DOCUMENT 00 91 13

ADDENDA

ADDENDUM NO. 02

DATE: **June 5, 2020**

PROJECT: **WEST CAMERON AVENUE WATER MAIN REPLACEMENT – PHASE 1**

OWASA CIP NUMBER: **275-52**

OWNER: **ORANGE WATER AND SEWER AUTHORITY**

ENGINEER: **McKim & Creed, Inc.**

TO: **Prospective Bidders**

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated May 2020, with amendments and additions noted herein below.

Acknowledge receipt of this Addendum in the space provided in the Bid form. Failure to do so may disqualify the Bidder.

This Addendum consists of 79 pages.

CHANGES TO THE SPECIFICATIONS:

1. Document 00 11 16 – Replace the first paragraph with the following: "Pursuant to Section 143-129 of the General Statutes of North Carolina, sealed Bids will be received by Orange Water and Sewer Authority from Bidders until 2:00 P.M., local time, on Monday, June 8, 2020 for CIP No. 275-52, Project: "West Cameron Avenue Water Main Replacement – Phase 1", in the Administrative Offices, 400 Jones Ferry Road, Carrboro, North Carolina 27510, at which time the Bids received will opened and read aloud."

2. Document 00 11 16 – Replace "370 linear feet" with "340 linear feet" where shown.

3. Delete Document 00 41 44 Proposal – Unit Price Contract Bid Form (Addendum No. 1), and replace with the attached Document 00 41 44 Proposal – Unit Price Contract Bid Form (Addendum No. 2).

4. Delete Document 00 52 15 – Agreement Form – Unit Price Contract and replace with the attached Document 00 52 15 – Agreement Form – Unit Price Contract (Addendum No. 2).

5. Add the attached DAVIS-BACON WAGE DETERMINATION to Section 00 52 20 – North Carolina Division of Water Infrastructure Special Conditions.

6. Section 01 10 00 Summary of Work, Section 1.2, Article A – Replace "approximately 370 feet" with "approximately 340 feet" where shown.

7. Section 01 10 26 – UNIT AND LUMP SUM PRICES, PART 3 – EXECUTION, Section 3.1, Item A – Add the following after Item 15:

"16. REMOVE AND REPLACE CONCRETE SIDEWALK

a) Measurement

(1) The quantity to be paid for this Item is the number of square yards of concrete sidewalk cut, removed and replaced from public maintained right-of-way or private property as required to install the new piping within the payment limits identified on the Drawings. This Item shall be measured at the completion of work.

b) Payment

(1) The price stated for this Item is full compensation for all work and expense incidental thereto for furnishing all material (including concrete cutting, excavation, removal and disposal; placement and compaction of sub-base materials and concrete to the thickness defined on the Drawings or to match existing sidewalk thickness (whichever is greater); all labor, tools, and equipment for complete and acceptable concrete sidewalk cutting, removal, and restoration within the limits indicated on the Drawings. Any concrete surfaces damaged as a result of the Contractor's actions, which is outside of the designated payment limits, shall be repaired at the Contractor's expense.

17. REMOVE AND REPLACE CONCRETE CURB & GUTTER

a) Measurement

(1) The quantity to be paid for under this Item is the actual number of linear feet of concrete curb and gutter cut, removed, and restored to match existing curb and gutter from publicly maintained roadways or private roadways as required to install the new piping within payment limits identified on the Drawings. This Item shall be measured at completion of work.

b) Payment

(1) The price stated for this Item is full compensation for all work and expense incidental thereto for furnishing all material (including concrete cutting, excavation, removal and disposal; placement and compaction of sub-base materials and concrete to the thickness defined on the Drawings or to match existing concrete thickness (whichever is greater)); all labor, tools, and equipment for complete and acceptable concrete curb and gutter cutting, removal, and restoration within the limits indicated on the Drawings. Any concrete curb and gutter damaged as a result of the Contractor's actions, which is outside of the designated payment limits, shall be repaired at the Contractor's expense.

18. REMOVE AND REPLACE ADA ACCESSIBLE SIDEWALK RAMP

a) Measurement

(1) The quantity to be paid for this Item is the actual number of sidewalk ramps removed and replaced from public maintained right-of-way or private property as required to install the new piping within the payment limits identified on the Drawings. This Item shall be measured at the completion of work.

b) Payment

(1) The price stated for this Item is full compensation for all work and expense incidental thereto for furnishing all material (including cutting, excavation, removal and disposal; placement and compaction of sub-base materials and concrete and brick to the thickness defined on the Drawings or to match existing sidewalk thickness (whichever is greater); all labor, tools, and equipment for complete and acceptable sidewalk ramp cutting, removal, and restoration within the limits indicated on the Drawings. Any sidewalk ramps damaged as a result of the Contractor's actions, which is outside of the designated payment limits, shall be repaired at the Contractor's expense.

19. REMOVE AND REPLACE BRICK SIDEWALK

a) Measurement

(1) The quantity to be paid for this Item is the number of square yards of brick sidewalk cut, removed and replaced from public maintained right-of-way or private property as required to install the new piping within the payment limits identified on the Drawings. This Item shall be measured at the completion of work.

b) Payment

(1) The price stated for this Item is full compensation for all work and expense incidental thereto for furnishing all material (including cutting, excavation, removal and disposal; placement and compaction of sub-base materials and concrete, and brick to the thickness defined on the Drawings or to match existing sidewalk thickness (whichever is greater); all labor, tools, and equipment for complete and acceptable brick sidewalk cutting, removal, and restoration within the limits indicated on the Drawings. Any brick surfaces damaged as a result of the Contractor's actions, which is outside of the designated payment limits, shall be repaired at the Contractor's expense."

8. Section 01 10 26 – UNIT AND LUMP SUM PRICES, PART 3 – EXECUTION, Section 3.1, Item C, Section 1. TRAFFIC SIGNAL LOOP REPAIR ALLOWANCE – Add the following after Item a):

"b) The Allowance is not due the Contractor in the whole or part without written authorization by a work change directive or change order issued by the Engineer or Owner and executed by the Owner."

9. Section 01 10 26 – UNIT AND LUMP SUM PRICES, PART 3 – EXECUTION, Section 3.1, Item C, Section 2. TOWN OF CHAPEL HILL FEES AND PERMIT ALLOWANCE – Add the following after Item a):

> "b) The Allowance is not due the Contractor in the whole or part without written authorization by a work change directive or change order issued by the Engineer or Owner and executed by the Owner."

10. Section 01 10 26 – UNIT AND LUMP SUM PRICES, PART 3 – EXECUTION, Section 3.1, Item C, Section 3. NCDOT BOND ALLOWANCE – Add the following after Item a):

> "b) The Allowance is not due the Contractor in the whole or part without written authorization by a work change directive or change order issued by the Engineer or Owner and executed by the Owner."

11. Section 01 10 26 – UNIT AND LUMP SUM PRICES, PART 3 – EXECUTION, Section 3.1, Item C, Section 4. CONTINGENCY ALLOWANCE – Add the following after Item b):

> "c) The Allowance is not due the Contractor in the whole or part without written authorization by a work change directive or change order issued by the Engineer or Owner and executed by the Owner."

12. Section 01 10 26 – UNIT AND LUMP SUM PRICES, PART 3 – EXECUTION, Section 3.1, Item C – Add the following after Item 4:

> "5. ADDITIONAL TRAFFIC CONTROL DEVICE ALLOWANCE
>
> a) Additional traffic control devices as required by the Town of Chapel Hill, NCDOT, OWASA or the Engineer as may be required which are in addition to the traffic control devices specified on the Traffic Control Plans included in the Contract Documents, will be paid to the Contractor as required from the Allowance amount established in the Bid. Copies of invoices for all additional traffic control devices shall be submitted with the monthly pay request. The Contractor will be paid for actual services and devices provided plus 10% of the cost of the services and devices. This Allowance is only applicable to traffic control devices required by the Town of Chapel Hill, NCDOT, OWASA or the Engineer, which are in addition to the traffic control devices specified on the Traffic Control Plans included in the Contract Documents.
>
> b) Additional traffic control devices may include, but are not limited to, signs, cones, barriers, arrow boards, materials and associated effort incidental to establishing and installing the additional traffic control devices as may be required. Items eligible for payment through the listed Allowance will be authorized by the Engineer or Owner via work change directive. Contractor will be requested to provide written proposal for the work required, which shall include all necessary documentation to support the costs listed in Contractor's proposal, including a breakdown of all labor, equipment and materials, along with invoices, proposal or quotes from subcontractors and suppliers
>
> c) The Allowance is not due the Contractor in the whole or part without written authorization by a work change directive or change order issued by the Engineer or Owner and executed by the Owner."

CHANGES TO THE DRAWINGS:

1. DRAWING G1 – Delete the TMP sheets from the Index and add the following:

"TMP-1 ROADWAY STANDARD DRAWINGS & LEGEND
TMP-2 GENERAL NOTES
TMP-3A STAGING CONCEPT
TMP-3B STAGING CONCEPT
TMP-4 TEMPORARY TRAFFIC CONTROL PHASE I
TMP-5 TEMPORARY TRAFFIC CONTROL PHASE I
TMP-6 TEMPORARY TRAFFIC CONTROL PHASE II – STEP A
TMP-7 TEMPORARY TRAFFIC CONTROL PHASE II – STEP A
TMP-8 TEMPORARY TRAFFIC CONTROL PHASE II – STEP B
TMP-9 TEMPORARY TRAFFIC CONTROL PHASE II – STEP B
TMP-10 TEMPORARY TRAFFIC CONTROL PHASE III – STEP A
TMP-11 TEMPORARY TRAFFIC CONTROL PHASE III – STEP A
TMP-12 TEMPORARY TRAFFIC CONTROL PHASE III – STEP B
TMP-13 TEMPORARY TRAFFIC CONTROL PHASE III – STEP B
TMP-14 ADVANCED WARNING SIGNS PHASE I
TMP-15 ADVANCED WARNING SIGNS PHASE II
TMP-16 ADVANCED WARNING SIGNS PHASE III

2. DRAWING G2 – Replace Note 10 with the following: "REFER TO GENERAL NOTES AS CONTAINED IN THE TRAFFIC CONTROL PLANS FOR ALLOWABLE HOURS OF CONSTRUCTION."

3. DRAWING G3 – Delete Drawing G3 and replace with the attached revised Drawing G3.

4. DRAWING C1 – Delete Drawing C1 as issued by Addendum No. 1 and replace with the attached revised Drawing C1.

5. TRAFFIC CONTROL PLANS – Replace Sheets TMP-1 through TMP-7 with the attached Sheets TMP-1 through TMP-16.

-END OF DOCUMENT-



DOCUMENT 00 41 44

PROPOSAL **(ADDENDUM NO. 2)**

(UNIT PRICE CONTRACT - BID FORM)

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

EXECUTIVE DIRECTOR
ORANGE WATER AND SEWER AUTHORITY
400 JONES FERRY ROAD
CARRBORO, NORTH CAROLINA 27510
(919) 968-4421

Date:_____, 20_____

OWASA CIP: **#275-52**

Project: **WEST CAMERON AVENUE WATER MAIN REPLACEMENT – PHASE 1**

Name of Bidder: _____

Address of Bidder: _____

_____

_____

Phone Number of Bidder: _____

Contact Person for Bidder: _____

Phone Number of Contact: _____

Bidder's North Carolina General Contractor's License Number (required):_____

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Orange Water and Sewer Authority in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

1.03 The undersigned Bidder hereby declares that the names of all persons interested in this Bid as principals appear in the blank spaces hereinafter provided for such purpose, that this Bid is in all respects fair and without collusion, that the Bidder has examined the locations of the proposed Work, the Advertisement for Bids, the Instructions to Bidders, Technical Specifications, M/WBE requirements of Orange Water and Sewer Authority, the Contract

Documents and Bond forms, and the Drawings therein referred to and fully understands the same and agrees and accepts the terms and conditions thereof, that it is understood that the estimated quantities are approximate only and are given for the purpose of comparing Bids upon a uniform basis, and that said estimate shall in no way affect the unit prices for the Work.

1.04 The undersigned Bidder hereby agrees to furnish at the Bidder's cost the expense of all the necessary labor, tools, apparatus, machinery, equipment, transportation, and all other things which may be required to fully and properly perform all the terms, covenants, provisions, and agreements of this Contract.

1.05 The undersigned Bidder hereby agrees to do said Work and furnish said materials as prescribed in the Contract Documents and Technical Specifications, and, according to the Drawings and requirements of the Engineer under said Contract Documents and Technical Specifications, in a first-class manner and to the best of the undersigned's ability at the following lump sum or unit prices.

1.06 The undersigned Bidder has examined the Site of the Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by the Engineer for the Project, we, the undersigned Bidder, hereby offers to enter into a Contract to perform the Work for the lump sum or unit prices listed in this Bid Form in lawful money of the United States of America.

1.07 The undersigned Bidder acknowledges that it is the intent of these Contract Documents to obtain a Contract based on a ***Unit Price Bid***, unless Lump Sum Prices are applied to the various portions of the Work and are specifically requested. In the event of errors in the arithmetical extension of unit prices to total prices, the unit price bid shall govern, and the Award of the Contract shall be based on the recomputed total prices. Where discrepancy exists between words and numerals, the written words shall govern. If a Bidder submits a Bid showing a unit price for a particular item and omits an extended total for that item, or a Bidder submits a Bid showing an extended total for a particular item and omits a unit price for that item, the omitted numbers shall be computed using the equation "Estimated Quantity x Unit Bid Price = Extended Total", so that the omission shall not render the Bid non-responsive or incomplete. If the Bidder leaves blank any lines or spaces indicated for the dollar amount of any item in the Bid, that omission will be understood and treated as if the Bidder had written in zero dollars ($0.00) for that particular item in the Bid. Before applying the preceding two (2) sentences this paragraph, the following rule shall apply in the special case that it describes: In places where it is indicated that a Bid should show both words and numerals for a particular dollar amount, if the Bid shows the dollar amount in numerals but omits to show any dollar amount in words (or vice versa), the Bid shall be treated as if it had shown the indicated dollar amount in both numerals and words.

1.08 The undersigned Bidder shall be required to submit a complete detailed cost breakdown of Lump Sum Bid items for payment purposes, for approval by the Engineer, prior to the Award of the Contract.

1.09 The undersigned Bidder acknowledges that all costs for mobilization, demobilization, bonds, insurance, etc. shall be included in the Unit Price Bid indicated. There shall be no additional

compensation for mobilization, demobilization, bonds, insurance, etc. and no adjustments to the Bid based on changes in the Scope of Work, including but not limited to, any additions to the Work on the Contract.

1.10 The undersigned Bidder acknowledges that the Project will be Awarded to the lowest responsible, responsive Bidder for the Project, as selected by Orange Water and Sewer Authority whose evaluation indicates that the Award will be in the best interest of the Project.

1.11 The undersigned Bidder acknowledges that all blanks on the Bid Form shall be completed by printing in ink or by typewriter and the Bid signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid Price shall be indicated for the Lump Sum or each Unit Price item listed therein, or the words, “No Bid”, “No Change”, or “Not Applicable” entered.

1.12 The undersigned Bidder acknowledges that the omission of prices for any item on the Bid Form, or the tendering of any unbalanced Bid may be the cause for the rejection of the submitted Bid.

1.13 The undersigned Bidder acknowledges that the payment will be made on the basis of the Work as actually executed at the Unit Prices or Lump Sum Prices set forth in the executed Contract and under the provisions of such Contract.

1.14 The undersigned Bidder acknowledges that there shall be no additional compensation to the Bidder for materials, equipment, or Work that is incidental to the successful completion of the Contract. Incidental costs include the costs inherent to the complete installation of those individual items included on the Bid Form.

1.15 The undersigned Bidder acknowledges that the Non-Collusive Affidavit for the Contractor shall be submitted with the Bid, and Non-Collusive Affidavit(s) for all Subcontractors (all tiers) for the apparent low Bidder shall be submitted within five (5) calendar days of the Bid Opening.

1.16 The undersigned Bidder acknowledges that it has included the Bid security as required by the Instructions to Bidders.

1.17 The undersigned Bidder agrees to comply with all requirements of local, State, or Federal permits that may be required for the completion of the Work.

1.18 The undersigned Bidder shall have all proper Contractor’s licenses and privilege licenses required under State and local laws governing their respective trade(s).

1.19 The undersigned agrees that the rights of Orange Water and Sewer Authority and the recommendations of the Engineer are not to be questioned in the Award of a Contract.

1.20 The undersigned Bidder certifies compliance with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes (“E-Verify”), and represents that it will require any subcontractors to comply with the requirements of Article 2 of Chapter 64 of the General Statutes.

1.21 The undersigned Bidder certifies compliance with the requirements of Article 6 of Chapter 143 of the North Carolina General Statutes ("Iran Divestment") and that it is not listed on the State Treasurer's Final Divestment List found at the website address www.nctreasurer.com/Iran and updated every 180 days, and represents that it will require any subcontractors to comply with the requirements of Article 6 of Chapter 143 of the General Statutes.

ARTICLE 2 – BIDDER'S ACKLOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid shall remain open and remain subject to acceptance, and is irrevocable, except as required by law, for ninety (90) calendar days from the Bid opening date, or for such longer period of time that Bidder may agree to in writing upon request of Orange Water and Sewer Authority.

2.02 If this Bid is accepted by Orange Water and Sewer Authority within the time period stated above, the Bidder will:

-Execute the Agreement within fifteen (15) calendar days of receipt of Notice of Award.

