



City of Rockville
Rockville, Maryland

INVITATION FOR BIDS # 04-23

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT

Bids Due By 02:00 P.M., Tuesday, August 30, 2022

ISSUED BY:

Procurement Division
City of Rockville, City Hall
111 Maryland Avenue
Rockville, Maryland 20850
Phone: (240) 314-8430
Fax: (240) 314-8439

A 5% Bid Bond is required for this Invitation for Bid

Any individual with a disability who would like to receive the information in this publication in another form may contact the ADA Coordinator at 240-314-8100, TDD 240-314-8137

Re-Solicitation

This Invitation for Bid (IFB) is a re-solicitation of IFB 10-22, which was cancelled. Any references to IFB 10-22 contained within this document shall be replaced with IFB 04-23.

MFD Outreach Program

It is the intent of the City of Rockville to increase opportunities for minority, female and disabled (MFD) owned businesses to compete effectively at supplying goods, equipment, and services to the City, within the constraints of statutory purchasing requirements, departmental needs, availability, and sound economical considerations. Suggested changes and MFD enhancements to this solicitation's requirements for possible consideration and/or inclusion in future solicitations are encouraged. Any questions regarding MFD outreach or questions/concerns regarding the City's bidding process should be addressed to Pat Ryan, pryan@rockvillemd.gov or 240-314-8434.

TABLE OF CONTENTS

Section	Contents
I	Announcement, Description and General Information
II	General Terms, Conditions, and Instructions to Bidders
III	Special Provisions
IV	Technical Specifications
V	Bid Packet, Proposal Forms and Sample Documents
VI	<u>Appendix A.</u> City of Rockville Permits <u>Appendix B.</u> Montgomery County, Department of Environmental Protection (DEP) Noise Ordinance <u>Appendix C.</u> Maryland State Highway Administration Standard Details
VII	Drawings



Statement of "No Bid Submittal"

If you do not intend to submit on this requirement, please complete and return this form prior to date shown for receipt of bids to the buyer listed in this IFB by **email only to jpierson@rockvillemd.gov**.

I/WE HAVE DECLINED TO BID ON **IFB # 04-23**, titled **NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT** for the following reason(s): [Please place a check mark (✓) next to the reason(s) as applicable]

(✓)	Reason
<input checked="" type="checkbox"/>	Proposal requirements too "restrictive".
<input type="checkbox"/>	Insufficient time to respond to the Invitation for Bids.
<input type="checkbox"/>	We do not offer this service.
<input type="checkbox"/>	Our schedule would not permit us to perform.
<input type="checkbox"/>	Unable to meet requirements.
<input type="checkbox"/>	Unable to meet insurance or bond requirements.
<input type="checkbox"/>	Scope of Services unclear (please explain below).
<input type="checkbox"/>	Other (please specify below).

REMARKS:

Are you a Minority, Female, or Disabled (MFD) business? Yes No

Company Name: _____

Mailing Address: _____

Telephone Number: _____ Email Address: _____

Authorized Signatory

Printed Name

Title

Date



**CITY OF ROCKVILLE
ROCKVILLE, MARYLAND**

INVITATION FOR BID 04-23

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT

SECURED BIDS will be received electronically via a City designated bid receipt software solution until **TUESDAY, AUGUST 30, 2022 AT 02:00 PM.** The bidder assumes full responsibility for the timely delivery of a bid via the designated solution. Bids delivered in any other fashion will not be considered. Properly submitted bids will be opened in a virtual environment after the time set for receipt of bids and will be read aloud via a City telepresence software solution at the phone number and/or web address provided by the City and contained within this solicitation.

Submission of a bid electronically is consent by the bidder to conduct any or all elements of the procurement by electronic means, in accordance with the terms of this invitation for bid.

Bids presented after the bid receiving deadline will not be received for any reason. The official time clock for receiving bids will be that of the City's third-party software solution provider's computer server system.

ATTENTION: BIDDERS ARE HEREBY NOTIFIED THAT THE CITY'S THIRD-PARTY SOFTWARE SOLUTION PROVIDER'S COMPUTER SERVER TIME MAY DIFFER FROM THAT OF OTHER ELECTRONIC DEVICES, COMPUTER SOFTWARE AND COMPUTER HARDWARE THAT MAY BE USED TO ELECTRONICALLY SUBMIT THE BID. BIDDERS ARE RESPONSIBLE FOR ALLOWING ADEQUATE TIME TO SUCCESSFULLY DELIVER THE BID TO THE REQUIRED ELECTRONIC LOCATION BY THE REQUIRED TIME.

PRE-BID CONFERENCE

There will NOT be a pre-bid conference for this project.

DEADLINE FOR QUESTIONS

Questions pertaining to this bid may be directed to Jonathan Pierson, CPSM, C.P.M., Assistant Director via the City's Collaboration Portal **only** at <https://contracts.rockvillemd.gov/gateway/Default.aspx> no later than **TUESDAY, AUGUST 09, 2022 at 10:00 AM.** Oral answers to questions relative to interpretation of specification or the bid process will not be binding on the City.

PROJECT DESCRIPTION

IFB 04-23 NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT (The Project) creates bike lanes and on-street parking on North Washington Street between MD 355 and MD 28, and on East Middle Lane between North Washington Street and MD 355.

The Project includes narrowing the two existing travel lanes to one lane in each direction and providing protected bike lanes, parking, parking meters, utility relocations, traffic signal modifications, streetscaping, stormwater facility, and signing and markings on both North Washington Street and East Middle Lane. In addition, it also includes widening the sidewalk on the south side of East Middle Lane between North Washington Street and Maryland Avenue.

The Project includes furnishing of all materials, labor, equipment, tools and services, and all other associated work as shown on the Construction Drawings and included in these documents.

The Project does not include repaving of Washington Street and E. Middle Lane which will be conducted by the City's Construction Management.

SUMMARY OF WORK

The City of Rockville intends to enter into a Contract with a qualified firm to provide construction for Washington street and East Middle Lane Road Diet Project.

The engineering drawings and specifications are intended to cover a complete project. It should be distinctly understood that failure to mention any work which would normally be required to complete the project shall not relieve the Contractor of their responsibility to perform such work.

PROJECT CLASSIFICATION

The estimated cost/classification of this project is within the range of \$500,001 to \$1,000,000 (Class C). This range is in accordance with project classifications established by the State of Maryland DGS.

BID SECURITY

Bids must be accompanied by an electronic copy of the Bid security made payable to the Mayor and Council of Rockville in an amount of five percent (5%) of Bidder's Total Bid Price and in the form of a Bid Bond (AIA Bid bond form is acceptable) or a certified check, where the original security instrument must be mailed to City of Rockville, Procurement Division, 111 Maryland Avenue, Rockville, Maryland 20850, referencing the solicitation number. The City reserves the right to disqualify any bid, in any instance, where the City cannot locate the mailed, original security instrument. The City shall not be liable for any certified checks it cannot locate, or in any instance where a certified check is cashed by any individual not employed by the City of Rockville.

AGREEMENT/PERFORMANCE & PAYMENT BONDS

The successful contractor shall be required to complete and electronically return a copy of the City's Standard Form of Agreement along with Performance and Payment Bonds in the amount of 100% of the Contract award within fifteen days after the date of issuance (samples attached), where two (2) sets of the original agreement and original bonds must be mailed to City of Rockville, Procurement Division, 111 Maryland Avenue, Rockville, Maryland 20850. No other form of performance or payment security will be permitted. Failure by the contractor to provide both the electronic versions and original versions of the agreement or bonds, as required, shall be just cause for annulment of the award and the forfeiture of the Bid Guarantee which shall become the property of the City, not as a penalty but in liquidation of damages sustained. Any instance where the City cannot locate the mailed versions of the agreement or bonds shall be just cause for annulment of the award and the forfeiture of the Bid Guarantee which shall become the property of the City, not as a penalty but in liquidation of damages sustained.

INSURANCE

The successful contractor shall be required to electronically furnish a certificate of insurance to include endorsements for additional insured and waiver of subrogation requirements within fifteen days after the date of request by the City. Failure by the contractor to provide insurance shall be just cause for annulment of the award

and the forfeiture of the Bid Guarantee which shall become the property of the City, not as a penalty but in liquidation of damages sustained.

SUBMISSION

All bid forms and documents must be electronically filled out, signed, and submitted via one combined pdf document using the City's Collaboration Portal **only** at:

<https://contracts.rockvillemd.gov/gateway/Default.aspx>

At a minimum the file name of the pdf document must contain the Bid Number, Bidders Name and Bid Due Date.

A virtual, telepresence bid opening will be held a few minutes after the bid submittal due date and time. Individuals interested in attending the virtual bid opening must register below:

Register for Virtual Bid Opening Here: [Registration Link](#)

SUBMITTALS

The following information must be submitted with the bid, **where failure to submit requested items may result in rejection of the bid:**

- Bid Proposal Forms (Section V)
- A certified check or bid bond must be in the amount of five percent (5%) of the total bid amount, made payable to the Mayor and Council of Rockville as in General Conditions and Inspections to Bidders, #24.
- If the bidder intends to subcontract any or part of the work, then the bidder must identify and include references for each qualified subcontractor, together with a description of the proposed subcontract work. This evidence shall be submitted with the bid. A minimum of three references shall be provided; additional project references may be required to meet all the requirements.

BID AWARD

Award will be made to lowest responsive and responsible bidder(s) complying with all provisions of the Invitation for Bid provided the price is reasonable and in the best interest of the City to accept. The City reserves the right to award by individual Capital Improvement project and project site, group, all or none or any combination thereof. Both Capital Improvement projects must be bid.

BIDDER QUALIFICATIONS

At a minimum, Bidders must provide written evidence (through references) of five (5) years prior experience with the scope of work as detailed in the specifications.

If the bidder intends to subcontract any or part of the work, then the bidder must identify and include references for each qualified subcontractor, together with a description of the proposed subcontract work. This evidence shall be submitted with the bid, or the City, at its discretion, may determine the bid to be unresponsive. A minimum of three references shall be provided; additional project references may be required to meet all the requirements.

The City shall have the right to take such steps as it deems necessary to determine the ability of the Bidder to perform the work and reserves the right to request additional information. The right is reserved to reject any bid where an investigation of the evidence or information submitted by such Bidder does not satisfy the City that the Bidder is qualified to properly carry out the terms of the Bid Document. Alternatively, the City may request a low Bidder to replace and resubmit qualifications for portions of work being performed by a subcontractor without alteration to the cost proposal.

ADDENDUM

Oral answers to questions relative to interpretation of specifications or the proposal process will not be binding on the City.

To ensure fair consideration for all offerors, any interpretation made to prospective offerors will be expressed in the form of an addendum to the specifications, if such information is deemed necessary for the preparation of proposals or if the lack of such information would be detrimental to the uninformed offeror. Such addendums, if issued, will posted at City's Collaboration Portal listed below:

<https://contracts.rockvillemd.gov/gateway/Default.aspx>

Please note, that it is the respondent's responsibility to check this site frequently for Addendums, which may impact pricing, this documents requirements, terms and/or conditions. Failure to sign and return an Addendum with your response may result in disqualification of proposal.

NOTICE TO BIDDERS

Companies not incorporated in the State of Maryland must be in compliance with the State of Maryland Code of Regulations Title 21, State Procurement Regulations in order to enter into a contract with the City. "Pursuant to 7-201 et seq. of the Corporations and Associations, Article of the Annotated Code of Maryland corporations not incorporated in the State, shall be registered with the Department of Assessments and Taxation, 301 West Preston Street, Baltimore, Maryland 21201 before doing any interstate or foreign business in this state. Before doing any intrastate business in this state, a foreign corporation shall qualify with the Department of Assessments and Taxation."

US TREASURY IDENTIFICATION NUMBER

Bidders must supply with their bids their U.S. Treasury Department Employers' Identification Number as such number is shown on their Employer's quarterly Federal Tax Return (U.S. Treasury Department Form No. 941). This number shall be inserted on the Bid Sheet in the space provided.

QUALIFICATION TO CONTRACT WITH PUBLIC BODY

Bidders must be qualified to bid in the State in accordance with Section 14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland which ordains that any person convicted of bribery (upon acts committed after July 1, 1997) in furtherance of obtaining a contract from the state or any subdivision of the State of Maryland shall be disqualified from entering into a contract with the City.

DISABILITY INFORMATION

ANY INDIVIDUALS WITH DISABILITIES WHO WOULD LIKE TO RECEIVE THE INFORMATION IN THIS PUBLICATION IN ANOTHER FORM MAY CONTACT THE ADA COORDINATOR AT 240-314-8100 TDD 240-314-8137.



**CITY OF ROCKVILLE
MARYLAND
GENERAL CONDITIONS AND INSTRUCTIONS TO
BIDDERS
CONSTRUCTION 3/2022**

1. **TERMS AND CONDITIONS** The terms and conditions of this document govern in event of conflict with any terms of the bidder's proposal, and are not subject to change by reasons of written or verbal statement by the contractor unless accepted in writing. Words and abbreviations which have well known technical or trade meanings are used in accordance with such meanings.
2. **COVID-19 VACCINATION REQUIREMENT** The Contractor agrees to provide the City's Project Manager or designated City staff proof of vaccination of any employee, subcontractor, or agent prior to such employee, subcontractor, or agent, pursuant to this Agreement, entering a City facility and performing any service or making any delivery in close proximity to one or more City employees, members of the Mayor and Council, members of a City board, commission or task force, or members of the general public in the City. Proof of vaccination means the demonstration of having received a full dose of a COVID-19 vaccine authorized by the Food and Drug Administration in a manner and on a schedule consistent with current United States Centers for Disease Control and Prevention guidelines. This paragraph shall not apply to any deliveries made pursuant to this Agreement by a common carrier.
3. **PRE-BID MEETING** A virtual, telepresence pre-bid meeting may be held for the purpose of describing the project and for answering any questions prospective bidders may have. If applicable, time and date will be shown on the bid announcement page.
4. **SUBMISSION OF BID** All bids are to be submitted electronically, in a pdf format file, via a City designated bid receipt software solution. File name of the pdf document must contain the Bid Number, Bidders Name and Bid Due Date. The following forms must be submitted:
 - Bid proposal page(s) in duplicate
 - Non-collusion/non-conviction affidavit
 - Bid Bond
 - Reference sheet
 - Other forms as required in the bid document.

The bid proposal form must be filled out and submitted electronically. Conditional bids and bids containing escalator clauses will not be accepted. All bids must be regular in every respect and no interlineation, exclusions, or special conditions shall be made or included. Bids must contain an electronic or scanned signature, in the space provided, of an individual authorized to bind the bidder.

5. **LATE BIDS** It is the bidder's responsibility to assure delivery of the bid at the proper time via the designated electronic, software solution. Bids delivered in any other fashion will not be considered. All bids will be publicly opened in a virtual environment after the time set for receipt of bids and read aloud via a City telepresence software solution. Bidders may attend bid openings at the phone number and/or web address provided by the City.
6. **ADDENDUM** In the event that any addenda to this solicitation are issued, all solicitation terms and conditions will retain in effect unless they are specifically changed in the addendum. It is the responsibility of the bidder to make inquiry as to addenda issued. Oral answers to questions relative to interpretation of specifications or the proposal process will not be binding on the City.

Such addendums, if issued, will be posted via the city's designated electronic, software solution

Please note, that it is the bidder's responsibility to check this site frequently for Addendums, which may impact pricing, this document's requirements, terms and/or conditions. Failure to acknowledge an addendum on the bid proposal form or to sign and return an Addendum with your response may result in disqualification of proposal.

7. **BID OPENING** All bids received in response to an Invitation for Bid will be opened at the date, time and place specified and publicly read via a City telepresence software solution. A tabulation of bids received are posted using the City's designated electronic software solution.
8. **ACCEPTANCE OF BIDS** The City will accept or reject any or all bids or any or all items within ninety (90) days after the date of bid opening. Bids may not be withdrawn during that period.
9. **BID WITHDRAWAL** Bids may be electronically withdrawn (deleted) or modified by deleting the initial file uploaded and replacing it with a modified file using the City's electronic, software solution before the time specified for bid opening. Requests received after bid opening will not be considered.
10. **BID AWARD** Award will be made to lowest responsive and responsible bidder complying with all provisions of the Invitation for Bid, provided the price is reasonable and in the best interest of the City to accept. The City reserves the right to award by individual commodities/services, group, all or none or any combination thereof. When a group is specified, all items in the group must be bid.

In determining the responsibility of a bidder, the following criteria will be considered:

- a. The ability, capacity and skill of the bidder to perform the contract or provide the services required;
- b. Whether the bidder can perform the contract or provide the service promptly, or within the time specified, without delay or interference;

- c. The character, integrity, reliability, reputation, judgment, experience and efficiency of the bidder;
- d. The quality of performance on previous contracts or services;
- e. The previous and existing compliance by the bidder with laws and ordinance relating to the contract or service;
- f. The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service;
- g. The quality, availability and adaptability of the goods or services to the particular use required;
- h. The ability of the bidder to provide future maintenance and service for the use of the subject of the contract;
- i. Whether the bidder is in arrears to the City or a debt or contract or is in default on a surety to the City;
- j. Such other information as may be secured by the City having a bearing on the decision to award the contract.

11. **ELECTRONIC PAYMENT OPTION**

The Vendor ACH Payment Program of the City allows payments to be deposited directly to a designated financial institution account. Funds will be deposited into the account of your choice automatically and on time. All transactions are conducted in a secure environment. The program is totally free as part of the Finance Department's efforts to improve customer services. Program information and registration can be viewed at the following web address:

<https://na3.docuSign.net/Member/PowerFormSigning.aspx?PowerFormId=8868c030-9f7e-4b3e-88de-c89fbce65636&env=na3&acct=b56266c3-6d22-426a-8422-e01bcbb466ec&v=2>

12. **SENSITIVE DOCUMENTS**

All project participants needing either electronic or hardcopy documents dealing with critical facilities or sensitive information will be required to make application with, and receive approval from the City prior to receiving this information. Permission to receive said documents (herein referred to as "sensitive") will pertain only to the individual approved. Sensitive documents (either electronic or hardcopy documents dealing with critical facilities or sensitive information) received from the City must be handled consistent with the terms of non-disclosure required for application. Contractor is responsible to restrict use of sensitive documents to project participants only and shall take appropriate measure to prevent distribution of sensitive document to anyone inside or outside of the Contractor's company except Contractor's project participants. After completion of the project, all sensitive documents remaining in the Contractor's possession shall continue to be governed under the terms of non-disclosure and must continue to be stored in a secure manner. After such records are no longer needed for record purposes, the records shall be destroyed or returned to the City.

Where services require the Contractor to access the City's electronic information resources and/or its

electronic data assets, the Contractor shall adhere to all requirements, terms and conditions of the City's Contractor/Vendor On-Site and Remote Access Confidentiality Agreement, which can be viewed at the following web address:

<https://www.rockvillemd.gov/documentcenter/view/36407>

- 13. **DOCUMENTS, MATERIALS AND DATA** All documents materials or data developed as a result of this contract are the City's property. The City has the right to use and reproduce any documents, materials and data, including confidential information, used in the performance of, or developed as a result of this contract. The City may use this information for its own purposes, including reporting to state and federal agencies. The contractor warrants that it has title to or right to use all documents, materials or data used or developed in connection with this contract. The Contractor must keep confidential all documents, materials and data prepared or developed by the contractor or supplied by the City.
- 14. **ERRORS IN BIDS** When an error is made in extending total prices, the unit price will govern. Erasures in bids must be initialed by the bidder. Carelessness in quoting prices or in preparation of the bid will not relieve the bidder from performing the contract. Errors discovered after public opening cannot be corrected and the bidder will be required to perform if the bid is accepted.
- 15. **MISTAKES** Bidders are expected to be thoroughly familiar with all bid documents, including all addenda. No consideration will be granted for any alleged misunderstanding of the intent of the contract documents. In the process of assembling and binding the bid documents individual pages or drawings may have been inadvertently omitted. Each bidder shall carefully and thoroughly examine these bid documents for completeness. No claim of any bidder will be allowed on the basis that these bid documents are incomplete.
- 16. **PRICES** Bids must be submitted on a firm, fixed price, F.O.B. destination basis only unless otherwise specified herein.
- 17. **PROMPT PAYMENT DISCOUNTS** All discounts other than prompt payment are to be included in the bid price. Prompt payment discounts will be considered in the evaluation of your bid if the discount on payment is not conditioned on payment being made in less than thirty (30) days from receipt of invoice.
- 18. **BIDDER'S PAYMENT TERMS** The City will reject as non-responsive a bid under this solicitation, which is conditioned on payment of proper invoices in less than thirty (30) days. However, this does not preclude a bidder from offering a prompt payment discount for payment of proper invoices in less than thirty (30) days.
- 19. **INTEREST IN MORE THAN ONE BID AND COLLUSION**
Multiple bids uploaded/received in response to a single solicitation from an individual, firm, partnership, corporation, affiliate, or association under the same or different names will be rejected. Reasonable grounds for believing that a bidder is interested in more than one bid for a solicitation both as a bidder and as a subcontractor for another bidder will result in rejection of all bids in which the bidder is interested. However, a firm acting only as a

subcontractor may be included as a subcontractor for two or more bidders submitting a bid for the work. Any or all bids may be rejected if reasonable grounds exist for believing that collusion exists among any bidders. Bidders rejected under the above provisions shall be disqualified if they respond to a re-solicitation for the same work.

