision entitled "Intermediate Contract Time Number 2 and Liquidated Damages"
R-13	Section "Disposal Of Residual Slurry" was revised within the project special provision entitled "Diamond Grinding Concrete Pavement"
R-14	One paragraph added under "Measurement and Payment"
New R-58	Added the project special provision entitled "Pavement Marking Installation Requirements"



Please void the above listed existing pages in your proposal and replace with the revised pages. Please add the new pages after the appropriate last existing page. The contract will be prepared accordingly.

Sincerely,

^{DS}

R. A. Garris, PE
Contract Officer

RAG/jag

cc: Mr. Lamar Sylvester, 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
Mr. Mitchell Dixon
Ms. Penny Higgins
Ms. Lori Strickland

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 06-13-16

DATE AND TIME OF BID OPENING: **JUNE 21, 2016 AT 2:00 PM**

CONTRACT ID C203843
WBS 53029.3.1

FEDERAL-AID NO. NHPIM-0085(3)117
COUNTY GUILFORD, RANDOLPH
T.I.P. NO. I-5738, I-5789, I-5821
MILES 7.400
ROUTE NO. I 85
LOCATION I-85 FROM I-85 BUSINESS TO MAIN STREET IN ARCHDALE.

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 PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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

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

108

SP1 G10 A

The date of availability for this contract is **August 1, 2016**.

The completion date for this contract is **October 1, 2018**.

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

SP1 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-85 Business NB, I-85, and multi-lane ramps** during the following time restrictions:

DAY AND TIME RESTRICTIONS**Monday thru Thursday****From 7:00 a.m. to 7:00 p.m.****Friday****From 7:00 a.m. to 9:00 p.m.****Saturday****From 9:00 a.m. to 9:00 p.m.****Sunday****From 10:00 a.m. to 9:00 p.m.****and****Kivett Drive (SR 1113)****Monday thru Sunday****7:00 a.m. to 9:00 a.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 and Fifty Dollars (\$1,250.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SP1 G14 B

The Contractor shall not narrow or close a lane of traffic on **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 **7:00 a.m.** December 31st and **7:00 p.m.** January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until **7:00 p.m.** the following Tuesday.
3. For **Easter**, between the hours of **7:00 a.m.** Thursday and **7:00 p.m.** Monday.
4. For **Memorial Day**, between the hours of **7:00 a.m.** Friday and **7:00 p.m.** Tuesday.
5. For **Independence Day**, between the hours of **7:00 a.m.** the day before Independence Day and **7:00 p.m.** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **7:00 a.m.** the Thursday before Independence Day and **7:00 p.m.** the Tuesday after Independence Day.

6. For **Labor Day**, between the hours of **7:00 a.m.** Friday and **7:00 p.m.** Tuesday.
7. For **Thanksgiving Day**, between the hours of **7:00 a.m.** Tuesday and **7:00 p.m.** Monday.
8. For **Christmas**, between the hours of **7:00 a.m.** the Friday before the week of Christmas Day and **7:00 p.m.** the following Tuesday after the week of Christmas Day.
9. For the City of High Point Furniture market, between the hours of **7:00 a.m.** the Monday that the market begins and **7:00 p.m.** the Friday that the market ends.

10. For any **NASCAR Race at the Charlotte Motor Speedway**, between the hours of **7:00 a.m.** the Wednesday before the first track event and **7:00 p.m.** the day after the last track event.
11. For the **Wyndham Golf Tournament**, between the hours of **7:00 a.m.** the Friday before the week of the Tournament and **7:00 p.m.** the following Monday after the week of the Tournament.

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

INTERMEDIATE CONTRACT TIME NUMBER 3 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-85 Business SB and I-85 single lane ramps and loops** 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 **Five Hundred Dollars (\$500.00)** per **15** minute time period.

Disposal of Residual Slurry

Diamond grinding slurry disposal shall be in accordance with the Statewide Permit for Land Application of Diamond Grinding Slurry (DGS), Permit No. WQ0035749 dated June 3, 2014. Submit a slurry disposal plan to the Engineer detailing method of handling and disposing of slurry from the diamond grinding operation a minimum of 60 days prior to beginning the diamond grinding operation. Engineer shall review the slurry disposal plan. Plan must be accepted prior to beginning the diamond grinding operation.

Disposal options are:

- (A) Land apply slurry directly from diamond grinding machine within the DOT right-of-way in the median, shoulders and slopes.
- (B) Collect, contain, haul, and land apply slurry within DOT right-of-way designated areas as directed by the Engineer and a representative from the Roadside Environmental Unit. Contractor shall disperse slurry through an operation that spreads slurry within allowable agronomic rates in an interchange or designated area.