-Furnish the required Bonds within fifteen (15) calendar days of receipt of Notice of Award.

-Commence Work within ten (10) calendar days after written Notice to Proceed.

2.03 If this Bid is accepted by Orange Water and Sewer Authority within the time stated, and the Bidder fails to commence the Work or fails to provide the required bonds, the Bid security shall be forfeited as damages to Orange Water and Sewer Authority by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this Bid and the Bid upon which a Contract is signed.

2.04 In the event Bid is not accepted by Orange Water and Sewer Authority within the time stated above, the required Bid security will be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.:	**Addendum Date:**
_____	_____
_____	_____

Addendum No.:	Addendum Date:

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the bid price and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.

I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 - BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

"corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;

"fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Orange Water and Sewer Authority, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Orange Water and Sewer Authority of the benefits of free and open competition;

"collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Orange Water and Sewer Authority, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

"coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID (UNIT PRICE BID)

5.01 CIP: **#275-52**

Project: **WEST CAMERON AVENUE WATER MAIN REPLACEMENT – PHASE 1**

Project Description:

Installation of approximately 340 linear feet of 12-inch restrained joint ductile iron pipe from a point east of the intersection of West Cameron Avenue and Pittsboro Street to a point north of the intersection of West Cameron Avenue and South Columbia Street in the Town of Chapel Hill.

The major work items included in the Base Bid, as described in the Specifications and as shown on the Drawings, are as follows:

Install approximately 340 linear feet of 12-inch water main and associated valves and fittings. Cut and abandon by grout fill, approximately 290 feet of existing 12-inch cast iron and asbestos concrete water mains that are no longer in use.

The foregoing description shall not be construed as a complete description of all Work required.

The Unit Price Bid shall reflect all costs associated with furnishing and installing, and placing into service all items of Work as indicated on the Drawings and in the Technical Specifications, complete, in place, operable and accepted by Orange Water and Sewer Authority, per the Engineer's Contract Documents.

5.02 Not Used

5.03 Bidder shall complete the Work in accordance with the Contract Documents for the following TOTAL UNIT PRICE BID:

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BID FORM **(ADDENDUM NO. 2)**

NOTE TO BIDDERS: DO NOT REMOVE THIS BID FORM FROM THE CONTRACT DOCUMENTS

UNIT PRICE BID CONTRACT

Item	Description	Estimated Quantity		Bid Unit Price		Total
1	Mobilization and Demobilization	1	LS	$	/LS	$
2	12" Diameter Ductile Iron Pipe, Class 350 Restrained Joint Water Main	340	LF	$	/LF	$
3	Testing, Seeding and Restoration for 12" Diameter Water Main	340	LF	$	/LF	$
4	Ductile Iron Restrained Mechanical Joint Fittings Installed On and/or Connected to Existing Water Mains					
a	12" x 12" Cut-In Tee w/ 12" Plug	1	EA	$	/EA	$
5	Ductile Iron Restrained Mechanical Joint Fittings Installed On New Water Mains					
a	12" x 12" Tee	1	EA	$	/EA	$
b	12" 45 Degree Bend	2	EA	$	/EA	$
c	12" x 4" Tee	2	EA	$	/EA	$
6	12"x12" Tapping Sleeve and Valve with Box	1	EA	$	/EA	$
7	12" Gate Valve with Box	3	EA	$	/EA	$
8	4" Gate Valve with 4" Plug and Box	2	EA	$	/EA	$
9	2" Temporary Blowoff Assembly	1	EA	$	/EA	$
10	Abandon Existing 12" Water Main by Grout Fill	290	LF	$	/LF	$
11	Cut and Cap Existing Water Main					
a	12" Diameter Asbestos Cement Pipe	2	EA	$	/EA	$
b	12" Diameter Cast Iron Pipe	2	EA	$	/EA	$
12	Separation/Protection Concrete	5	CY	$	/CY	$
13	Remove and Replace NCDOT Asphalt Roadway / Trench Repair (11" B25.0C + 2" S9.5C)	285	SY	$	/SY	$
14	Mill Existing Asphalt and Overlay with 1.5" S9.5C	1,100	SY	$	/SY	$
15	Remove and Replace Brick Sidewalk	25	SY	$	/SY	$
16	Remove and Replace Concrete Sidewalk	5	SY	$	/SY	$

17	Remove and Replace ADA Accessible Sidewalk Ramp	2	EA	$	/EA	$
18	Remove and Replace Concrete Curb & Gutter	50	LF`	$	/LF	$
19	Rock Removal and Replacement with Select Backfill	25	CY	$	/CY	$
20	Undercut Excavation and Disposal of Unsuitable Material	25	CY	$	/CY	$
21	Erosion and Sedimentation Control					
a	Inlet Protection Device	2	EA	$	/EA	$
b	Construction Protection Fencing	300	LF	$	/LF	$
22	Traffic and Pedestrian Control	1	LS	$	/LS	$
23	Allowances					
a	Traffic Signal Loop Replacement Allowance	1	LS	$6,000.00	/LS	$6,000.00
c	TOCH Engineering Fee Allowance	1	LS	$2,500.00	/LS	$2,500.00
d	NCDOT Bond Allowance	1	LS	$2,500.00	/LS	$2,500.00
e	Contingency Allowance	1	LS	$7,500.00	/LS	$7,500.00
f	Additional Traffic Control Device Allowance	1	LS	$10,000.00	/LS	$10,000.00

TOTAL BID (ITEMS 1 THRU 23) $_____

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Bidder acknowledges that, (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items shall be based on actual quantities, determined as provided in the Contract Documents.

TOTAL UNIT PRICE BID for the Project described in Sub-Article 5.01**,** complete as indicated by the Contract Documents (in words and numerals):

_____ Dollars

and _____ Cents ($ _____)

Bidder_____
(Print Name)

Bidder_____
(Signature)

CERTIFIED LIST OF EQUIPMENT/MATERIAL MANUFACTURERS AND SUBCONTRACTORS

The Bidder, _____, as part of the procedure for the submission of Bids on this Project, submits the following list of Equipment/Material Manufacturers and Subcontractors to be used in the performance of Work to be done on said Project. The list of Manufacturers and all equipment/materials furnished and Subcontractors shall be based on requirements of the Contract Documents. Changes to this list after the Bid opening shall only be as approved by Orange Water and Sewer Authority upon request by the Contractor or as required by Orange Water and Sewer Authority based upon review of Contractor's submittals:

EQUIPMENT/MATERIALS	MANUFACTURER

WORK TASK	SUBCONTRACTOR

It is understood and agreed that, if awarded a Contract, the Contractor will not make any additions, deletions or substitutions to this certified list without the written consent of Orange Water and Sewer Authority.

CERTIFICATION AFFIDAVIT

THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER UNDERSTAND AND AGREE THAT, IF AWARDED A CONTRACT, THIS CERTIFICATION SHALL BE ATTACHED THERETO AND BECOME A PART THEREOF.

NAME OF SIGNER: _____
(Please Print or Type)

TITLE OF SIGNER: _____
(Please Print or Type)

SIGNATURE: _____

DATE: _____

-END OF CERTIFICATION-

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ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be Substantially Complete within **30 CONSECUTIVE CALENDAR DAYS**, after the date when the Contract Time commences to run as provided in Paragraph 16.03 of the General Conditions and will be completed and ready for final payment in accordance with Paragraph 16.06 of the General Conditions within **40 CONSECUTIVE CALENDAR DAYS**, of the date when the Contract Time commences to run.

6.02 Not Used

6.03 Bidder accepts the provisions of the Agreement as to Liquidated Damages.

ARTICLE 7 - ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

A. Required Bid Security;

B. List of Proposed Subcontractors;

C. List of Proposed Suppliers;

D. List of Project References;

E. Evidence of authority to do business in the State of North Carolina; or a written covenant to obtain such license within the time for acceptance of Bids;

F. Required Bidder Qualification Statement with supporting data;

G. North Carolina Department of Environment Quality – Division of Water Infrastructure MBE/WBE Compliance Forms – Good Faith Efforts Form and Table A

ARTICLE 8 – BID CERTIFICATION

8.01 THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER UNDERSTAND AND AGREE THAT, IF AWARDED A CONTRACT, THIS CERTIFICATION SHALL BE ATTACHED THERETO AND BECOME A PART THEREOF.

SIGNATURE: _____

DATE: _____

8.02 We agree to diligently perform the Work in accordance with all Contract Documents, to complete such Work within the period as outlined in the Contract, and to begin Work within ten (10) consecutive calendar days after receipt of the Notice to Proceed from Orange Water and Sewer Authority.

ARTICLE 9 - CONTRACTOR EXPERIENCE

9.01 Not Used

9.02 Not Used

9.03 Not Used

ARTICLE 10 - BID FORM SIGNATURES

10.01 Refer to Document 00 21 15 – Instructions to Bidders for specific Bid Form signature requirements for corporations, partnerships, limited liability companies, individuals, or sole proprietorships.

ARTICLE 11 - QUALIFICATIONS OF BIDDERS

11.01 The Bidder shall demonstrate the ability to complete a majority of all portions of the Contract using personnel employed by the Bidder. The Bidder shall include a list of at least three (3) projects they have completed with their equipment and personnel within the past five (5) years that involves installation of a pressurized water line of 8-inch diameter or larger in an urban or suburban environment.

ARTICLE 12 – SEQUENCE OF WORK

12.01 Not Used

12.02 Not Used

12.03 Not Used

12.04 Not Used

12.05 Not Used

12.06 Not Used

ARTICLE 13 - INTERIM COMPLETION DATES

13.01 Not Used

CORPORATION

The Corporate Seal of

_____

(Bidder - print the full legal corporate name of firm)

_____

(President/Vice President/Authorized Corporate Officer)

(Seal)

was hereunto affixed in the presence of:

_____

(Secretary/Assistant Secretary)

(Seal)

Corporate Address:

_____

_____

_____

_____

(State of Incorporation)

LIMITED LIABILITY COMPANY

_____

(Bidder - print the full legal name of firm)

_____

(Authorized Firm Member)

(Seal)

was hereunto affixed in the presence of:

_____

(Witness)

(Seal)

Firm Address:

_____

_____

_____

_____

(State of Formation)

INDIVIDUAL OR SOLE PROPRIETORSHIP

_____

(Bidder - print the full name of individual or sole proprietorship)

(Seal)

Individual or Sole Proprietorship Address:

_____

_____

_____

PARTNERSHIP

_____
(Bidder - print the full legal corporate name of partnership)

_____	_____
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
_____	_____
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
_____	_____
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
_____	_____
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
_____	_____
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)

(All Partners shall sign, additional signatures with titles and seals may be added below.)

was hereunto affixed in the presence of:

_____
(Witness)

(Seal)

Partnership Address:

_____

_____

JOINT VENTURE

If the Bid is a joint venture, add additional forms of execution for each member of the joint venture in the appropriate manner using the forms from above.

BID BOND

This is a Bid Bond that is subject to the provisions of G.S. 143-129 (b) of the North Carolina General statutes.

This Bond is executed on _____, 20____

The name of the Principal is _____
(Correct name of Contractor)

_____
(A Corporation, a Partnership, or an Individual, as the case may be)

The name of the Surety is _____

_____

Orange Water and Sewer Authority is the Owner.

The amount of the Bond is _____

_____ (Dollars) $_____

KNOW BY ALL MEN BY THESE PRESENTS, the Principal and Surety above named are hereby held and firmly bound unto the above named Owner hereinafter called the Owner in the penal sum of the amount stated above in lawful money of the United States, for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner a certain Bid attached hereto and hereby made a part hereof to enter into a Contract in writing, for the construction of:

WEST CAMERON AVENUE WATER MAIN REPLACEMENT – PHASE 1

NOW, THEREFORE

(a) If said Bid shall be rejected, or in the alternate,

(b) If said Bid shall be accepted and the Principal shall execute and deliver a Contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for its faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid;

(c) Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

BID BOND (CONTINUED)

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Execution by Principal: **(If Contractor is a Partnership, all partners should execute Bond below)**

ATTEST:

_____	BY:	_____
Principal Secretary (SEAL)		Principal
		_____
		Principal
		_____
		Principal
_____		_____
Witness as to Principal		(Address)
		_____
		(Phone Number)

Execution by Surety:
ATTEST:

_____	_____
North Carolina Resident Agent (SEAL)	Surety
	_____
	(Address)
_____	_____
Witness as to Surety	(Phone Number)

POWER OF ATTORNEY

(Attach)

PROPOSAL SIGNATURE

Bidder operates under the legal name of _____

_____

BIDDERS COMPLETE THE APPROPRIATE SECTION*

CORPORATION* The Bidder is a corporation, has a corporate seal and the full names of its officers are:

President _____

Secretary _____

Vice President _____

Treasurer _____

The _____ (officer's title) is authorized to sign construction proposals and contracts for the company by action of its Board of Directors taken on _____, 20____ a certified copy of which is attached. (Strike out previous sentence if not applicable. This section must be completed if President or Vice President is not the signatory party.)

PARTNERSHIP* The Bidder is a partnership consisting of individual partners whose full names are:

_____

_____

INDIVIDUAL* The Bidder is an individual whose full name is:

_____

_____

Print Name of Legal Entity

By: _____

Print name and title of signatory

CORPORATIONS ONLY – Secretary or Assistant Secretary attest and affix corporate Seal:

_____

Circle one: Secretary or Assistant Secretary

_____

State of Incorporation

_____

Address and telephone number

Subscribe and sworn to me this _____ day of _____, 20___.

_____

Notary Public (Seal)

My Commission Expires: _____

CONTRACTOR'S AFFIDAVIT OF ORGANIZATION AND AUTHORITY

STATE OF _____

COUNTY OF _____

_____ being the first duly sworn on oath deposes and says that the Bidder on the attached Bid proposal is organized as indicated below and that all statements herein made are made on behalf of such Bidder and that this deponent is authorized to make them.

(Fill Out Applicable Paragraph)

1. CORPORATION:

The Bidder is a corporation organized and existing under the laws of the State of _____ and its President is _____;

its Secretary is _____,

and it does have a corporate seal. The _____ (officer's title) is authorized to sign construction Contracts and Bids for the company by action of its Board of Directors taken on _____, 20___, a certified copy of which is hereto attached. (Strike out last sentence if not applicable.)

2. PARTNERSHIP:

The Bidder is a partnership consisting of _____ and _____ _____, partners doing business under the name of _____.

3. INDIVIDUAL / SOLE TRADER:

The Bidder is an individual and if operating under a trade name, such trade name is as follows:

_____

4. ADDRESS:

The business address of the Bidder is as follows: _____

_____

Its phone number is _____.

_____
Bidder

By: _____

Subscribed and sworn to before me this _____ day of _____ , 20___

_____

My commission expires: _____

Notary Public

(SEAL)

NON–COLLUSION AFFIDAVIT FOR CONTRACTOR'S

STATE OF _____

COUNTY OF _____

_____ being first duly sworn, deposes and says that:

(1) He/She is the: _____
Owner, Partner, President, Vice President or other officer with evidence of authority attached

of _____

the Bidder that has submitted the attached BID;

(2) He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

(3) Such BID is genuine and is not a collusive or sham Bid;

(4) Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, have in any way colluded, conspired; connived, or agreed, directly or indirectly, with any other Bidder, firm, or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;

(5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

BY: _____

ITS: _____
Title

CORPORATIONS ONLY

_____
Secretary or Assistant, attest & affix corporate seal

Subscribed and sworn to before me this _____ day of _____ , 20___

_____ My commission expires: _____

Notary Public

(SEAL)

NON-COLLUSION AFFIDAVIT FOR SUBCONTRACTOR(S)

(DUE WITHIN 5 CALENDAR DAYS OF THE BID OPENING)

STATE OF _____

COUNTY OF _____

_____being first duly sworn, deposes and says that:

(1) He/She is _____ of _____, hereinafter referred to as the "Subcontractor";

(2) He/She is fully informed respecting the preparation and contents of the Subcontractor's Proposal submitted by the Subcontractor to_____ _____, the Contractor for certain work in connection with the _____ Contract pertaining to the Project in _____ (City or County, and State);

(3) Such Subcontractor's Proposal is genuine and is not a collusive or sham proposal;

(4) Neither the Subcontractor nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Proposal in connection with such Contract or to refrain from submitting a Proposal in connection with such Contract, or has in any manner, directly or indirectly, sought by unlawful agreement or connivance with any other Bidder, firm or person to fix the price or prices in said Contractor's Proposal, or to fix any overhead, profit, or cost elements of the price or prices in said Contractor's Proposal, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the _____ (Local Public Agency) or any person interested in the proposed Contract; and

(5) The price or prices quoted in the Subcontractor's Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____

_____
Title

Subscribed and sworn to before me this _____ day of _____ , 20___

_____ My commission expires: _____

Notary Public

(Seal)

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

During the performance of this Contract the Contractor agrees as follows:

a. The Contractor will not discriminate against any employee or applicant because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to race, color, religion, sex, or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of the nondiscrimination clause.

b. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

c. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other Contract understanding, a notice; to be provided, advising the labor union or worker's representative of the Contractor's commitments under the Equal Employment Opportunity Section of this Contract, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this Contract or with any of such rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Owner Contracts,

e. The Contractor will include the provisions of this section in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Owner so that such provisions will be binding upon each Subcontractor or vendor.

