



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

March 10, 2015

Addendum No. 1

RE: Contract ID C203534

WBS # 38688.3.GVS6BB

F. A. # IMS-085-4(117)224

Warren County (I-0914BB) (Proposal #2)

I-85 From SR-1237 (Manson Road) To The Virginia State Line

March 17, 2015 Letting

To Whom It May Concern:

The Contractor's is hereby notified that preliminary information on the location of concrete slabs to be repaired will be posted on the web with the other information on this project. This information is not guaranteed, is for information purposes only and will not be part of the contract.

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

The following revisions have been made to the Roadway plans:

Sheet No.	Revisions
TMP-3	Revised the first note in Phase 1. Revised the steps required to be completed in the first ICT in Phase 1. Revised the wording in Step 6 of Phase 1.
TMP-3B	Revised the wording in Phase IV, Step 1

Please void Sheet Nos. TMP-3 and TMP-3B in your plans and staple the revised Sheet Nos. TMP-3 and TMP-3B thereto.

The following revisions have been made to the proposal:

The proposal cover sheet has been revised to add the note "Includes Addendum No. 1 dated March 10, 2015". Please void your proposal cover sheet and staple the revised proposal cover sheet thereto.

On Page No. G-4 the project special provision entitled "Intermediate Contract Time Number 4 And Liquidated Damages" has been revised. Please void Page No. G-4 in your proposal and staple the revised Page No. G-4 thereto.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900
FAX: 919-250-4119

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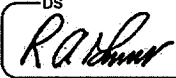
LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

On Page No. G-11an additional parcel has been added to the list within the project special provision entitled "Delay In Right Of Entry". Please void Page No. G-11 in your proposal and staple the revised Page No. G-11 thereto.

On Page No. ST-26 the first three paragraphs of the project special provision entitled "Construction, Maintenance and Removal Of Temporary Structure At Station 197+54.33-L-SBL" have been revised. Please void Page No. ST-26 in your proposal and staple the revised Page No. ST-26 thereto.

The contract will be prepared accordingly.

Sincerely,


R. A. Garris, PE
Contract Officer

RAG/jag

Attachments

cc: Mr. Ron Hancock, PE
Mr. Joey Hopkins, PE
Ms. D. M. Barbour, PE
Mr. Rodger Rochelle, PE
Mr. Tom Childrey
Mr. R.E. Davenport, PE
Ms. Lori Strickland
Project File (2)

Mr. Ray Arnold, PE
Ms. Terry Canales, PE
Mr. Ronnie Higgins
Mr. Mike Gwyn
Ms. Marsha Sample
Ms. Jaci Kincaid
Ms. Penny Higgins

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

PROPOSAL

Includes Addendum No.1 dated March 10, 2015

DATE AND TIME OF BID OPENING: **MARCH 17, 2015 AT 2:00 PM**

CONTRACT ID C203534
WBS 38688.3.GVS6BB

FEDERAL-AID NO. IMS-085-4(117)224
COUNTY WARREN
T.I.P. NO. I-0914BB
MILES 9.412
ROUTE NO. I 85
LOCATION I-85 FROM SR-1237 (MANSON RD) TO THE VIRGINIA STATE LINE.

TYPE OF WORK GRADING, DRAINAGE, PAVING, AND STRUCTURES.

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

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 10-15-13)

108

SPI G14 E

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 **-L- (I-85), including ramps and loops**, during the following time restrictions:

DAY AND TIME RESTRICTIONS

**Monday through Sunday
from 5:00AM to 12:00AM (Midnight)**

The maximum allowable time for any structure activity is **30 minutes for I-85, including ramps and loops**. The Contractor shall reopen the travel lanes to traffic until any resulting traffic queue is depleted.

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the 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 **Two Thousand Five Hundred Dollars (\$2,500.00)** per 15 minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase I, Steps 2 through 4** as shown on Sheet **TMP- 3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time will is **April 27, 2015**.

The completion date for this intermediate contract time is **November 15, 2015**.