20. **QUALIFICATION OF THE BIDDER** The City shall have the right to take such steps as it deems necessary to determine the responsibility of the bidder to perform the obligations under the contract and the bidder shall furnish to the City all such information for this purpose as the City may request. The right is reserved to reject any bid where an investigation of available information does not satisfy the City that the bidder is qualified to carry out the terms of the contract.
21. **PLACING OF ORDERS** Orders against contracts will be placed with the Contractor on a Purchase Order (or Procurement Card – currently Mastercard) executed by the Purchasing Agent or designee. Where Master Agreements have been released by the City, orders may be placed directly with the Contractor by authorized personnel in the ordering Department(s). Issuance of all purchase orders will be contingent upon appropriation of funds by the Mayor and Council and encumbrance of such funds after July 1st of each year, as provided by the City Code.
22. **INSPECTION OF THE WORK SITE** Each bidder shall visit the site of the proposed work and become fully acquainted with the existing conditions and fully informed as to any facility involved, and the difficulties and restrictions attending the performance of this contract. Applicable drawings, technical specifications and contract documents should be thoroughly examined. The successful bidder shall in no way be relieved of any obligation due under the executed contract by the failure to examine any form of legal instrument or to visit the site.
23. **RISK OF LOSS AND CONDITION OF SITE** The City makes no representation and assumes no responsibility for the condition of the site or applicable structures on the site. The contractor shall accept the site and the contents thereon in the condition in which they are represented. Any damages or loss whatsoever while the contract is in effect (whether by reason of fire, theft, breakage or other happenings) shall not relieve the Contractor from any obligations under this contract. The Contractor shall store any materials on site as not to damage the materials and shall maintain such storage areas, as directed by the City, in hazard free condition.
24. **SUBCONTRACTORS** Nothing contained in the contract documents, shall create any contractual relationship between the City and any subcontractor or sub-subcontractor.

Unless otherwise indicated, the successful contractor who will subcontract the delivery, installation, or portion of the work herein described will submit to the Project Manager, prior to the start of work, the following information: 1) A description of the items to be subcontracted, 2) the subcontractor name, address, and telephone number, and 3) the nature and extent of the work utilized during the life of the contract. Subcontractors shall be considered agents of the Contractor, who shall be held fully accountable for all of

the subcontractor services, labor, and materials relative to the contract.

25. **BID BOND** Bids must be accompanied by an electronic copy of a certified check or bid bond for five percent (5%) of the total amount of the bid, made payable to the Mayor and Council of Rockville, where the original security instrument must be mailed to City of Rockville, Procurement Division, 111 Maryland Avenue, Rockville, Maryland 20850, referencing the solicitation number. AIA Bond forms are acceptable. Bonds must be issued by a surety licensed to do business in the State of Maryland. The City reserves the right to disqualify any bid, in any instance, where the City cannot locate the mailed, original security instrument. The City shall not be liable for any certified checks it cannot locate, or in any instance where a certified check is cashed by any individual not employed by the City of Rockville. Bid bonds will not be returned.
26. **EXECUTION OF AGREEMENT/BONDS** Subsequent to award and within fifteen (15) calendar days after the prescribed forms are presented to the Contractor, the Contractor shall execute and electronically deliver to the City the required Agreement and Bonds, where two (2) sets of the original agreement and original bonds must be mailed to City of Rockville, Procurement Division, 111 Maryland Avenue, Rockville, Maryland 20850.

Bonds shall be in effect during the original term of the contract and during the guarantee and warranty period required under the Contract, unless otherwise stated therein.

PERFORMANCE BOND The Contractor shall execute and deliver to the City the required Performance Bond for 100% of the bid amount.

PAYMENT BOND For a contract exceeding One Hundred Thousand Dollars (\$100,000) the payment bond shall be in an amount equal to 100% of the bid amount. For a contract exceeding Twenty-Five Thousand Dollars (\$25,000) but not exceeding One Hundred Thousand Dollars (\$100,000) the payment bond shall be in an amount equal to fifty percent (50%) of the bid amount. Bonds shall be executed by a surety company authorized to do business in the State of Maryland.

The successful bidder may request that in lieu of bonds, the City accept the equivalent in the form of a certified check or other security. Such requests will be accepted or rejected by the City Manager. If rejected, the successful bidder will be required to furnish the bonds or forfeit the bid bond. The City shall not be liable for any certified checks it cannot locate, or in any instance where a certified check is cashed by any individual not employed by the City of Rockville.

Failure of the successful bidder to execute the agreement and supply both the electronic versions and original versions of the required forms within fifteen (15) calendar days shall constitute a default. Any instance where the City cannot locate the mailed versions of the agreement or bonds shall also constitute a default. The successful bidder shall forfeit to the City as liquidated damages for such failure or refusal an amount in cash equal to the security deposited with the bid.

The City may either award the contract to the next low responsive and responsible bidder or re-advertise the bids, and may charge against the original bidder the difference between the amount of the bid and the amount for which a contract for the work is subsequently executed. If a more favorable bid is received by a re-advertising, the defaulting bidder shall have no claim against the City for a refund.

27. **LEGAL REQUIREMENTS** All materials, equipment, supplies and services shall conform to applicable Federal, State, County and City laws, statutes, rules and regulations. The Contractor shall observe and comply with all Federal, State, County and City laws, statutes, rules and regulations that affect the work to be done. The provisions of this contract shall be governed by the laws of the State of Maryland.
28. **INDEMNIFICATION OF THE COUNCIL** The Contractor shall indemnify and save harmless the Mayor and Council from all suits, actions and damages or costs, of every name and description to which the Council may be subjected or put by reason of injury to persons or property as a result of the work, whether caused by negligence or carelessness on the part of the Contractor, or subcontractors or agents thereof.
29. **DELIVERY** Time is of the essence. The Contractor shall expedite the work and achieve substantial completion within the contract time. If time limits are not specified, state the number of days required to make delivery/completion in the space provided. Defective or unsuitable materials or workmanship shall be rejected and shall be made good by the Contractor, not withstanding that such materials/workmanship have been previously been overlooked and accepted.
30. **CHANGES IN QUANTITIES/ITEMS** The City reserves the right to add or delete any item(s) from the bid in whole or in part at the City's discretion as given in the Bid or Proposal wherever it deems it advisable or necessary so to do and such changes shall in no way vitiate the contract nor affect the bid prices for any item or remaining work. Unit prices submitted in the bid shall not be increased or decreased regardless of changes in quantity. The City may waive minor differences in specifications in bids provided these differences do not violate the specifications' intent nor materially affect the operation for which the items or services are being purchased

The Contractor will be paid for the actual amount of authorized work done or material furnished under any item of the bid at the price bid and stipulated for such item. In case any quantity is increased, the Contractor shall not be entitled to any increased compensation over and above the unit price bid for such item, or any claim for damages on account of loss of anticipated profits should any quantities be decreased. The Contractor shall be responsible for confirming the accuracy of the specified quantities prior to ordering materials or supplies and the City's payment shall be based on the actual quantities incorporated in the work and not the quantities specified in the bid document. The quantities must not exceed the Contract specified quantities without specific written authorization of the Project Manager and it is the Contractor's responsibility to obtain said authorization.

31. **MATERIALS** All materials shall be new and free from defects. They shall be standard products of current manufacture. Unless otherwise noted in the contract documents, the Contractor shall abide by specific manufacturer instructions and recommendations on installation and operation.
32. **BRAND NAME OR EQUAL** Identification of an item by manufacturer's name, trade or brand name, or catalog number is for information and establishment of a quality level desired and is not intended to restrict competition. Bidders may offer any brand which meets or exceeds the specification, unless 'brand name only' is specified. Bids on other makes and/or models will be considered provided the bidder clearly states on the proposal what is being proposed and forwards with the bid complete descriptive literature indicating how the characteristics of the article being offered will meet the specifications. The City reserves the right to accept or reject items offered as an equal.
33. **DEFECTIVE MATERIALS/WORKMANSHIP** Defective or unsuitable materials or workmanship shall be rejected and shall be made good by the Contractor. If the work shall be found to be defective or to have been damaged before final acceptance, the Contractor shall make good such defect in a manner satisfactory to the City, without extra compensation even though said defect or injury may have not been due to any act or negligence of the Contractor.
34. **TIME OF BEGINNING AND COMPLETION** Unless otherwise stipulated in the bid document, the Contractor shall begin work on the Contract within ten (10) working days after the mailing of a purchase order and shall diligently prosecute the same, so that it shall be fully completed within the time as stated in the contract. The Contractor shall not commence any work under the Contract until a written Purchase Order is received from the Purchasing Agent.
35. **FAILURE TO COMPLETE WORK ON TIME/ LIQUIDATED DAMAGES** The Contractor accepts this contract with the understanding and intention to perform fully and in an acceptable manner within the time stated. Should he fail to complete fully, to all intent and purpose, the work specified in the time specified, or within the time as it may have been extended by the City, the Contractor shall pay, for each calendar day that any work shall remain uncompleted, not including Sundays, the sum of \$400 per calendar day or such other amount as specified in the Special Provisions. This sum is hereby agreed upon, not as a penalty, but as liquidated damages and the City shall have the right to deduct the amount of such damages from any moneys due the Contractor under this Contract.
- The City shall recover such Liquidated Damages by deducted the amount thereof out of any moneys due or that may become due the Contractor, and if said moneys are insufficient to cover said damages, then the Contractor or the Surety shall pay the amount due upon demand by the City.
36. **AUTHORITY OF THE CITY MANAGER IN DISPUTES** Except as may otherwise be provided by the final agreement, any dispute concerning a question of fact arising under the agreement signed by the City and the Contractor which is not disposed of by the final agreement shall be decided by the City Manager who

shall notify the Contractor in writing of his determination. The Contractor shall be afforded the opportunity to be heard and offer evidence in support of the claim. Pending final decision of the dispute herein, the Contractor shall proceed diligently with performance under the agreement signed by the City and the Contractor. The decision of the City Manager shall be final and conclusive unless an appeal is taken pursuant to the City Purchasing Ordinance.

37. **CONTRACT DELAYS/EXTENSION OF TIME** The Contractor shall pursue the contract so as to complete all work within the time allotted in the bid document. The completion date as set in the bid document allows for inclement weather, holidays and coordination with other companies. If the Contractor is delayed in the delivery of the supplies, equipment or services by any act of neglect of the City or by a separate Contractor employed by the City, or by any changes, strikes, lockouts, fires, unusual delays in transportation or delay authorized by the City, the City shall review the cause of such delay and shall make an extension of time if warranted. All claims for extensions must be in written notice sent to the Project Manager within ten (10) calendar days after the date when such alleged cause for extension of time occurred. All such claims shall state specifically the amount of time of the delay the Contractor believes to have suffered. If written notice is not received within the prescribed time the claim shall be forfeited and invalidated.
38. **CONTRACT DELAYS - NO DAMAGE CLAIMS ACCEPTED** The Contractor shall make no claim for extra monetary compensation for delays, whether ordered by the City or not, caused by delays in funding, governmental approvals, private or public companies' actions, inclement weather, site conditions, or from any cause whatsoever. The Contractor shall adjust its operation to continue the work at other locations under the contract, if available, and as directed by the City. If it is necessary to discontinue the work temporarily, the Contractor shall resume work within 48 hours of notice from the City. The City may adjust the completion date to compensate for the lost day(s) on a day-for-day basis, if the City finds that the Contractor could not make up for such lost day(s) by reallocating its forces or rescheduling the work, up to the time remaining on the original schedule at the time of shutdown.
39. **PROGRESS SCHEDULE AND SCHEDULE OF OPERATIONS** The construction of this project will be planned and recorded with an Activities Chart Project Schedule (AC) and Written Narrative (WN) unless specifically determined to be unnecessary by the Project Manager. The AC Project Schedule and Written Narrative will break down, in detail, the time (working days or completion date) involved in performing major construction activities for the duration of the project. The AC Project Schedule shall be used for the coordination and monitoring of major work under the contract including the activities of subcontractors, vendors and suppliers. The AC Project Schedule shall be prepared in accordance with the requirements of the Maryland State Highway Administration Standard Specifications for Construction and Materials dated January 1982, and the errata and addend thereto, subsequent supplement(s) and the Special Provisions as set forth in this Invitation for Bids, unless otherwise directed or approved by the Project Manager. The schedule shall be consistent with the contract specified completion date(s) and/or working

days. The Contractor is responsible for preparing the initial AC Project Schedule and Written Narrative.

Preparation of Initial Schedule - Within 10 calendar days after notification that the Contractor is the apparent successful bidder, the Contractor will complete development of a initial AC Project Schedule and Written Narrative (describing the logical time representations as proposed in the AC Project Schedule), and submit 2 (two) copies of each AC and WN to the Project Manager for review and approval.

Updating Project Schedule: At any time that it becomes apparent the schedule, created as above and approved by the Project Manager, is not being implemented, either because the work or service is ahead or behind schedule, the Contractor shall immediately notify the Project Manager and shall submit a revised, written, updated AC and WN for the Project Manager's review, revision and approval. The contractor shall make every effort to meet the original completion date and/or working days allowed unless otherwise so directed by the Project Manager.

Payment for Schedule AC/WN: No special compensation will be paid for preparing or revising the above project AC/WN as the cost shall be considered incidental to the contract with compensation incorporated into the bid items(s).

40. **SPECIFICATIONS** The Construction Specifications for this contract will be those shown below and additions included in the bid document, if applicable. In the event of conflict, the City determination shall govern. The following specifications and standards, listed below, including all subsequent addenda, amendments and errata are made part of this contract to the extent required by the references thereto:
1. Maryland Department of Transportation, State Highway Administration, "Standard Specifications for Construction and Materials" (Maryland Department of Transportation, State Highway Administration), dated January 2008 and all errata and addenda thereto. MDSHA Book of Standards for Highway and Incidental Structures.
 2. Montgomery County Department of Transportation "Montgomery County Road Construction Code and Standard Specifications."
 3. Standard Specifications of WSSC dated July 2005.
 4. Montgomery County Department of Transportation "Design Standards" August 1991.
 5. Maryland Dept of the Environment "1994 Standards and Specifications Soil Erosion and Sediment Control"
 6. The U. S. Department of Transportation, Federal Highway Administration, "Manual on Uniform Traffic Control Devices" latest edition.
 7. Montgomery County Noise Ordinance.
41. **CONTRACT DOCUMENTS** The contract documents are complementary and what is required by any one shall be binding as if required by all. Words and abbreviations that have well known technical or trade meanings are used in the contract documents in accordance with such recognized meanings. On drawings, the figured dimensions shall govern in the case of discrepancy between the scales and figures. Anything shown on the construction plans and not mentioned in the

specifications or mentioned in the specifications and not shown on the plans shall have the same effect as if shown or mentioned respectively in both.

Prior to bidding, the Contractor should obtain clarification of all questions which may have arisen as to intent of the contract document, or any actual conflict between items in the contract documents. Should the Contractor have failed to obtain such clarification, then the City may direct that the work proceed by any method indicated, specified or required, in the judgment of the City, by the contract documents. Such direction by the City shall not constitute the basis for a claim for extra costs by the Contractor. The Contractor acknowledges that he had the opportunity to request clarification prior to submitting his bid to the City and that he is not entitled to a claim for extra cost as a result of failure to receive such clarification.

Any discrepancies which may be discovered during the execution of work between actual conditions and those represented by the contract documents shall be reported to the City and work shall not proceed until written instruction has been received by the contractor from the City.

42. **INTERPRETATION** Any questions concerning terms, conditions and definitions of the contract and bidding regulations shall be directed in writing to the Contract Officer. Any questions concerning the technical specifications and drawings shall be directed in writing to the Project Manager. The submission of a bid shall be prima facie evidence that the bidder thoroughly understands the terms of the contract documents. The Contractor shall take no advantage of any error or omission in these contract documents.
43. **PRE-CONSTRUCTION CONFERENCE** A pre-construction conference may be held in person or virtually following contract award. The meeting must be attended by the Contractor. No compensation will be made by the City to the Contractor for meetings.
44. **EMERGENCY CONTACT** The Contractor shall provide at least two local telephone numbers which may be used for contacting an official of the Contractor at all times, 24 hours per day, seven days per week: at which numbers person(s) of responsibility will be available to respond to City directives relative to the contract. The Contractor shall have available sufficient personnel and equipment to immediately respond to emergency needs, as determined by the City. There will be no special compensation paid for this requirement but the cost is to be considered incidental to the other contract pay items.
45. **SUPERVISION AND DIRECTION OF WORK** The work shall be under the general supervision of the Project Manager. While it is intended that the Contractor shall be allowed in general to carry on the contract in accordance with such general plan as may appear to the Contractor most desirable, the Project Manager, at the Project Manager's discretion, may from time to time, direct the order in which, and points at which, the work shall be prosecuted and may exercise such general control over the conduct of the work at a time or place, as shall be required, in the Project Manager's opinion, to safeguard the interests of the City, and the Contractor shall have no claims for damages or extra compensation on account of the fact that it shall have been necessary to carry on the work in different sequence from that which

the Contractor may have contemplated. The Contractor shall immediately comply with any and all orders and instructions given by the Project Manager, but nothing herein contained shall be considered such an assumption of control over the work by the City or the Project Manager as to relieve the Contractor of any obligations or liabilities under the contract.

46. **INSPECTION** Work and materials will be inspected promptly to see that the same strictly correspond with the drawings and specifications, but if, for any reason, delay should occur in connection with such inspection, the Contractor shall have thereby no claim for damages or extra compensation. Materials and workmanship shall be always subject to the approval of the Project Manager, but no inspection, approval or acceptance of any part of the work or of the materials used therein, nor any payment on account thereof shall prevent the rejection of said materials or work at any time thereafter, should said work or materials be found to be defective or not in accordance with the requirements of the contract. Any costs for any "re-inspection" of the job shall be the responsibility of the contractor.
47. **TERMINATION FOR DEFAULT** The contract may be cancelled or annulled by the City in whole or in part by written notice of default to the Contractor upon nonperformance or violation of contract terms and an award made to next low Bidder, or, articles specified may be purchased on the open market similar to those so terminated. In either event, the defaulting Contractor (or his surety) shall be liable to the City for costs to the City in excess of the defaulted contract prices: provided, that the Contractor shall continue the performance of this contract to the extent not terminated under the provisions of this clause.
48. **TERMINATION FOR CONVENIENCE** This Contract may be terminated, in whole or in part, upon written notice to the Contractor when the City determines that such termination is in its best interest. The termination is effective 10 days after the notice is issued, unless a different time is given in the notice. The City is liable only for payment for goods and services delivered and accepted or approved by the City prior to the effective date of the termination.
49. **EMPLOYEES** The Contractor shall employ only competent, skillful persons to do the work, and whenever the Project Manager shall notify the Contractor in writing that any person employed on the work is, in his opinion, incompetent, disobedient, disorderly, discourteous or otherwise unsatisfactory, such person shall be discharged from the work and shall not again be employed for this contract except with the consent of the Project Manager.
50. **NON-WORK DAY** The City observes the following holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Thanksgiving Friday and Christmas Day, all days of general and congressional elections throughout the State, and a five-day work week.

The Contractor will not be permitted to do any work which requires the services of the City's inspection, supervisory or line and grade forces on the days on which the above mentioned holidays are observed by the City or on Saturdays or Sundays, unless otherwise

authorized by the Project Manager in writing. However, the Contractor, with verbal permission of the Project Manager, may be permitted to perform clean up and such other items for which no specific payment is involved on Saturdays and holidays.

The normal number of working hours per day on this Contract will be limited to eight, unless otherwise authorized by the Project Manager in writing.

In case of an emergency, which may require the services of the City on Saturdays, Sundays, holidays or longer than eight hours per day, the Contractor shall request permission of the Project Manager to work. If, in the opinion of the Project Manager the emergency is bona fide, he will grant permission to the Contractor to work such hours as may be necessary. Also, if in the opinion of the Project Manager, a bona fide emergency exists, the Project Manager may direct the Contractor to work such hours as may be necessary whether the Contractor requests permission to do so or not.

51. **LANGUAGE** The Contractor shall appoint one or more crewmembers or supervisors to act as liaison with the City and emergency services personnel. All liaisons shall be fluently bilingual in English and the Contractor's employees' language(s), and at least one liaison shall be present at each work site at all times when any of the Contractor's employees or agents are at the site.
52. **IMMIGRATION REFORM AND CONTROL ACT** The Contractor awarded a contract pursuant to this bid shall warrant that it does not and shall not hire, recruit or refer for a fee, for employment under the contract, an alien knowing the alien is an unauthorized alien and hire any individual without complying with the requirements of the Immigration Reform and Control Act of 1986 (the Act), including but not limited to any verification and record keeping requirements. The Contractor shall further assure the City that, in accordance with the Act, it does not and will not discriminate against an individual with respect to hiring, or recruitment or referral for a fee, of the individual for employment or the discharging of the individual from employment because of such individual's national origin or in the case of a citizen or intending citizen, because of such individual's citizenship status.
53. **EQUAL EMPLOYMENT OPPORTUNITY** The Contractor will not discriminate against any employee or applicant for employment because of age (in accordance with applicable law), ancestry, color, national origin, race, ethnicity, religion, disability, genetics, marital status, pregnancy, presence of children, gender, sexual orientation, gender identity or expression, or veteran status. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated fairly and equally during employment with regard to the above. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment, layoff or termination, rates of pay or other form 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 this nondiscrimination clause. Contractors must also include the same nondiscrimination language in all subcontracts.

If the Contractor fails to comply with nondiscrimination clauses of this contract or fails to include such contract provisions in all subcontracts that subcontractors will not discriminate against any employee or applicant for employment in the manner described above, this contract may be declared void AB INITIO, cancelled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further contracts with the City of Rockville. Any employee, applicant for employment, or prospective employee with information concerning any breach of these requirements may communicate such information to the City Manager who shall commence a prompt investigation of the alleged violation. Pursuant to such investigation, the Contractor will permit access to the Contractor's books, records, and accounts. If the City Manager concludes that the Contractor has failed to comply with nondiscrimination clauses, the remedies set out above may be invoked.