(Complete this section for signatures by a CORPORATION):

(CORPORATE SEAL)

_____
Corporate Name

ATTEST:

_____ BY: _____

Secretary* or Assistant Secretary* President* or Vice President*

*choose one

(Complete this section for signatures by PARTNERSHIP and INDIVIDUAL):

WITNESS:

_____ BY: _____ (Seal)

(ACKNOWLEDGEMENT OF THE ABOVE SIGNATURE MUST BE NOTARIZED USING THE FORM ON THE FOLLOWING PAGE)

ACKNOWLEDGEMENT FOR
EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

Corporate Acknowledgement

(Use this portion of the form for acknowledgement of signature by a Corporation):

STATE OF _____

COUNTY OF _____

I, the undersigned notary public, do hereby certify that _____ personally appeared before me this day and acknowledged that he/she is *Secretary* or Assistant Secretary** of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its *President* or Vice President**, sealed with its corporate seal, and attested by himself as its *Secretary* or Assistant Secretary**.

**choose one*

WITNESS my hand and notarial seal this _____day of _____, 20____

_____

My commission expires _____. Notary Public
(SEAL)

Individual or Partnership Acknowledgement

(Use this portion of the form for acknowledgement of signature by a partnership or an individual.)

NORTH CAROLINA (Enter correct State and County if different than shown.)

_____ COUNTY

I, the undersigned Notary Public, do hereby certify that, _____ personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal this _____ day of _____ , 20___

_____

My commission expires: _____. Notary Public (SEAL)

-END OF DOCUMENT-

DOCUMENT 00 52 15

AGREEMENT FORM – UNIT PRICE CONTRACT **(ADDENDUM NO. 2)**

THIS AGREEMENT is dated as of the _____ day of _____, in the year 20__ by and between Orange Water and Sewer Authority, Carrboro, North Carolina, party of the first part, and _____party of the second part, (Contractor).

Orange Water and Sewer Authority and Contractor, in consideration of the mutual covenants set forth herein, hereby agree as follows:

ARTICLE 1 - WORK

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

WEST CAMERON AVENUE WATER MAIN REPLACEMENT – PHASE 1

Installation of approximately 340 linear feet of 12-inch restrained joint ductile iron pipe from a point east of the intersection of West Cameron Avenue and Pittsboro Street to a point north of the intersection of West Cameron Avenue and South Columbia Street in the Town of Chapel Hill.

The major work items included in the Base Bid, as described in the Specifications and as shown on the Drawings, are as follows:

Install approximately 340 linear feet of 12-inch water main and associated valves and fittings. Cut and abandon by grout fill, approximately 290 feet of existing 12-inch cast iron and asbestos concrete water mains that are no longer in use.

The foregoing description shall not be construed as a complete description of all Work required.

ARTICLE 2 - THE PROJECT

2.01 The Project, of which the Work under the Contract Documents may be the whole or only a part, is generally described as follows:

OWASA CIP: #275-52, Project: **"WEST CAMERON AVENUE WATER MAIN REPLACEMENT - PHASE 1"**

ARTICLE 3 - ENGINEER

3.01 The Project has been designed by McKim & Creed, who is to act as Orange Water and Sewer Authority's representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 - CONTRACT TIME

4.01 Time of the Essence

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 Contract Times: (Consecutive Calendar Days)

A. Days to achieve Substantial Completion, Final Completion, and Final Payment:

The Work shall be Substantially Complete in accordance with Paragraph 15.03 of the General Conditions within **30 CONSECUTIVE CALENDAR DAYS,** after the date when the Contract Time commences to run (Notice to Proceed), and Finally Complete and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within **40 CONSECUTIVE CALENDAR DAYS** after the date when the Contract Times commence to run (Notice to Proceed).

B. Bidder accepts the provisions of the Agreement as to Liquidated Damages.

4.03 Liquidated Damages

A. The Contractor and Orange Water and Sewer Authority recognize that time is of the essence for this Agreement and that the Orange Water and Sewer Authority will suffer financial and other losses if the Work is not completed within either or both the time of Substantial Completion and the time of Final Completion as specified in Paragraph 4.02 above, plus any extensions thereof allowed in accordance with the Contract. The parties also recognize the delays, expenses, and difficulties to both parties involved in proving or contesting in a legal or mediation preceding the actual loss suffered by Orange Water and Sewer Authority, if the Work is not completed on time. Accordingly, instead of requiring any such proof of losses, it is agreed that the Contractor shall be liable for and pay the following amounts to Orange Water and Sewer Authority as Liquidated Damages, and not as a penalty:

Completion Milestone Date	Liquidated Damages (per day)
Date of Substantial Completion	$1,000
Date of Final Completion	$1,000

B. Liquidated damages will be assessed for the above listed amounts for each and every day the Work remains incomplete beyond the date of Substantial Completion and the date of Final Completion, either date being independent of the other.

C. NOT USED

D. NOT USED

4.04 Failure of the Contractor to commence construction within ten (10) consecutive calendar days of the Notice to Proceed shall begin a daily penalty to the Contractor at a rate of fifty percent (50%) of the daily Liquidated Damages specified in Paragraph 4.03.A.

4.05 Weather Related Delays

A. Contractor's requests to extend Contract Time based on weather related delays shall be made in writing and shall be made with reference to the table below as the reasonably expected weather conditions for a given month. Contractor will still need to demonstrate the adverse effect on the construction schedule. Unless Orange Water and Sewer Authority agrees otherwise, the weather conditions must be shown by use of data, submitted by the Contractor, from either the National Weather Service (NWS) for Carrboro, North Carolina or NWS readings from a location closer to the site than Carrboro, North Carolina, and not by use of weather readings on the Site or by the Contractor. Notwithstanding the General Conditions, in order to request an extension of Contract Time for abnormal weather conditions the form must be submitted by the tenth (10^{th}) day of the month after the month as to which the request is made.

Month	Expected number of days with 0.1 or more inches precipitation
January	1
February	1
March	1
April	1
May	1
June	1
July	1
August	1
September	1
October	1
November	1
December	1

4.06 Work Related to Weekends or Orange Water and Sewer Authority Holiday

A. The Contractor shall have notified the Resident Project Representative by 3:30 PM, three (3) business days in advance of the day of the Contractor's request to Work on a specific Saturday, Sunday, or Orange Water and Sewer Authority holiday. Notwithstanding the General Conditions, if the day on which the notice is to be given is a Saturday, Sunday, or Orange Water and Sewer Authority holiday, the request shall be made by the first day before that Saturday, Sunday, or Orange Water and Sewer Authority holiday that is not a Saturday, Sunday, or Orange Water and Sewer Authority holiday.

ARTICLE 5 - CONTRACT PRICE

5.01 Orange Water and Sewer Authority shall pay Contractor for completion of the Work in accordance with the Contract Documents the amounts that follow, subject to adjustment under the Contract:

A. For all Unit Price Work, a Sum of: _____(words),

($_____ (numerals)).

B. All specific cash allowances are included in the above price in accordance with Paragraph 13.02 of the General Conditions.

C. For all Work, at the price(s) stated in Contractor's Bid, attached hereto as an exhibit.

ARTICLE 6 - PAYMENT PROCEDURES

6.01 Submittal and Processing of Payments

A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.02 Progress Payments; Retainage

A. Orange Water and Sewer Authority shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment on or about the twenty-fifth (25th) day of each month during performance of the Work as provided in Paragraphs 6.02.A.1 below provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided in the General Requirements:

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts Orange Water and Sewer Authority may withhold, including but not limited to liquidated damages, in accordance with the Contract.

2. Orange Water and Sewer Authority will retain five (5%) percent of the amount of each estimate until Work covered by the Contract is fifty percent (50%) complete (50% of the Total Contract Amount). If after the Project is deemed fifty percent (50%) complete based upon the Contractor's gross Project invoices, excluding the value of materials stored on and off-site, and the Contractor provides Orange Water and Sewer Authority the following:

   a. Written verification evidencing fifty percent (50%) completion of the Project; and,

   b. Written consent of the surety named in the Project performance and payment bonds agreeing that Orange Water and Sewer Authority shall not retain more

than two and one-half percent (2.5%) of the Total Bid Price in retainage from periodic payments due to the Contractor;

c. Orange Water and Sewer Authority shall reduce retainage to two and one-half percent (2.5%) of the Total Bid Price from future periodic payments if Orange Water and Sewer Authority finds that the Contractor is performing satisfactorily, and any nonconforming Work identified in writing by the Engineer or Orange Water and Sewer Authority (prior to the point of fifty percent (50%) Project completion) has been corrected by the Contractor and accepted by the Engineer or Orange Water and Sewer Authority, whoever provided such prior notice of nonconforming Work. If, however, Orange Water and Sewer Authority determines the Contractor's performance is unsatisfactory, Orange Water and Sewer Authority may reinstate the specified retainage for each subsequent periodic payment.

d. In addition to the retainage amounts allowed to be held by Orange Water and Sewer Authority, it shall also retain all rights allowed under this Agreement to withhold payment to the Contractor in accordance with the General Conditions and for unsatisfactory job progress, defective or nonconforming construction not remedied, disputed Work, or third-party claims filed against Orange Water and Sewer Authority or reasonable evidence that a third-party claim will be filed.

e. Within sixty (60) days of receipt by Orange Water and Sewer Authority of (1) an Application for Payment and (2) written consent of the surety, and after City has either (1) received a certificate of Substantial Completion or (2) received beneficial occupancy or use of the Project (if applicable), Orange Water and Sewer Authority shall pay an amount sufficient to increase total payment to Contractor to the Contract Price, less such amounts as Engineer shall determine in accordance with the General Conditions, including up to two hundred fifty percent (250%) of Engineer's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate of Substantial Completion.

6.03 Final Payment

A. Upon final completion and acceptance of the Work in accordance with Paragraph 15.06 of the General Conditions, Orange Water and Sewer Authority shall pay the remainder of the Contract Price as recommended by Engineer as provided in said Paragraph 15.06.

B. Prior to issuing final payment, the Contractor will furnish to Orange Water and Sewer Authority certification that: All Subcontractors and vendors associated with this Contract have been paid; no liens and/or lawsuits have been placed against the Contractor for this Work; and the total dollar amount has been paid to all Subcontractors, Suppliers, and others associated with this project.

C. Upon final completion and acceptance of the Work in accordance with the General Conditions, Orange Water and Sewer Authority shall pay the remainder of the Contract price as recommended by Engineer.

ARTICLE 7 – INTEREST [NOT IN CONTRACT]

ARTICLE 8 - CONTRACTOR'S REPRESENTATIONS

8.01 In order to induce Orange Water and Sewer Authority to enter into this Agreement Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.

B. Contractor has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the General Conditions; and (2) reports and drawings relating to Hazardous Environmental Condition, if any, at or adjacent to the Site that have been identified in the General Conditions, especially with respect to Technical Data in such reports and drawings.

E. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (3) Contractor's safety precautions and programs.

F. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

G. Contractor is aware of the general nature of work to be performed by Orange Water and Sewer Authority and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

J. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

ARTICLE 9 - CONTRACT DOCUMENTS

9.01 Contents

A. The Contract Documents consist of the Drawings, and all of the items listed in the Table of Contents. See the Article 5 of the General Conditions.

B. The documents listed in Paragraph 9.01 are attached to this Agreement (except as expressly noted otherwise above).

C. There are no Contract Documents other than those listed above in Paragraph 9.01.

D. The Contract Documents may only be amended, modified, or supplemented as provided in Paragraph 3.04 of the General Conditions.

E. Coordination of General Conditions, Agreement, and Technical Specifications.

1. All components of the Contract Documents are essential elements of the Contract between the Owner and Contractor, and notwithstanding the requirements of Article 3.03 of the General Conditions, in case of a conflict or contradiction among the General Conditions, Agreement, and Technical Specifications, the following shall be the order of controlling authority as among these documents: The Technical Specifications shall control over the Agreement and the Agreement shall control over the General Conditions.

ARTICLE 10 - MISCELLANEOUS

10.01 Terms

A. Terms used in this Agreement will have the meanings stated in the General Conditions.

10.02 Assignment of Contract

A. Unless expressly agreed to elsewhere in the Contract, no assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns

A. Orange Water and Sewer Authority and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners,

successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 Severability

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Orange Water and Sewer Authority and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 Notices and Communications

A. All notices and other communications required or permitted by Contract shall be in writing and shall be given by personal delivery, email, or certified United States mail (return receipt requested) addressed/email as follows:

To Orange Water and Sewer Authority:
Attention: SIMON LOBDELL, PE
Utilities Engineer
Orange Water and Sewer Authority
400 Jones Ferry Road
Carrboro, North Carolina 27510

To the Contractor:
Attention: _____

Firm Name: _____
Street Address: _____
City, State Zip Code: _____
Phone Number: _____
Email: _____

B. A change of address, email, or person to receive notices or communications may be made by either party by notice given to the other party. Any notices or communications under Contract shall be deemed given at the time of actual delivery, if it is personally delivered or faxed. If the notices or communications are sent by United States mail, it shall be deemed given upon the third calendar day following the day on which the notices or communications were postmarked, or upon actual delivery, whichever first occurs.

10.06 Technical Data and Other Work

A. Subsurface and Physical Conditions
No reports of explorations or tests of subsurface conditions at or contiguous to the Site are known to Orange Water and Sewer Authority or Engineer, that are not included with these documents as an Appendix.

B. Hazardous Environmental Condition

No reports or drawings related to Hazardous Environmental Condition are known to Orange Water and Sewer Authority or Engineer.

C. Other Work
Orange Water and Sewer Authority and Engineer are unaware of any other work on the Site at the time of Notice to Proceed.

10.07 Contractor's Liability Insurance

A. Workers compensation insurance shall cover employers' liability, $1,000,000.
B. Automobile liability insurance shall have a combined single limit not less than $1,000,000 per occurrence; aggregate limit not less than $2,000,000 per year.
C. The policies of insurance required by the General Conditions shall have a combined single limit not less than $1,000,000 per occurrence; aggregate limit not less than $2,000,000 per year.
D. An Excess Liability Policy naming the contractor or other person who will be performing the activity as insured and also naming Orange Water and Sewer Authority and the Engineer as an additional insured in an amount not less than **$5,000,000.00** for bodily injury, personal injury, property damage and products completed operations. (Coverage shall be at least as broad as provided for in the most current version of the Insurance Services Office Form applicable to such policy.)
E. Professional liability insurance coverage self-insured retentions/deductibles in excess of $10,000 must be approved by Orange Water and Sewer Authority's Finance Director.
F. Professional liability insurance coverage shall have a combined single limit not less than $2,000,000 per claim applicable to this Contract.
G. Wherever in this Article the terms "The Insured" and OWNER occurs with respect to coverage in a policy, it shall mean Orange Water and Sewer Authority and its agent and agencies, all municipalities where work is being performed under the Contract, the Engineer, and any other parties specifically designated herein, who shall be named as insured in each policy issued. The insurance policies required herein shall not contain any Third Party Beneficiary Exclusion.

CERTIFICATE OF INSURANCE
(Attach)

See Article 5 of the General Conditions and Article 10.07 herein above for specific requirements.

POWER OF ATTORNEY

(Attach)

ARTICLE 11 - CERTIFICATE OF ATTORNEY

I hereby certify that I am the duly appointed attorney for Orange Water and Sewer Authority and that I have examined the foregoing instrument and Bond, and insurance documents and I have approved the same as being legal and in proper form.

This _____ day of _____, 20___.

_____
AUTHORITY GENERAL COUNSEL

ARTICLE 12 - CERTIFICATE OF PAYMENTS

I hereby certify that I am the legal and duly appointed Financial Officer for Orange Water and Sewer Authority and that provision for the payment of the moneys to fall due under this agreement has been made by appropriation duly made or by Bonds or notes duly authorized, as required by the Local Government and Fiscal Control Act.

This _____ day of _____, 20___.

BY: _____
DIRECTOR OF FINANCE AND
CUSTOMER SERVICE

ARTICLE 13 - CONTRACTOR'S AFFIDAVIT

STATE OF _____

COUNTY OF _____

FOR CORPORATIONS:

THIS IS TO CERTIFY that on this day _____ appeared before me, with whom I am personally acquainted, who, being duly sworn, says that he or she* is the _____ (title of signatory party) and that _____ (name of attesting party) is the Assistant* Secretary of _____, the Corporation described in and which executed the foregoing Contract; that he or she* knows the common seal of said corporation; that the seal affixed to the said instrument is said common seal; that the name of the corporation was subscribed thereto by the said Vice* President and that the said Vice* President and Assistant* Secretary-subscribed their names thereto and said common seal was affixed, all by order of the Board of Directors of said Corporation, and said instrument is the act and Deed of said Corporation.

FOR PARTNERSHIPS AND INDIVIDUALS:

THIS IS TO CERTIFY that on this day _____ appeared before me, with whom I am personally acquainted, who, being duly sworn, says that he or she* is the Owner or Partner* of _____, the entity described in and which executed the foregoing Contract; and that if a Partner, he or she* attests that the consent of all partners was attained before executing said Contract.

Witness my hand and notarial seal, this the ___ day of _____, 20__

_____
Notary Public

My commission expires: _____

* Strike as needed

ARTICLE 14 - OWNER'S AFFIDAVIT

STATE OF _____

COUNTY OF _____

THIS IS TO CERTIFY that on this day Ed Kerwin _____personally appeared, and acknowledged before me that he is the _____, of Orange Water and Sewer Authority, and that, by authority of the Board of its Directors, (he or she*) executed the foregoing document on its behalf, as its act and deed.