If the above options for disposal of slurry do not qualify as acceptable methods as determined by the Department, then the Contractor will be compensated under Article 104-7 for any other disposal methods required by the Department.

To prevent the migration of any direct discharge from the diamond grinding machine or land applied DGS from entering a drainage inlet or structure, the contractor shall install wattles and silt fence at the direction of the Engineer. These wattles shall be installed in accordance with the "Wattles" special provision found elsewhere in this proposal. Silt Fence shall be installed in accordance with Section 1605 of the NCDOT *2012 Standard Specifications*.

For more detailed information, see the Environmental Permits and Guidelines section under Environmental resources on the NC Connect website for the DG permit and guidelines at the following link. (NCID access required.)

<https://connect.ncdot.gov/resources/Environmental/Environmental%20Permits%20and%20Guidelines/Forms/AllItems.aspx>

Measurement and Payment

The quantity of Diamond Grinding PCC Pavement to be paid for at the contract unit price will be the actual number of square yards of pavement diamond ground in accordance with the requirements of this provision. In measuring this quantity, the length will be the actual length diamond ground measured along the pavement surface. The width will be the width required by the plans or directed, measured along the pavement surface. No separate payment will be made for any overlapping.

Payment is full compensation for the work and includes but is not limited to grinding, disposal of slurry, furnishing all materials, equipment, labor and all incidentals necessary to complete the work satisfactorily.

Payment for erosion control devices will be at the Line Item cost for the various items included as contained elsewhere in this proposal.

Payment will be made under:

Pay Item	Pay Unit
Diamond Grinding PCC Pavement	Square Yard

REPAIR OF JOINTED CONCRETE PAVEMENT SLABS:

(4-15-08) (Rev. 1-19-16)

SPI 7-08

Description:

The work covered by this provision consists of the removal and satisfactory disposal of the existing damaged jointed concrete pavement slabs, furnishing and placing new jointed concrete pavement slabs as shown in the plans or as directed by the Engineer.

Materials:

Refer to Divisions 6, 7, and 10 of the *Standard Specifications*.

Item	Section
Portland Cement Concrete	1000
Curing Agents	1026
Water	1024-4
Select Material, Class IV	1016
Dowels and Tie Bars	1070-6
Geotextile for Soil Stabilization	270

Use Select Material, Class IV. If Select Material, Class IV does not meet the requirements of Article 1010-2 of the *Standard Specifications*, the Engineer, at his discretion, may consider the material reasonably acceptable in accordance with Article 105-3 of the *Standard Specifications*.

PAVEMENT MARKING INSTALLATION REQUIREMENTS:

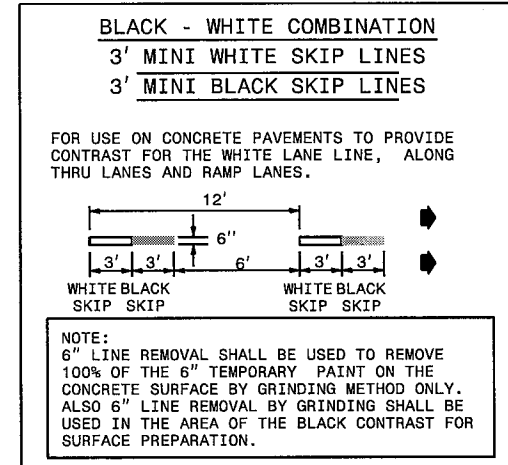
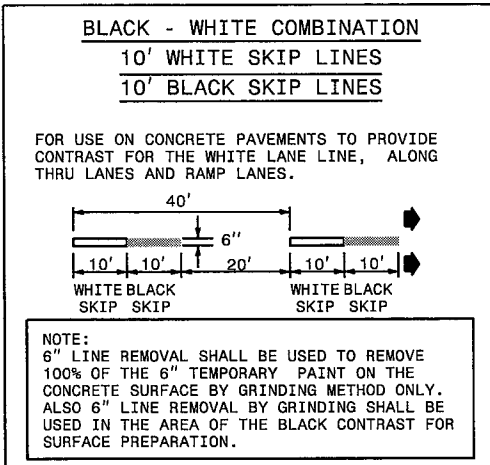
(2-7-14)

SPD 02-700

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.