54. **ETHICS REQUIREMENTS** In accordance with the City's financial disclosure and ethical conduct policy and/or ordinances a prerequisite for payment pursuant to the terms of this contract is that the Contractor may be required to furnish explicit statements, under oath, that the City Manager, and/or any other officer, agent, and/or employee of the City, and any member of the governing body of the City of Rockville or any member or employee of a Commission, Board, or Corporation controlled or appointed by the City Council, Rockville, Maryland has not received or has not been promised directly or indirectly any financial benefit by way of fee, commission, finder's fee, or in any other manner, remuneration arising from directly or indirectly related to this contract, and that upon request by the City Manager, or other authorized agent, as a prerequisite to payment pursuant to the terms of this contract, the Contractor will furnish to the Mayor and Council of the City of Rockville, under oath, answers to any interrogatories to a possible conflict of interest has herein embodied.
55. **DRAWINGS TO BE FOLLOWED** The approved drawings, profiles and cross sections on file with the City will show the location, details and dimensions of the work contemplated, which shall be performed in strict accordance therewith and in accordance with the specifications. Any deviations from the drawings or specifications as may be required by the exigencies of construction in all cases will be determined by the Project Manager. There shall be no such deviations without the written authorization of the Project Manager. On all drawings, etc., the figured dimensions shall govern in the case of discrepancy between the scales and figures. The Contractor shall take no advantage of any error or omission in the drawings or specifications. The Project Manager shall make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the specifications and of the drawings as construed by the Project Manager whose decision shall be final.
56. **CERTIFICATION** Under no circumstances will Contractors be paid for materials utilized on any City contract unless certified to by the Project Manager. The Contractor must not incorporate any materials into a City project without prior authorization and certification of the Project Manager, unless necessary to eliminate or avoid hazardous conditions. Under these emergency circumstances the responsibility for notification to the Project Manager and quantity/quality confirmation rests

with the Contractor and must be obtained within 24 hours of the work.

57. **DECISIONS AND EXPLANATIONS BY PROJECT MANAGER** The Project Manager shall make all necessary explanations as to the meaning and intent of the specifications and drawings, and shall give all orders and directions, either contemplated therein or thereby, or in every case in which a difficult or unforeseen condition arises during the prosecution of the work. Should there be any discrepancies or should any misunderstanding arise as to the intent of anything contained in the drawings and specifications, the decision of the Project Manager shall be final and binding. The Project Manager shall in all cases determine the amount, quality, acceptability and estimates of the work to be paid for under the Contract, and shall decide all questions in relation to the work. In case any questions arise between parties relating to the Contract, such decision and estimate shall be a condition precedent to the right of the Contractor to receive payment under that part of the Contract which is in dispute.
58. **WORK TO BE DONE AND MATERIALS TO BE FURNISHED** The Contractor shall do all the work and furnish all the labor, materials, tools, and equipment necessary or proper for performing the work required by the Contract, in the manner called for by the drawings and specifications and within the Contract time. The Contractor shall complete the entire work together with such extra work as may be required, at the prices fixed therefore, to the satisfaction of the Project Manager and in accordance with the specifications and drawings.
59. **NOTIFICATION TO OTHER AGENCIES** The Contractor will be responsible for notifying all concerned agencies affected by the work a minimum of 48 hours in advance of any activity, as prescribed by said agencies, including, but not limited to: the Washington Gas, PEPCO, Verizon Comcast Cable, Transcontinental Gas, City of Rockville Utilities Division, Montgomery County Government, State Highway Administration and the Washington Suburban Sanitary Commission. The Contractor must notify MISS UTILITY at 1-800-257-7777 a minimum of 72 hours and no more than 5 working days prior to removal of any pavement or beginning any excavation. There shall be no measurement or direct payment to the Contractor for such notification, working around, the protection of, or repair of damage to such existing utilities caused by the proposed construction activities directly or indirectly.
60. **PERMITS AND REGULATIONS** Unless stipulated elsewhere in these specifications, the Contractor shall be responsible for obtaining and paying for all applicable permits. Where signatures of the City are required in connection with the obtaining of such permits, certificates, etc., the Contractor shall prepare the proper paperwork and present it to the City for signature. City of Rockville Permit fees shall be waived. If the Contractor ascertains at any time that any requirement of this contract is at variance with applicable laws, ordinances, regulations and/or building codes, notification to the Project Manager shall be made immediately and any necessary adjustment to the contract shall be made. Without proper notice to the Project Manager, the Contractor shall bear all costs arising from the performance of work the Contractor knows to be contrary to such laws, ordinances, etc.

61. **EXCAVATION** Unless specifically provided in the specifications, all trench and roadway excavation is hereby unclassified as to the character of materials. The lump sum or unit price, as specified, for or including excavation shall constitute full payment for removal and disposal of all materials, regardless of type, encountered in trenching and roadway excavation, within the limits of this Contract, as necessary and as shown to be removed on the Contract drawings and/or as directed by the Project Manager, except as otherwise provided for under this Contract. All bidders are hereby directed to familiarize themselves with all site conditions including subsurface and the proximity of adjacent features.
62. **SERVICE OF NOTICES** The mailing a written communication, notice or order, addressed to the Contractor at the business address filed with the City, or to his office at the site of the work shall be considered as sufficient service upon the Contractor of such communication, notice or order; and the date of said service shall be the date of such mailing. Written notice shall also be deemed to have been duly served if delivered in person to the individual or member of the firm or to any officer of the corporation for whom it was intended if delivered or sent by registered or certified mail to the last known address.
63. **PATENT RIGHTS** Whenever any article, materials, equipment, process, composition, means, or things called for by these specifications is covered by letters of patent, the successful bidder must secure, before using or employing such article, material etc., the assent in writing of the Owner or Licensee of such Letters of Patent and file the same with the City.
- The said assent is to cover not only the use, employment, and incorporation of said article, material, equipment, process, composition, combination, means, or thing in the construction and completion of the work but also the permanent use of said article, material, etc., thereafter by or on behalf of the City, in the operation and maintenance of the project for the purposes for which it is intended or adapted. The Contractor shall be responsible for any claims made against the City, its agents and employees or any actual or alleged infringement of patents by the use of any such patented articles, etc., in the construction and completion of the work, and shall save harmless and indemnify the City, its agents and employees from all costs, expenses, and damages, including Solicitor's and Attorney's fees which the City may be obligated to pay by reason of any actual or alleged infringement of patents used in the construction and completion of the work herein specified.
64. **CARE AND PROTECTION OF WORK** From the commencement of the Contract until its completion, the Contractor shall be solely responsible for the care of the work and all injury or damage to the same, from whatever cause, shall be made good by the Contractor at the Contractor's own expense, before the final estimate is made. The Contractor shall provide suitable means of protection for all materials intended to be used in the work and for work in progress, as well as completed work.
65. **ABANDONMENT OF OR DELAY IN WORK** If the work under the Contract shall be abandoned by the Contractor, or if at any time the Project Manager shall be of the opinion and shall so certify, in writing, to the Contractor, that the performance of the Contract is

unnecessarily or unreasonably delayed, or that the Contractor has violated any of the provisions of the Contract or is executing the same in bad faith or if the work is not fully completed within the time specified for its completion, together with such extension of time as may have been granted, the City by written notice, may order the Contractor to discontinue all work there under, or any part thereof, within the number of days specified on such notice. At the expiration of said time the Contractor shall discontinue the work, or such part thereof, and the City shall have the power, by Contract, or otherwise, to complete said work and deduct the entire cost thereof from any monies due or to become due the Contractor under the Contract. For such completion of work the City may, for itself or its Contractor, take possession of and use or cause to be used any or all materials, tools, and equipment found on the site of said work. When any part of the Contract is being carried on by the City, as herein provided, the Contractor shall continue the remainder of the work in conformity with the terms of the Contract and in such manner as not to interfere with the City's workmen.

66. **SUBLETTING OR ASSIGNING OF CONTRACT** The City and the Contractor each bind themselves, their partners, successors, assigns and legal representatives of such other parties in respect to all covenants, agreements, and obligations contained in the contract documents. Neither party to the contract shall sublet, sell, transfer, assign or otherwise dispose of the Contract or any portion thereof, or of the work provided for therein, or of his right, title or interest therein to any person, firm or corporation without the written consent of the other party, nor shall the Contractor assign any monies due or to become due hereunder without the previous written consent of the City.
67. **NO WAIVER OF CONTRACT** Neither the acceptance by the City or its Project Manager nor any order, measurement, certificate or payment of money, of the whole or any part of the work, nor any extension of time nor possession taken by the City or its Project Manager shall operate as a waiver of any portion of the Contract, or any right to damage therein provided. The failure of the City to strictly enforce any provision of this contract shall not be a waiver of any subsequent breach of the same or different nature.
68. **DUTIES, OBLIGATIONS, RIGHTS AND REMEDIES** The duties and obligations imposed by the contract documents and the rights and remedies available there under shall be in addition to and not a limitation of the duties, obligations, rights and remedies otherwise imposed or available by law, unless so indicated.
69. **IMPLIED WORK** All incidental work required by the drawings or specifications for which no payment is specifically provided and any work or materials not therein specified which are required to complete the work and which may fairly be implied as included in the Contract, and which the Project Manager shall judge to be so included, shall be done or furnished by the Contractor without extra compensation. The intent is to prescribe a complete work or improvement which the Contractor undertakes to do in full compliance with the contract documents together with any authorized alterations, special provisions and supplemental agreements.

70. **MEASUREMENT OF WORK AND MATERIAL** The work and material to be paid for will be measured and determined by the Project Manager according to the specifications and drawings, and the working lines that may be given. No allowance will be made for any excess above the quantities required by the specifications, drawings and lines on any part of the work, except where such excess material has been supplied or work done by order of the Project Manager and in the absence of default or negligence on the part of the Contractor. Should the dimensions of any part of the work or of the materials be less than those required by the drawings or the directions of the Project Manager, only the actual quantities placed will be allowed in measurement.

71. **EXTRA COSTS** If the contractor claims that any instructions by the contract documents or otherwise involve extra compensation or extension of time, a written protest must be submitted to the Project Manager within ten (10) calendar days after receipt of such instructions and before proceeding to execute the work, stating in detail the basis for objection. No such claim will be considered unless so made.

72. **CONTINGENT ITEMS & QUANTITIES** Items and quantities identified as being contingent are provided in the Contract for use when and as directed by the Project Manager. These items shown on the Plans or in the specifications are established for the purpose of obtaining a bid price. The quantities for these contingent items may be increased or decreased without any adjustment to the Contract unit price bid or the contingent items may be deleted entirely from the Contract by the Project Manager without negotiation. The Contractor shall submit no claim against the City for any adjustment to the Contract unit price bid, should the contingent items be increased, decreased or eliminated entirely. Payment for any contingent items used will be made on the basis of the quantities as actually measured and as specified in the Specifications. Materials, Construction Requirements and Basis of Payment shall be as specified elsewhere in the Specifications, Plans or Special Provisions.

73. **CHANGES IN THE SCOPE OR EXTRA WORK** The City, without invalidating the contract, may issue written changes in the work consisting of additions, deletions, or modifications with the contract sum and completion date being adjusted accordingly. All such changes, or additional work must be authorized in writing by the Purchasing Agent prior to starting such work. Costs shall be limited to the cost of materials, labor, field supervision and field office personnel directly involved in and attributed to the change. All costs and/or credits to the City for a change in the work shall be determined by the unit price bid or by mutual agreement.

The Contractor shall do all work that may be required to complete the work contemplated at the unit prices bid or at a lump sum price to be mutually agreed upon.

The Contractor shall perform extra work, for which there is no quantity or price included in the Contract, whenever it is deemed necessary or desirable, to complete fully the work as contemplated, and such work shall be done in accordance with the specifications therefore, or in the best workmanlike manner as directed. Where such a price or sum cannot be agreed upon by both parties, or where this method of payment is impracticable, the Project Manager may order the Contractor to do such

work on a force account basis, which will be paid for as follows.

74. **FORCE ACCOUNT WORK** When the Contractor is required to perform work as a result of additions or changes to the contract for which there are no applicable unit prices in the contract, the City and Contractor shall make every effort to come to an agreed upon price for the performance of such work. If an agreement cannot be reached, the City may require the Contractor to do such work on a force account basis to be compensated in accordance with the following:

- A. **Labor.** For all labor and for foremen in direct charge of the specific operations the Contractor shall receive the actual wages for each and every hour that said labor and foremen are actually engaged in such work.
- B. **Materials.** For materials accepted by the Project Manager and incorporated into the project, the Contractor shall receive the actual cost of such materials, including transportation charges paid by him (exclusive of machinery rentals as hereinafter set forth). Excess materials delivered to the job site and not incorporated into the project will not be paid for and it is the Contractor's responsibility to remove said excess material from the job site.
- C. **Equipment.** For any machinery or special equipment (other than small equipment tools, whether rented or owned), the use of which has been authorized in writing, by the Project Manager the Contractor shall receive the rates agreed upon in writing before such work is begun which price shall include fuel, oil and miscellaneous necessities, or the Contractor shall receive those rates which may be specified elsewhere in the Special Provisions. For the purpose of definition, equipment with a new cost of \$1000 or less will be considered small tools and equipment.
- D. **Materials and Supplies Not Incorporated in the Work.** For materials and supplies expended in the performance of the work (excluding those required for rented equipment) and approved by the Project Manager, the Contractor shall receive the actual cost of such materials and supplies used.
- E. **Subcontractors.** The Contractor shall receive the actual cost of work performed by a subcontractor. Subcontractor's cost is to be determined as in A., B., C., and D. above, plus the fixed fee for overhead and profit allowance computed as in G.
- F. **Superintendence.** No additional allowance shall be made for general superintendence, the use of small tools, or other costs for which no specific allowance is herein provided
- G. **Contractor's Fixed Fee.** The procurement officer and the Contractor shall negotiate a fixed fee for force account work performed pursuant to this specification by his force and by his subcontractors. The City shall pay 10 percent of A as compensation for overhead and profit for the work performed. The

Contractor shall proceed diligently with the performance of the force account work to completion. The Contractor's fixed fee shall include an amount equal to the sum of 65 percent of A, which shall include, but not be limited to the following:

- (1) Compensation for all costs paid to, or in behalf of, workmen by reason of subsistence and travel allowances, health and welfare benefits, pension fund benefits or other benefits that may be required by collective bargaining agreement or other employment contract generally applicable to the classes of labor employed in the work; and
- (2) Bond premiums, property damage, liability and workmen's compensation insurance premiums, unemployment insurance contributions and Social Security taxes on the force account work.

In addition, the Contractor's fixed fee may include an amount not to exceed 10 percent of B, unless specifically authorized by the Project Manager in advance of the work; 5 percent of D, and 5 percent of E with the exception of that portion chargeable to equipment as defined above.

- H. **Compensation.** The compensation as set forth above shall be received by the Contractor as payment in full for change order work done on a force account basis. At the end of each day, the Contractor's representatives and the Project Manager, shall compare records of the cost of work as ordered on a force account basis. Differences shall be immediately resolved and any unresolved difference shall be brought to the attention of the Project Manager by written notice from the Contractor within two working days of the occurrence.
- I. **Statements.** No payment will be made for work performed on a force account basis until the Contractor furnishes the Project Manager duplicate itemized statements of the cost of such force account work detailed as to the following:
 - (1) Name, classification, date, daily hours, total hours, rate, and extension for such workmen. Contractor shall provide certified payrolls
 - (2) Designation, dates, daily hours, total hours, rental rate, and extension for each unit of machinery and equipment. Contractor shall provide original receipted invoices.
 - (3) Quantities of materials, prices and extensions. Contractor shall provide original receipted invoices.
 - (4) Transportation of materials. Contractor shall provide original receipted invoices.

If, however, the materials used in the force account work are not specifically purchased for such work but are taken from the Contractor's stock, then in lieu of the original invoices the statements shall contain or be accompanied by

an affidavit of the Contractor which shall certify that such materials were taken from his stock that the quantity claimed was actually used and that the price and transportation of the material as claimed represent actual cost. Any request for payment under this Section should be submitted in the order outlined by the above.

The Contractor shall be responsible for all damages resulting from work done on a force-account basis, the same as if this work had been included in the original Contract.

Work performed without previous written order by the Project Manager will not be paid.

75. **ALLOWANCES** Whenever an allowance is mentioned in the specifications, then the contractor shall include in his contract sum the entire amount of such specified allowances. The expenditure of these allowances is to be at the Purchasing Manager's direction. However, the allowance expenditure is limited to items properly inferable from the title and description of the allowance. Unexpended balances are to be credited to the City. Compensation payable to the contractor for expenditure of allowances directed by the Purchasing Manager shall be based on the cost to the contractor as shown by actual invoices or receipts, and no additional overhead or profit shall be payable to the contractor for such allowances.

76. **PROGRESS PAYMENTS AND RETAINAGE** The Contractor shall submit a detailed application for payment on a monthly basis, preferable on an AIA G702 form. Such application for payment, notarized, if required, must be accompanied by supporting data and documents substantiating the Contractor's right to payment and reflecting a five percent (5%) retainage.

Applications for payment shall not include payment for equipment or materials delivered to the site but not installed or for materials or equipment properly stored off-site unless specifically approved by the Project Manager. If such approval is granted, the Contractor must submit with the application for payment, bills of sale or other such documentation satisfactory to the City to establish the City's title to such materials or equipment or otherwise to protect the City's interest, including applicable insurance and transportation to the site for materials and equipment stored off site. Such approvals are typically reserved for "big ticket" items that individually would exceed five percent (5%) of the bid total. The Contractor shall promptly pay each subcontractor and supplier for work completed upon receipt of payment from the City the amount to which said subcontractor is entitled, reflecting any percentage retained from payments to the Contractor on account of each subcontractors work. The Contractor shall, by an appropriate agreement with each subcontractor, require each subcontractor to make prompt payments to his subcontractors in a similar manner.

The City shall be under no obligation to pay or to see to the payment of any moneys to any subcontractor except as may otherwise be required by law.

No Certificate of Payment or partial or entire use of the facility by the City shall constitute an acceptance of any work which is not in accordance with the Contract Documents.

Payments Withheld – The City may decline to certify payment or because of subsequently discovered evidence or observations, nullify the whole or any part of any Certification of Payment previously issued, as may be necessary to protect the City from loss because of: (1) defective work not remedied, (2) third party claim filed or evidence indicating probable filing of such claim, (3) failure of the Contractor to make payments properly to subcontractors or suppliers, (4) reasonable evidence that the work can not be completed for the unpaid balance of the contract sum, (5) reasonable evidence that the work will not be completed within the Contract time, (6) persistent failure to carry out the work.

77. **FINAL PAYMENT REQUEST** Upon reaching substantial completion, as defined by receipt of occupancy permit or when all related punch list items have been completed, whichever date is later, the Contractor may submit a written Application for Final Payment. All supporting documentation and data shall be submitted with the Request for Final Payment as is applicable to the monthly Requests for Payment referenced heretofore.

Out of the amount representing the total of the final payment request the City shall deduct five (5%) percent, which shall be in addition to any and all other amounts which, under the Contract, it is entitled or required to retain and shall hold said sum for a period of one hundred and twenty (120) days after the date of acceptance of the work by the City.

Within thirty (30) days after the approval of the final payment request, the City will pay to the Contractor the amount remaining after deducting from the total amount of the final estimate all such sums as have hereto before been paid to the Contractor under the provision of the Contract and also such amounts as the City has or may be authorized under the Contract to reserve or retain.

Neither the final payment nor the remaining retainage shall become due until the Contractor submits to the Project Manager:

1. An affidavit that all payrolls, bills for materials and equipment and other indebtedness connected with the work for which the City or his property might in any way be responsible, have been paid.
2. Consent of surety to final payment, and
3. If requested, data establishing payment or satisfaction of obligations, such as receipt, release and waivers of liens arising out of the Contract;
4. All punch list items are completed to the satisfaction of the Project Manager.

If any subcontractor refuses to furnish a release or waiver of liens required by the City, the Contractor may furnish a bond satisfactory to the City to indemnify him against any such lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to the City all moneys that the latter may be compelled to pay in discharging such lien, including all costs and reasonable attorney fees.

Acceptance by the Contractor of final payment shall operate as a release to the Mayor and Council and every officer and agent thereof, from all claims and liabilities to the Contractor for anything done or furnished or relating to the work under the contract.

78. **RELEASE OF RETAINAGE** Upon the expiration of the aforesaid period of one hundred and twenty (120) days succeeding the date of acceptance, the City will pay to the Contractor all sums reserved or retained, less such amount as it may be empowered under the provisions of the Contract to retain.

79. **GUARANTEES / WARRANTIES** All guarantees and warranties required shall be furnished by the Contractor and shall be delivered to the Project Manager before final payment is made. The Contractor guarantees that the items conform to the contract documents.

80. **GUARANTEE PERIOD** The Contractor shall warrant and guarantee the work required under this Contract for a period of twelve (12) months from the date of Final Acceptance. The Contractor warrants and guarantees to the City, that materials and equipment furnished under the Contract shall be of good quality and new unless otherwise required or permitted by the Contract Documents, that all work will be in accordance with the Contract Documents, and that all work will be of good quality, free from faults and defects. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. If required by the City, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

The Contractor's obligation to perform and complete the work in a workmanlike manner, free from faults and defects and in accordance with the Contract Documents shall be absolute. The Contractor shall remedy, at his own expense, and without additional cost to the Owner, all defects arising from either workmanship or materials, as determined by the City, or City's representative. The obligations of the Contractor under this Paragraph shall not include normal wear and tear under normal usage.

If the Contractor does not, within ten (10) days after notification from the Project Manager, signify his intention in writing or in action to correct work, as described above, then the Project Manager may proceed with the work and charge the cost thereof to the account of the Contract as herein before provided.

81. **Substantial Completion.** Sufficient completion of the project or the portion thereof to permit utilization of the project, or portion thereof for its intended purpose. Substantial completion requires not only that the work be sufficiently completed to permit utilization, but that the City can effectively utilize the substantially completed work. Determination of substantial completion is solely at the discretion of the City. Substantial completion does not mean complete in accordance with the contract nor shall substantial completion of all or any part of the project entitle the Contractor to acceptance under the contract.