The liquidated damages are **Ten Thousand Dollars (\$10,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 5 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase I, Step 7** as shown on Sheet **TMP- 3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

DELAY IN RIGHT OF ENTRY:

(7-1-95) (Rev. 7-15-14)

108

SP1 G22

The Contractor will not be allowed right of entry to the following parcel(s) prior to the listed date(s) unless otherwise permitted by the Engineer.

<u>Parcel No.</u>	<u>Property Owner</u>	<u>Date</u>
002	Annie Durham Heirs	2-16-15
005	Susan B. Hargrove Heirs	3-15-15

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
62	10" Portland Cement Concrete Pavement, Through Lanes (with Dowels)

SPECIALTY ITEMS:

(7-1-95)(Rev. 1-17-12)

108-6

SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the 2012 Standard Specifications).

Line #	Description
95 thru 103, 105 thru 107, 112	Guardrail
104 & 108	Cable Guiderail
109 thru 111	Fencing
117 thru 136	Signing
155 thru 156, 164 thru 167, 173	Long-Life Pavement Markings
157 thru 160	Removable Tape
174 thru 175	Permanent Pavement Markers
176 thru 204	Erosion Control
210 thru 213	Drilled Piers

FUEL PRICE ADJUSTMENT:

(11-15-05) (Rev. 2-18-14)

109-8

SP1 G43

Revise the 2012 Standard Specifications as follows:

Page 1-83, Article 109-8, Fuel Price Adjustments, add the following:

The base index price for DIESEL #2 FUEL is \$ 1.791 per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

Description	Units	Fuel Usage Factor Diesel
Unclassified Excavation	Gal/CY	0.29

ST-26

I-0914BB

Warren County

Do not place grout if the grout temperature is less than 50°F or more than 90°F or if the air temperature measured at the location of the grouting operation in the shade away from artificial heat is below 45°F.

Provide grout at a rate that permits proper handling, placing and finishing in accordance with the manufacturer's recommendations unless directed otherwise by the Engineer. Use grout free of any lumps and undispersed cement. Agitate grout continuously before placement.

Control grout delivery so the interval between placing batches in the same component does not exceed 20 minutes.

The Engineer will determine the locations to sample grout and the number and type of samples collected for field and laboratory testing. The compressive strength of the grout will be considered the average compressive strength test results of 3 cube or 2 cylinder specimens at 28 days.

4.0 BASIS OF PAYMENT

No separate payment will be made for "Grout for Structures". The cost of the material, equipment, labor, placement, and any incidentals necessary to complete the work shall be considered incidental to the structure item requiring grout.

CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY STRUCTURE AT STATION 197+54.33 -L- SBL

(SPECIAL)

Construct, maintain and afterwards remove a temporary structure widening in accordance with the applicable parts of the Standard Specifications and this Special Provision (structure only; the approaches are not a part of this pay item).

Provide a temporary widening with a minimum overall length equal to the existing Bridge No. 49 (three spans with overall length of 223'). Center the length of the structure with the center of the existing bridge with the alignment, grade, and skew matching existing conditions. If the skew is not 90°, then lengthening of the structure to accommodate a 90° skew is permitted. The temporary widening shall provide a minimum clear roadway width of 16 feet in each of the northbound and southbound directions and an underclearance of no less than 15 feet.

If cored slab or box beams are used for bridge widening, a concrete overlay shall be required. Consideration shall be given to other accelerated bridge construction options as designed by North Carolina registered Engineer. Submit detailed sketches of the temporary bridge widening for review and approval.

Care shall be taken during the partial removal of the existing structure. Damage to the remaining structure shall be repaired by the contractor at no additional cost to the department. The method of repair shall be subject to approval by the engineer. The existing bridge shall be partially

PHASING

PROJ. REFERENCE NO.	SHEET NO.
I-0914BB	TMP-3

PHASE I

NOTE: THE WORK REQUIRED OF PHASE I, STEP 5 AND STEP 6 MAY BE WORKED CONCURRENTLY WITH THE WORK REQUIRED OF PHASE I, STEPS 2 THROUGH STEPS 4. ADDITIONALLY, THE WORK REQUIRED OF PHASE I, STEP 6 MAY BE BEGUN AND COMPLETED BY PHASE IV, STEP 1.