Witness my hand and notarial seal, this the ___ day of _____, 20__

_____
Notary Public

My commission expires: _____

ARTICLE 15 - CONTRACT SIGNATURES

IN WITNESS WHEREOF, said Individual, Partnership, or Corporation (circle one) has caused these presents to be signed in its corporate name, its corporate seal to be hereto affixed and attested by its secretary, and the Owner has caused these presents to be executed in its name by the Executive Director, attested by its Secretary and its Official Corporate Seal to be affixed all by order of its Board of Directors as of the day and year first above written.

Individuals or Partnerships Sign Below

Printed Legal Name of Individual or Partners: Signature(s):

_____ _____ (SEAL)

_____ _____ (SEAL)

_____ _____ (SEAL)

ATTEST:

_____ _____

Secretary Partnership Name (if applicable)

Corporations Sign Below

Name of Corporation: _____

ATTEST Signature: _____

_____ Title: _____

Corporate Secretary or Assistant Secretary

(SEAL) Officer's Printed Name: _____

OWASA Sign Below

ORANGE WATER AND SEWER AUTHORITY

By:_____

Ed Kerwin, Executive Director

IMPORTANT: If the Contractor is a Corporation, the legal name of the Corporation shall be set forth above, together with the signature of the officer or officers authorized to sign Contracts on behalf of the Corporation; if Contractor is a partnership, the true name of the firm shall be set forth above, together with the signatures of all the partners; and if Contractor is an individual, his signature shall be placed above. If signature is by an agent other than an officer of a Corporation or a member of a partnership, a Power of Attorney must be attached hereto. Signature of Owner and Contractor shall also be acknowledged before a Notary Public or other person authorized by law to execute such acknowledgment on the Owner's and Contractor's Affidavits which are found under Article 13 and Article 14 herein above this page.

PERFORMANCE BOND AND PAYMENT BOND

Date of Contract: _____

Contract Name and Number: **WEST CAMERON AVENUE WATER MAIN REPLACEMENT – PHASE 1, CIP # 275-52**

Name of Principal (Name of Contractor): _____

_____

Name of Surety: _____

_____

Name and Address of Surety's North Carolina Resident Agent: _____

_____

Contracting Body: Orange Water and Sewer Authority

Amount of Performance Bond (in words and numerals): _____

_____ dollars ($_____)

Amount of Payment Bond: same dollar amount as the dollar amount of Performance Bond.

Date of Execution of these Bonds: _____

* *

KNOW ALL PERSONS BY THESE PRESENTS, that we, the PRINCIPAL AND SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, administrators, and successors, jointly and severally, by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal entered into a certain Contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said Contract during the original term of said Contract and any extensions thereof that may be granted by the Contracting Body, with or without notice to the Surety, and during the life of any guaranty required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said Contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue. As used hereinabove,

"modifications" shall include, without limitation, changes (including, without limitation, changes granting extensions of time) and additions to with respect to the Work, scope of work, and specifications.

* *

KNOW ALL PERSONS BY THESE PRESENTS, that we, the PRINCIPAL AND SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal entered into a certain Contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the Principal shall promptly make payment to all persons supplying labor and material in the prosecution of the Work provided for in said Contract, and any and all duly authorized modifications of said Contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue. As used hereinabove, "modifications" shall include, without limitation, changes (including, without limitation, changes granting extensions of time) and additions to or with respect to the Work, scope of work, and specifications.

* *

The Performance Bond and the Payment Bond are being combined here only for purposes of convenience in signing and acknowledging and the obligations of the Principal and of the Surety are the same as if the bonds were on separate documents. Each bond is in the dollar amount stated above, and the amounts of these bonds are not combined. The Surety agrees that both of these bonds are fully binding on it whether or not the Principal executes these bonds. These bonds are given pursuant to Article 3 of Chapter 44A of the North Carolina General Statutes.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument (for both the Performance Bond and the Payment Bond) under their several seals on the date of execution indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

ATTEST:

_____	_____
Principal Secretary (SEAL)	Principal
	By: _____(1)
	By: _____(1)
	By: _____(1)
	_____ (Address)
_____	_____
Witness as to Principal	(Phone Number)
_____	
	_____ (Surety)

ATTEST:

_____	By: _____
North Carolina Resident Agent (SEAL)	Attorney-in-Fact
_____	_____
Witness as to Surety	(Address)
_____	_____
(Address)	(Phone Number)

(1) If Contractor is a Partnership, all partners should execute Bond

(Note: If you use a raised corporate seal, press hard enough to make it legible.)

PERFORMANCE AND PAYMENT BOND - POWER OF ATTORNEY

(Attach)

ACKNOWLEDGEMENT OF CONTRACTOR'S EXECUTION OF CONTRACT, PERFORMANCE BOND AND PAYMENT BOND

State of _____ County of _____

I, _____, a notary public for the aforesaid county and state, certify that personally appeared before me this day, and acknowledged that he or she is _____ Secretary of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing (1) Contract with Orange Water and Sewer Authority and (2) Performance Bond and Payment Bond with respect to the Contract, were signed in its name by its _____President, whose name is _____ _____, sealed with its corporate seal, and attested by him/herself as its said Secretary or Assistant Secretary.

This the ____ day of _____ .

_____
NOTARY PUBLIC

My commission expires: _____

ACKNOWLEDGEMENT OF SURETY'S EXECUTION OF PERFORMANCE BOND AND PAYMENT BOND

State of _____ County of _____

I, _____, a Notary Public for said county and state, certify that _____, personally appeared before me this day and acknowledged that he or she is Attorney in Fact for _____, the Surety named in the foregoing Performance Bond and Payment Bond, in both of which bonds the contracting body is Orange Water and Sewer Authority, and that he or she executed said bonds, under the seal of said Surety, on behalf of said Surety.

This the ____ day of _____ .

_____
NOTARY PUBLIC

My commission expires: _____

NON-DISCRIMINATION CLAUSE

It is specifically agreed as part of the consideration of the signing of this Contract that the parties hereto, their agents, officials, employees or servants will not discriminate in any manner on the basis of age, handicap, race, color, creed, sexual orientation or national origin with reference to the subject matter of this Contract, no matter how remote.

This provision being incorporated for the benefit of the Orange Water and Sewer Authority and its residents may be enforced as set out in said ordinances; enforcement of this provision shall be by action for specific performance, injunctive relief, or other remedy as by law provided.

This provision shall be binding on the successors and assigns of the parties hereto with reference to the subject matter of this Contract.

SIGNATURE FOR CORPORATION

_____
Corporate Name

ATTEST:

_____ BY: _____
Secretary* / Assistant Secretary* President* / Vice President*

_____ _____
(Printed Name) (Printed Name)

(Corporate Seal)

INDIVIDUAL OR PARTNERSHIP SIGNATURE

BY: _____(SEAL)
(Printed Name)

WITNESS:

_____

_____
(Printed Name)

*choose one

-END OF DOCUMENT-

DAVIS-BACON WAGE DETERMINATION

NC-80 – Heavy, Orange County, 2020 version

"General Decision Number: NC20200080 01/03/2020

Superseded General Decision Number: NC20190080

State: North Carolina

Construction Type: Heavy

Counties: Chatham, Durham, Edgecombe, Greene, Nash, Orange, Person, Pitt and Wayne Counties in North Carolina.

HEAVY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at https://protect-us.mimecast.com/s/yw9dCW6oxyu5MPZVsKRQ0-?domain=dol.gov.

Modification Number	Publication Date
0	01/03/2020

SUNC2011-061 08/26/2011

	Rates	Fringes
CARPENTER, Includes Form Work	$ 13.98	0.69
ELECTRICIAN.....	$ 15.41	3.13
LABORER: Common or General.....	$ 10.35	2.84
LABORER: Pipelayer.....	$ 12.70	2.04
OPERATOR: Backhoe/Excavator/Trackhoe.....	$ 16.16	3.18
OPERATOR: Bulldozer.....	$ 14.63	0.00
OPERATOR: Loader.....	$ 15.13	2.79
TRUCK DRIVER.....	$ 13.12	1.89

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://protect-us.mimecast.com/s/yw9dCW6oxyu5MPZVsKRQ0-?domain=dol.gov.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination

* a survey underlying a wage determination

* a Wage and Hour Division letter setting forth a position on a wage determination matter

* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations

Wage and Hour Division

U.S. Department of Labor

200 Constitution Avenue, N.W.

Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator

U.S. Department of Labor

200 Constitution Avenue, N.W.

Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U.S. Department of Labor

200 Constitution Avenue, N.W.

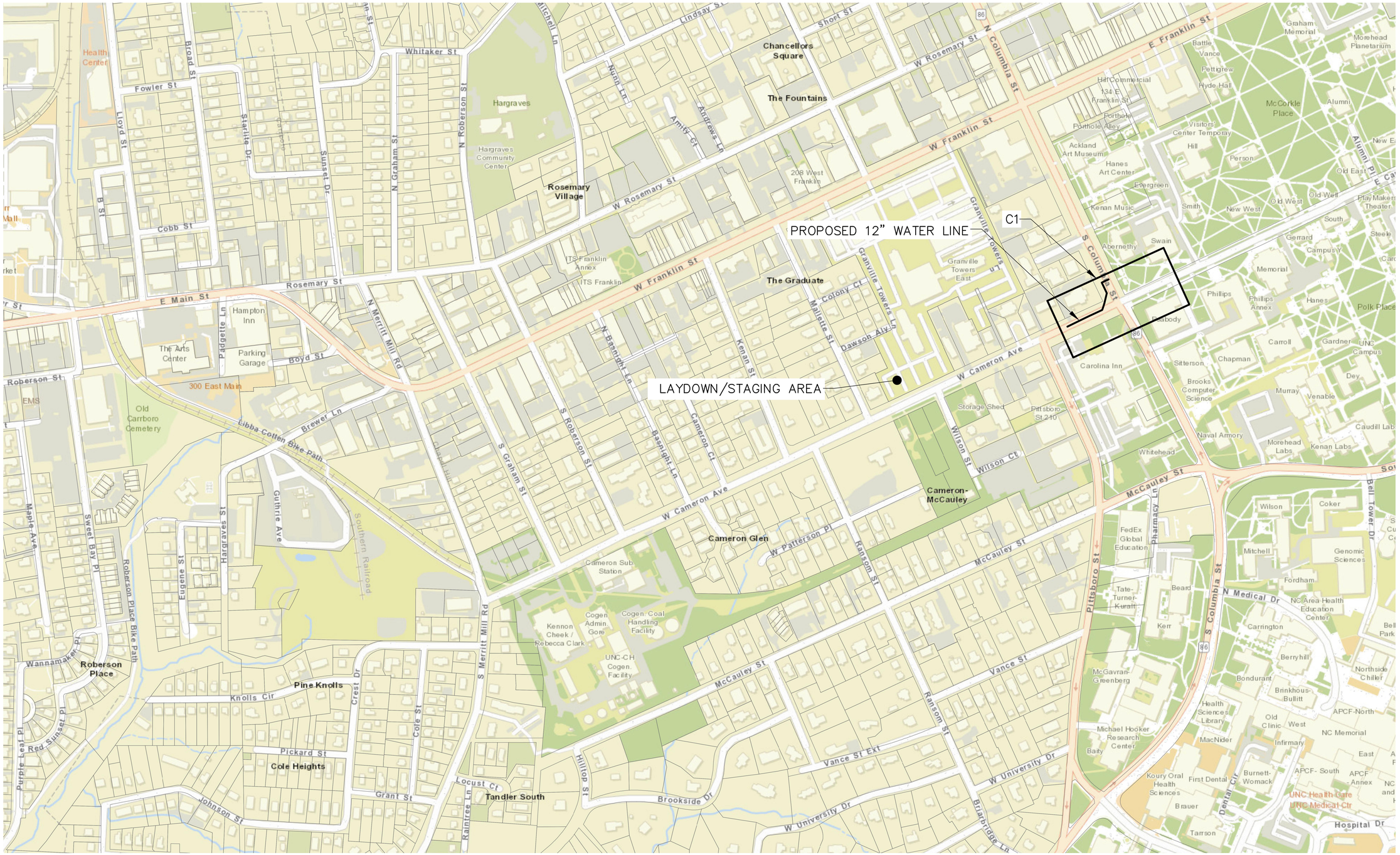
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISION

"



PLAN VIEW
HORIZ: 1"=200'

200' 0 200' 400'
SCALE: 1"=200' (Horiz.)

REV.NO.	DESCRIPTION	DATE
F	FINAL DRAWINGS - ISSUED FOR BID - REVISED PER ADDENDUM No. 02 - NOT RELEASED FOR CONSTRUCTION	06/05/20
E	FINAL DRAWINGS - ISSUED FOR BID - REVISED PER ADDENDUM No. 01 - NOT RELEASED FOR CONSTRUCTION	06/01/20
D	FINAL DRAWINGS - ISSUED FOR BID - NOT RELEASED FOR CONSTRUCTION	05/21/20
C	FINAL DRAWINGS - FOR REVIEW PURPOSES ONLY - NOT RELEASED FOR CONSTRUCTION	05/21/20
B	FINAL DRAWINGS - FOR REVIEW PURPOSES ONLY - NOT RELEASED FOR CONSTRUCTION	05/19/20
A	60% DESIGN - NOT FOR CONSTRUCTION	04/09/20

REVISIONS

NORTH CAROLINA PROFESSIONAL SEAL 047890 ENGINEER NISHA THURUTHY
Nisha Thuruthy 6/5/2020

McKIM&CREED
Venture IV Building, Suite 500
1730 Varsity Drive
Raleigh, North Carolina 27606
Phone: (919) 233-8091, Fax: (919) 233-8031
NC License# F-1222
www.mckimcreed.com

OWASA

WEST CAMERON AVENUE WATER MAIN REPLACEMENT - PHASE 1 - NC DWI PROJECT NO. WIF 1981

GENERAL

SHEET INDEX MAP

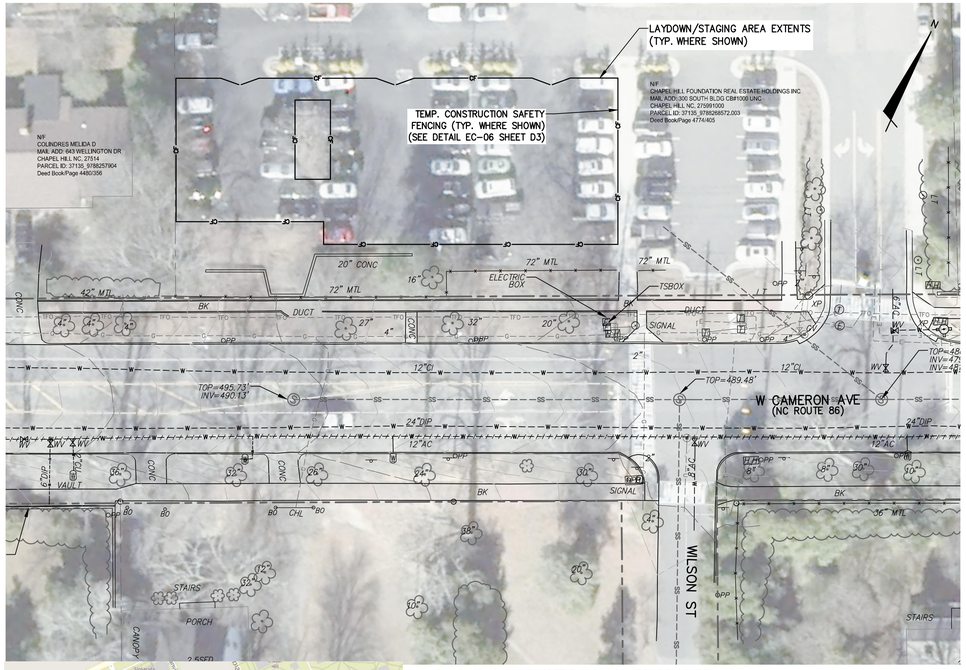
PROJ. START DATE:	2020.JAN
MCE PROJ. #	01519-0049
DRAWN	DWH
DESIGNED	NT
CHECKED	NT
PROJ. MGR.	AJP

SCALE
HORIZONTAL: 1"=200'
VERTICAL: 1"=3'

G3
DRAWING NUMBER
F
REVISION

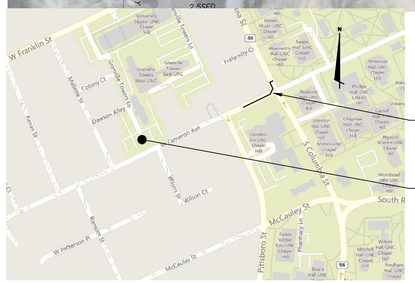
STATUS: FINAL DRAWINGS ISSUED FOR BID NOT RELEASED FOR CONSTRUCTION

I:\01519\0049\80-DRAWINGS\GENERAL\G.13-015190049-COLUMBIA-SHEETINDEXMAP.DWG 06/04/2020 17:17:46 DAVID HAMMOND



LAYDOWN/ STAGING PLAN VIEW

HORIZ: 1"=30'

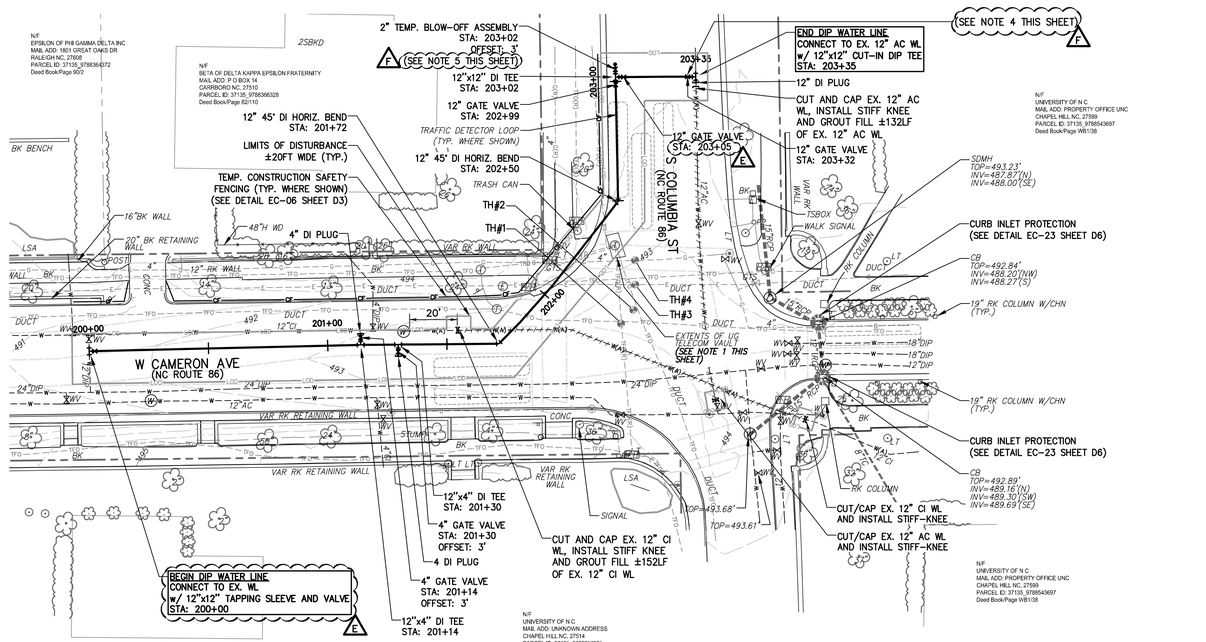


VICINITY MAP

N.T.S.