At such time as the Contractor has completed the work and prior to requesting a final inspection, the Contractor shall make written request for an inspection for substantial completion. Such request shall be made no less than seven (7) calendar days prior to the requested date of inspection. An inspection will be made by the City and a determination will be made as to whether or not the work is in fact substantially complete and a "punch list" will be developed. "Punch Lists" containing numerous items or items which may affect the intended

use of the work will be considered cause to delay issuance of a document of Substantial Completion. Operation and Maintenance manuals shall be submitted and approved prior to issuance of any document of Substantial Completion.

82. **TRANSFER OF TITLE** The Contractor warrants that title to all work, materials and equipment covered by the Application for Payment will pass to the City either by incorporation in construction or upon the receipt of payment by the Contractor, free and clear of all liens, claims, interests or encumbrances, and that no work, materials, or equipment covered by an Application for Payment will have been acquired by the Contractor, or by any person performing the work at the site or furnishing materials or equipment for the project, subject to an agreement under which an interest therein or an encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or such other persons.

83. **USE OF PREMISES** Whenever, in the opinion of the Project Manager, any portion of the work is completed or is in an acceptable condition for use, it shall be used for the purpose it was intended, however, such use shall not be held as acceptance of that portion of the work, or as a waiver of any of the provisions of the Contract.

84. **DETERMINATION OF CITY'S LIABILITY** The acceptance by the Contractor of the final payment made as aforesaid shall operate as and be a release to the City and every officer and agent thereof, from all claims by and liabilities to the Contractor for anything done or furnished for or relating to or affecting the work under the contract.

85. **NO LIMITATION OF LIABILITY** The mention of any specific duty or liability of the Contractor in any part of the specification shall not be construed as a limitation or restriction upon any general liability or duty imposed upon the Contractor.

86. **PRESERVATION OF MONUMENTS AND TREES** The Contractor shall be responsible for the preservation of all public and private property, trees, monuments, highway signs, markers, fences, and curbs or other appurtenances, and shall use every precaution to prevent damage or injury thereto. Any expense necessary to provide adequate protection, whether such designated item be on or off the right-of-way, shall be assumed by the Contractor.

87. **PUBLIC ACCESS** The Contractor shall at all times conduct the work in such a manner as to insure the least obstruction to traffic practicable. The convenience and safety of the general public and the residents along the improvement shall be provided for in an adequate and satisfactory manner. Fire hydrants shall be kept accessible to fire apparatus at all times. Handicap access shall remain accessible.

88. **HAZARDOUS AND TOXIC SUBSTANCES** Manufacturers and distributors are required by Federal "Hazard Communication" provision (29 CFR 1910.1200), and the Maryland "Access to Information About Hazardous and Toxic Substances" law to label each hazardous material or chemical container, and to provide Material Safety Data Sheets to the purchaser. The Contractor must comply with these laws and must provide the City with copies of all relevant documents,

including Material Safety Data Sheets, prior to performance of services or contemporaneous with the delivery of goods.

89. **MAINTENANCE OF VEHICULAR TRAFFIC (if applicable)**

Unless otherwise directed by the Project Manager, traffic must be maintained on all roadways within the construction area continuously or with the least amount of interruption during the construction period necessary to minimize accidents and accident severity and maintain safety while at the same time minimizing inconvenience to the traveling public and the Contractor. The Project Manager shall have the exclusive right to order a road to be closed or to remain open. No equipment will be stored or permitted to stand within the limits of the roadway right-of-way where traffic must be maintained. Any earth dropped on the surface of the existing road shall be removed immediately to avoid possible hazardous conditions. The Contractor shall prepare and submit a Traffic Control Plan (TCP) for the Project Manager's review, revision, and approval, at least ten days before beginning work, unless otherwise directed.

All Traffic Control Devices shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), latest edition (and all revisions). With the approved TCP implemented, the Contractor will be permitted to work with the following provisions: All traffic lanes must be restored at the end of each day unless specifically authorized otherwise, in advance, by the Project Manager:

The City reserves the right to modify or expand on the methods of traffic control specified and to restrict working hours if, in the opinion of the Project Manager, the Contractor's operations are a detriment to traffic during rush hour periods.

Signs on fixed supports shall be mounted on two posts. Signs mounted on portable supports are suitable for temporary conditions. During periods of partial shutdown, or extended periods when no work is being performed, the Contractor shall remove or adequately cover all construction signs as directed by the Project Manager.

The Contractor shall be responsible for removing, storing, covering, and resetting all existing traffic signs and delineators that become inapplicable and will confuse traffic during the various stages of construction, the cost of which shall be included in the price for Maintenance of Traffic or in the absence of such a pay item it shall be accomplished at no additional compensation, as incidental to the contract. Any signs lost or damaged will be replaced by the Contractor at its expense.

The Contractor shall provide, maintain in new condition, and move when necessary or directed all traffic control devices used for the guidance and protection of vehicles.

The Contractor shall be responsible for providing the appropriate signs to reflect varying traffic patterns prior to the commencement of a new stage of construction.

Traffic must be safely maintained at all times throughout the entire length of the project. No additional compensation shall be paid to the contractor for traffic maintenance, even if the contract time exceeds the contractually specified completion date or working days.

When required lane shifts are implemented, existing painted lane markings no longer applicable shall be removed to the satisfaction of the Project Manager.

Temporary crash cushions are to be installed as shown on the Plans. Unless otherwise specified, sand containers shall be used. The crash cushions shall conform to Subsection 104.10 of the MDSHA Specifications.

Crash cushions shall be reset to reflect changing traffic patterns caused by different stages of Traffic Control. The crash cushions shall be reset at locations shown on the Plans or as directed by the Project Manager.

Should any of the sand container components be damaged during the resetting of the system or during the course of the project, the Contractor shall replace the damaged components at its own expense.

The Contractor shall have flaggers on this Project for the purpose of controlling traffic while maneuvering heavy equipment. This may require a temporary lane closure in any of the specified Traffic Control Phases. These temporary lane shutdowns shall be kept to a minimum and the normal traffic pattern for the Traffic Phase shall be restored as quickly as possible. The Contractor shall comply with Section B-20 of the MUTCD regarding flagger signing.

Prior to stopping work each day the Contractor will be required to reshape all graded areas and eliminate all drop-offs not protected by barriers by filling with compacted stone at maximum of 8:1 slope.

All barriers and barricades shall be adequately illuminated at night, as specified herein, and all lights for this purpose shall be kept operative from sunset to sunrise.

No work shall be commenced in any stage of construction until the barriers and barricades for that stage, indicated on the Plans, or as specified by the Project Manager, are completely in place. The Contractor will be solely responsible for all accidents and damages to any persons and property resulting from its operations. Compliance with prescribed precautions contained herein or in the MDSHA Specifications or Manual On Uniform Traffic and Control shall not relieve the Contractor of its primary responsibility to take all necessary measures to protect and safeguard the work, nor relieve the Contractor from any responsibilities prescribed by GP-7 of the January 2001 MDSHA Standard Specifications for Construction and Materials.

The Contractor shall notify and obtain approval in writing from the Project Manager, at least 48 hours before changing any Traffic Control Phase.

Any construction materials or debris dropped on the roadway surface shall be removed immediately to avoid possible hazardous conditions.

Materials The Contractor shall provide, maintain in first class condition, replace and move when necessary or directed all materials, devices, flagging, etc., required to maintain traffic in accordance with the Traffic Control Plans or as directed by the Project Manager. Reference is made to the latest edition of the MUTCD, wherein all

such items are fully described with regard to use, application, warranties, size, color, placement, etc., and wherein typical traffic control device layouts are shown, as all such devices and techniques planned for use on this project shall strictly conform to the Manual's request except as noted on the Plans.

When any of the following items have been established on the Plans or as directed by the Project Manager, the Specifications will be adhered to in accordance with the respective sections.

Lights, Warnings, Etc. - All banners and imitation barrels shall be adequately illuminated at night, and all lights for this purpose shall be kept operative from sunset to sunrise.

Steady burning warning lights shall be used to delineate channelization through and around obstructions in a construction or maintenance area, on detour curves, on lane closures, and in other similar conditions (MUTCD 6E-4, 6E-5). Flashing warning lights shall be the means for identifying a particular and individual hazard and shall not be used in sequence, in clusters, or for delineation (MUTCD: 6E-5, 6E-6).

Where noted on the plans the first two (2) warning signs shall include a "High Level Warning Device." In addition to the flags the signs shall also be equipped with a Type "B" High Intensity Flag Warning Light. This device must meet the requirements of MUTCD 6C-11 and 6E-5. The device shall be incidental to the Temporary Traffic Sign item if provided for, otherwise the costs shall be considered incidental and no special compensation will be paid.

Barriers: Temporary concrete barriers shall be installed on the roadway approaches as shown on the plans or as approved in writing.

Any permanent facilities damaged as a result of anchoring temporary concrete barriers (anchor holes, etc.) shall be repaired to the satisfaction of the Project Manager using an epoxy grout or other material as may be specified by the Project Manager. Epoxy grout shall consist of sand and epoxy, mixed by volume according to manufacturer's recommendations.

Method of Measurement and Basis of Payment: All work and materials required under the TCP not covered or specified as a pay item on the price proposal form will be included in the lump sum price bid for Maintenance of Traffic. In the absence of such an item the Contractor agrees that there will be no special compensation paid for maintenance of vehicular traffic as described above and the cost shall be considered incidental to the contract and compensated as part of other contract bid item(s).

90. **PARKING, STORAGE AND STAGING AREAS** Parking, storage and staging areas for the Contractor's use during the Project must have prior approval of the Project Manager. All areas used for storage of equipment or material shall be restored to their original condition, immediately upon completion of the work. No additional compensation will be provided for restoring, re-grading, placement of topsoil, and seed and mulch in these areas.

91. **PEDESTRIAN TRAFFIC** Pedestrians shall be safeguarded by the use of signs lights, barricades and barriers as shown on the traffic control plan and/or directed by the Project Manager. Pedestrian traffic shall be maintained at all times unless specifically authorized otherwise, in advance, by the Project Manager. The Contractor shall submit a pedestrian traffic safety plan in accordance with the MUTCD, incorporating safety measures and other provisions to fully implement the intent of this paragraph. All work and materials required to prepare and implement the pedestrian traffic safety plan shall be considered incidental to the contract and there shall be no special compensation paid for this item unless special pay items are included in the Price Proposal page. No additional compensation shall be paid for maintenance of vehicular and pedestrian traffic if for whatever reason the project time extends beyond the contract specified completion date or working days.

92. **HANDICAP ACCESS** Where handicap access exists within the line of work under this contract it will be the contractor's responsibility to maintain said access during the life of this contract. This service is considered to be incidental to this contract and no special compensation will be paid for this service unless provided on the Price Proposal page.

93. **TOILET FACILITIES** Toilet facilities meeting MOSHA standards shall be provided at the job site for all projects exceeding \$100,000 in value and at all other job sites when directed by the City. No special compensation shall be paid unless specifically provided for in the Price Proposal page of this solicitation.

94. **STAKEOUT-CONSTRUCTION CONTROL** Survey construction control provided by the City shall be limited to the baseline with stations not over 100 feet, and the elevation of the top of each marked point. P.C.s, P.T.s. P.I.s, P.V.T.s, and at least one point on the tangent beyond the end of each curve will be staked. The Contractor shall request baseline stakeout a minimum of five days in advance of construction. Stakeout data other than stated above will be furnished by the construction Contractor per MDSHA Section 815 for structures, otherwise per WSSC specs. section 01000(H) and as described in detail below and in these specifications. The City's responsibility for stakeout for the entire project shall be limited to that data described above and this shall be provided only once. The Contractor shall preserve or otherwise ensure adequate survey controls exist throughout the life of the contract.

Surveys and stakeout shall be accomplished by the Contractor as outlined above and in conformance with WSSC specifications Section 01000-10-I I(H), entitled "Construction Stakeout By Contractor."

The provisions therein are primarily for pipeline stakeout. The Contractor's responsibilities under this contract are hereby expanded to include, in addition to pipeline stakeout, similar responsibilities for all phases of stakeout necessary to construct all facilities under this contract including but not limited to clearing and grubbing excavation, pavement, curbs and gutters, storm drainage pipes and facilities, culverts, structures, storm water management facilities, street lights, traffic signal conduits and components, noise walls, retaining walls, ditches and sediment control features.

The stakeout and survey record data shall be preserved and turned over to the City for filing following completion of specific components of work.

Method of Measurement and Payment Generally, stakeout shall be considered incidental to the contract and no special compensation shall be paid, unless a specific pay item is included in the contract Price Proposal page of this contract. Where payment is provided, progress payments for stakeout shall be made based on the percentage resulting from the price bid for stakeout divided by the total bid, multiplied by the monthly payment exclusive of the stakeout payment, except the final payment shall be adjusted as necessary to equal the total price bid for stakeout.

Grade Sheet by Contractor: Grade sheets showing hub and design elevations for roadway, water mains, drainage structures and piping, walks, lights, infiltration facilities clearing/grubbing, excavation, and related components will be provided by the construction Contractor at least 8 hours in advance of construction and will be subject to approval by the Project Manager. Stakeout for curb and gutter in all vertical and horizontal curves is to be at intervals of 25 feet or less unless otherwise specifically authorized by the Project Manager. This work is considered incidental to the contrast and no extra compensation will be paid.

95. **DEBRIS** Under no circumstance will any open fires be permitted within the City of Rockville. All debris will be removed and hauled from site (except when otherwise specifically authorized in the bid document) and disposed in accordance with Local, State and Federal laws in effect at the disposal site. No special compensation will be paid as all costs for off-site disposal shall be included in the applicable bid prices and considered incidental to the contract.
96. **CLEAN UP** In addition to any provisions regarding clean up in the bid document, clean up, including the restoration of areas of construction, shall proceed as quickly as is practicable. The period between construction and final clean up shall normally not exceed one week. If at any time during the course of the work the cleaning operation in any given area becomes delinquent in the opinion of the Project Manager he may order that construction be stopped until such cleaning is completed. Any such order shall not extend the Final Completion date under this contract. Unless otherwise indicated, all materials razed, demolished, or otherwise removed from the work site shall become the property of the Contractor and shall be disposed of legally and properly off site at his expense.

Upon Final Completion of the work and before acceptance and final payment shall be made, the Contractor shall clean and remove from the street, footways, lawns, and adjacent property, all surplus and discarded materials, rubbish and temporary structures, restore in an acceptable manner all property, both public and private, which has been damaged during the prosecution of the work and shall leave the work area in a neat and presentable condition throughout the entire length of the project under contract.

If the Contractor fails to clean up at Final Completion of the work, the City may do so and the cost thereof shall be charged to the Contractor.

INSURANCE REQUIREMENTS REV2 (09/08)

Prior to the execution of the contract by the City, the Contractor must obtain at their own cost and expense and keep in force and effect during the term of the contract including all extensions, the following insurance with an insurance company/companies licensed to do business in the State of Maryland evidenced by a certificate of insurance and/or copies of the insurance policies. The Contractor's insurance shall be primary. The Contractor must electronically submit to the Purchasing Division a certificate of insurance prior to the start of any work. In no event may the insurance coverage be less than shown below.

Unless otherwise described in this contract the successful contractor and subcontractors will be required to maintain for the life of the contract and to furnish the City evidence of insurance as follows:

MANDATORY REQUIREMENTS FOR INSURANCE

Contractor's insurance coverage shall be primary insurance as respects the City, its elected and appointed officials, officers, consultants, agents and employees and any insurance or self-insurance maintained by the City, shall be excess of the Contractor's insurance and shall not be called upon to contribute with it.

Type of Insurance	Amounts of Insurance	Endorsements and Provisions
1. Workers' Compensation 2. Employers' Liability	Bodily Injury by Accident: \$100,000 each accident Bodily Injury by Disease: \$500,000 policy limits Bodily Injury by Disease: \$100,000 each employee	Waiver of Subrogation: WC 00 03 13 Waiver of Our Rights to Recover From Others Endorsement signed and dated.
3. Commercial General Liability a. Bodily Injury b. Property Damage c. Contractual Liability d. Premise/Operations e. Independent Contractors f. Products/Completed Operations g. Personal Injury	Each Occurrence: \$1,000,000	City to be listed as additional insured and provided 30 day notice of cancellation or material change in coverage. CG 20 37 07 04 and CG 20 10 07 04 forms to be both signed and dated.
4. Automobile Liability a. All Owned Autos b. Hired Autos c. Non-Owned Autos	Combined Single Limit for Bodily Injury and Property Damage - (each accident): \$1,000,000	City to be listed as additional insured and provided 30 day notice of cancellation or material change in coverage. Form CA20 48 02 99 form to be both signed and dated.
5. Excess/Umbrella Liability	Each Occurrence/Aggregate: \$1,000,000	City to be listed as additional insured and provided 30 day notice of cancellation or material change in coverage.
6. Professional Liability	Each Occurrence/Aggregate: \$1,000,000	

Alternative and/or additional insurance requirements, when outlined under the special provisions of this contract, shall take precedence over the above requirements in part or in full as described therein.

POLICY CANCELLATION

No change, cancellation or non-renewed shall be made in any insurance coverage without a thirty (30) day written notice to the City Purchasing Division. The Contractor shall electronically furnish a new certificate prior to any change or cancellation date. The failure of the Contractor to deliver a new and valid certificate will result in suspension of all payments and cessation of on-site work activities until a new certificate is furnished.

ADDITIONAL INSURED

The Mayor and Council of Rockville, which includes its elected and appointed officials, officers, consultants, agents and employees must be named as an additional insured on the Contractor's Commercial and Excess/Umbrella Insurance for liability arising out of contractor's products, goods, and services provided under this contract. Additionally, The Mayor and

Council of Rockville must be named as additional insured on the Contractor's Automobile and General Liability Policies. Endorsements reflecting the Mayor and Council of Rockville as an additional insured are required to be submitted with the insurance certificate.

SUBCONTRACTORS

All subcontractors shall meet the requirements of this Section before commencing work. In addition, Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

CERTIFICATE HOLDER

The Mayor and Council of Rockville

(Contract #, title)

City Hall

111 Maryland Avenue

Rockville, MD 20850

SPECIAL PROVISIONS

These Special Provisions are hereby made a part of the contract. In case of conflict with the terms and conditions or the Specifications of the City of Rockville, Montgomery County Government, the Washington Suburban Sanitary Commission, the Maryland State Highway Administration, the Maryland Department of the Environment or the Montgomery Soil Conservation District, the Special Provisions shall govern.

PROJECT DESCRIPTION

The project creates bike lanes and on-street parking on North Washington Street between MD 355 and MD 28, and on East Middle Lane between North Washington Street and MD 355. It also includes widening the sidewalk on the south side of East Middle Lane between North Washington Street and Maryland Avenue.

The project includes furnishing of all materials, labor, equipment, tools and services, and all other associated work as shown on the Construction Drawings and included in these documents.

The project does not include milling and overlay on Washington Street and E. Middle Lane within the project limits. The milling and overlay will be done by others. The awarded Contractor shall communicate with the City's Construction Management in advance to schedule and complete the pavement markings after the overlay.

CONTRACT TERM

The awarded Contractor shall commence work within 10 working days from the date of issuance of the Notice to Proceed (NTP).

The awarded Contractor shall complete all work within 240 calendar days of the date of the Notice to Proceed.

NOTICE TO PROCEED AND COMPLETION SCHEDULE

The specified completion date and time shown herein below is to be strictly adhered to unless authorized or directed otherwise in writing by the Chief of the Construction Management Division, DPW. The completion date, where specified, has an allowance for inclement weather and holidays. Time extensions for unusual conditions causing project delays not covered in these special provisions will be subject to the conditions covered under the GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS; however, no compensation above that indicated herein for specific items shall be paid to the Contractor for any delay, regardless of the source of delay.

The Contractor shall provide a bar-chart schedule at the Project Kick-Off Meeting or at such time as directed by the Chief of Construction Management, but not more than once per month or with any change order. In addition, the contractor shall verbally provide updates to the Project Inspector as requested.

CONSTRUCTION WORK HOURS

Work is permitted between 7:00 am to 5:00 pm, Monday through Friday. Working outside of these hours must first be approved by the City. Work on any street, other than secondary residential (generally 26' in width) shall be limited to 9:00 am to 3:30 pm Monday through Friday. No work shall be permitted outside these hours unless written approval is obtained from the Chief, Construction Management Division or his designee. This also applies to construction related activities such as dewatering or pumping where construction crews may not be on site.

COVID-19 PRECAUTIONS DURING CONSTRUCTION

During COVID-19, special precautions are required during construction, as recommended by the Centers for Disease Control (CDC) website at:

<https://www.cdc.gov/coronavirus/2019/ncov/community/organizations/constructionworkers.html>
and summarized below:

- Wear face coverings at all times, whether working inside or outside;
- Limit close contact with others by maintaining a distance of at least 6 feet, when possible;
- Clean and disinfect frequently touched surfaces such as shared tools, machines, vehicles and other equipment, handrails, ladders, doorknobs, and portable toilets. Clean and disinfect frequently touched surfaces periodically throughout the shift but also:
 - At the beginning and end of every shift; and
 - After anyone uses a shared vehicle, tools and/or workstation.
- Limit tool sharing if possible;
- Practice proper hand hygiene by cleaning hands often, to include:
 - before and after work shifts and breaks; after blowing your nose, coughing or sneezing;
 - Before putting on and removing eye and/or face protection (face masks, safety glasses, goggles, etc.); and
 - Use hand sanitizer (minimum 60% alcohol) as much as possible when not able to use a sink.
- Notify Contractor supervisor and stay at home if experiencing any symptoms (refer to CDC website for list of symptoms);
- Follow CDC-recommended steps if one of the contractors becomes sick and do not allow the person to return to work until the criteria to discontinue home isolation are met, as per the CDC website.
- Notify City's Project Manager of any positive COVID cases that are reported onsite from a City facility, to allow for appropriate contact tracing.