NOTE: THE WORK REQUIRED OF INTERMEDIATE CONTRACT TIMES IDENTIFIED IN PHASE I, STEPS 7 THROUGH STEPS 9 MAY BE COMPLETED AT ANY TIME DURING THE PROJECT DURATION AS LONG AS THERE ARE NOT ANY ACTIVE OR PLANNED OFF SITE DETOURS UTILIZING THE SPECIFIC ROUTES IDENTIFIED FOR CLOSURE WITHIN THE DURATION OF THE INTERMEDIATE CONTRACT TIME.

NOTE: ALL WORK ON I-85 THAT REQUIRE LANE CLOSURES WILL UTILIZE A VARIABLE SPEED LIMIT REDUCTION WITH A \$250 PENALTY. A SPEED LIMIT REDUCTION WITH A \$250 PENALTY WILL BE UTILIZED ON I-85 WHILE TRAFFIC IS IN A TWO-LANE, TWO-WAY PATTERN DIVIDED BY PORTABLE CONCRETE BARRIER.

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01 AND GENERAL NOTE P ON SHEET TMP-1B.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEPS 2 THROUGH STEPS 4 BY NOVEMBER 15, 2015.

STEP 2: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, COMPLETE THE FOLLOWING:

- INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE I-85 SOUTHBOUND LANE CLOSURE AS SHOWN ON SHEETS TMP-14 THROUGH TMP-17. INSTALL WORK ZONE SIGNS AND DEVICES FOR THE I-85 SOUTHBOUND DIRECTION AS SHOWN ON SHEET TMP-17 AND PLACE I-85 SOUTHBOUND TRAFFIC INTO THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-17.
- INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHION ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-16.

STEP 3: USING SHEET TMP-2B, COMPLETE THE FOLLOWING BEHIND PORTABLE CONCRETE BARRIER:

- INSTALL TEMPORARY SHORING ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEET TMP-15.
- INSTALL TEMPORARY GUARDRAIL ALONG -Y2- IN THE LOCATIONS SHOWN ON SHEET TMP-15.
- REMOVE A PORTION OF THE EXISTING I-85 SOUTHBOUND BRIDGE OVER -Y2- AND CONSTRUCT TEMPORARY BRIDGE WIDENING ON THE I-85 SOUTHBOUND BRIDGE OVER -Y2- AS SHOWN ON SHEET TMP-15 AND THE STRUCTURE PLANS.
- CONSTRUCT TEMPORARY WIDENING/PAVEMENT ALONG THE OUTSIDE SHOULDER OF I-85 SOUTHBOUND IN THE VICINITY OF I-85 SOUTHBOUND BRIDGE OVER -Y2- AS REQUIRED FOR THE UPCOMING PHASE II TRAFFIC SHIFT.

STEP 4: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, REMOVE PORTABLE CONCRETE BARRIER PLACED ALONG EXISTING I-85 SOUTHBOUND, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ON I-85 SOUTHBOUND, AND PLACE I-85 SOUTHBOUND TRAFFIC BACK INTO THE ORIGINAL PATTERN WITHIN THE LIMITS MODIFIED BY THE WORK DESCRIBED IN PHASE I, STEPS 2 AND 3.

STEP 5: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, COMPLETE THE FOLLOWING:

- REMOVE AND REPLACE THE EXISTING I-85 SOUTHBOUND OUTSIDE SHOULDER IN THE LIMITS SHOWN ON SHEETS TMP-4 THRU TMP-10.
- CONSTRUCT PROPOSED -CR1N-, -CRY1RPC-, -CRY1RPD-, -CRY3RPC-, -CRY3RPD-, -CR2S- AS SHOWN ON SHEETS TMP-11, TMP-12, TMP-13, TMP-18, TMP-19 AND TMP-20.
- CONSTRUCT PROPOSED BREAKDOWN LANES FOR I-85 IN THE LOCATIONS SHOWN ON SHEET TMP-14.
- INSTALL TEMPORARY GUARDRAIL ALONG THE EXISTING MEDIAN SHOULDER OF I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-04 THRU TMP-20.