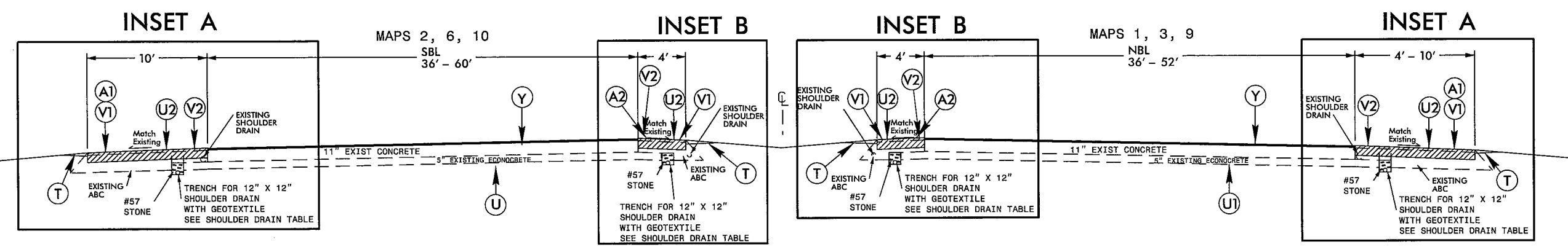
Measurement and Payment

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



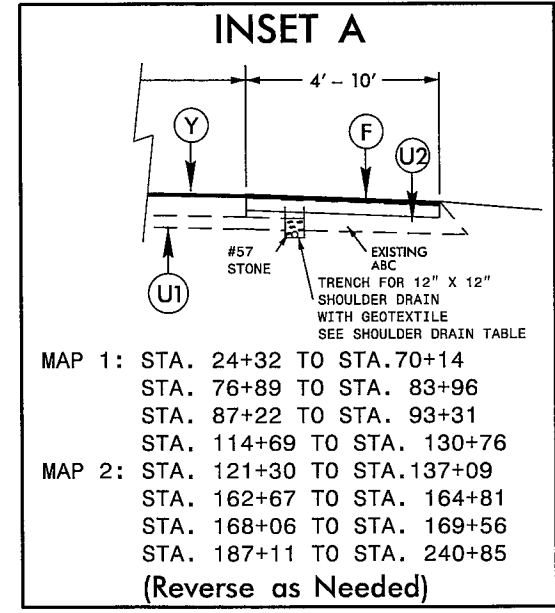
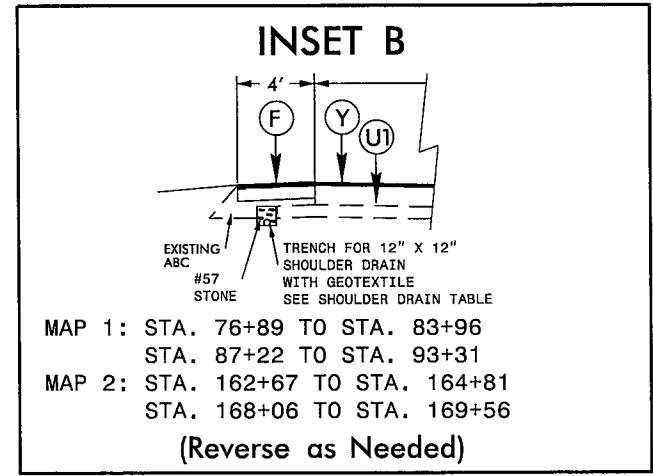
- NOTES:
1. SHOULDER DRAIN SHALL BE INSTALLED PRIOR TO CONSTRUCTING THE PROPOSED 4' PCCP SHOULDER OR 10' RCC SHOULDER.
 2. CONCRETE REPAIRS SHALL BE COMPLETED ADJACENT TO THE SHOULDER PRIOR TO CONSTRUCTING THE PROPOSED 4' PCCP SHOULDER OR 10' RCC SHOULDER.
 3. CONCRETE REPAIRS & PROPOSED SHOULDERS SHALL BE COMPLETE PRIOR TO DIAMOND GRINDING.
 4. LONGITUDINAL JOINTS IN EXISTING CONCRETE PAVEMENT SHALL BE SAWED & SEALED IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS. PLEASE NOTE, LONGITUDINAL JOINTS IN OLD PAVEMENT WERE NOT SAWED & SEALED.
 5. TIE BARS SHALL BE INSTALLED IN LOCATIONS WHERE PCCP SHOULDER IS PLACED IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.

6. TIE BARS SHALL NOT BE INSTALLED AT LOCATIONS WHERE ROLLER COMPACTED CONCRETE SHOULDER IS PLACED.
7. TRANSVERSE JOINTS IN ROLLER COMPACTED CONCRETE SHOULDER SHALL MATCH TRANSVERSE JOINTS IN EXISTING CONCRETE PAVEMENT. IF TRANSVERSE JOINTS ARE MORE THAN 20' APART, PLACE AN ADDITIONAL TRANSVERSE JOINT MIDWAY OF SLAB.
8. TRANSVERSE JOINTS IN PORTLAND CEMENT CONCRETE PAVED SHOULDER SHALL MATCH TRANSVERSE JOINTS IN EXISTING CONCRETE PAVEMENT. TWO ADDITIONAL JOINTS SHALL BE SPACED EQUALLY BETWEEN THE EXISTING JOINTS.
9. PRIOR TO PLACING FINAL PAVEMENT MARKING MATERIAL ON CONCRETE SURFACES THAT ARE DIAMOND GROUND, THE CONTRACTOR SHALL USE AN ACCEPTABLE METHOD TO GRIND RIDGES SMOOTH ONLY WHERE PAVEMENT MARKINGS WILL BE INSTALLED.