The Contractor should also abide by OSHA COVID-19 standards, found at:

<https://www.osha.gov/SLTC/covid-19/>

Since the Rockville WTP is located in Montgomery County, also refer to their COVID-19 policies/procedures found at:

<https://montgomerycountymd.gov/covid19/reopening/>

and

<https://www.montgomerycountymd.gov/covid19/>

CONTRACT DOCUMENTS

In addition to the requirements of GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS, Item No. 40, in the case of discrepancies in the Contract Documents and need for interpretation, the documents shall be given precedence in the following order:

- Change Orders
- Addenda
- General Conditions and Instructions to Bidders (City of Rockville)
- Technical Specifications
- Special Provisions
- Drawings
- Standard Details by others
- City of Rockville Standard Details for Construction
- Applicable Standards listed below

Any questions, requests for information or revisions to the specifications must first be reviewed and approved by the City of Rockville.

APPLICABLE STANDARDS

As a minimum standard of quality workmanship, all work is to comply with the latest provisions and recommendation of the following documents in the following order of precedence. In the event of conflict, the City's determination shall govern.

- City of Rockville Standards and Details for Construction, latest edition.
- Washington Suburban Sanitary Commission, General Conditions and Standard Specifications, latest edition.
- Montgomery County Department of Public Works and Transportation Design Standards, latest edition.
- Montgomery County Department of Permitting Services, Water Resources Division, Standard Details, latest edition.
- Maryland Department of Transportation, State Highway Administration's (MDSHA) "Standard Specifications for Construction and Materials" including all errata and addenda thereto and additions included in these special provisions, latest edition.
- MDSHA Book of Standards and Standard Specifications for Construction and Material, latest edition.
- MDSHA Manual on Uniform Traffic Control Devices for Streets and Highway (MD-MUTCD) and Temporary Traffic Control Typical Applications (TTCTA), latest edition.
- Maryland Department of the Environment (MDE) Soil Erosion and Sediment Control Regulations, latest edition.
- American Society for Testing and Materials, (ASTM) Standards, latest edition.
- American Water Works Association Standards (AWWA) Standards, latest edition
- American Association of State Highway and Transportation Officials, (AASHTO) Standards, latest edition
- American Concrete Institute (ACI) Standards, latest edition.

All references to the State of Maryland, State, S.R.C, State Roads Commission, State Highway Administration or Commission in the Special Provisions, Technical Specifications or Book of Standards shall be interpreted to refer to the City of Rockville Department of Public Works.

PERMITS

The Contractor is responsible for implementation and compliance with all conditions of all permits as listed below:

- **City of Rockville Sediment Control Permit-** This City permit is issued by the Department of Public Works and is attached in Appendix A;
- **City of Rockville Forestry Permit-** This City permit is issued by the Planning and Development Services Department and it is attached in Appendix A. Approved Landscape Plans are also attached in Appendix A;

The Contractor is responsible for all reporting, inspection requests, documentation and notifications associated with these permits. Compensation for implementation of the requirements of the above permits is to be included in appropriate bid items and no special compensation will be made.

PROJECT KICK-OFF MEETING AND PRE-CONSTRUCTION MEETINGS

Upon issuance of the Purchase Order, the Contractor shall arrange a pre-construction meeting between the Contractor, the design engineer's representative, and appropriate City staff, including the Chief of Construction Management, Project Inspector, appropriate Permit Inspector and Public Works Project Manager. The contractor shall provide the pre-construction meeting at least 10 business days' notice. No compensation will be made by the City to the Contractor for meetings.

All subsequent notifications for inspection and coordination with the City are the responsibility of the Contractor.

EMERGENCY CONTACT INFORMATION

The Contractor shall provide the name(s) and phone number(s) of a representative(s) of the Contractor who can be reached in case of an emergency. This shall be submitted to the City prior to the start of construction.

EMERGENCY INFORMATION

The Contractor shall post information concerning emergency medical, fire, rescue and hazardous waste phone numbers from which personnel on the site can obtain information if needed. The Contractor shall also list the name and number of at least two representatives of the Contractor who can be reached in case of an emergency. The representatives must be fluent in English. The emergency information shall be in a central position, so it is visible and accessible 24 hours a day. The emergency information shall be posted for the entire length of the Contract.

SITE CONDITIONS

The Contractor shall visit each work site prior to performing the work to verify the existing conditions.

PUBLIC UTILITIES

Comply with MDSHA Specifications under Sections GP 5.05, and GP 7.17 regarding public utilities.

It shall be the Contractor's responsibility to cooperate to the fullest extent possible with the utility owners in their work of adjusting the existing utilities to suit the proposed construction under this contract. All utilities, unless provided for on the contract drawings, shall be relocated or constructed by their respective owners.

The location of existing utilities shown on the plans and profiles are approximate only and it shall be the Contractor's responsibility to determine the exact location of the utilities prior to commencing work in all areas of possible conflict. All test pits must be completed in coordination with the City and the affected utility companies. The existence of utilities other than those shown on the plans is not known. If, during construction operations, the Contractor should encounter additional utilities, he shall immediately notify the City and take all necessary and proper steps to protect the continuance of service of such facilities.

The Contractor shall notify the utility owner and City when previously unknown or different utilities are encountered. The Contractor shall support and protect existing utilities whether or not shown on the plans at no additional cost to the City. The Contractor shall not receive compensation for the temporary relocation of or temporary installation of utilities that are constructed for the convenience of the Contractor.

In case of any damage to utilities by the Contractor, either above or below ground, the owner shall be immediately notified. The Contractor shall arrange for restoration of such utilities to a condition equal to that which existed before the damage was done, by repairing, rebuilding, or otherwise restoring as may be directed, and at the Contractor's entire cost and expense.

The Contractor shall take into consideration when preparing his bid, the costs associated with the coordination during construction with various utility companies for any relocation or installation by the utility companies which may be necessary in areas within, or adjacent to, the limits of his contract. No additional compensation or time extensions will be allowed the Contractor for work interruptions, changes in construction sequences, changes in methods of handling excavation and drainage, and changes in types of equipment used, made necessary by others performing work within, or adjacent to, the limits of this contract. The contract time as stated in this contract includes the time needed for utility adjustments and no extension of time will be granted for delays caused by utility adjustments.

All other expenses likely to be incurred by the Contractor as a result of working around and protecting utilities, as well as cooperating with the owners of same during the relocating of such facilities, will not be measured or compensated for under any stipulated pay item.

CONTACTS

The following utility companies and City departments may be affected by this project. It shall be the Contractor's responsibility to notify all utilities and/or City departments and coordinate his construction operations with them to avoid unnecessary delays.

City of Rockville – Forester

Ms. Paula Perez
240-314-8705

City of Rockville – Chief of Traffic and Transportation

Mr. Emad Elshafei
240-314-8508

City of Rockville – Chief, Construction Management

Mr. Mike Wilhelm
240-314-8542
mwilhelm@rockvillemd.gov

City of Rockville – Operations & Maintenance Superintendent

Mr. Steve Sokol
240 -314-8567

City of Rockville – Project Inspector

Mr. Taylor Bradley
240-314-8545
tbradley@rockvillemd.gov

City of Rockville – Sediment Control Inspector

Mr. Arthur Simpson
240-314-8700

City of Rockville – DPS Forestry Inspector

Mr. Shaun Ryan
240-314-8233

City of Rockville – Civil Engineer

Mr. David Waterman
240-314-8528

City of Rockville – Project Manager

Mr. Daniel Seo
240-314-8510

City of Rockville – Water and Sewer Utilities

240-314-8567

MISS UTILITY

1-800-257-7777 or 811

Transcontinental Gas

410-465-0960

Verizon

1-800-837-4966

Washington Gas Company

844-927-4427

Washington Suburban Sanitary Commission (WSSC)
301-206-4001

For Locations of Utilities, call "MISS UTILITY", at 811, 1-800-257-7777 or <http://www.missutility.net/>

Before interfering with any utility service, the Contractor shall notify the affected utility companies and affected property owners in advance and coordinate any required service interruption with the owner and City. For any water service shut-down, the Contractor must provide at least 21 calendar days' notice such that the City can provide proper notification. The Contractor shall be responsible for contracting Miss Utility for the location of all utilities prior to the start of work.

PROTECTION OF WORK, PROPERTY AND PERSONS

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with this project. All necessary precautions shall be taken: to prevent injury to the Contractor's employees and other persons who may be affected by the project; to prevent damage to or loss of materials or equipment incorporated into the project; and to protect other property at or adjacent to the site including but not limited to trees, shrubs, lawns, walks, fences, pavements, roadways, utilities, structures, buildings, playgrounds and park facilities not designated for removal, relocation, or replacement in the course of construction; to provide warning signs as directed by the City for personnel and the public. Costs associated with this work are incidental to the work and no specific payments will be made.

SITE ACCESS

Access to the site is by public streets and thoroughfares. After the completion of the project, all roads, driveways, parking lots, sidewalks, landscaping, fences, utilities, structures, buildings, lawns and other facilities not designated for removal, relocation or replacement that are damaged by the Contractor's actions shall be restored to the same condition or better. Prior to any construction activities, it is the Contractor's responsibility to document any existing damage or conditions indicative of substandard facilities. Costs associated with this work shall be included with the appropriate Pay Item.

Access to parks, easements across private property and other City-owned property in wooded areas must be coordinated with the City and the private property owners prior to the Contractor entering the property.

ACCESS TO ADJACENT PROPERTIES

Access must be maintained to all properties abutting this project at all times. All work affecting private properties is to be coordinated with the property owner by the Contractor. The Contractor shall maintain access to private driveways at all times unless specifically approved in advance by the City.

ENTERING PRIVATE PROPERTY TO PERFORM WORK

The Contractor shall carefully examine the plans provided to ensure a clear understanding of the private property limits and work limits. Under no circumstances shall the Contractor enter beyond the specified limits or perform any work that affects private property without advance notice to and permission from the private owner and the City.

PRESERVATION AND RESTORATION OF PROPERTY & MONUMENTS

The Contractor is to carefully examine the plans provided with the contract drawings to ensure a clear understanding of the private property limits and work limits. The Contractor shall not enter upon private

property for any purpose without first obtaining permission from the City and written permission from the property owner. The Contractor shall be responsible for the preservation of all public and private property, including but not limited to plants (trees, shrubs, and seasonal vegetation), lawns, walks, fences, pavements, roadways, utilities, structures, buildings, playgrounds and park facilities not designated for removal, relocation, or replacement, along and adjacent to the work areas, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall take suitable precaution to prevent damage to underground or overhead public utility structures and must protect carefully from disturbances or damages all land monuments and property markers until the Project Inspector has witnessed or otherwise referenced their locations. All disturbed monuments and markers must be reset to their correct location by the Contractor at no additional compensation.

The Contractor shall be responsible for all damages or injury to public or private property of any character during the prosecution of the work, resulting from any act, omission, neglect or misconduct in his manner or method of executing said work satisfactorily, or due to the non-execution of said work, or at any time due to defective work or materials. When or where any direct or indirect damage or injury is done to public or private property or on account of any act, omission, neglect or misconduct in the execution of the work or in consequence of the non-execution thereof on the part of the Contractor, the Contractor must restore, at its own expense, such property to a condition similar or equal to rebuilding or otherwise restoring as may be directed by the City, or he shall make good such damage or injury in an acceptable manner. In case of the failure on the part of the Contractor to restore such property in a reasonable amount of time, or make good such damage or injury the City may, upon 24 hours' notice, proceed to repair, rebuild or otherwise restore such property as may be deemed necessary and the cost thereof will be deducted from any monies due or which may become due the Contractor under this Contract. City crews or another Contractor may accomplish said work.

After the completion of the project, all plants (trees, shrubs, and seasonal vegetation), lawns, walks, fences, pavements, roadways, utilities, structures, buildings, playgrounds and park facilities and other facilities not designated for removal, relocation or replacement that are damaged by the Contractor's actions shall be restored to the same condition or better. Prior to any construction activities, it is the Contractor's responsibility to document any existing damage or conditions indicative of substandard facilities. The Contractor shall provide pre-project photographs or videotape of the project work areas to the DPW Project Inspector. Costs associated with this work are incidental to the work and no specific payments will be made.

All of the requirements outlined above shall be considered incidental to this contract and no special compensation shall be paid.

SITE CONDITIONS

The Contractor shall visit each work site prior to performing the work to verify the existing conditions.

CONTRACTORS STAGING AND STORAGE

The Contractor will establish temporary staging areas as approved by the City. Cleanup of each staging area shall occur daily. Contractor shall cover topsoil, stone, and aggregate stockpiles with tarps to prevent sedimentation of the street.

Submit a sketch (a marked up set of plans is acceptable) and brief description for approval by the Chief of Construction Management showing the location of equipment and materials, location of portable sanitary toilet, and means and methods to protect pedestrians and existing public facilities (including trees) within

the area as shown on the plans. This plan may have to be approved by the City Forester, if any grassed or tree areas will be utilized.

There shall be no payment for this work. It shall be considered incidental to the contract.

TEMPORARY UTILITIES

The Contractor shall pay all fees, obtain necessary permits, and have meters installed for temporary utilities as may be required for the execution of this contract. As needed, the Contractor through direct local arrangements must obtain temporary electric service for the purpose of this contract with the electric company, PEPCO. The Contractor shall furnish and install all necessary temporary service drops, wiring, connections, etc., necessary for temporary service required by the Contractor. All costs associated with any temporary electric service required by the Contractor are considered incidental to other pertinent pay items. This item shall not be measured for payment.

The Contractor shall, at the beginning of the project, provide suitable temporary sanitary toilet facilities on the premises, in accordance with the GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS. The City shall approve the location of the sanitary toilet.

POSTING PARKING RESTRICTION SIGNS

The Contractor shall be responsible for furnishing adequate personnel, equipment and sign stakes as necessary to post City furnished parking restriction signs a minimum of 48 hours and no more than 72 hours in advance of the construction operations for that particular portion of that street. The Contractor shall coordinate the schedule in advance with the City and shall mark the signs with the appropriate restriction dates. Parking may not be restricted for more than three consecutive dates without prior written City approval. Towing of parked vehicles shall be the responsibility of the Project Inspector only. Vehicles will not be towed unless the Project Inspector has verified that the proper parking restriction signs were posted a minimum of 48 hours in advance. The Contractor shall be responsible for revising the dates on the signs in the event of delays in the schedule and for the prompt removal of the signs when the construction operation is complete. The signing operation shall be closely coordinated with the Project Inspector and no signs shall be marked, posted, revised, reposted, or removed without the Project Inspectors advanced authorization. Signs and stakes shall be carefully removed and revised and reused until otherwise authorized by the Project Inspector.

Stakes shall be 2-inch x 2-inch, four (4) feet long, driven a minimum of one foot into the ground or until stable.

Signs must be spaced no more than forty (40) feet apart. Where street trees exist and it is determined that their use will not damage the tree, the signs shall be placed approximately four (4) feet above the ground. Where no street trees are available, signs must be placed on stakes provided by and installed by the Contractor. Black waterproof indelible markers shall be provided by and used by the Contractor and numbers shall be large and legible.

No special compensation shall be paid to the Contractor for the posting of the no parking signs and shall be considered incidental to the appropriate pay item.

CONSTRUCTION STAKEOUT AND AS-BUILTS

Construction Stakeout shall be in accordance with Section 107 of the Maryland SHA Standard Specifications for Construction and Materials (2018, or current), with the following exceptions:

The Contractor shall be responsible for all construction stakeout.

The Contractor shall complete project as shown on approved plans. The City will not provide any construction stakeout for this project. Contractors are to use benchmark and layout information as shown on the plans.

The Contractor shall provide as-built information. One set of redline as-builts shall be maintained and kept on-site at all times. Any deviations from approved plans shall be marked, in red, on the as-builts. As-built information shall consist of any deviation to the approved plan such as grading limits, slopes, types/length/height of restoration features, and any modifications to typical details. Upon completion of project, submit as-builts for approval. Retainage shall not be released until as-builts are approved.

The City will provide an electronic CAD file of the layout information for the Contractor. The Contractor must complete an agreement for receipt of the electronic file.

AERIAL ELECTRIC LINES

The Contractor shall be aware that State law requires that a 10-foot radial clearance shall be maintained for all construction equipment and materials in relation to electric lines carrying 750 volts or more. Because the State law is more stringent than the Federal laws, the State law shall be considered the minimal distance.

TRAFFIC/PEDESTRIAN CONTROL

All work shall be accomplished in a manner to minimize obstruction to vehicular and pedestrian traffic. The Contractor shall abide by the conditions for construction traffic, as set forth in the latest edition of the Maryland Manual on Uniform Traffic Control Devices, U.S. Department of Transportation Work Zone Traffic Control and/or the Project Inspector's directives. All sidewalk closures shall have signage which directs pedestrians to open sidewalks.

NOISE CONTROL MEASURES

All work must comply with the noise ordinance requirements for Montgomery County. A copy of the ordinance enforced by the Department of Environmental Protection (DEP) is attached to these contract documents in Appendix B for observation and compliance. With City approval, the Contractor may request a waiver through Montgomery County. The Contractor is fully responsible to submit the request and comply with any conditions of the waiver approval. The Contractor shall consider the processing time of this request, which includes a public notice element, when scheduling their work.

WATER POLLUTION CONTROL MEASURES

The Contractor shall not discharge or permit discharge into the waters, canals, ditches, or drainage system any fuels, oil, bitumen, garbage, sewage or other materials which may be harmful to fish, wildlife or vegetation or that may be detrimental to outdoor recreation. The Contractor shall be responsible for investigation and complying with all applicable federal, state and local laws and regulations governing pollution of water. All work under this Contract shall be performed in such a manner that objectionable conditions will not be created in waters through or adjacent to the project areas.

AIR POLLUTION CONTROL MEASURES

All fine-grained, loose materials hauled to or from this project shall be covered to prevent spillage and blowing. Material, which is not covered after notification by the City, will not be accepted for use on this project. This material will not be included in measurement for payment.

Burning will not be permitted.

ENVIRONMENTAL PROTECTION MEASURES

Impervious barriers, (i.e., plastic, metal drip pans, etc.) shall be placed under any compressors, generators, welding machines, etc., to prevent oils, solvents, organic compounds, or other contaminants from leaching into the soil. Any oils, solvents, organic compounds, or contaminants spilled on the site during the process of the work shall be immediately removed and cleaned up by the Contractor. Any earth contaminated by a spill shall also be removed and replaced with new certified clean material to the satisfaction of the City and the Maryland Department of the Environment (MDE). If the City has to remove the oils, solvents, organic compounds, contaminants, or earth, the City may deduct the costs of removal and clean up from the total contract amount owed the Contractor.

EROSION AND SEDIMENT CONTROLS

The Contractor is responsible for adhering to the City's laws and ordinances regarding sediment control. The Contractor shall be responsible for coordinating all work, and for notifying the City:

- Upon installation of all erosion and sediment control devices to schedule a "Notice to Proceed" inspection prior to commencing work.
- Prior to removing sediment control devices; and
- Upon completion of final grading, establishment of ground covers and approved land stabilization.
- During the progression of all work, the Contractor shall make periodic inspections and maintain sediment control devices, including cleaning and routine maintenance as directed or necessary, to ensure that the intended purpose is accomplished. Under no circumstances shall sediment be allowed to enter private properties, storm drains, or City waterways.

When directed in the field by the Project Inspector, the Contractor shall be required to make adjustments in location and/or increase or decrease quantities of sediment control measures and provide temporary stabilization measures.

All sediment control measures shall be installed and maintained as shown on the Construction Documents in Engineering Drawings, Section VII, City of Rockville Standard Erosion and Sediment Control Notes, MDE Standards and Specifications for Soil Erosion and Sediment Control, in compliance with the MDE Notice of Intent (NOI) General Permit for construction activities, and as directed by the Project Inspector. Please refer to MDSHA "Standard Specifications for Construction and Materials" including all errata and addenda thereto and additions included in these special provisions, latest edition (i.e., 2017, section 308.02 Material and section 308.03 Construction).

Furnish and install temporary erosion and sediment controls. The Contractor is to protect the integrity of the erosion control measures installed. The erosion control measures shall be provided until such times as the temporary ground cover is sufficiently established, and the Project Inspector gives written authorization to remove said measures. The Contractor shall comply with all local, state and federal laws, ordinances, and regulations pertaining to erosion, sediment and pollution control, including those promulgated by the State of Maryland, and shall indemnify and hold harmless the City from and against all claims, damages, losses and expenses resulting from such work.

The Contractor shall have an employee present on site at all times who has met the requirements for certification of the Responsible Personnel training in erosion and sediment control according Maryland State Law. This employee shall have sufficient authority to install, maintain, adjust or otherwise implement approved sediment control measures.

The Contractor shall take all measures to control erosion and sedimentation at construction site, including borrow and waste areas and temporary access roads, and at off-site areas especially vulnerable to damage

from erosion and sedimentation. All erosion and sediment control measures will be subject to approval by the City. All erosion and sediment control measures shall be implemented prior to any construction occurring. All temporary erosion and sediment control measures shall be removed within thirty (30) days after completion of construction and establishment of permanent erosion control.

Work shall be scheduled so that areas subject to erosion are exposed for the shortest possible time. Only those trees, shrubs and grasses shall be removed that are necessary for construction as designated by the forest conservation plan and/or approved plans; those remaining shall be protected to preserve their aesthetic and erosion control values. Temporary on-site structures and buildings shall be located to preserve the existing landscape and to minimize erosion, including that from construction traffic. If practicable, work shall be scheduled in seasons when erosion is less of a hazard, particularly for sites with steep slopes and erodible soils.

Temporary protection shall be required for disturbed areas until final grading is completed and permanent vegetation is established; and shall consist of planting temporary grass cover or other vegetation when feasible. Other short-term protection shall include covering disturbed areas, stockpiles, and topsoil piles with a mulch of hay, straw or wood chips, stabilizing with netting, or covering with plastic sheets. Graded slopes and fills shall be limited to an angle and to lengths that will maintain stability and allow easy maintenance. Construction equipment shall not be operated in a way to make the land more susceptible to erosion, such as leaving tracks up and down slopes. Access roads shall be located and constructed so as to prevent erosion.