STEP 6: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, FOR THE WORK ZONE WITHIN NORTH CAROLINA OR THE ACTUAL TMP DETAIL SHEETS FOR THE WORK ZONE WITHIN VIRGINIA, CONTRACTOR MAY BEGIN THE FOLLOWING:

- REMOVE AND REPLACE THE EXISTING I-85 SOUTHBOUND OUTSIDE SHOULDER IN THE LIMITS SHOWN ON SHEETS TMP-101 THRU TMP-104. VIBRALINE PAVEMENT MARKING EDGE LINE MUST BE INSTALLED ONCE THE ORIGINAL RUMBLE STRIPS ON THE REPLACED OUTSIDE SHOULDER ARE REMOVED AS SHOWN ON SHEETS TMP-105 THRU TMP-110.
- CONSTRUCT PROPOSED -CR3N-, -CR3S-, -CRY4RPC- AND -CRY4RPD- AS SHOWN ON SHEETS TMP-105, TMP-107 AND TMP-108. KEEP PROPOSED TEMPORARY MEDIAN CROSSOVERS CLOSED WITH DRUMS AND TYPE III BARRICADES.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 7 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, INSTALL OFF SITE DETOUR DETOUR SIGNING FOR THE CLOSURE OF -Y1- AS SHOWN ON SHEETS TMP-2P THRU TMP-2R. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE ACCESS TO THE -Y1- BRIDGE OVER -L- TO THRU TRAFFIC. AWAY FROM TRAFFIC, COMPLETE THE -Y1- BRIDGE REHABILITATION WORK ACCORDING TO THE STRUCTURE DESIGN PLANS, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ACROSS THE -Y1- BRIDGE DECK AND RE-OPEN -Y1- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 8 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 8: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y3- AS SHOWN ON SHEETS TMP-2P AND TMP-2S THRU TMP-2T. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE ACCESS TO THE -Y3- BRIDGE OVER -L- TO THRU TRAFFIC. AWAY FROM TRAFFIC, COMPLETE THE -Y3- BRIDGE REHABILITATION WORK ACCORDING TO THE STRUCTURE DESIGN PLANS, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ACROSS THE -Y3- BRIDGE DECK AND RE-OPEN -Y3- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 9 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 9: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y4- AS SHOWN ON SHEETS TMP-2P AND TMP-2U THRU TMP-2V. COVER THE OFFSITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. COORDINATE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION FOR THE -Y4- DETOUR ROUTES UTILIZING VIRGINIA'S ROAD NETWORK. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE ACCESS TO THE -Y4- BRIDGE OVER -L- TO THRU TRAFFIC. AWAY FROM TRAFFIC, COMPLETE THE -Y4- BRIDGE REHABILITATION WORK ACCORDING TO THE STRUCTURE DESIGN PLANS, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ACROSS THE -Y4- BRIDGE DECK AND RE-OPEN -Y4- TO TRAFFIC.

PHASE II

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE II, STEP 1 THROUGH STEP 8 BY NOVEMBER 15, 2016. THE CONTRACTOR SHALL NOT BEGIN THE WORK REQUIRED OF PHASE II, STEPS 1 THROUGH STEP 8 UNTIL AFTER JANUARY 5, 2016.




STEP 1: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, COMPLETE THE FOLLOWING:

- PLACE I-85 SOUTHBOUND TRAFFIC IN THE INSIDE TRAVEL LANE AND REMOVE THE EXISTING OUTSIDE EDGE LINE(S) FROM STA. 28+35+/- TO STA. 377+35+/- . INSTALL TEMPORARY PAVEMENT MARKINGS AND THE SERIES OF WORK ZONE SIGNS AND DEVICES SHOWN ON SHEETS TMP-43 THRU TMP-46 AND PLACE I-85 SOUTHBOUND TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-33 THRU TMP-45.
- INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-32 THRU TMP-43. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS FOR THE UPCOMING I-85 NORTHBOUND TRAVEL LANES TRAFFIC SHIFT AND THE TEMPORARY RAMP CROSSOVER AREAS AS SHOWN ON SHEETS TMP-33 THRU TMP-43. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.
- INSTALL THE LANE CLOSURE AND CROSSOVER TRAFFIC CONTROL DEVICES AS SHOWN ON SHEETS TMP-30 THRU TMP-33 AND PLACE I-85 NORTHBOUND TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-30 THRU TMP-43. UTILIZE DRUMS TO TEMPORARILY DELINEATE THE ENTRANCE AND EXIT RAMP CROSSINGS OF ORIGINAL I-85 NORTHBOUND UNTIL TEMPORARY PAVEMENT MARKINGS ARE INSTALLED FOR THOSE RAMP CROSSOVER MOVEMENTS AS SHOWN ON SHEETS TMP-34 THRU TMP-36 AND TMP-38 THRU TMP-40. INSTALL REMAINING PORTABLE CONCRETE BARRIER AND TEMPORARY GUARDRAIL WITHIN THE CROSSOVERS AS SHOWN ON SHEETS TMP-33, TMP-34, TMP-38, TMP-40, AND TMP-43. RELOCATE EXISTING GROUND MOUNTED INTERCHANGE GUIDE SIGNS FOR I-85 NORTHBOUND INTO THE PROPOSED MEDIAN USING WOODEN SUPPORTS OR TEMPORARY SKIDS. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.

STEP 2: AWAY FROM TRAFFIC, CONSTRUCT PROPOSED I-85 NORTHBOUND INCLUDING THE PROPOSED I-85 NORTHBOUND BRIDGE OVER -Y2- IN THE LOCATIONS SHOWN ON SHEETS TMP-23 THRU TMP-43. AWAY FROM TRAFFIC, CONSTRUCT THE WEDGE DOWN SECTIONS ACCORDING TO THE ROADWAY DESIGN PLANS IN THE LOCATIONS SHOWN ON SHEETS TMP-33, TMP-42 AND TMP-43.

AWAY FROM TRAFFIC, CONSTRUCT PROPOSED -Y1RPD- IN THE LOCATIONS SHOWN ON SHEETS TMP-35.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF TEMPORARY MAIN LINE CROSS-OVERS AND TEMPORARY RAMP CROSS-OVERS -CR1S-, -CR2N-, -CRY1RPB-, -CRY1RPA-, -CRY3RPB- AND -CRY3RPA-.

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p>  <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <u>Tim Arley</u> DATE: 3/5/2015</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN PHASING</p>
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PHASING

PROJ. REFERENCE NO. I-09148B	SHEET NO. TMP-3B
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INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE III, STEP 4 IN 60 CONSECUTIVE CALENDAR DAYS.

STEP 4: INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y1RPA- AS SHOWN ON SHEET TMP-2I. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE -Y1RPA- TO TRAFFIC. AWAY FROM TRAFFIC, CONSTRUCT THE SECTION OF I-85 SOUTHBOUND, THE SECTION OF PROPOSED -Y1RPA-, AND THE NEW CROSSOVER GRADE AS SHOWN ON SHEETS TMP-88 AND TMP-89. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE RE-OPENING OF -Y1RPA- AS SHOWN ON SHEETS TMP-90 AND TMP-91 AND RE-OPEN -Y1RPA- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE III, STEP 5 IN 60 CONSECUTIVE CALENDAR DAYS.

STEP 5: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 2 OF 9, INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y3RPB- AS SHOWN ON SHEET TMP-2J. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE -Y3RPB- TO TRAFFIC. AWAY FROM TRAFFIC, CONSTRUCT THE SECTION OF I-85 SOUTHBOUND, THE SECTION OF PROPOSED -Y3RPB-, AND THE NEW CROSSOVER GRADE AS SHOWN ON SHEETS TMP-92 AND TMP-93. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE RE-OPENING OF -Y3RPB- AS SHOWN ON SHEETS TMP-94 AND TMP-95 AND RE-OPEN -Y3RPB- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE III, STEP 6 IN 60 CONSECUTIVE CALENDAR DAYS.

STEP 6: INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y3RPA- AS SHOWN ON SHEET TMP-2K. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE -Y3RPA- TO TRAFFIC. AWAY FROM TRAFFIC, CONSTRUCT THE SECTION OF I-85 SOUTHBOUND, THE SECTION OF PROPOSED -Y3RPA-, AND THE NEW CROSSOVER GRADE AS SHOWN ON SHEETS TMP-96 AND TMP-97. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE RE-OPENING OF -Y3RPA- AS SHOWN ON SHEETS TMP-98 AND TMP-99 AND RE-OPEN -Y3RPA- TO TRAFFIC.