NOTES:
1. CONTRACTOR SHALL LOCATE EXTENTS OF EXISTING UNDERGROUND TELECOMMUNICATIONS VAULT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF CONFLICT BETWEEN EXISTING VAULT AND PROPOSED PIPELINE ARISES.
2. SEE SHEET G2 FOR SUE QLA TEST HOLE DATA.
3. EXISTING ROAD PAVING CONDITIONS CONSISTS OF 3 INCHES OF ASPHALT OVER 7 INCHES OF CONCRETE IN PROJECT AREA PER THE FINDINGS WITHIN THE SUE QLA TEST HOLES.
4. TO LIMIT DISRUPTION TO THE EXISTING WATER SYSTEM, THE CONNECTION TO AND CUT/CAP OF THE EXISTING AC WATER LINE AT STA. 203+35 IS TO BE MADE IN ONE SINGLE SHUTDOWN. THE CONTRACTOR WILL HAVE THE OPTION OF COMPLETING THE CONNECTION TO AND CUT/CAP OF THE EXISTING AC WATER LINE PRIOR TO ACCEPTANCE OF THE NEW WATER LINE BY OWASA BY USE OF THE NEW VALVE AT STA. 203+32 TO PROVIDE ISOLATION BETWEEN THE NEW AND EXISTING WATER LINES; HOWEVER, STANDARD OWASA TESTING PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS WILL BE REQUIRED.
5. CONTRACTOR TO TEMPORARILY EXTEND 2" BLOW-OFF PIPE AT STA. 203+02 OUTSIDE THE PAVED SURFACE OF SOUTH COLUMBIA STREET FOR SAMPLING PURPOSES. INSTALL TEMPORARY SAMPLING POINT PER OWASA STANDARD DETAIL 514.07

F

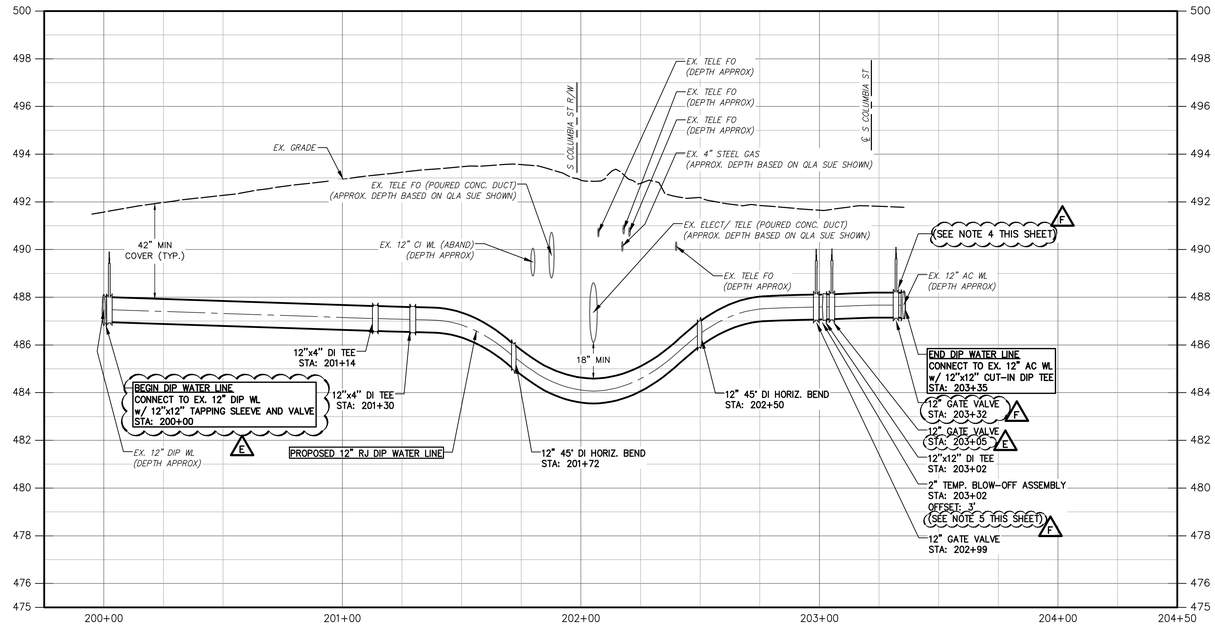


PROPOSED WATER LINE PLAN VIEW

HORIZ: 1"=30'

30' 0 30' 60'

SCALE: 1"=30' (Horiz.)



PROFILE VIEW

HORIZ: 1"=30'

VERT: 1"=3'

3' 0' 3' 6'

SCALE: 1"=3' (Vert.)

REV.NO.	DESCRIPTION	DATE
F	FINAL DRAWINGS - ISSUED FOR BID - REVISED PER ADDENDUM No. 02 - NOT RELEASED FOR CONSTRUCTION	06/05/20
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A	60% DESIGN - NOT FOR CONSTRUCTION	04/09/20

REVISIONS

NORTH CAROLINA PROFESSIONAL ENGINEER 047890 NISHA THURUTHY 6/5/2020

McKIM&CREED
Venture IV Building, Suite 500
1730 Varsity Drive
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OWASA

WEST CAMERON AVENUE WATER LINE REPLACEMENT - PHASE 2 - NC DWI PROJECT NO. WIF 1981

CIVIL

W CAMERON AVE AND S COLUMBIA ST

PROJ. START DATE:	2020.JAN
MCE PROJ. #	01519-0049
DRAWN	DWH
DESIGNED	NT
CHECKED	NT
PROJ. MGR.	AJP

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

C1 DRAWING NUMBER

F REVISION

STATUS: FINAL DRAWINGS ISSUED FOR BID NOT RELEASED FOR CONSTRUCTION

I:\01519\0049\80-DRAWINGS\CIVIL\CU.01-015190049-WCAMERONPWL-SHEET.BASE.DWG 06/05/2020 10:22:32 DAVID HAMMOND

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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

PROJ. REFERENCE NO.	SHEET NO.
20183	TMP-1

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LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL
- TEMPORARY PAVEMENT
- USER DEFINED (IF NEEDED)

SIGNALS

EXISTING PROPOSED TEMPORARY (TEMP)

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN
- PORTABLE CONCRETE BARRIERS

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

APPROVED: William J. Hamilton
DocuSigned by: A0560D704648484...
DATE: 6-5-2020

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD DRAWINGS & LEGEND

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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) ALLOWABLE LANE CLOSURE HOURS FOR WEST CAMERON AVENUE AND SOUTH COLUMBIA STREET ARE AS FOLLOWS DURING THE SPECIFIED PHASES OF TRAFFIC CONTROL:

-TRAFFIC CONTROL PHASE I: MONDAY THRU FRIDAY 9AM TO 7PM, AND UNRESTRICTED STARTING ON FRIDAY AT 9PM THRU MONDAY AT 7AM

-TRAFFIC CONTROL PHASE II STEP A: MONDAY THRU FRIDAY 9AM TO 7PM, AND UNRESTRICTED STARTING FRIDAY AT 9PM THRU MONDAY AT 7AM

-TRAFFIC CONTROL PHASE II STEP B: MONDAY THRU FRIDAY 9AM TO 7PM, AND UNRESTRICTED STARTING FRIDAY AT 9PM THRU MONDAY AT 7AM

-TRAFFIC CONTROL PHASE III STEP A: MONDAY THRU FRIDAY 9AM TO 7PM, AND UNRESTRICTED STARTING FRIDAY AT 9PM THRU MONDAY AT 7AM

-TRAFFIC CONTROL PHASE III STEP B: UNRESTRICTED FROM FRIDAY AT 9PM THRU MONDAY AT 7AM

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

ROAD NAME

WEST CAMERON AVENUE
SOUTH COLUMBIA STREET

HOLIDAY

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 P.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY AND 6:00 A.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 P.M. TUESDAY TO 6:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

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.

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.

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) 250FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER FIVE (5) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

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

N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 250FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

O) 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.

PAVEMENT MARKINGS AND MARKERS

P) 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.

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

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

MISCELLANEOUS

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

APPROVED: William J. Hamilton
A0560D704648484...

DATE: 6-5-2020

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

GENERAL NOTES

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MANAGEMENT STRATEGY

THIS PROJECT CONSISTS OF INSTALLING NEW FRESH WATER LINES ALONG WEST CAMERON STREET FROM PITTSBORO STREET TO SOUTH COLUMBIA STREET. WEST CAMERON STREET WILL OPERATE WITH AT LEAST ONE LANE OF OPPOSING TRAFFIC AT ALL TIMES. CONSTRUCTION ON WEST CAMERON STREET WILL BE DONE DURING ONLY DAYTIME WORK HOURS AND REOPENED WHEN CONSTRUCTION IS DONE FOR THE DAY.

NOTE: FLAGGERS AND TEMPORARY SIGNAGE WILL BE USED THROUGHOUT THE WORK AREA. ENSURE PROPER NCDOT STANDARDS AND TECHNIQUES ARE USED THROUGHOUT THE DURATION OF THE PROJECT.

NOTE: AT THE END OF EACH WORK DAY, INSTALL TEMPORARY PAVEMENT OVER ALL UTILITY CUTS IN ORDER TO ALLOW TRAFFIC TO RETURN TO NORMAL TRAFFIC OPERATION. TRAFFIC BEARING STEEL PLATES MAY BE USED IN LIEU OF TEMPORARY PAVEMENT UPON ENGINEER APPROVAL. THIS MUST BE DONE BEFORE FLAGGERS AND DRUMS ARE REMOVED.

STAGING NOTES

NOTE: ACCESS TO DRIVEWAYS MUST BE MAINTAINED THROUGHOUT PROJECT LIMITS.

NOTE: WHEN REFERENCING THE USE OF FLAGGERS, SEE RSD 1101.02, (SHEET 1 OF 14).

NOTE: MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES IN COMPLIANCE WITH ADA REQUIREMENTS, AS SHOWN IN DETAILS. FOR THE DURATION OF PHASE II - STEP A, SOUTH COLUMBIA STREET PEDESTRIAN TRAFFIC WILL BE ROUTED THROUGH EAST CAMERON AVENUE TO AVOID CONSTRUCTION.

PHASE I

STEP 1 -- INSTALL WORKZONE ADVANCE WARNING SIGNS (ROADWAY DRAWING 1101.01).

STEP 2 -- DURING DAYTIME WORK HOURS, REDUCE WEST CAMERON STREET TO TWO LANES BY CLOSING ALL TURN LANES. LEFT TURNS WILL BE ALLOWED FROM THE THROUGH LANES DURING CONSTRUCTION. ON SOUTH COLUMBIA STREET, CLOSE THE FAR RIGHT SOUTHBOUND LANE TO ALLOW VEHICLES TO TURN ONTO WEST CAMERON AVENUE. FURTHERMORE, CLOSE THE FAR LEFT NORTHBOUND LANE TO PREVENT DUAL LEFT TURNS.

STEP 3 -- USING FLAGGERS AS NECESSARY, RELOCATE UTITLITIES, BEGIN CONSTRUCTION AND PROPOSED INSTALLATION OF FRESH WATER LINES THROUGHOUT THE LIMITS OF PHASE I (SEE TMP-4 TO TMP-5)

USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. CONSTRUCT TEMPORARY SURFACE COURSE AND APPLY TEMPORARY PAVEMENT MARKINGS, AS NEEDED, REMOVE TRAFFIC CONTROL DEVICES, OPEN ALL ROADS TO TRAFFIC AT THE FOLLOW LOCATIONS:

-L- STA. 200+00± TO -L- STA. 201+72± TMP-4

NOTE: PHASE I MUST BE COMPLETED BEFORE MOVING ONTO PHASE II.

PHASE II - STEP A

STEP 1 -- INSTALL WORKZONE ADVANCE WARNING SIGNS (ROADWAY DRAWING 1101.01).

STEP 2 -- DURING DAYTIME WORK HOURS, CLOSE THE TWO OUTER MOST SOUTHBOUND LANES OF SOUTH COLUMBIA STREET FROM FRATERNITY COURT TO WEST CAMERON STREET. ALSO CLOSE THE TWO WESTBOUND LANES ON WEST CAMERON AVENUE. RIGHT TURNS WILL BE ALLOWED FROM THE OPEN SOUTHBOUND LEFT LANE DURING CONSTRUCTION. WESTBOUND TRAFFIC ON WEST CAMERON AVENUE WILL BE ROUTED THROUGH THE EXISTING LEFT TURN LANE. FURTHERMORE, CLOSE THE FAR LEFT NORTHBOUND LANE TO PREVENT DUAL LEFT TURNS.

STEP 3 -- USING FLAGGERS AS NECESSARY, RELOCATE UTITLITIES, BEGIN CONSTRUCTION AND PROPOSED INSTALLATION OF FRESH WATER LINES THROUGHOUT THE LIMITS OF PHASE II (SEE TMP-6 TO TMP-8)

USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. CONSTRUCT TEMPORARY SURFACE COURSE AND APPLY TEMPORARY PAVEMENT MARKINGS, AS NEEDED, REMOVE TRAFFIC CONTROL DEVICES, OPEN ALL ROADS TO TRAFFIC AT THE FOLLOW LOCATIONS:

-L- STA. 201+72± TO -L- STA. 202+50± TMP-6

NOTE: PHASE II - STEP A MUST BE COMPLETED BEFORE MOVING ONTO PHASE II - STEP B.

PHASE II -STEP B

STEP 1 -- DURING DAYTIME WORK HOURS, CLOSE THE TWO OUTER MOST SOUTHBOUND LANES OF SOUTH COLUMBIA STREET FROM FRATERNITY COURT TO WEST CAMERON STREET. RIGHT TURNS WILL BE ALLOWED FROM THE OPEN SOUTHBOUND LEFT LANE DURING CONSTRUCTION. ALL OTHER DIRECTIONS OF TRAVEL WILL NOT BE AFFECTED BY CONSTRUCTION.

STEP 3 -- USING FLAGGERS AS NECESSARY, RELOCATE UTITLITIES, BEGIN CONSTRUCTION AND PROPOSED INSTALLATION OF FRESH WATER LINES THROUGHOUT THE LIMITS OF PHASE II (SEE TMP-9 TO TMP-11)

USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. CONSTRUCT TEMPORARY SURFACE COURSE AND APPLY TEMPORARY PAVEMENT MARKINGS, AS NEEDED, REMOVE TRAFFIC CONTROL DEVICES, OPEN ALL ROADS TO TRAFFIC AT THE FOLLOW LOCATIONS:

-L- STA. 202+50± TO -L- STA. 203+10± TMP-9

NOTE: PHASE II - STEP B MUST BE COMPLETED BEFORE MOVING ONTO PHASE III.

APPROVED: William J. Hamilton
DocuSigned by: A0568D0704E4484...
DATE: 6-5-2020

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

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STAGING NOTES

PHASE III - STEP A

STEP 1 -- INSTALL WORKZONE ADVANCE WARNING SIGNS (ROADWAY DRAWING 1101.01).

STEP 2 -- DURING DAYTIME WORK HOURS, CLOSE THE INNER MOST SOUTHBOUND LANES OF SOUTH COLUMBIA STREET FROM WEST CAMERON STREET TO FRATERNITY COURT. LEFT TURNS WILL BE ALLOWED FROM THE OPEN RIGHT TURN LANE. ALL OTHER DIRECTIONS OF TRAVEL WILL NOT BE AFFECTED BY CONSTRUCTION.