Controls for surface water runoff shall be constructed as early as possible to prevent the formation of gullies or rills. These controls shall be maintained during the entire construction period or until permanent storm drains/revetments are completed. Diversion channels or berms, slope drains, flow barriers, dikes or other structures, which retard or spread water flow, shall control runoff. Compacted embankments, ditches, furrows or temporary diversions across slopes shall be provided to intercept runoff before it reaches erodible areas. Diversions and drains shall be directed into stabilized areas where the discharge can be spread out and dissipated.

If unusually intense storms cause planned control measures to fail, prompt restoration and cleanup of sediment deposits shall be made, including damage to adjacent property. If construction is delayed or shut down, temporary cover of exposed and disturbed areas shall be provided.

FOREST AND TREE CONSERVATION REQUIREMENTS

The Contractor shall complete all forest and tree conservation requirements according to the approved contract documents:

- To protect and maintain existing forested areas and/or individual significant trees as provided by the contract documents and any directives of the City Forester.
- Promptly replace any existing trees designated to remain that are damaged or destroyed in the course of development.
- To plant the trees in accordance with the specifications of the Approved Plan.
- Perform all site preparation, including removal of pavements, structures, and inclusion of soil amendments, PRIOR to installing plantings.

Special attention must be given the existing landscape features and special care taken to protect the natural surroundings. The roots of such trees or shrubbery will not be cut unnecessarily. The Contractor will be required to root prune the tree roots, which extend into grading limits and/or from trees intended

to be left in an undamaged state or otherwise prevent damage to roots of trees. No road machinery of any description, which might throw off gas or smoke in such volume as to damage vegetation, shall be allowed to stand under such trees or shrubbery.

Any tree that in the opinion of the City, may be defaced, bruised, injured or otherwise damaged by the Contractor's equipment or operations must be protected prior to the start of work by means acceptable to the City. Contractor must verify all saved trees prior to construction. Prior to commencing construction, all tree protection techniques must be approved by the City Forester's office.

Any tree, or landscape features scarred or damaged by the Contractor's operations must be removed, correctively pruned, restored or replaced as nearly as possible to the original conditions, as required by the Project Inspector and at the Contractor's expense. No ropes, cables or guys are to be fastened to or attached to any nearby trees for anchorage or in lieu of placing of dead men.

DAILY CLEAN-UP

The Contractor shall at all times keep the work areas clean and orderly and shall promptly remove all waste and rubbish. The daily debris shall be collected in covered containers and disposed of in proper fashion. All directions from authorized public officials having jurisdiction over health and safety shall be obeyed. The site will be "broom cleaned" at the end of each working shift. Open excavations may not be left unattended. Site must be secured each night.

The Contractor shall clean every street upon which any work has been performed under this contract on a daily basis. The cleanup shall be accomplished by use of a vacuum assisted sweeper truck, manual (push) broom sweeping or other method as directed and or approved by the Project Inspector. Under no circumstance shall the contractor use compressed air or jet water sprays for cleanup purposes.

SAMPLING AND TESTING OF MATERIALS

Unless provided elsewhere in the contract documents, all required sampling and material testing shall be the responsibility of the Contractor. No separate payment will be made, and the costs shall be incidental to the appropriate pay item. Testing shall be in accordance with applicable Notes shown on the Construction Documents in Engineering Drawings, Section VII.

The City reserves the right to test all materials and construction separate from and in addition to the specific requirements dictated in this contract. Testing shall be generally limited to:

- Taking and/or collecting samples of soil and/or other backfill materials for proctor tests;
- Performing proctor tests in a lab;
- Performing compaction tests on site;
- Taking concrete cylinder samples and testing compression strength;
- Asphalt sampling and compaction testing.

Employment of a testing agency in no way relieves the Contractor of his responsibility and obligation to comply with all aspects of this contract and to perform all work in a proper, acceptable and workman like manner and doing all such work in full compliance with these contract documents.

SUBMITTALS OF MATERIALS

The Contractor shall submit two (2) copies of all delivery tickets, shop drawings, inspection, testing or certification reports, obtained approvals or permits, and other submittals required for this project to the Chief of Construction Management.

INSPECTION AND CERTIFICATION

All materials shall be subject to inspection or test by the City prior to installation and no previous certification or inspection shall bar rejection if the material is found to be inferior, damaged or defective. The certification requirements may be waived for any or all of the materials at the discretion of the City.

INSPECTION AND REPAIRS

The City reserves the right to inspect any and all work either in progress or completed. All work shall be inspected prior to backfill. Any portion of the work that is backfilled prior to inspection shall be uncovered at the contractor's expense to enable the Project Inspector to adequately inspect. If the work is found to be unsatisfactory or in conflict with the provisions in these specifications the City may hold back payment for work completed. The Chief, Construction Management, DPW will give written notification of the unsatisfactory work to the contractor. The Contractor shall have no more than ten (10) days to correct the condition.

CONTRACTOR SUPERVISION

The Contractor shall supervise and direct all work under the contract. A qualified individual shall be designated in writing to act on behalf of the Contractor. This individual shall be present on the site at all times as required to perform adequate supervision and coordination of the work, including work performed by subcontractors.

DISPOSAL OF MATERIALS

All excess or removed materials from excavation operations shall become the property of the Contractor and shall be removed from the site and legally disposed off-site. Burning or burial of materials on site is not permitted.

CONTRACTOR'S EMPLOYEES

Contractor's employees are to present a professional appearance, shall be neat, clean, well groomed, courteous, and conduct themselves in a respectable manner while performing duties and while on City and/or private property.

The Contractor's employees shall conduct themselves in a professional manner. They shall minimize their impacts to the surrounding properties, including when they arrive to the site, take breaks, eat lunch and depart the site. Contractor's employees shall be respectful and polite to inquiries from residents or individuals not associated with the project. Any inquiries beyond basic information should be referred to the City. The Contractor shall inform the City of any inquiries that occur that is beyond providing basic information.

The Contractor shall provide the City with a listing of all personnel assigned to the contract. In addition, the Contractor shall provide a listing of names, and emergency telephone numbers of supervisory personnel assigned to the contract. It will be the Contractor's responsibility to keep this list up to date.

The City reserves the right to request that the contractor remove any employee if it is determined that services are not being performed in accordance with the terms and conditions of the contract.

SUB-CONTRACTORS

The Contractor shall have the right to sub-contract but shall be fully responsible and cannot be relieved of any liability under this contract on account of any sub-contractor. All sub-contracting must have prior written City approval. The City reserves the right to approve or reject any sub-contractor.

Nothing contained in the contract documents shall create any contractual relationship between the owner and any subcontractor or sub-subcontractor. Vendors who will subcontract the delivery, installation, or any other portion of the work herein described will submit, prior to construction, the following information:

A description of the items to be subcontracted, and the subcontractor's name, address, and telephone number. During the life of the contract, the Contractor shall provide the name, nature, and extent of all subcontractors.

Subcontractors shall be considered an agent of the Contractor, who shall be held fully accountable for all of the subcontractor services, labor, and materials relative to the contract.

CHANGES IN WORK

If an event arises which the contractor considers may result in the addition, deletion or modification to the contract, the Contractor shall notify the City prior to commencing work under that change. All such changes, or additional work must be authorized in writing by the City prior to starting such work.

INVOICES AND PAYMENT

The Contractor shall submit a detailed invoice to the Chief of Construction Management, DPW for payment at the end of each month for all work completed and accepted by the City during that month. The Contractor shall attach to each monthly invoice, all required documentation of testing results.

LANDSCAPING WARRRANTY BOND

The Contractor shall provide a warranty bond for all landscaping provided in pay items 7004 and 7005. Bond shall be in the amount equivalent to the total bid for pay items 7004 and 7005. The bond shall be posted at the completion and acceptance of the entire project. Bond shall be in effect for two years. Bond should guarantee 100 percent survival rate on all trees 2" and larger and guarantee 85 percent survival rate on other landscaping. Retainage will not be released until this bond is received and approved by the City Attorney's Office. Cost of bonds will not be paid separately but shall be incidental to the amount of the landscaping items 7004 and 7005. attach to each monthly invoice, all required documentation of testing results.

TECHNICAL CONTACT/PROJECT MANAGER

Daniel Seo, Principal Transportation Engineer
Department of Public Works
111 Maryland Avenue
Rockville, MD 20850
Telephone 240-314-8510
Email: dseo@rockvillemd.gov

WASHINGTON STREET AND EAST MIDDLE LANE
ROAD DIET PROJECT

TECHNICAL SPECIFICATIONS

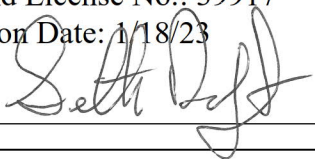
The following professional certification pertains to the technical specifications, items, and estimated quantities for the Washington Street and East Middle Lane Road Diet Project.

Professional Certification:

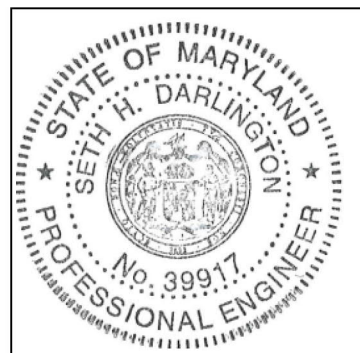
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the Laws of the State of Maryland.

Maryland License No.: 39917

Expiration Date: 1/18/23



Seth H. Darlington



TECHNICAL SPECIFICATIONS

All work on this project shall conform to the Maryland Department of Transportation State Highway Administration's (MSHA) Standard Specifications for Construction and Materials dated 2021, revisions thereof or additions thereto (special provision inserts included).

This project has been designed in accordance with the requirements of the 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design. It shall be the responsibility of the Contractor to construct all facilities within ADA regulations regardless of construction tolerances.

CONSTRUCTION STAKEOUT AND AS-BUILTS

Construction stakeout shall be in accordance with Section 107 of the Maryland Department of Transportation, State Highway Administration's Standard Specifications for Construction and Materials, dated 2021, with the following exceptions:

The Contractor shall perform all construction stakeouts. The Contractor shall complete project as shown on approved plans. The City will not provide any construction stakeout for this project. Contractor shall use benchmark and layout information as shown on the plans.

The Contractor shall provide as-built information. One set of redline as-builts shall be maintained and kept onsite at all times. Any deviations from approved plans shall be marked, in red, on the as-builts.

As-built information (horizontal and vertical) shall be provided for all new facilities. All as-built information shall be blocked in and shown as thus.

Upon completion of project, submit as-builts for approval. Retainage shall not be released until as-builts are approved. The costs for as-builts shall be included in the appropriate pay item associated with the proposed construction. There shall be no separate compensation for this work.

Method of Measurement and Payment Generally, stakeout shall be considered incidental to the contract and no special compensation shall be paid, unless a specific pay item is included in the contract Price Proposal page of this contract. Where payment is provided, progress payments for stakeout shall be made based on the percentage resulting from the price bid for stakeout divided by the total bid, multiplied by the monthly payment exclusive of the stakeout payment, except the final payment shall be adjusted as necessary to equal the total price bid for stakeout.

Grade Sheet by Contractor: Grade sheets showing hub and design elevations for roadway, water mains, drainage structures and piping, walks, lights, infiltration facilities clearing/grubbing, excavation, and related components will be provided by the construction Contractor at least 8 hours in advance of construction and will be subject to approval by the Project Manager. Stakeout for curb and gutter in all vertical and horizontal curves shall be at intervals of 10 feet or less unless otherwise specifically authorized by the Project Manager. This work is considered incidental to the contract and no extra compensation will be paid.

TESTING OF MATERIALS

The City reserves the right to test installed or delivered materials for compliance with the contract documents. The Contractor will accommodate the City testing needs, and replace non-compliant work at no additional cost. Testing may include:

- Taking and / or collecting samples of soil or other backfill materials for proctor tests,
- Performing material lab tests,

- Performing compaction tests on site,
- Taking concrete cylinder samples and testing compression strength.

TRAFFIC CONTROL

Unless otherwise directed by the Project Manager, traffic must be maintained on all roadways within the construction area continuously or with the least amount of interruption during the construction period necessary to minimize accidents and accident severity and maintain safety while at the same time minimizing inconvenience to the traveling public and the Contractor. The Project Manager shall have the exclusive right to order a road to be closed or to remain open. No equipment will be stored or permitted to stand within the limits of the roadway right-of-way where traffic must be maintained. Any earth dropped on the surface of the existing road shall be removed immediately to avoid possible hazardous conditions. The Contractor shall prepare and submit a Traffic Control Plan (TCP) for the Project Manager's review, revision, and approval, at least ten days before beginning work, unless otherwise directed. The Traffic Control Plan (TCP) shall be prepared in accordance with the latest edition of the Manual on Uniform Traffic Control Devices, U.S. Department of Transportation Work Zone Traffic Control. Plans should be prepared to scale on minimum 8 ½" by 11" sheets. Plans should address each phase of work required.

The person responsible for preparation of this plan shall have at least one year of experience completing Traffic Control Plans for projects of similar scope. Documentation of experience and the name of the plan preparer shall be submitted with the TCP. The TCP should delineate expected duration of each phase of traffic impact.

Steel plates shall be utilized to cover unfinished work areas. Steel plates shall be recessed and flush with adjacent paving. Saw cut all edges to correspond to dimensions of plates to be utilized. City Inspector shall approve the use and placement of all recessed plates. There shall be no specific payment for steel plates and shall be considered incidental to the appropriate pay item.

All Traffic Control Devices shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), latest edition (and all revisions). With the approved TCP implemented, the Contractor will be permitted to work with the following provisions: Lane closures may only be utilized between the hours of 9am and 3:30 pm, Monday through Friday. Lane closures shall be in accordance with MDSHA standard details, unless otherwise approved by the Project Manager. All traffic lanes must be restored at the end of each day unless specifically authorized otherwise, in advance, by the Project Manager.

The City reserves the right to modify or expand on the methods of traffic control specified and to restrict working hours if, in the opinion of the Project Manager, the Contractor's operations are a detriment to traffic during rush hour periods.

Signs on fixed supports shall be mounted on two posts. Signs mounted on portable supports are suitable for temporary conditions. During periods of partial shutdown, or extended periods when no work is being performed, the Contractor shall remove or adequately cover all construction signs as directed by the Project Manager.

The Contractor shall be responsible for removing, storing, covering, and resetting all existing traffic signs and delineators that become inapplicable and will confuse traffic during the various stages of construction, the cost of which shall be included in the price for Maintenance of Traffic or in the absence of such a pay item it shall be accomplished at no additional compensation, as incidental to the contract. Any signs lost or damaged will be replaced by the Contractor at its expense.

The Contractor shall provide, maintain in new condition, and move when necessary or directed all traffic control devices used for the guidance and protection of vehicles.

The Contractor shall be responsible for providing the appropriate signs to reflect varying traffic patterns prior to the commencement of a new stage of construction.

Traffic must be safely maintained at all times throughout the entire length of the project. No additional compensation shall be paid to the contractor for traffic maintenance, even if the contract time exceeds the contractually specified completion date or working days.

When required lane shifts are implemented, existing painted lane markings no longer applicable shall be removed to the satisfaction of the Project Manager.

Temporary crash cushions shall be installed as shown on the Plans. Unless otherwise specified, sand containers shall be used. The crash cushions shall conform to Subsection 104.10 of the MDSHA Specifications.

Crash cushions shall be reset to reflect changing traffic patterns caused by different stages of Traffic Control. The crash cushions shall be reset at locations shown on the Plans or as directed by the Project Manager.

Should any of the sand container components be damaged during the resetting of the system or during the course of the project, the Contractor shall replace the damaged components at its own expense.

The Contractor shall have flaggers on this Project for the purpose of controlling traffic while maneuvering heavy equipment. This may require a temporary lane closure in any of the specified Traffic Control Phases. These temporary lane shutdowns shall be kept to a minimum and the normal traffic pattern for the Traffic Phase shall be restored as quickly as possible. The Contractor shall comply with Section B-20 of the MUTCD regarding flagger signing.

Prior to stopping work each day the Contractor will be required to reshape all graded areas and eliminate all drop-offs not protected by barriers by filling with compacted stone at maximum of 8:1 slope.

All barriers and barricades shall be adequately illuminated at night, as specified herein, and all lights for this purpose shall be kept operative from sunset to sunrise.

No work shall be commenced in any stage of construction until the barriers and barricades for that stage, indicated on the Plans, or as specified by the Project Manager, are completely in place. The Contractor will be solely responsible for all accidents and damages to any persons and property resulting from its operations. Compliance with prescribed precautions contained herein or in the MDSHA Specifications or Manual On Uniform Traffic and Control shall not relieve the Contractor of its primary responsibility to take all necessary measures to protect and safeguard the work, nor relieve the Contractor from any responsibilities prescribed by GP-7 of the 2021 MDSHA Standard Specifications for Construction and Materials.

The Contractor shall notify and obtain approval in writing from the Project Manager, at least 48 hours before changing any Traffic Control Phase.

Any construction materials or debris dropped on the roadway surface shall be removed immediately to avoid possible hazardous conditions.

Materials: The Contractor shall provide, maintain in first class condition, replace and move when necessary or directed all materials, devices, flagging, etc., required to maintain traffic in accordance with the Traffic Control Plans or as directed by the Project Manager. Reference is made to the latest edition of the MUTCD, wherein all such items are fully described with regard to use, application, warranties, size, color, placement, etc., and wherein typical traffic control device layouts are shown, as all such devices and techniques planned for use on this project shall strictly conform to the Manual's request except as noted on the Plans.

When any of the following items have been established on the Plans or as directed by the Project Manager, the Specifications will be adhered to in accordance with the respective sections.

Lights, Warnings, Etc: - All banners and imitation barrels shall be adequately illuminated at night, and all lights for this purpose shall be kept operative from sunset to sunrise.

Steady burning warning lights shall be used to delineate channelization through and around obstructions in a construction or maintenance area, on detour curves, on lane closures, and in other similar conditions (MUTCD 6E-4, 6E-5). Flashing warning lights shall be the means for identifying a particular and individual hazard and shall not be used in sequence, in clusters, or for delineation (MUTCD: 6E-5, 6E-6).

Where noted on the plans the first two (2) warning signs shall include a "High Level Warning Device." In addition to the flags the signs shall also be equipped with a Type "B" High Intensity Flag Warning Light. This device must meet the requirements of MUTCD 6C-11 and 6E-5. The device shall be incidental to the Temporary Traffic Sign item if provided for, otherwise the costs shall be considered incidental and no special compensation will be paid.

Barriers: Temporary concrete barriers shall be installed on the roadway approaches as shown on the plans or as approved in writing.

Any permanent facilities damaged as a result of anchoring temporary concrete barriers (anchor holes, etc.) shall be repaired to the satisfaction of the Project Manager using an epoxy grout or other material as may be specified by the Project Manager. Epoxy grout shall consist of sand and epoxy, mixed by volume according to manufacturer's recommendations.

Method of Measurement and Basis of Payment: All work and materials required under the TCP not covered or specified as a pay item on the price proposal form will be included in the lump sum price bid for Maintenance of Traffic. In the absence of such an item the Contractor agrees that there will be no special compensation paid for maintenance of vehicular traffic as described above and the cost shall be considered incidental to the contract and compensated as part of other contract bid item(s).

EROSION AND SEDIMENT CONTROLS

All erosion and sediment controls shall be constructed according to the contract documents, approved plans, and the Maryland Department of the Environment's 2011 Maryland Standards and Specifications for Soil and Erosion Control. The contractor shall implement and maintain the controls as directed by the City Inspector.

The Contractor shall furnish and install erosion and sediment control and protect the integrity of the erosion control measures installed. The erosion control measures shall be provided until such times

as the ground cover is sufficiently developed. The Contractor shall comply with all local, state and federal laws, ordinances, and regulations pertaining to erosion, sediment and pollution control, including those promulgated by the State of Maryland, and shall indemnify and hold harmless the City from and against all claims, damages, losses and expenses resulting from such work.

During construction, the Contractor shall make periodic inspections and maintain sediment control structures, including cleaning silt fences as directed to insure that the intended purpose is accomplished. Under no circumstances shall sediment be allowed to enter onto private properties.

The Contractor shall have an employee present on site at all times who has met the requirements for certification of responsible personnel in erosion and sediment control according Maryland State Law (Green Card). This employee shall have sufficient authority to install, maintain, adjust or otherwise implement approved sediment control measures.

The Contractor shall take all measures to control erosion and sedimentation at construction site, including borrow and waste areas and temporary access roads, and at off-site areas especially vulnerable to damage from erosion and sedimentation. All erosion and sediment control measures will be subject to approval by the City. All erosion and sediment control measures shall be implemented prior to any construction occurring.

Work shall be scheduled so that areas subject to erosion are exposed for the shortest possible time. Only those trees, shrubs and grasses shall be removed that are necessary for construction as designated by the plans; those remaining shall be protected to preserve their aesthetic and erosion control values. Temporary on-site structures and buildings shall be located to preserve the existing landscape and to minimize erosion, including that from construction traffic. If practicable, work shall be scheduled in seasons when erosion is less of a hazard, particularly for sites with steep slopes and erodible soils.

Temporary protection shall be required for disturbed areas until final grading is completed and permanent vegetation is established, and shall consist of planting temporary grass cover or other vegetation when feasible.

Other short-term protection shall include covering disturbed areas and topsoil piles with a mulch of hay, straw or wood chips, stabilizing with netting, or covering with plastic sheets. Graded slopes and fills shall be limited to an angle and to lengths that will maintain stability and allow easy maintenance. Construction equipment shall not be operated in a way to make the land more susceptible to erosion, such as leaving tracks up and down slopes.

Access roads shall be located and constructed so as to prevent erosion. There shall be no specific pay item for temporary stabilization and it shall be considered incidental to the contract.