TO BE USED ON MAPS 2, 6, 10
 MAP 2: STA. 7+81 TO STA. 10+00 (Bridge)
 STA. 10+00 TO STA. 79+54
 STA. 79+54 TO STA. 83+19 (Bridge)
 STA. 83+19 TO STA. 164+81
 STA. 164+81 TO STA. 168+06 (Bridge)
 STA. 168+06 TO STA. 242+16

TO BE USED ON MAPS 1, 3, 9
 MAP 1: STA. 10+00 TO STA. 83+96
 STA. 83+96 TO STA. 87+22 (Bridge)
 STA. 87+22 TO STA. 168+11
 STA. 168+11 TO STA. 171+11 (Bridge)
 STA. 171+11 TO STA. 244+74
 STA. 244+74 TO STA. 246+97 (Bridge)



PAVEMENT SCHEDULE	
A1	8" ROLLED COMPACTED CONCRETE (RCC).
A2	8" PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E	PROP. APPROX. 6 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 741 LBS. PER SQ. YD. IN ONE LIFT
F	PROPOSED FOG SEAL TO BE APPLIED TO THE EXISTING ASPHALT SHOULDER
R	EXISTING CONCRETE STRUCTURE
T	SHOULDER RECONSTRUCTION
U1	EXISTING TRAVELWAY
U2	EXISTING PAVED SHOULDER.
V1	8" TRENCHING
V2	MILLED RUMBLE STRIP
V3	1 1/2" MILLING
Y	PROPOSED DIAMOND GRINDING

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GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
I-5738/I-5789/I-5821	TMP-1B

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 TRAVEL LANE AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMP AND LOOPS	MONDAY THROUGH THURSDAY FROM 7:00 AM TO 7:00 PM
I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMP AND LOOPS	FRIDAY FROM 7:00 AM TO 9:00 PM
I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMP AND LOOPS	SATURDAY FROM 9:00 AM TO 9:00 PM
I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMP AND LOOPS	SUNDAY FROM 10:00 AM TO 9:00 PM
KIVETT DRIVE (SR 1113)	MONDAY THROUGH SUNDAY 7:00 AM TO 9:00 AM

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

ROAD NAME	HOLIDAY
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 7:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR THE CITY OF HIGH POINT FURNITURE MARKET, BETWEEN THE HOURS OF 7:00 A.M. THE MONDAY THAT THE MARKET BEGINS AND 7:00 P.M. THE FRIDAY THAT THE MARKET ENDS.
10. FOR ANY NASCAR RACE AT THE CHARLOTTE MOTOR SPEEDWAY, BETWEEN THE HOURS OF 7:00 A.M. THE WEDNESDAY BEFORE THE FIRST TRACK EVENT AND 7:00 P.M. THE DAY AFTER THE LAST TRACK EVENT.
11. FOR THE WYNDHAM GOLF TOURNAMENT, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF THE TOURNAMENT AND 7:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF THE TOURNAMENT.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 BUSINESS SB AND I-85 SINGLE LANE RAMP AND LOOPS	MONDAY TO SUNDAY 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) 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.
- E) 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.
- F) 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.
- G) 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.
- H) 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

- I) 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.
- J) 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

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

SIGNING

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

M) 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.

N) 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.

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

TRAFFIC CONTROL DEVICES

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

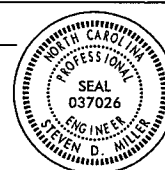
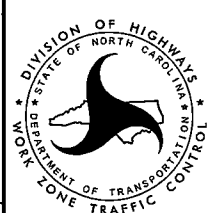
PAVEMENT MARKINGS AND MARKERS

- S) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING PAINT | MARKER |
|-----------|---------------|--------|
| ALL ROADS | | NONE |
- T) 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.
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

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

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<p style="font-size: 2em; font-weight: bold; margin: 0;">SEPI</p> <p style="font-size: small; margin: 0;">ENGINEERING & CONSTRUCTION</p> <p style="font-size: x-small; margin: 0;">1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197</p>	<p style="font-size: x-small;">APPROVED: <i>Steven Miller</i></p> <p style="font-size: x-small;">DATE: 6/13/2016</p> <p style="text-align: center; font-size: small;">SEAL</p> <div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<h1 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h1> <p style="font-size: x-small; margin-top: 10px;">DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>
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