STEP 3 -- USING FLAGGERS AS NECESSARY, RELOCATE UTILITIES, BEGIN CONSTRUCTION AND PROPOSED INSTALLATION OF FRESH WATER LINES THROUGHOUT THE LIMITS OF PHASE III - STEP A (SEE TMP-12 TO TMP-TMP-13)

USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. CONSTRUCT TEMPORARY SURFACE COURSE AND APPLY TEMPORARY PAVEMENT MARKINGS, AS NEEDED, REMOVE TRAFFIC CONTROL DEVICES, OPEN ALL ROADS TO TRAFFIC AT THE FOLLOW LOCATIONS:

-L- STA. 203+10± TO -L- STA. 203+19± TMP-12

NOTE: PHASE III - STEP A MUST BE COMPLETED BEFORE MOVING ONTO PHASE III - STEP B.

PHASE III - STEP B

STEP 1 -- INSTALL WORKZONE ADVANCE WARNING SIGNS (ROADWAY DRAWING 1101.01).

STEP 2 -- DURING NIGHT TIME WORK HOURS, CLOSE THE NORTHBOUND SIDE OF SOUTH COLUMBIA STREET FROM WEST CAMERON STREET TO FRATERNITY COURT. KEEP THE INNER MOST SOUTHBOUND LEFT TURN OF SOUTH COLUMBIA STREET CLOSED. ALL NORTHBOUND TRAFFIC WILL BE SHIFTED ONTO THE CURRENT SOUTHBOUND MIDDLE RIGHT TURN LANE. LEFT TURNS WILL BE ALLOWED FROM THE OUTERMOST SOUTHBOUND RIGHT TURN LANE DURING CONSTRUCTION. IF ADDITIONAL WORKSPACE IS NEEDED, CLOSE INNER LANE AND USE FLAGGERS TO CONTROL TRAFFIC USING ONE SOUTHBOUND LANE.

STEP 3 -- USING FLAGGERS AS NECESSARY, RELOCATE UTILITIES, BEGIN CONSTRUCTION AND PROPOSED INSTALLATION OF FRESH WATER LINES THROUGHOUT THE LIMITS OF PHASE III - STEP B (SEE TMP-13 TO TMP-15)

USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. CONSTRUCT TEMPORARY SURFACE COURSE AND APPLY TEMPORARY PAVEMENT MARKINGS, AS NEEDED, REMOVE TRAFFIC CONTROL DEVICES, OPEN ALL ROADS TO TRAFFIC AT THE FOLLOW LOCATIONS:

-L- STA. 203+19± TO -L- STA. 203+35± TMP-13

NOTE: PHASE III- STEP B MUST BE COMPLETED BEFORE MOVING ONTO PHASE IV.

PHASE IV

STEP 1 -- USING FLAGGERS AS NECESSARY, REPLACE BROKEN INDUCTANCE LOOP DETECTORS, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 2 -- REMOVE ALL TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES.

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DATE: 6-5-2020

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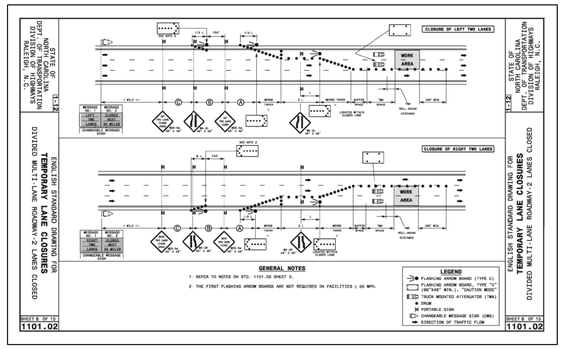
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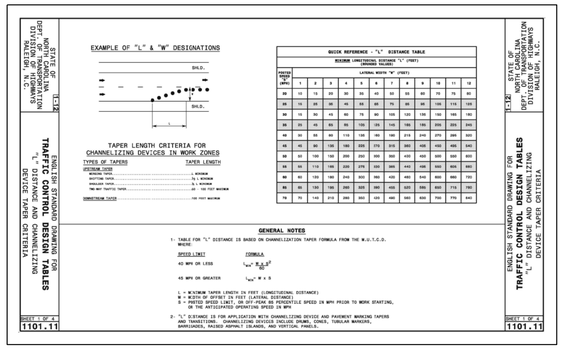
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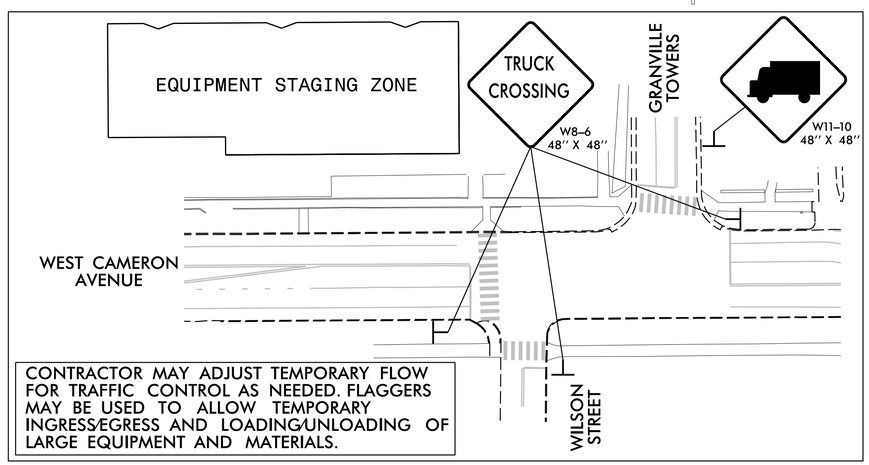


INSET A



INSET B

SEE SHEET TMP-14 FOR MORE DETAILS ON REQUIRED SIGNAGE



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A0560D704648484...

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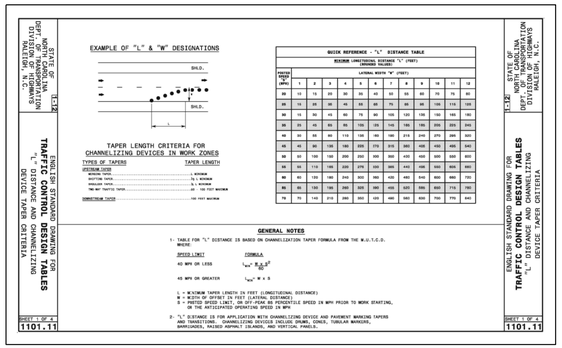
TEMPORARY TRAFFIC CONTROL PHASE I

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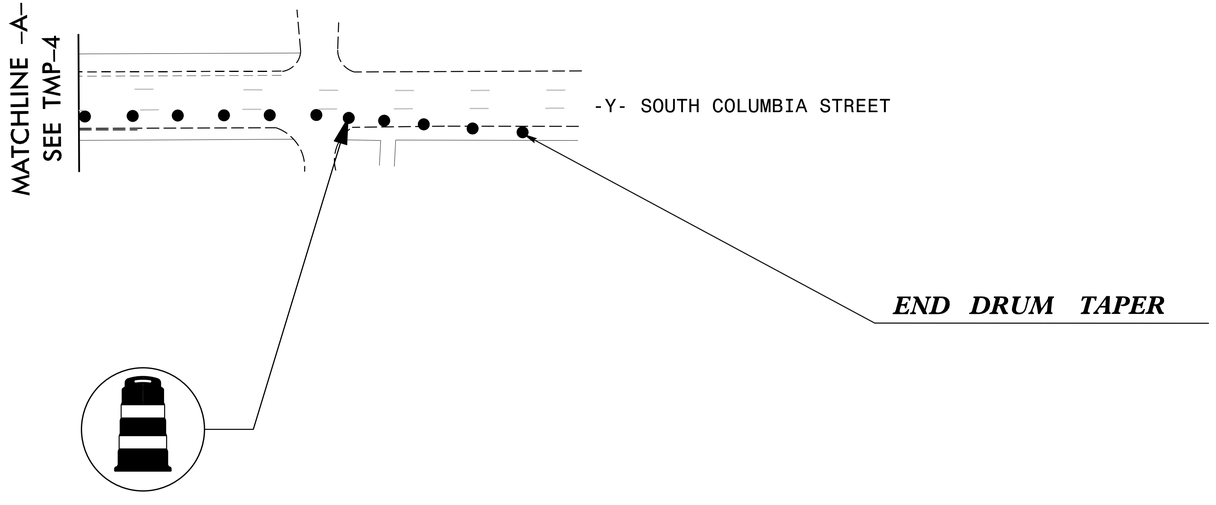
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STANDARD TAPER DISTANCE

NAD 83/95

SEE SHEET TMP-14 FOR MORE DETAILS ON REQUIRED SIGNAGE



APPROVED William J. Hamilton
A0560D7044648484...

DATE: 6-5-2020

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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

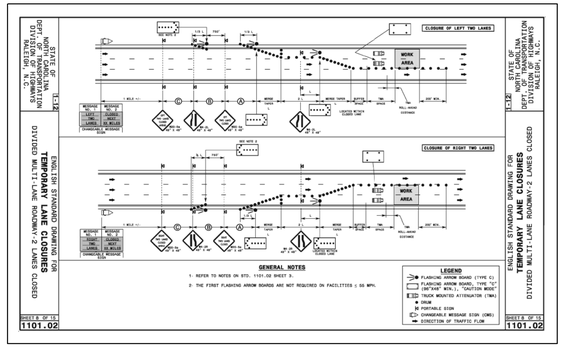
TEMPORARY TRAFFIC CONTROL PHASE I

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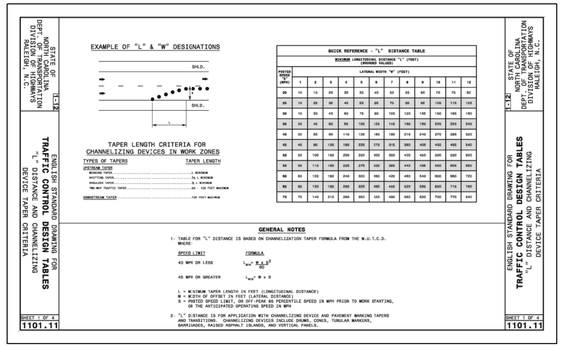
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STANDARD TWO LANE CLOSURES



STANDARD TAPER DISTANCE

PROVIDE DRUMS OR WATER–FILLED JERSEY BARRICADES BETWEEN SOUTHWEST CROSSWALK AND FRATERNITY COURT. DRUMS TO BE REMOVED AT END OF EACH WORK DAY. WATER–FILLED JERSEY BARRIERS TO BE LEFT IN PLACE FOR THE DURATION OF TRAFFIC CONTROL PHASE II – STEP A.

SEE SHEET TMP–15 FOR MORE DETAILS ON REQUIRED SIGNAGE

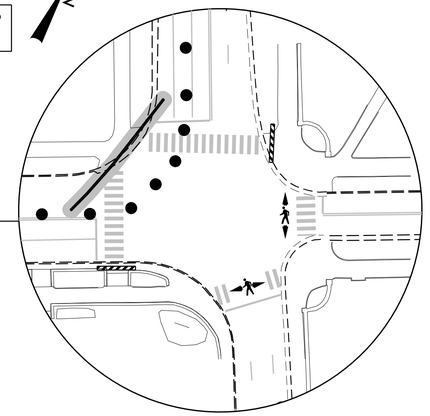
MATCHLINE –B–
SEE TMP–7

–Y– SOUTH COLUMBIA STREET

FRATERNITY COURT

MAINTAIN BUS STOP LOCATION

NAD 83/95



*SEE STAGING NOTES FOR MORE DETAILS ON PEDESTRIAN MOVEMENTS

–L– STA. 202+50 +/–

BEHIND LANE CLOSURE, INSTALL NEW 12" WATERLINE UNDER EXISTING ROADWAY.

–L– STA. 201+72 +/–

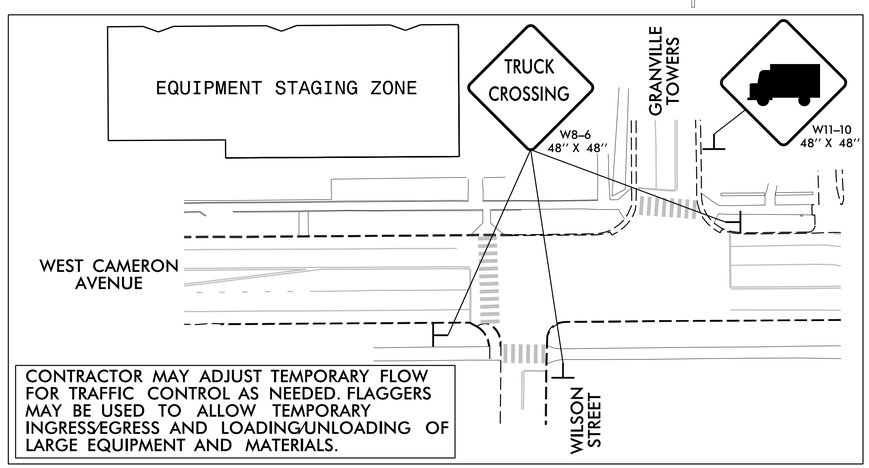
-L- WEST CAMERON AVENUE

-L- EAST CAMERON AVENUE

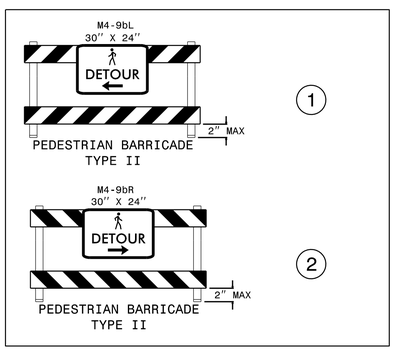
LAW ENFORCEMENT WILL BE USED DURING CONSTRUCTION TO ASSIST VEHICLE AND PEDESTRIAN TRAFFIC.

MATCHLINE –A–
SEE TMP–7

-Y- SOUTH COLUMBIA STREET



CONTRACTOR MAY ADJUST TEMPORARY FLOW FOR TRAFFIC CONTROL AS NEEDED. FLAGGERS MAY BE USED TO ALLOW TEMPORARY INGRESS/EGRESS AND LOADING/UNLOADING OF LARGE EQUIPMENT AND MATERIALS.



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DATE: 6–5–2020

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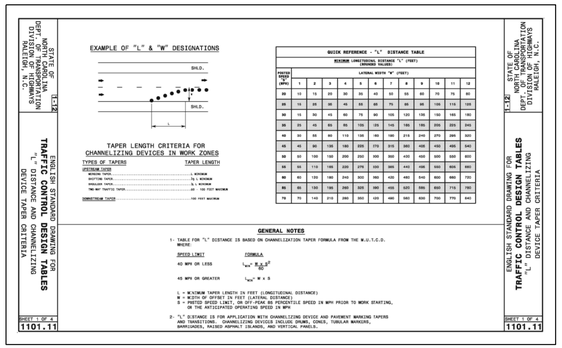
TEMPORARY TRAFFIC CONTROL PHASE II – STEP A

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EXAMPLE OF "L" & "W" DESIGNATIONS

TAPER LENGTH CRITERIA FOR CHANNELIZING DEVICES IN WORK ZONES

TYPES OF TAPERS — TAPER LENGTH

GENERAL NOTES

1. TABLE FOR "L" DISTANCE IS BASED ON CHANNELIZATION TAPER FORMULA FROM THE M.U.T.C.D.
WHERE

SPEED LIMIT	FORMULA
40 MPH OR LESS	$L = \frac{W \times S^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = MINIMUM TAPER LENGTH IN FEET (LONGITUDINAL DISTANCE)
W = WIDTH OF OFFSET IN FEET (LATERAL DISTANCE)
S = POSTED SPEED LIMIT, OR OFF-PEAK 85 PERCENTILE SPEED IN MPH PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

2. "L" DISTANCE IS FOR APPLICATION WITH CHANNELIZING DEVICE AND PAVEMENT MARKING TAPERS AND TRANSITIONS. CHANNELIZING DEVICES INCLUDE DRUMS, CONES, TUBULAR MARKERS, BARRICADES, RAISED ASPHALT ISLANDS, AND VERTICAL PANELS.