Controls for surface water runoff shall be constructed as early as possible to prevent the formation of gullies or rills. These controls shall be maintained during the entire construction period or until permanent storm drains are completed. Runoff shall be controlled by diversion channels or berms, slope drains, flow barriers, dikes or other structures, which retard or spread its flow. Compacted embankments; ditches, furrows or temporary diversions across slopes shall be provided to intercept runoff before it reaches erodible areas. Diversions and drains shall be directed into stabilized areas where the discharge can be spread out and dissipated. There shall be no specific pay item for diversions and surface water controls and it shall be considered incidental to the contract.

If unusually intense storms cause planned control measures to fail, prompt restoration and cleanup of sediment deposits shall be made, including damage to adjacent property. If construction is delayed or shut down, temporary cover of exposed and disturbed areas shall be provided.

SITE WORK

All demolition, removal, and disposal shall be performed according to the contract documents, approved plans and all applicable Federal, State and local laws, regulations and guidelines. Demolition shall generally be limited to removal of existing asphalt, concrete or structures and pipe as delineated and/or directed by the City Inspector in the field. Generally, these materials are to be disposed of legally by the contractor. The Contractor shall cut all existing asphalt and/or concrete surfaces with a power saw, such as a carborundum saw or diamond core drill, in such a manner as to create a tight, neat, straight water sealed joint. No “jackhammering” or tearing of the existing surfaces will be allowed. The Contractor shall protect all adjacent surfaces as necessary.

Saw cut existing asphalt or concrete according to Section 522.03 of Portland Cement Concrete Pavement Repairs and Section 505.03 Hot Mix Asphalt Patches of the Maryland Department of Transportation, State Highway Administration, Standard Specifications for Construction and Materials, dated 2021 and all addenda thereto.

All sawcuts shall be to the full depth of the curb and gutter, sidewalk or pavement being cut.

The Contractor shall perform work so adjacent structures, equipment, paving and materials, which are to remain, shall not be damaged. If damage occurs, the Contractor shall repair or replace the adjacent structures, equipment, paving and materials as directed by the City. Existing utilities damaged by demolition shall be replaced with the same material and quality as the existing utilities. Before construction begins, the Contractor shall inspect existing structures, equipment and paving that will remain in-place within and adjacent to the work area for existing defects and damage found during this inspection.

The Contractor shall perform the work in a manner that will not damage parts of the structure or facility not intended for removal. If, in the opinion of the City, the method of construction used may endanger or damage parts of the structure or affect the satisfactory operation of the facilities, promptly change the method when so notified by the City. Perform all cutting required regardless of whether such cutting is specifically indicated.

Examine the existing structures and make an estimate of cutting required and other conditions to be encountered in order to accomplish the work. No blasting will be permitted.

All equipment and materials within the limits of the construction, designated for removal, shall become the property of the Contractor.

Provide warning signs as required, for personnel and the public.

MAINTAIN EXISTING UTILITIES

The Contractor is required to contact Miss Utility at 1-800-257-7777 at least 72 hours before excavating in the vicinity of public utilities.

Before interfering with any utility service, the Contractor is to notify the affected utility companies. Notify all property owners, in advance, and coordinate any required service interruption with the owner and City Inspector including but not limited to electric, sanitary sewer, cable TV, and gas.

CARE OF WATER DURING CONSTRUCTION

The Contractor shall be responsible for dewatering all areas where necessary to perform work under this contract. All work shall be carried out in areas free from excessive water. The Contractor shall use necessary pumping and other equipment required for removal of water from the work for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the City for constructing the work. Removed water shall be directed to an approved sediment control device. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water. Furnishing, installing and maintaining all dewatering is incidental to this contract with no special compensation made for this work.

MOBILIZATION

This work shall consist of the construction preparatory operations, including the movement of personnel and equipment to the project site and the establishment of the Contractor's offices, buildings, and other facilities necessary to begin work as specified in Section 108 of the MSHA Standard Specifications. Mobilization will not be measured but will be paid for at the contract lump sum price.

CONSTRUCTION STAKEOUT

The Contractor shall furnish, place, maintain construction layout stakes as specified in the CONSTRUCTION STAKEOUT AND AS-BUILTS section of the Technical Specifications. Construction Stakeout will not be measured but will be paid for at the contract lump sum price.

MAINTENANCE OF TRAFFIC

The Contractor shall maintain traffic safely and efficiently through and around the area affected by the work throughout the duration of the contract as specified in Section 104.02 of the MSHA Standard Specifications and the TRAFFIC CONTROL section of the Technical Specifications. Maintenance of Traffic shall include any temporary facilities for access including temporary lighting, temporary signs, construction fencing, or any other temporary facility required. Maintenance of Traffic will not be measured but will be paid for at the contract lump sum price.

5 INCH WHITE REMOVABLE PAVEMENT MARKINGS

5 INCH YELLOW REMOVABLE PAVEMENT MARKINGS

10 INCH YELLOW REMOVABLE PAVEMENT MARKINGS

12 INCH WHITE REMOVABLE PAVEMENT MARKING LINES

24 INCH WHITE REMOVABLE PAVEMENT MARKING LINES

REMOVABLE LETTERS, SYMBOLS, ARROWS, AND NUMBERS

Contractor shall furnish and install removable 5" and 10" solid yellow, 5", 12" and 24" solid white pavement marking lines and letters, symbols, arrows, and numbers as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot for pavement marking lines and square foot for letters, symbols, arrows, and numbers, as specified in Section 104.11 of the MSHA Standard Specifications. The pavement marking material shall be in accordance with Special Provision Section 951 of the MSHA Standard Specifications.

REMOVAL OF REMOVABLE LETTERS, SYMBOLS ARROW AND NUMBERS

REMOVAL OF REMOVABLE PAVEMENT MARKING LINES – ANY WIDTH

Contractor shall remove removable 5" and 10" solid yellow, 5", 12" and 24" solid white pavement marking lines and letters, symbols, arrows, and numbers as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot for pavement marking lines and per each for letters, symbols, arrows, and numbers, as specified in Section 104.11 of the MSHA Standard Specifications.

TEST PIT EXCAVATION

The Contractor shall excavate and backfill test pits to determine the location of underground structures and utilities. Test Pit Excavation will be measured and paid for at the Contract unit price per cubic yard for the material removed from within the limits specified. The payment will be full compensation for all excavation, tamped backfill, and all material, labor, equipment, tools, and incidentals necessary to complete the work. Any pavement to be replaced will be measured and paid for as specified in Section 106 of the MSHA Standard Specifications.

REMOVAL OF EXISTING PAVEMENT

Complete all demolition as shown on the plans and/or contract documents or as directed by the City and as specified in the SITE WORK section of the Technical Specifications. All materials shall be legally disposed of off-site. Concrete and Asphalt Demolition will be paid for at the contract square foot price.

EXCAVATION

Contractor shall perform excavation as specified in the Contract Documents or as directed by the Engineer and as specified in Sections 201 and 402 of the MSHA Standard Specifications. Excavation will not be measured, but will be incidental to the related installed work, including utilities, and sidewalk.

FILL

Contractor shall furnish and install borrow as specified in the Contract Documents or as directed by the Engineer and as specified in Section 203 of the MSHA Standard Specifications. Fill will not be measured, but will be incidental to the related installed work, including utilities, and sidewalk.

FURNISH AND INSTALL INLET PROTECTION

Contractor shall furnish and install inlet protection as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each, as specified in Section 308 of the MSHA Standard Specifications.

FURNISH AND INSTALL TYPE S COMBINATION INLET

Contractor shall furnish and install storm drain inlets as specified in the Contract Documents or as directed by the Engineer at the contract unit price as specified in Section 305 of the MSHA Standard Specifications. Inlets shall be measured and paid at the Contract unit price per each.

FURNISH AND INSTALL 6 INCH PVC PIPE

Contractor shall furnish and install 6" PVC underdrain and fittings as specified in the Contract Documents or as directed by the Engineer. Underdrain shall be measured and paid at the Contract unit price per linear foot.

FURNISH AND INSTALL 8 INCH WIDE TRENCH DRAIN

Contractor shall furnish and install 8" Swift drain 300 trench drain as specified in the Contract Documents or as directed by the Engineer at the Contract unit price per each. Payment of trench drain shall include installation, fittings, connectors, and all incidentals needed.

Each trench drain body shall include integral galvanized steel rails and be manufactured from a High-Performance Concrete (HPC) based material. Bodies have interlocking ends, a radiused extract for efficient liquid drainage and multiple anchoring ribs to securely hold the body into the concrete foundation. Each body is manufactured with an integral 0.1 6" thick, extra heavy duty, galvanized steel rails. Grate shall be heavy duty ductile iron (Load Class D). Grates are secured to the body with a four-point four-point bolting system.

AGGREGATE BASE COURSE

Contractor shall furnish and install aggregate base course using graded aggregate as specified in the Contract Documents or as directed by the Engineer as specified in Section 501 of the MSHA Standard Specifications. Aggregate Base Course will not be measured, but will be incidental to the related installed work, including curb, pervious sidewalk, and retaining walls.

5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS

5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS

10 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS

12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES

24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES

Contractor shall furnish and install 5" and 10" solid yellow, 5", 12" and 24" solid white pavement marking lines as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot for pavement marking lines, as specified in Section 549 and Special Provision Insert Section 553 of the MSHA Standard Specifications. The pavement marking material shall be in accordance with Special Provision Section 951 of the MSHA Standard Specifications.

WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS

BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW SHARED BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING

Contractor shall furnish and install pavement marking symbols as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot for pavement marking symbols, as specified in Section 549 and Special Provision Insert Section 553 of the MSHA Standard Specifications. The pavement marking material shall be in accordance to Special Provision Section 951 of the MSHA Standard Specifications.

GREEN BIKE LANE PAVEMENT MARKING PAINT

Contractor shall furnish and install solid green pavement marking paint as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot, as specified in Section 550 of the MSHA Standard Specifications. The pavement marking material shall be in accordance with Special Provision Section 951 of the MSHA Standard Specifications.

STANDARD TYPE "A" CURB & GUTTER - MC-100.01

DEPRESSED CURB ENTRANCE

Contractor shall furnish and install concrete curb and concrete combination curb and gutter as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot as specified in Section 602 of the MSHA Standard Specifications. The cost of the removal existing curb or combination curb and gutter that will be replaced with new curb or combination curb and gutter will be incidental to the Contract unit price for the new item. The cost of sawcutting existing HMA or concrete pavement, placement of the 6-inch Aggregate Base course beneath the finished curb and gutter, reinforcement, placement of plain Portland cement concrete mix 9 or HMA base for slot backfill, placing HMA pavement surface for slot finishing shall all be incidental to the unit price for the new item.

4 INCH PLAIN CONCRETE SIDEWALK

Contractor shall furnish and install 4" concrete sidewalks and sidewalk ramps in accordance with the most recent accessibility guidelines of the Americans with Disabilities Act (ADA) as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot as specified in Section 603 of the MSHA Standard Specifications. The cost of the removal of existing

sidewalk or sidewalk ramps that will be replaced with new sidewalk or sidewalk ramps will be incidental to the Contract unit price for the new sidewalk.

DETECTABLE WARNING SURFACE

Contractor shall furnish and install cast-in-place detectable warning surfaces in accordance with the most recent accessibility guidelines of the 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design, as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot as specified in Section 611 of the MSHA Standard Specifications. The detectable warning surface material shall be in accordance with Special Provision Insert Section

925 of the MSHA Standard Specifications. The type of detectable warning surface shall be Type I, Cast-In-Place, and shall conform to the MSHA requirements and specifications. The cost of the removal of existing sidewalk or detectable warning surfaces that will be replaced with new cast-in-place detectable warning surfaces will be incidental to the Contract unit price for the new detectable warning surface.

9 INCH CONCRETE DRIVEWAY PAVEMENT

Contractor shall furnish and install 9" concrete driveway pavement in accordance with the most recent accessibility guidelines of the Americans with Disabilities Act (ADA) as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot as specified in Section 520 of the MSHA Standard Specifications. The cost of the removal of existing pavement that will be replaced with new pavement will be incidental to the Contract unit price for the new pavement.

PRECAST CONCRETE CURB

Contractor shall furnish and install precast concrete barrier curb as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each.

FURNISH AND PLACING TOPSOIL 2 INCH DEPTH

Contractor shall furnish and place topsoil as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square yard as specified in Section 701 of the MSHA Standard Specifications.

TURFGRASS ESTABLISHMENT

Contractor perform work outlined in the Contract documents, or as directed by the Engineer at the contract unit price per square yard as specified in Section 705 of the MSHA Standard Specifications.

TREE REMOVAL

Contractor shall remove trees as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each. Work shall be in accordance with Section 714 of the MSHA Standard Specifications.

TREE PLANTING

Contractor shall plant trees as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each. Work shall be in accordance with Section 710 of the MSHA Standard Specifications.

LANDSCAPE PLANTING

Contractor shall furnish and install landscaping shrubs, and groundcover as specified in the Contract Documents or as directed by the Engineer at the contract lump sum price. The price shall include furnishing plantings in good health, planting, staking, root pruning, deer protection, watering, and fertilizing necessary to establish plantings in good health.

CONCRETE FOR POLE FOUNDATION

Contractor shall furnish and install concrete foundations for installing lighting poles and pedestal poles as specified in the Contract Documents or as directed by the Engineer at the contract unit price per cubic yard as specified in Section 801 of the MSHA Standard Specifications. Concrete shall be SHA Mix 3.

REMOVE AND RELOCATE PEDESTRIAN LIGHTING STRUCTURE

Contractor shall remove and reset on a new foundation existing light poles and luminaires as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each. Work shall be in accordance with Section 808 of the MSHA Standard Specifications.

FURNISH AND INSTALL SQUARE PERFORATED TUBULAR STEEL SIGN POSTS

FURNISH AND INSTALL SQUARE TUBULAR ANCHOR BASES

Contractor shall furnish and install posts as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each. Work shall be in accordance with Section 813 of the MSHA Standard Specifications.

**NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
GROUND ROD – 3/4 INCH DIAMETER, 10 FOOT LENGTH**

Contractor shall furnish and install additional grounding systems, which includes ground wire and ground rods, as specified in the Contract Documents or as directed by the Engineer. No. 6 AWG Stranded Copper Ground Wire shall be paid for at the contract unit price per linear foot as specified in Section 804 and 810, and Ground Rod – 3/4" Diameter, 10' Length shall be paid for at the contract unit price per each as specified in Section 804 of the MSHA Standard Specifications.

1" SCHEDULE 80 PVC CONDUIT – TRENCHED

3" SCHEDULE 80 PVC CONDUIT – TRENCHED

2" SCHEDULE 40 PVC CONDUIT – TRENCHED

4" SCHEDULE 40 PVC CONDUIT – TRENCHED

Contractor shall furnish and install 1", 2", 3" and 4" Schedule 40 and 80 Rigid PVC electrical trenched conduit and fittings as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot as specified in Section 805 and 809 of the MSHA Standard Specifications.

FURNISH AND INSTALL GROUND MOUNTED SIGNS

Contractor shall furnish and install signs as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot. Work shall be in accordance with Section 813 of the MSHA Standard Specifications.

DISPOSE OF LIGHTING FOUNDATION

Contractor shall remove and dispose of existing concrete light pole foundations as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each.

FURNISH AND INSTALL ELECTRICAL SPLICE BOX

Contractor shall furnish and install electrical splice boxes as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each as specified in Section 811 of the MSHA Standard Specifications.

FURNISH AND INSTALL 6 FOOT DECORATIVE PEDESTAL POLE

Contractor shall furnish and install 6' decorative pedestal pole as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each as specified in Section 811 of the MSHA Standard Specifications. Page 51 of 213

FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)

FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)

FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 10 AWG)

Contractor shall furnish and install electrical cable and associated connectors as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot as specified in Section 810 and 820 of the MSHA Standard Specifications.

FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

Contractor shall furnish and install sawcut for signal loop detector as specified in the Contract Documents or as directed by the Engineer at the contract unit price per linear foot as specified in the MSHA Standard Specifications

FURNISH AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS

Contractor shall furnish and install aps station as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each as specified in the MSHA Standard Specifications

FURNISH AND INSTALL 2-WIRE APS CENTRAL CONTROL UNIT

Contractor shall furnish and install aps control unit as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each as specified in the MSHA Standard Specifications

DISPOSE OF EXISTING SIGNAL EQUIPMENT

Contractor shall remove and dispose of existing signal equipment as specified in the Contract Documents or as directed by the Engineer at the contract lump sum price.

FURNISH AND INSTALL PARKING METER POLES

Contractor shall furnish and install parking meter poles and foundations as specified in the Contract Documents or as directed by the Engineer at the contract unit price per each as specified in the MSHA Standard Specifications. Meter poles and foundations shall be installed and constructed per Detail H on Sheet 4 of the plans, and the price shall include full depth sawcut, excavation, concrete forms, SHA Mix 3 concrete foundation, 2" I.D. galvanized pipe, backfilling, concrete sidewalk reconstruction, and any other incidental materials or activities required for this work.

REMOVE EXISTING GROUND MOUNTED SIGNS

Contractor shall remove and dispose signs as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot. Work shall be in accordance with Section 813 of the MSHA Standard Specifications.

RELOCATE EXISTING GROUND MOUNTED SIGNS

Contractor shall remove and reset signs on a new post as specified in the Contract Documents or as directed by the Engineer at the contract unit price per square foot. Work shall be in accordance with Section 813 of the MSHA Standard Specifications.

SPECIAL PROVISION INSERTS

CATEGORY 100 PRELIMINARY

SECTION 101 — CLEARING AND GRUBBING

101.01 CLEARING AND GRUBBING

101.04 MEASUREMENT AND PAYMENT.

DELETE: The in its entirety.

INSERT: The following.

Clearing and Grubbing will not be measured but the cost will be incidental to the Lump Sum item for Maintenance of Traffic. The payment will be full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

**CATEGORY 100
PRELIMINARY**

SECTION 104 — MAINTENANCE OF TRAFFIC

104.01 TRAFFIC CONTROL PLAN (TCP)

104.01.01 DESCRIPTION.

DELETE: The fourth paragraph sentence “Refer to contract Documents for Work Restrictions.” in its entirety.

INSERT: The following.

Work Restrictions.

Work is not permitted on the following holidays indicated below with an “X”, nor is work permitted on the day immediately preceding and immediately following the holidays indicated below with an “X”.

- New Year's Day, January 1
- Martin Luther King's Birthday, the third Monday in January
- President's Day, the third Monday in February
- Good Friday
- Easter Weekend
- Memorial Day, the last Monday in May
- Independence Day, July 4
- Labor Day, the first Monday in September
- Columbus Day, the second Monday in October
- Veteran's Day, November 11
- Thanksgiving Day, the fourth Thursday in November
- Christmas Day, December 25

Work is not permitted on the following weekend days indicated below with an “X”.

- Saturdays, unless prior written approval is given by the Engineer
- Sundays, unless prior written approval is given by the Engineer

TEMPORARY LANE OR SHOULDER CLOSURE SCHEDULE			
ROADWAY	# LANE(S) / SHOULDER CAN BE CLOSED	DAY OF THE WEEK	CLOSURE PERIOD (TIME OF DAY)
All Roadways	0/1	Monday through Friday	9 AM to 3 PM
	1/1	Monday through Friday	9 AM to 3 PM

ADD: The following after the last paragraph, “Any monetary savings...and the Administration.”

When closing, or opening a lane or shoulder on freeways, expressways, and roadways with posted speed \geq 55 mph, ensure a work vehicle is closely followed by a protection vehicle (PV) during installation and removal of temporary traffic control devices. The PV shall consist of a work vehicle with approved flashing lights, either a truck-mounted attenuator (TMA) with support structure designed for attaching the system to the work vehicle or a trailer truck-mounted attenuator (TTMA) designed for attaching the system to the work vehicle by a Pintle hook and an arrow panel (arrow mode for multilane roadways and caution mode on two-lane, two-way roadways).

Temporary Traffic Control for shoulder work along freeways, expressways, and roadways with posted speed \geq 55 mph shall include the use of a PV. The PV shall be outfitted with a TMA or

TTMA as noted above and be positioned on the shoulder to protect the work area throughout the duration of the shoulder work operation.

The work vehicle size and method of attachment shall be as specified in the TMA/TTMA manufacturer's specification as tested under NCHRP and/or MASH Test Level 3.

When a temporary lane or shoulder closure is in effect, begin work within one hour after the lane is closed. For any delay, greater than one hour and no work in progress, remove the lane/shoulder closure. Ensure the Traffic Manager attends the Pre-Construction, Pre-Structural Steel Erection, Pre-Concrete Placement, Pre-MOT Shift, and Pre-Paving Meetings and is prepared to competently discuss traffic control, the Traffic Control Plan (TCP), and the procedures to be implemented for lane closures.

All closures shall be in conformance with the approved TCP and at the direction of the Traffic Manager and the Engineer.

Workers and equipment, including temporary traffic control devices needed for setting up a lane closure or restriction, are prohibited in the lane/shoulder to be closed or restricted before the time permitted in the Contract Documents unless otherwise approved by the Engineer.

Temporary traffic control devices to be used for lane/shoulder closure may be placed on the shoulder of the roadway by workers no earlier than __ minutes prior to the actual time lane/shoulder closure or restriction is permitted. When temporary traffic control devices are being installed, ensure that all work vehicles involved in the installation display flashing lights that provide a 360-degree visibility of the vehicles. These lights shall remain on until the full installation of TTC devices is complete. Temporary traffic signs may be displayed to traffic at this time.

Workers shall not enter any lane open to traffic. Workers may be present on shoulders to prepare for lane closure setup no earlier than __ minutes prior to the actual time lane/ shoulder closures or restrictions are permitted. During preparation for the lane closure, ensure that all work vehicles at the site and involved in the installation of the lane closure or restriction display flashing lights that provide 360-degree visibility of the vehicles, as required by MD 104.01-18B. These lights shall remain on while the vehicle remains in the work zone and until the full implementation of the road closure or restriction is complete.