NOTE: WORK IN A CONTINUOUS MANNER TO PLACE I-85 NORTHBOUND AND SOUTHBOUND TRAFFIC IN INTERIM TEMPORARY TRAFFIC PATTERN SHOWN ON SHEET TMP-100 AS DESCRIBED IN STEPS 7 AND 8 BY NOVEMBER 15.

STEP 7: INSTALL THE PROPOSED PERMANENT GUIDE SIGNS FOR SOUTHBOUND I-85 AS SHOWN IN THE SIGNING PLANS. INSTALL FINAL PAVEMENT MARKINGS ON THE NEWLY CONSTRUCTED I-85 SOUTHBOUND TRAVEL LANES FROM THE BEGINNING OF THE PROJECT UP THROUGH STA. 348+00+/- AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS. USE TEMPORARY PAINT PAVEMENT MARKINGS TO TIE BACK TO THE EXISTING ONE WAY TWO LANE PATTERN ON I-85 SOUTHBOUND FROM STA. 27+00+/- TO STA. 33+25+/- AND FROM STA. 348+00 TO STA. 379+00+/- . SHIFT I-85 SOUTHBOUND TRAFFIC INTO THE HOLIDAY PHASE III TRAFFIC PATTERN SHOWN ON SHEET TMP-100. IMMEDIATELY CLOSE THE I-85 SOUTHBOUND ON RAMP AT -Y1- AND -Y3-, RE MARK THE I-85 TIE IN LOCATIONS FOR THESE TWO ON RAMP AND RE-OPEN THEM TO TRAFFIC. OPEN I-85 SOUTHBOUND TO A ONE WAY TWO LANE PATTERN THROUGHOUT THE PROJECT LIMITS. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.

STEP 8: REMOVE THE PORTABLE CONCRETE BARRIER PLACED ALONG I-85 NORTHBOUND IN PHASE III, STEP 1 AND REPLACE WITH DRUMS. REMOVE THE CONFLICTING PAVEMENT MARKINGS ON I-85 NORTHBOUND AS SHOWN IN THE HOLIDAY PHASE III TRAFFIC PATTERN TYPICAL ON SHEET TMP-100. TIE TO EXISTING I-85 NORTHBOUND PAVEMENT MARKINGS AT STA. 5+00+/- AND AT STA. 358+00+/- . OPEN I-85 NORTHBOUND TO A ONE WAY TWO LANE PATTERN THROUGHOUT THE PROJECT LIMITS. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.

PHASE IV

STEP 1: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, FOR THE WORK ZONE WITHIN NORTH CAROLINA OR THE ACTUAL TMP DETAIL SHEETS FOR THE WORK ZONE WITHIN VIRGINIA, PERFORM THE FOLLOWING:

- CONSTRUCT PROPOSED -CR4S- AS SHOWN ON SHEET TMP-110. KEEP PROPOSED TEMPORARY MEDIAN CROSSOVERS CLOSED WITH DRUMS AND TYPE III BARRICADES.
- COMPLETE THE WORK DESCRIBED IN PHASE I, STEP 6.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE IV, STEP 2 THROUGH PHASE V, STEP 6 BY NOVEMBER 15, 2018. THE CONTRACTOR SHALL NOT BEGIN THE WORK REQUIRED OF PHASE IV, STEP 2 THROUGH PHASE V, STEP 6 UNTIL AFTER JANUARY 5, 2018.

NOTE: WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED OF PHASE IV, STEP 2 TO PLACE TRAFFIC IN THE PHASE IV PATTERN.