QUICK REFERENCE - "L" DISTANCE TABLE
MINIMUM LONGITUDINAL DISTANCE "L" (FEET)
FOR
LATERAL WIDTH "W" (FEET)

POSTED SPEED MPH	1	2	3	4	5	6	7	8	9	10	11	12
30	15	15	20	20	25	30	35	40	45	50	55	60
35	15	20	30	40	50	60	70	80	90	100	110	120
40	15	30	45	60	75	90	105	120	135	150	165	180
45	25	45	65	90	115	135	160	180	205	225	250	270
50	30	50	80	110	140	170	195	225	250	280	305	335
55	40	80	120	160	200	240	280	320	360	400	440	480
60	50	100	150	200	250	300	350	400	450	500	550	600
65	55	110	165	220	275	330	385	440	495	550	605	660
70	70	140	210	280	350	420	490	560	630	700	770	840

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

TMP-1 DISTANCE AND CHANNELIZING DEVICE TAPER CRITERIA

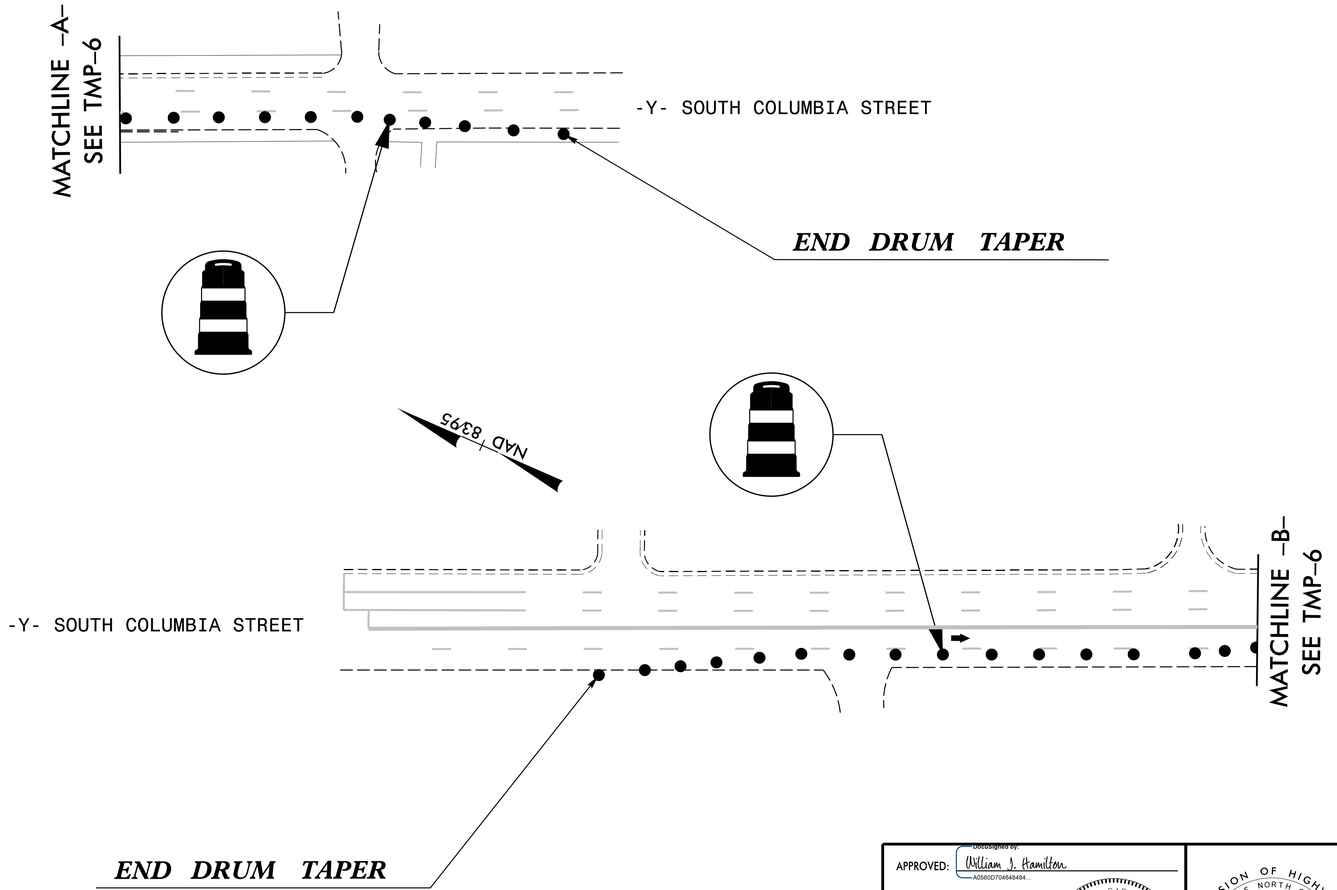
ROADWAY STANDARD DRAWING FOR TRAFFIC CONTROL DESIGN TABLES "L" DISTANCE AND CHANNELIZING DEVICE TAPER CRITERIA

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

SHEET 1 OF 4
1101.11

STANDARD TAPER DISTANCE

SEE SHEET TMP-15 FOR MORE DETAILS ON REQUIRED SIGNAGE



APPROVED: Digitally signed by: William J. Hamilton A0560D704648484...

DATE: 6-5-2020

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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

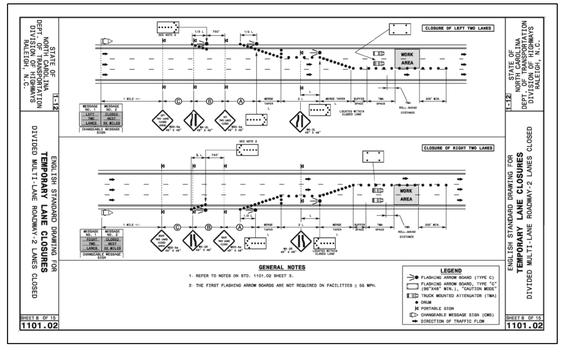
TEMPORARY TRAFFIC CONTROL PHASE II – STEP A

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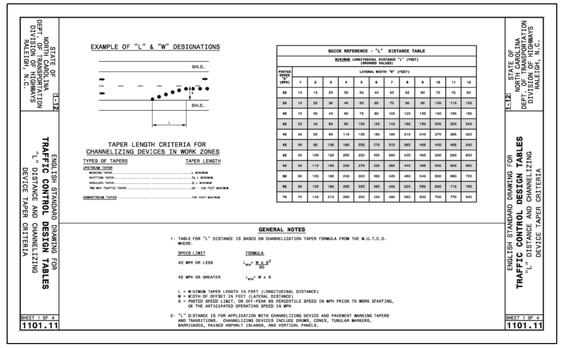
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STANDARD TWO LANE CLOSURES



STANDARD TAPER DISTANCE

SEE SHEET TMP–15 FOR MORE DETAILS ON REQUIRED SIGNAGE

MATCHLINE –A–
SEE TMP–9

–Y– SOUTH COLUMBIA STREET

FRATERNITY COURT

MAINTAIN BUS STOP LOCATION

NAD 83/95

PROVIDE DRUMS OR WATER–FILLED JERSEY BARRICADES BETWEEN SOUTHWEST CROSSWALK AND FRATERNITY COURT. DRUMS TO BE REMOVED AT END OF EACH WORK DAY. WATER–FILLED JERSEY BARRIERS TO BE LEFT IN PLACE FOR THE DURATION OF TRAFFIC CONTROL PHASE II – STEP B.

–L– STA. 203+10 +/–
ENSURE ENOUGH WATERLINE IS INSTALLED TO SAFELY TRANSITION TO PHASE III

BEHIND LANE CLOSURE, INSTALL NEW 12" WATERLINE UNDER EXISTING ROADWAY.

–L– STA. 202+50 +/–

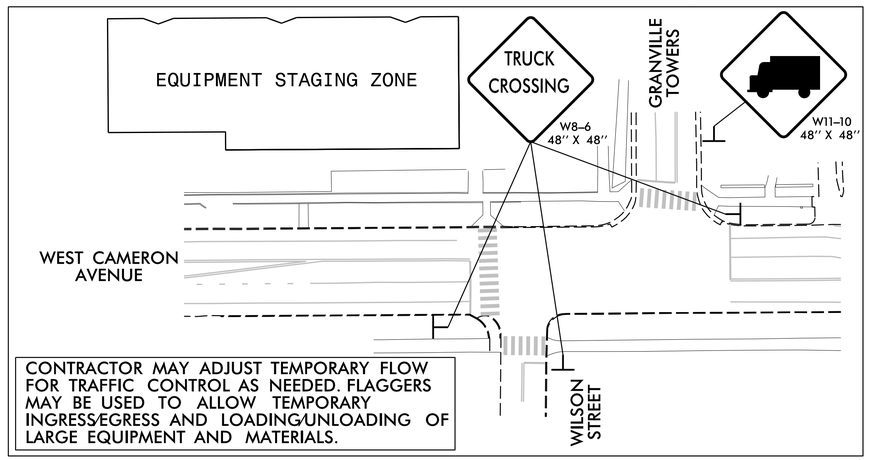
*SEE STAGING NOTES FOR MORE DETAILS ON PEDESTRIAN MOVEMENTS

-L- WEST CAMERON AVENUE

-L- EAST CAMERON AVENUE

-Y- SOUTH COLUMBIA STREET

FLAGGERS WILL BE USED DURING CONSTRUCTION TO ASSIST VEHICLE AND PEDESTRIAN TRAFFIC



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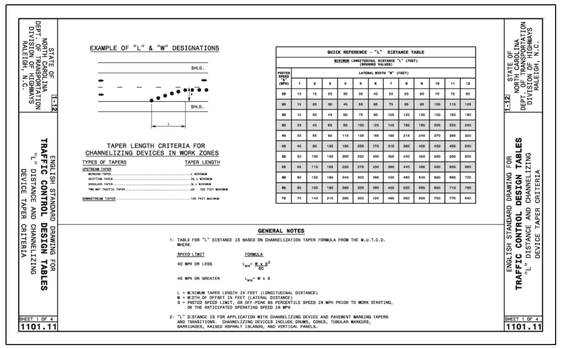
TEMPORARY TRAFFIC CONTROL PHASE II – STEP B

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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

EXAMPLE OF "L" & "W" DESIGNATIONS

SHLD.

SHLD.

L

W

TAPER LENGTH CRITERIA FOR CHANNELIZING DEVICES IN WORK ZONES

TYPES OF TAPERS	TAPER LENGTH
MERGING TAPER	L
SHIFTING TAPER	0.5 L MINIMUM
SHOULDER TAPER	0.5 L MINIMUM
TWO-WAY TRAFFIC TAPER	50 - 100 FOOT MAXIMUM
DOWNSTREAM TAPER	100 FOOT MAXIMUM

GUIDE REFERENCE - "L" DISTANCE TABLE

MINIMUM LONGITUDINAL DISTANCE "L" (FEET)
FOR TAPERS AND TANGENTS

LATERAL WIDTH "W" (FEET)

POSTED SPEED (MPH)	1	2	3	4	5	6	7	8	9	10	11	12
20	10	15	20	30	35	40	50	55	60	70	75	80
25	10	20	30	45	50	60	75	85	95	105	115	125
30	15	30	45	60	75	90	105	120	135	150	165	180
35	20	45	65	90	105	130	150	170	190	210	230	245
40	30	60	80	115	135	165	190	215	240	270	295	320
45	40	80	105	150	180	225	270	310	350	400	450	495	540
50	50	100	135	200	240	300	345	395	445	505	555	610	660
55	60	110	165	220	275	330	395	455	515	580	635	695	750
60	80	130	180	240	300	360	430	495	570	630	695	755
65	80	130	195	260	325	390	455	520	585	650	715	780
70	75	145	215	290	360	430	505	580	650	720	795	870

GENERAL NOTES

1.- TABLE FOR "L" DISTANCE IS BASED ON CHANNELIZATION TAPER FORMULA FROM THE M.U.T.C.D.
WHERE

SPEED LIMIT	FORMULA
40 MPH OR LESS	$L_{MIN} = \frac{W \times S^2}{60}$
45 MPH OR GREATER	$L_{MIN} = W \times S$

L = MINIMUM TAPER LENGTH IN FEET (LONGITUDINAL DISTANCE)
W = WIDTH OF OFFSET IN FEET (LATERAL DISTANCE)
S = POSTED SPEED LIMIT, OR OFF-PEAK 85 PERCENTILE SPEED IN MPH PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

2.- "L" DISTANCE IS FOR APPLICATION WITH CHANNELIZING DEVICE AND PAVEMENT MARKING TAPERS AND TRANSITIONS. CHANNELIZING DEVICES INCLUDE DRUMS, CONES, TUBULAR MARKERS, BARRICADES, RAISED ASPHALT ISLANDS, AND VERTICAL PANELS.

ROADWAY STANDARD DRAWING FOR TRAFFIC CONTROL DESIGN TABLES "L" DISTANCE AND CHANNELIZING DEVICE TAPER CRITERIA

SHEET 1 OF 4
1101.11

STANDARD TAPER DISTANCE

SEE SHEET TMP-15 FOR MORE DETAILS ON REQUIRED SIGNAGE

NAD 83/95

-Y- SOUTH COLUMBIA STREET

MATCHLINE -A-
SEE TMP-8

END DRUM TAPER

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DATE: 6-5-2020

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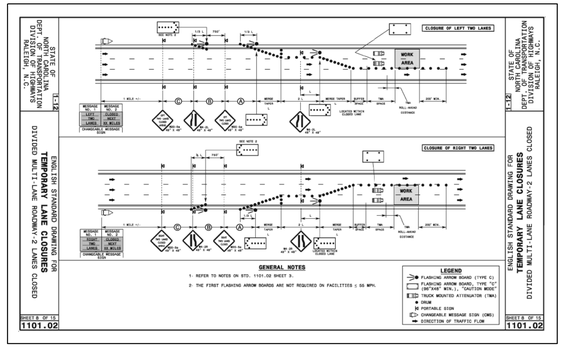
TEMPORARY TRAFFIC CONTROL PHASE II – STEP B

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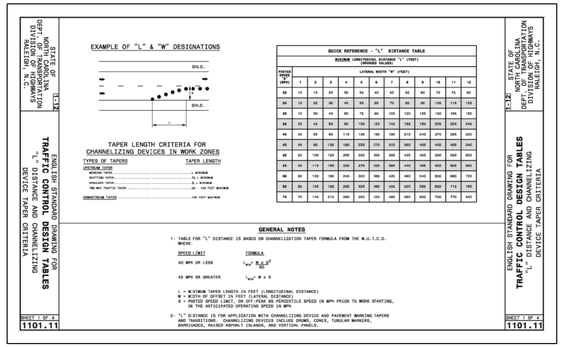
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STANDARD TWO LANE CLOSURES



STANDARD TAPER DISTANCE

SEE SHEET TMP–16 FOR MORE DETAILS ON REQUIRED SIGNAGE

PROVIDE DRUMS OR WATER–FILLED JERSEY BARRICADES BETWEEN SOUTHWEST CROSSWALK AND FRATERNITY COURT. DRUMS TO BE REMOVED AT END OF EACH WORK DAY. WATER–FILLED JERSEY BARRIERS TO BE LEFT IN PLACE FOR THE DURATION OF TRAFFIC CONTROL PHASE III – STEP A.

MATCHLINE –A–
SEE TMP–11

–Y– SOUTH COLUMBIA STREET

FRATERNITY COURT

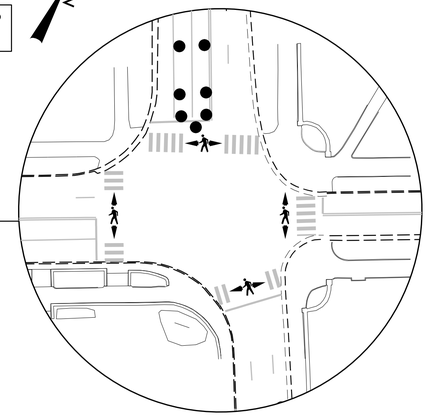
MAINTAIN BUS STOP LOCATION

NAD 83/95

–L– STA. 203+19 +/–

–L– STA. 203+10 +/–

BEHIND LANE CLOSURE, INSTALL NEW 12" WATERLINE UNDER EXISTING ROADWAY.



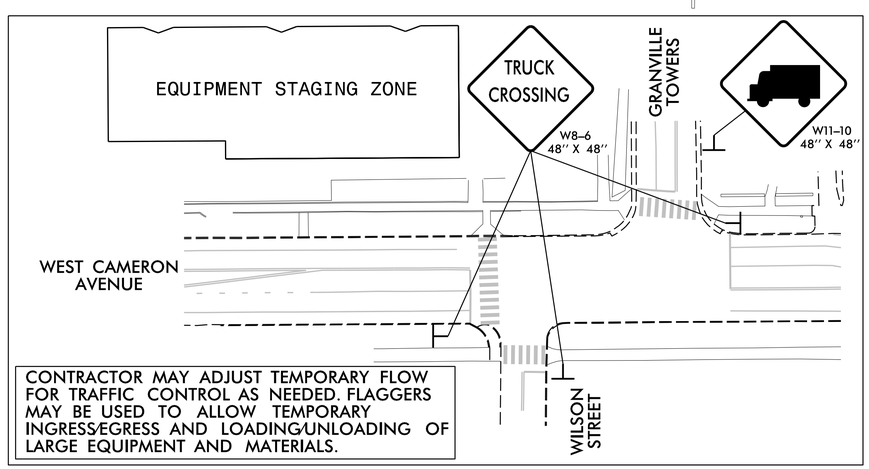
*SEE STAGING NOTES FOR MORE DETAILS ON PEDESTRIAN MOVEMENTS

-L- WEST CAMERON AVENUE

-L- EAST CAMERON AVENUE

-Y- SOUTH COLUMBIA STREET

CLOSE ONE NORTHBOUND THROUGH LANE IF ADDITIONAL WORK SPACE IS NEEDED.



CONTRACTOR MAY ADJUST TEMPORARY FLOW FOR TRAFFIC CONTROL AS NEEDED. FLAGGERS MAY BE USED TO ALLOW TEMPORARY INGRESS/EGRESS AND LOADING/UNLOADING OF LARGE EQUIPMENT AND MATERIALS.

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DATE: 6–5–2020

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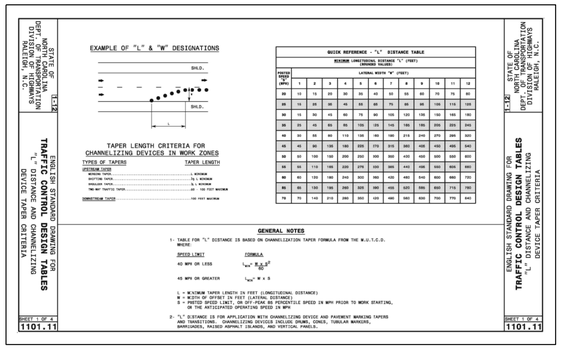
TEMPORARY TRAFFIC CONTROL PHASE III – STEP A

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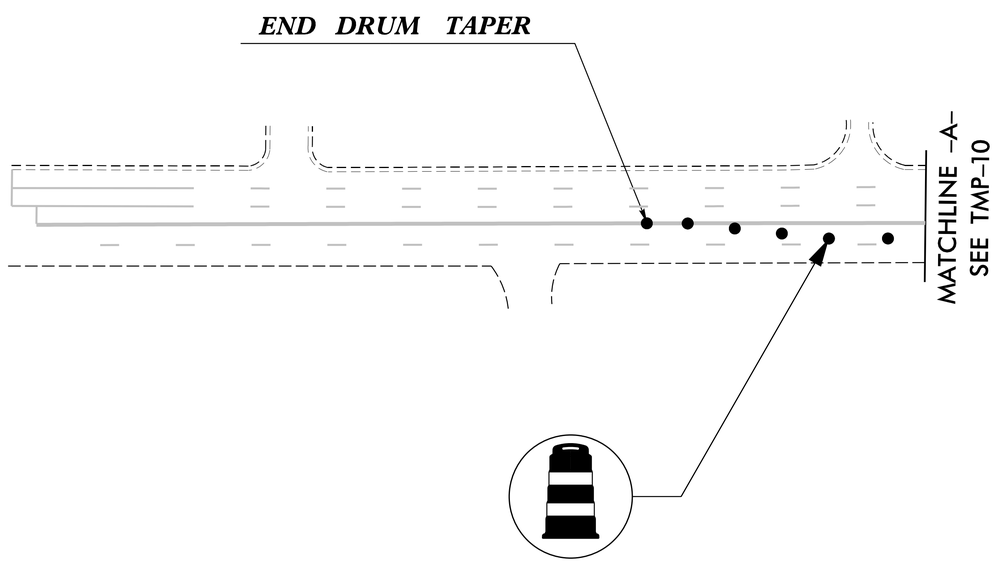
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STANDARD TAPER DISTANCE

SEE SHEET TMP-16 FOR MORE DETAILS ON REQUIRED SIGNAGE

NAD 1983



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Docusigned by:
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DATE: 6-5-2020
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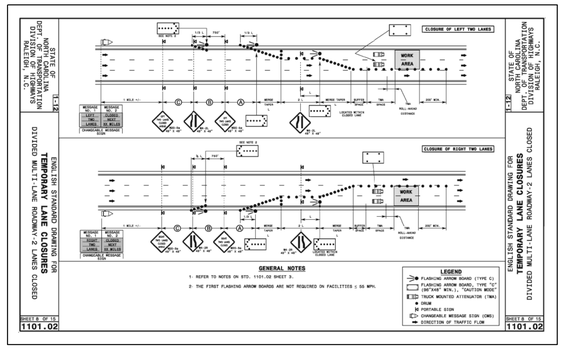
TEMPORARY TRAFFIC CONTROL PHASE III – STEP A

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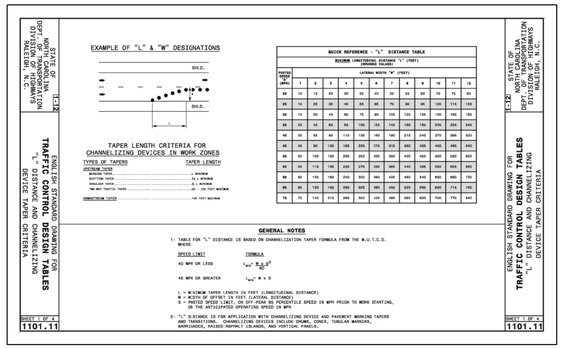
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STANDARD TWO LANE CLOSURES



STANDARD TAPER DISTANCE

SEE SHEET TMP-16 FOR MORE DETAILS ON REQUIRED SIGNAGE

MATCHLINE –B–
SEE TMP–13

-Y- SOUTH COLUMBIA STREET

FRATERNITY COURT

MAINTAIN BUS STOP LOCATION

NAD 83/95

END WEST CAMERON PROJECT
-L- Sta. 203+35 +/-
CONNECT TO EXISTING WATERLINE

-L- STA. 203+19 +/-

BEHIND LANE CLOSURE, INSTALL NEW 12" WATERLINE UNDER EXISTING ROADWAY.

*SEE STAGING NOTES FOR MORE DETAILS ON PEDESTRIAN MOVEMENTS

-L- WEST CAMERON AVENUE

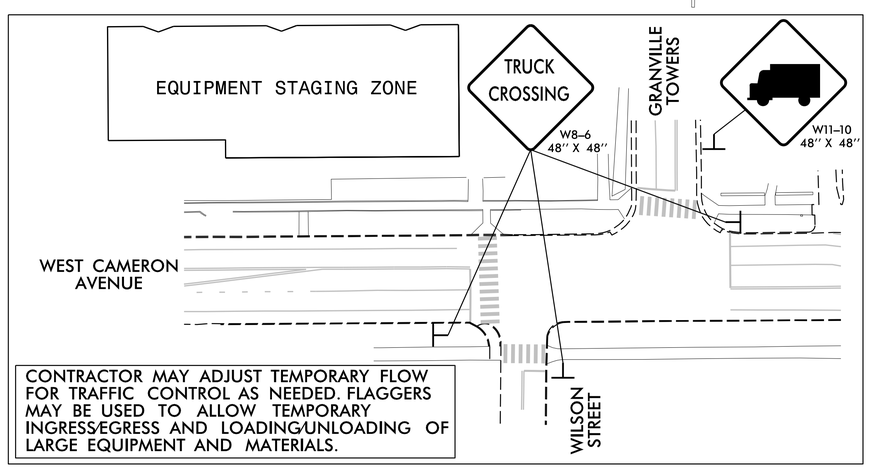
-L- EAST CAMERON AVENUE

CLOSE NORTHBOUND LANE IF NECESSARY AND USE FLAGGERS TO CONTROL MOVEMENTS UTLIZING SOUTHBOUND LANE. REOPEN LANES WHEN SAFE TO DO SO.

LAW ENFORCEMENT WILL BE USED DURING CONSTRUCTION TO ASSIST VEHICLE AND PEDESTRIAN TRAFFIC.

MATCHLINE –A–
SEE TMP–13

-Y- SOUTH COLUMBIA STREET



CONTRACTOR MAY ADJUST TEMPORARY FLOW FOR TRAFFIC CONTROL AS NEEDED. FLAGGERS MAY BE USED TO ALLOW TEMPORARY INGRESS/EGRESS AND LOADING/UNLOADING OF LARGE EQUIPMENT AND MATERIALS.

APPROVED: DocuSigned by: William J. Hamilton A0560D704648484...

DATE: 6-5-2020

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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

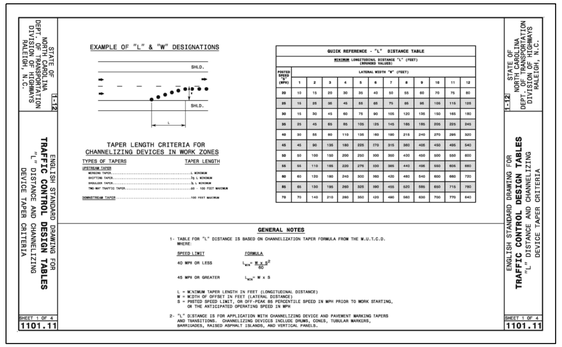
TEMPORARY TRAFFIC CONTROL PHASE III – STEP B

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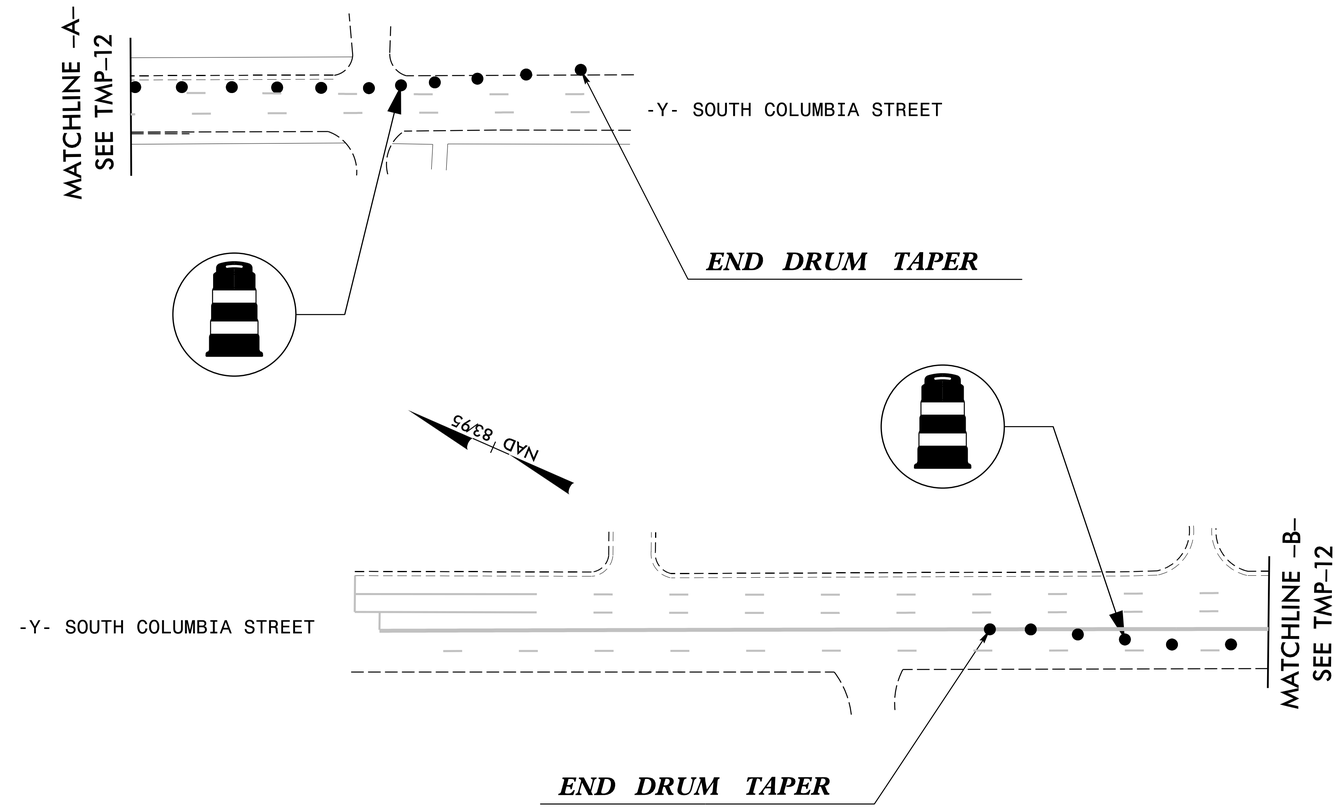
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STANDARD TAPER DISTANCE

SEE SHEET TMP-16 FOR MORE DETAILS ON REQUIRED SIGNAGE



APPROVED: William J. Hamilton
DATE: 6-5-2020
SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

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DIVISION OF HIGHWAYS * STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION * WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL PHASE III – STEP B

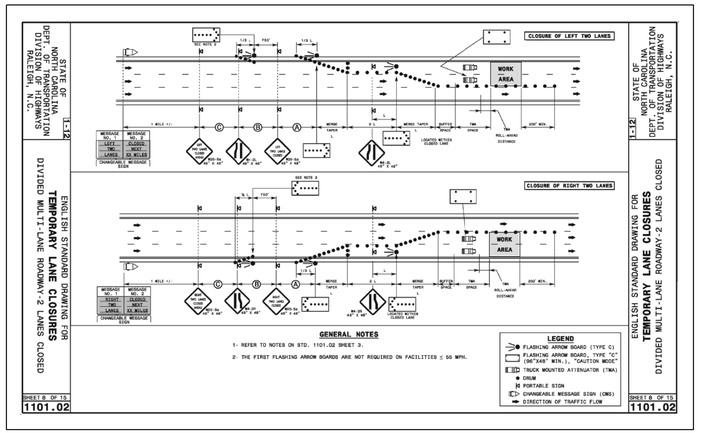
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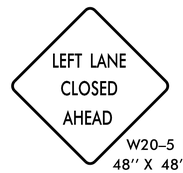
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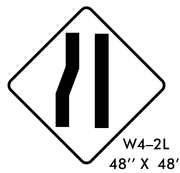






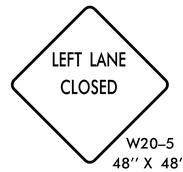
W20-5 L
48" X 48"

1



W4-2L
48" X 48"

2



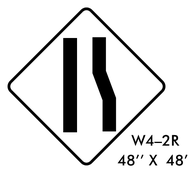
W20-5 L
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3



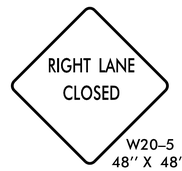
W20-5 R
48" X 48"

4



W4-2R
48" X 48"

5



W20-5 R
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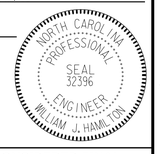
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*ADVANCED WARNING SIGNS ARE TO BE PLACED 200' APART AND 200' IN ADVANCE OF CONSTRUCTION ACCORDING TO NCDOT STANDARD 1101.11 SHEET 4 OF 4

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ADVANCED WARNING SIGNS PHASE I

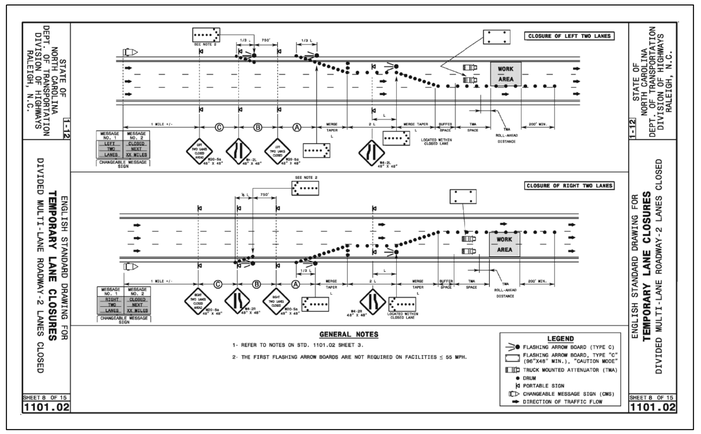
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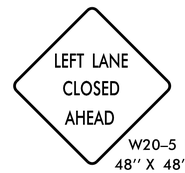
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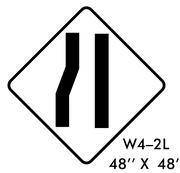






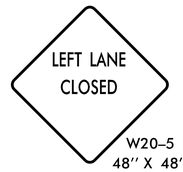
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48'' X 48''

1



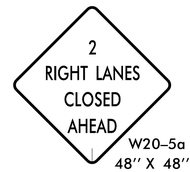
W4-2L
48'' X 48''

2



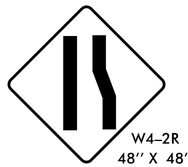
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48'' X 48''

3



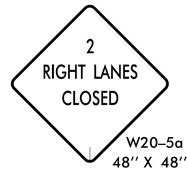
W20-5a
48'' X 48''

4



W4-2R
48'' X 48''

5



W20-5a
48'' X 48''

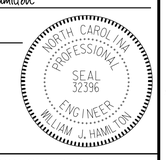
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*ADVANCED WARNING SIGNS ARE TO BE PLACED 200' APART AND 200' IN ADVANCE OF CONSTRUCTION ACCORDING TO NCDOT STANDARD 1101.11 SHEET 4 OF 4

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ADVANCED WARNING SIGNS PHASE II

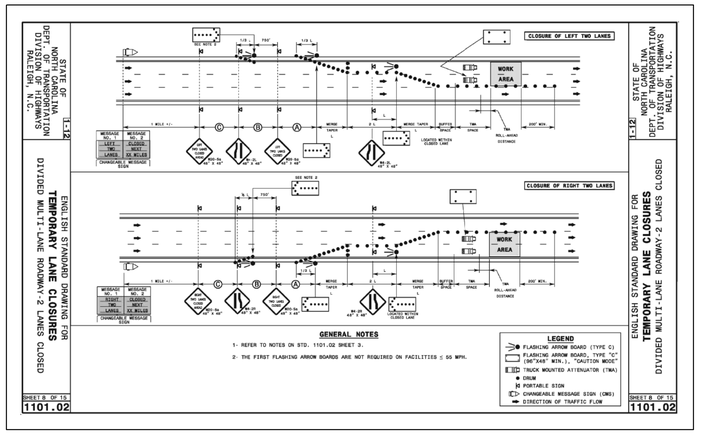
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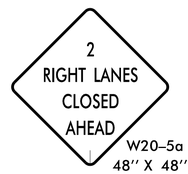
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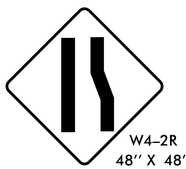






W20-5a
48'' X 48''

1



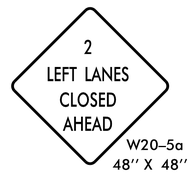
W4-2R
48'' X 48''

2



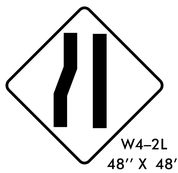
W20-5 R
48'' X 48''

3



W20-5a
48'' X 48''

4



W4-2L
48'' X 48''

5



W20-5 L
48'' X 48''

6

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DATE: 6-5-2020

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ADVANCED WARNING SIGNS PHASE III

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