STEP 2: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, FOR THE WORK ZONE WITHIN NORTH CAROLINA OR THE ACTUAL TMP DETAIL SHEETS FOR THE WORK ZONE WITHIN VIRGINIA, PERFORM THE FOLLOWING:

- PLACE I-85 SOUTHBOUND TRAFFIC IN THE INSIDE TRAVEL LANE AND REMOVE THE EXISTING OUTSIDE EDGE LINE AND THE VIBRALINE FROM STA. 340+28+/- TO STA. 550+55+/- . INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AND INSTALL THE SERIES OF WORK ZONE SIGNS AND DEVICES SHOWN ON SHEETS TMP-118 THRU TMP-129 FOR THE I-85 SOUTHBOUND DIRECTION AND PLACE I-85 SOUTHBOUND TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-118 THRU TMP-129.
- INSTALL PORTABLE CONCRETE BARRIER ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-118 THRU TMP-127. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS FOR THE UPCOMING I-85 NORTHBOUND TRAVEL LANES TRAFFIC SHIFT AND THE TEMPORARY RAMP CROSSOVER AREAS AS SHOWN ON SHEETS TMP-118 THRU TMP-127. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.
- INSTALL THE LANE CLOSURE AND CROSSOVER TRAFFIC CONTROL DEVICES AS SHOWN ON SHEETS TMP-115 THRU TMP-118 AND PLACE I-85 NORTHBOUND TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-115 THRU TMP-127. UTILIZE DRUMS TO TEMPORARILY DELINEATE THE ENTRANCE AND EXIT RAMP CROSSINGS OF ORIGINAL I-85 NORTHBOUND UNTIL TEMPORARY PAVEMENT MARKINGS ARE INSTALLED FOR THOSE RAMP CROSSOVER MOVEMENTS AS SHOWN ON SHEETS TMP-124 AND TMP-125. RELOCATE EXISTING GROUND MOUNTED INTERCHANGE GUIDE SIGNS FOR I-85 NORTHBOUND AND THE VDOT REST AREA INTO THE PROPOSED MEDIAN USING WOODEN SUPPORTS OR TEMPORARY SKIDS. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.

STEP 3: AWAY FROM TRAFFIC, CONSTRUCT PROPOSED I-85 NORTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-118 THRU TMP-127.


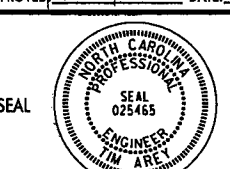
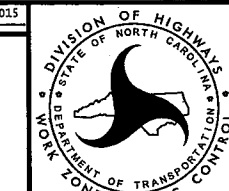
AWAY FROM TRAFFIC, CONSTRUCT PROPOSED -CRWCRPB- AND -CRWCRPA- IN THE LOCATIONS SHOWN ON SHEETS TMP-121 AND TMP-123. KEEP PROPOSED TEMPORARY MEDIAN CROSSOVERS CLOSED WITH DRUMS AND TYPE III BARRICADES.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE IV, STEP 4 IN 60 CONSECUTIVE CALENDAR DAYS.

STEP 4: INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y4RPC- AS SHOWN ON SHEET TMP-2L. COVER THE OFFSITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFFSITE DETOUR SIGNS AND CLOSE -Y4RPC- TO TRAFFIC. CONSTRUCT THE SECTION OF I-85 NORTHBOUND, THE SECTION OF PROPOSED -Y4RPC-, AND THE NEW CROSSOVER GRADE AS SHOWN ON SHEETS TMP-130 AND TMP-131. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE RE-OPENING OF -Y4RPC- AS SHOWN ON SHEETS TMP-132 AND TMP-133 AND RE-OPEN -Y4RPC- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE IV, STEP 5 IN 60 CONSECUTIVE CALENDAR DAYS.

STEP 5: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 2 OF 9, INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y4RPD- AS SHOWN ON SHEET TMP-2M. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE -Y4RPD- TO TRAFFIC. CONSTRUCT THE SECTION OF I-85 NORTHBOUND, THE SECTION OF PROPOSED -Y4RPD-, AND THE NEW CROSSOVER GRADE AS SHOWN ON SHEETS TMP-134 AND TMP-135. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE RE-OPENING OF -Y4RPD- AS SHOWN ON SHEETS TMP-136 AND TMP-137 AND RE-OPEN -Y4RPD- TO TRAFFIC.

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC.  ENGINEERS • CONSULTANTS	APPROVED: <u>Tim Arty</u> DATE: 3/5/2015 		TRANSPORTATION MANAGEMENT PLAN PHASING
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