Restore all temporary lane or shoulder closures at the end of the closure period and ensure that no travel lane has been reduced to less than 11 ft on expressways, freeways and 10 ft on other roadways. Prior to opening the closed lane or shoulder, clear the lane or shoulder of all material, equipment, and debris.

Failure to restore full traffic capacity within the time specified will result in a deduction assessed in conformance with the following.

This is in addition to the requirements specified in TC-4.02.

The lane closure penalties for freeways are categorized by the District in which they are located.

For Districts 1, 2 and 6, the following fee structure will be followed:

ASSESSED DEDUCTIONS FOR FREEWAYS	
ELAPSED TIME, (MINUTES)	DEDUCTION
<i>For 1 Lane Closures</i>	
1 – 10	\$ 100.00
Each minute over 10	\$50.00 per minute (In addition to original 10 minute deduction)
<i>For 2 or more Lane Closures</i>	
1 – 10	\$ 200.00
Each minute over 10	\$100.00 per minute (In addition to original 10 minute deduction)

For Districts 3, 4, 5 and 7, the following fee structure will be followed:

ASSESSED DEDUCTIONS FOR FREEWAYS	
ELAPSED TIME, (MINUTES)	DEDUCTION
<i>For 1 Lane Closures</i>	
1 – 10	\$ 1,000.00
Each minute over 10	\$500.00 per minute (In addition to original 10 minute deduction)
<i>For 2 or more Lane Closures</i>	
1 – 10	\$ 2,000.00
Each minute over 10	\$1,000.00 per minute (In addition to original 10 minute deduction)

The lane closure penalties for other roads are categorized by intersection Level of Service. The penalty for other roads with Level of Service D, E or F is greater than that for Level of Service A, B or C.

For Level of Service A, B or C, the following fee structure will be followed:

ASSESSED DEDUCTIONS FOR OTHER ROADS	
ELAPSED TIME, (MINUTES)	DEDUCTION
<i>For 1 Lane Closures</i>	
1 – 10	\$ 150.00
Over 10	\$75.00 per minute

	(In addition to the original 10 minute deduction)
<i>For 2 or more Lane Closures</i>	
1 – 10	\$ 300.00
Over 10	\$150.00 per minute (In addition to the original 10 minute deduction)

For Level of Service D, E or F, the following fee structure will be followed:

ASSESSED DEDUCTIONS FOR OTHER ROADS	
ELAPSED TIME, (MINUTES)	DEDUCTION
<i>For 1 Lane Closures</i>	
1 – 10	\$ 300.00
Over 10	\$150.00 per minute (In addition to the original 10 minute deduction)
<i>For 2 or more Lane Closures</i>	
1 – 10	\$ 600.00
Over 10	\$300.00 per minute (In addition to the original 10 minute deduction)

To modify the work restrictions, submit a request to the Engineer in writing with at least 72 hours notice. Do not implement any changes until written approval from the Engineer is received. Include a copy of the original work restrictions with the written request. The Engineer also reserves the right to modify or expand the methods of traffic control or working hours as specified in the Contract Documents.

**CATEGORY 100
PRELIMINARY**

SECTION 104 — MAINTENANCE OF TRAFFIC

104.07 ARROW PANEL (AP).

104.07.01 DESCRIPTION.

DELETE: The second and third paragraphs “Furnish APs that are.....units unless otherwise specified” and “APs shall have bothdimmer device is operational.

104.07.03 CONSTRUCTION.

ADD: The following after the first paragraph.

Furnish APs that are self-contained, vehicle-mounted or portable, and approved. Use self-contained trailer units unless otherwise specified.

Provide APs that have both manual and automatic dimmer devices capable of reducing the light intensity by 50 percent. Periodically clean the photocells in order to prevent malfunctioning of the brightness control. Dimmer devices are mandatory during night operation. The devices shall include a fail-safe system that ensures maximum brightness during daytime operations and a reduction in brightness of up to 50 percent during periods of darkness, regardless of which dimmer device is operational.

The AP's shall provide full illumination within at least a 24-degree cone perpendicular to the panel face.

Power Supply. The AP shall operate from a solar powered electrical system and consist of battery power and solar array panels, and be capable of providing power supply to the AP for 21 consecutive days without auxiliary charge.

ADD: The following after the Arrow Panel Lamp Options table.

Arrow Board Type	Minimum Size	Minimum Legibility Distance	Minimum Number of Elements
A	48x24 in.	½ mile	12
B	60x30 in.	¾ mile	13
C	96x48 in.	1 mile	15
D	None*	½ mile	12

* Length of arrow equals 48 in. width of arrowhead equals 24 in.

DELETE: (b) “Aim the AP at approaching.....that the display is level”.

INSERT: (b) “Aim the AP at approaching traffic in conformance with the minimum legibility distances specified above. Ensure that the display is level”

104.07.04 MEASUREMENT AND PAYMENT.

DELETE: The first paragraph in its entirety

INSERT: The following:

Arrow Panels will be not measured but shall be incidental to the Maintenance of Traffic Lump Sum item.

SECTION 104.08 — TEMPORARY TRAFFIC SIGNS

104.08 TEMPORARY TRAFFIC SIGNS (TTS)

104.08.04 MEASUREMENT AND PAYMENT.

DELETE: This section in its entirety.

INSERT: The following.

Temporary traffic signs will be not measured but will be incidental to the Maintenance of Traffic Lump Sum item. It includes furnishing the signs and supports, installation, relocation, maintenance, cleaning, replacement, removal, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

When no longer needed, temporary traffic signs and all associated materials shall be removed from the project site and become the property of the Contractor.

**CATEGORY 100
PRELIMINARY**

SECTION 104.11 — TEMPORARY PAVEMENT MARKINGS

104.11.01 DESCRIPTION

Furnish, install, and remove temporary pavement markings as specified or as directed by the Engineer. Markings include lines, letters, numbers, arrows, and symbols.

104.11.02 MATERIALS

Pavement Marking Paint	951.01
Black Out Tape	951.02
Removable Pavement Markings	951.08

104.11.03 CONSTRUCTION

104.11.03.01 Quality Assurance/Quality Control. Refer to 549.03. Employ certified technicians to perform quality control testing. The Engineer will perform quality assurance checks by completing the Nighttime Visibility Evaluations per MSMT 729.

104.11.03.02 Warranty Period. Maintain and correct any defects in the pavement markings for a period of 180 days from the date of application for tape, thermoplastic or epoxy, and 60 days for paint. Replace defective pavement markings within this warranty period as necessary and as directed at no additional cost to the Administration. When paint is used as a temporary marking for a lane shift/closure that is to be greater than 60 days in length, it shall be reapplied every 60 days.

104.11.03.03 Application and Removal. Apply pavement markings per the manufacturer's recommendations and as specified. Apply markings in the same direction as the flow of traffic. Apply the markings to the locations specified or as directed.

Pavement markings may be applied to either new or existing paved surfaces. Apply markings to newly paved surfaces before traffic is allowed on the pavement.

For milling and paving operations, non-tape markings may be used for temporary markings between lifts and temporary raised pavement markings (RPM)s are not required. Use removable tape for temporary markings applied to the final surface.

When temperatures are too low to allow the placement of removable tape on the final surface, request a written exception for the use of other type of markings in lieu of removable tape.

Completely remove all non-applicable pavement markings within the travel way and adjacent to the travel way for lane shifts as necessary and as directed.

Surface Condition. Ensure the pavement surface is clean, dry, and free of all contaminants prior to applying any pavement markings. Remove all residual, loose or poorly applied pavement

markings as necessary and as directed.

Pavement Marking Removal. Completely remove all removable pavement markings prior to applying permanent markings. Remove any objectionable adhesive residue on stage construction or final surfaces of Portland cement concrete pavements by water blasting or other methods as approved. Do not use open flame to remove any pavement markings or adhesive residue. Remove all pavement markings in a manner that ensures there is no damage to the existing or final surface.

Black out Tape. Black out tape may be used for masking existing markings in accordance with MdMUTCD. Use to mask existing marking for temporary shift conditions of less than 14 days and where the traffic will return to the original alignment and markings. For shifts longer than 14 days, remove the existing marking by hydro blasting and replace with new permanent /final markings when original alignment returns.

Retroreflectance. The initial retroreflectance readings for temporary pavement markings shall be a minimum of 250 and 150 millicandelas/lux/square meter for white and yellow markings, respectively. The pavement markings will be monitored per MSMT 729 during the Warranty Period.

104.11.04 MEASUREMENT AND PAYMENT

Payment for Removable Pavement Markings, Removal of Removable Pavement Markings, Pavement Marking Paint, and the Removal of Existing Pavement Markings will be measured and paid for using one or more of the items listed below and as specified.

Payment will be full compensation for furnishing, placing, complete removal of lines, letters, numbers, arrows, symbols, and the removal of all residue. Payment will also cover maintenance and replacement of the markings during the 180-day period, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. Removal and replacement of temporary pavement markings required beyond the 180-day period will be measured and paid for at the Contract unit price for the pertinent temporary pavement marking item.

Temporary markings replaced during the 180-day period as a result of plowing will be paid for at the Contract unit price for the pertinent temporary marking item, as determined.

- (a) Pavement Marking Paint-in width specified-per linear foot.
- (b) Removable Pavement Line Markings-in width specified-per linear foot.
- (c) Removable Letters, Symbols, Arrows, and Numbers per square foot.
- (d) Removal of Removable Pavement Marking Lines-any width-per linear foot.
- (e) Removal of Removable Letters, Symbols, Arrows and Numbers per each.
- (f) Removal of Existing Pavement Line Markings-any width per linear foot.
- (g) Removal of Existing Letters, Symbols, Arrows, and Numbers per each.
- (h) Blackout Tape Lines-in width specified-per linear foot.
- (i) Removal of Blackout Tape Lines-any width-per linear foot.

**CATEGORY 100
PRELIMINARY**

SECTION 104 — MAINTENANCE OF TRAFFIC

104.12 DRUMS FOR MAINTENANCE OF TRAFFIC.

104.12.02 MATERIALS.

169 **ADD:** The following to the end of the first paragraph.

Drums may include recycled plastic content. The drum base may contain up to 100 percent recycled content.

104.12.03 CONSTRUCTION.

ADD: The following to the end of the third paragraph.

Damaged drums shall be recycled to the extent possible. The disposition of the damaged drums shall be provided prior to payment for any replacement drums.

104.12.04 MEASUREMENT AND PAYMENT.

DELETE: This section in its entirety.

INSERT: The following:

Drums for Maintenance of Traffic will be not measured but will be incidental to the Maintenance of Traffic Lump Sum unit price. The payment will be full compensation for relocation, removal, replacement due to damage by traffic, and all material, labor, equipment, tools, and incidentals necessary to complete the work.

**CATEGORY 100
PRELIMINARY**

SECTION 104 — MAINTENANCE OF TRAFFIC

104.13 BARRICADES FOR MAINTENANCE OF TRAFFIC

104.13.04 MEASUREMENT AND PAYMENT.

DELETE: This section in its entirety.

INSERT: The following:

Barricades for Maintenance of Traffic will be not measured but will be incidental to the Maintenance of Traffic Lump Sum unit price. The item will include warning lights (when needed), the maintenance and removal of any required warning lights, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

**CATEGORY 100
PRELIMINARY**

SECTION 104 — MAINTENANCE OF TRAFFIC

104.14 CONES FOR MAINTENANCE OF TRAFFIC.

104.14.02 MATERIALS.

DELETE: First paragraph on this page “Cones shall be...an upright position”.

INSERT: The following.

All cones shall meet the latest MdMUTCD and be new or like new condition. All cones shall be orange in color. Cones shall be at least 28 in. high, 10 in. diameter at the inside of the base, and reflectorized with two white retroreflective stripes. The top stripe shall be 6 in. wide and located 3 to 4 inches from the top of the cone. The second stripe shall be 4 in. wide and located 2 inches below the top band.

Tall-Weighted Cones. When specified, tall-weighted cones shall be at least 42 in. high and 7 in. diameter at the inside of the base. Tall-weighted cones shall be manufactured of low density polyethylene (LDPE) and have four high performance wide angle white and orange retroreflective stripes. The stripes shall be horizontal, circumferential and 6 in. wide. Alternate stripe colors with the top stripe being orange. Any nonretroreflective spaces between the orange and white stripes shall not exceed 1/2 in.

104.14.03 CONSTRUCTION.

ADD: The following after the first paragraph “The Contractor’s name...away from traffic”.

Equip all cones with approved weights or anchor collars, (15 lb maximum) as needed to maintain an upright position. Anchor collars shall fit to the base of the cone. For tall-weighted cones use anchor collars weighing 10 to 30 lb.

**CATEGORY 100
PRELIMINARY**

SECTION 104.19 — PORTABLE VARIABLE MESSAGE SIGNS (PVMS)

104.19.04 MEASUREMENT AND PAYMENT.

DELETE: This section in its entirety.

INSERT: The following:

Portable Variable Message Sign for Maintenance of Traffic will be not measured but will be incidental to the Maintenance of Traffic Lump Sum unit price.

**CATEGORY 100
PRELIMINARY**

SECTION 104.23 — PROTECTION VEHICLE

104.23. 04 MEASUREMENT AND PAYMENT.

DELETE: This section in its entirety.

INSERT: The following:

Protection vehicle for Maintenance of Traffic will be not measured but will be incidental to the Maintenance of Traffic Lump Sum unit price.

**CATEGORY 100
PRELIMINARY**

SECTION 107 — CONSTRUCTION STAKEOUT

107.03 CONSTRUCTION.

DELETE: 107.03.01 Line and Grade in its entirety.

INSERT: The following.

107.03.01. For installation of Traffic Control Devices, arrange a meeting with the Engineer to stakeout all items indicated on the sketches, plans, and in the special provisions. This meeting shall occur prior to the notice to proceed for the work assignment. Any dimensional or quantity changes resulting from the stakeout shall not be designated or indicated as a change order, or a cause for increase in time for work assignment completion as stated in the Contract Documents.

107.04 MEASUREMENT AND PAYMENT.

ADD: The following.

Intersection Utility Stakeout. Intersection Utility Stakeout for Traffic Control Devices will not be measured but the cost will be incidental to other pertinent items specified in the Contract Documents.

**CATEGORY 200
PRELIMINARY**

SECTION 108 – MOBILIZATION

108.01 DESCRIPTION.

ADD: The following after the first paragraph

The intent of the following is to ensure that the project is completed without interruption due to delays in acquisition and delivery of the material required to complete the project. The contractor shall not start work before all major components and material for the entire project are on site or stored at a location approved by the Engineer. Equipment that is considered “major” consists of traffic signal poles, APS push buttons and APS Central Control Units, and any other material that cannot be purchased and delivered to the job site within 3 working days. The Contractor shall submit a list of materials and the anticipated location of the materials to the engineer for approval within 7 working days of Notice to Proceed.

The material shall be stored within 50 miles of the project site. The contractor may start work after:

1. Supplying invoices and delivery receipts for the stored inventory to the Engineer for inspection, and
2. The engineer has completed a cursory inspection of the material, and
3. The engineer, or designated representative, has approved the contractor to begin work on the basis of the first two items.

108.04 MEASUREMENT AND PAYMENT.

ADD: The following after the first paragraph

Materials that are stored will be not measured but will be incidental to the Mobilization Lump Sum item.

**CATEGORY 200
GRADING**

**SECTION 206 — REMOVAL OF EXISTING PAVEMENT, SIDEWALK, PAVED
DITCHES, CURB, OR COMBINATION CURB AND GUTTER**

206.01 DESCRIPTION.

INSERT: The following.

Sidewalk shall include concrete, paver (including brick pavers) sidewalks.

206.02 MATERIALS.

INSERT: The following.

Topsoil Section 705.02
Turfgrass Sod Section 708.02

206.02 CONSTRUCTION.

INSERT: The following.

Topsoil Section 705.03
Turfgrass Sod Section 708.03

206.04 MEASUREMENT AND PAYMENT.

DELETE: Its entirety.

INSERT: The following.

The payment will be full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

206.04.01 Removal of existing pavement, sidewalk, paved ditches, curb or combination curb and gutter, and full depth saw cuts within the limits of any class of excavation will not be measured but the cost will be incidental to the Contract unit price for the Class of Excavation in which it occurs.

206.04.02 Saw cuts, removal of existing pavement, sidewalk (except as specified in 603.04), paved ditches, and curb or combination curb and gutter (except as specified in 602.04) outside the limits of any class of excavation will be measured in the original position and paid for as follows:

- (a) Removal of Existing Pavement, Sidewalk, and Paved Ditches per square foot.
- (b) Removal of Existing Curb or Combination Curb and Gutter per linear foot.

Full depth saw cuts will not be measured but the cost will be incidental to the Contract unit price for removal of existing pavement, sidewalk, paved ditches, cur or combination curb and gutter.

Full depth saw cuts will not be measured but shall be incidental to the unit price for patching.

When sidewalk is removed but not replaced, backfilling, 4" topsoil, turf grass sod and landscaping as directed by the Engineer will not be measured but shall be incidental to the unit price for removal of existing sidewalk.

**CATEGORY 500
PAVING**

SECTION 504 — ASPHALT PAVEMENT

504.04 MEASUREMENT AND PAYMENT.

DELETE: 504.04 in its entirety.

INSERT: The following.

The payment will be full compensation for furnishing, hauling, placing all materials including anti-stripping additive, tack coat, control strip, pot hole and spall repairs, setting of lines and grades where specified, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

Temporary Tie-Ins. Placement and removal of the temporary tie-in where asphalt is being applied to the traveled way carrying traffic will not be measured but the cost will be incidental to the pertinent asphalt item.

Removal of the existing pavement or structure for the final tie-in will not be measured but the cost will be incidental to the asphalt item. The asphalt for the final tie-in will not be measured but the cost will be incidental to the asphalt item.

Adjustments. Adjustment of existing visible manholes, valve boxes, inlets, or other structures will not be measured but the cost will be incidental to the asphalt item.

Full depth saw cuts will not be measured but the cost will be incidental to the pertinent asphalt item.

**CATEGORY 500
PAVING**

SECTION 505 - HOT MIXED ASPHALT PATCHING

483 **DELETE:** SECTION 505 — HOT MIX ASPHALT PATCHES in its entirety.

INSERT: The following.

SECTION 505 — HOT MIXED ASPHALT PATCHING

505.01 DESCRIPTION. When curb and gutter is installed, the contractor shall provide a full depth asphalt patching along the curb and gutter.

Full Depth Patching (FDP). FDP consists removing the full thickness of the pavement sections to the top of the aggregate base and replacing with an asphalt mix as shown on the contract documents.

505.02 MATERIALS.

Graded Aggregate Base	901.01
Aggregates for Asphalt Mixes	901.01
Performance Graded Asphalt Binders and Asphalt Mixes	904
Crack Filler	911.01
Production Plants	915
Cold Patch Material	924

HMA Superpave, 9.5 mm, PG64-22, Level 2 shall be used for HMA full depth patching.

HMA Superpave, 19.0 mm, PG64-22, Level 2 shall be used for HMA full depth patching.

505.03 CONSTRUCTION. Keep disturbance of the base material to a minimum. The faces of the remaining pavement shall be square and vertical without ragged edges. Do not use equipment that could damage the existing pavement.

505.03.01 Weather Restrictions. Refer to 504.03.02.

505.03.02 Existing Pavement. Complete all repairs on the same day in which excavation is completed. Do not leave open excavated areas at the end of the workday.

505.03.03 Removal of Pavement for PDP. Remove existing pavement by milling, grinding, or saw cutting to the specified depth. Maintain square vertical faces after removal.

- (a) If concrete is encountered during removal, limit the depth of the patch to the top elevation of the PCC.
- (b) For PDP of composite pavements, protect the PCC from damage during removal of the HMA.
- (c) When the material at the bottom of the PDP is determined to be unsuitable, remove the unsuitable material until sound material is encountered.
- (d) When PCC present in a composite pavement is determined to be unsuitable, follow the removal and replacement procedures for a FDP.
- (e) Remove all loose and foreign materials before placing the patch, then treat all spalled cracks and joints by tack coating, filling and tamping with asphalt.

505.03.04 Removal of Pavement for FDP. Make a perpendicular saw cut full depth around the perimeter and remove the existing pavement to the top of the aggregate base as required on the contract documents. Refer to 522.03.03 for the concrete portion of a composite pavement. Maintain square vertical faces after saw cutting.

505.03.05 Base and Subgrade Preparation. The aggregate base of the FDP area will be evaluated to determine its suitability.

- (a) When the aggregate base is determined to be unstable, compact it as specified in 501.03.10.
- (b) When no aggregate base is present, construct the subgrade foundation per Section 208 or as directed.
- (c) Removal of Unsuitable Material:
 - (1) When the aggregate base or subgrade material is unsuitable, remove and dispose of the unsuitable material.
 - (2) Replace the unsuitable material with graded aggregate base conforming to Section 501.
 - (3) Compact the replacement material in layers no greater than 4 in. depth.
 - (4) Protect the aggregate base or subgrade after placement.

(5) Remove and replace any aggregate base or subgrade damaged due to lack of protection at no additional cost.

505.03.06 Subgrade Drains. Refer to Section 306. The construction of subgrade drains may be required in areas of wet underlying subgrade or in areas where future drainage problems may be a concern, as determined.

505.03.07 Emergency Filler. Have sufficient approved cold patch material readily available to fill the void of the repair area. Place and compact the material as directed. Completely remove the material at the beginning of the next workday.

505.03.08 Steel Plates. Ensure an ample supply of 12 x 14 ft by 1 in. thick steel plates are available on site to cover the emergency filler.

505.03.09 Patch Construction. Refer to Section 504. Furnish equipment and perform placement, compaction, and quality control procedures as specified. Manual placement of the asphalt patches is permissible, as directed.

505.03.10 Patch Placement. Thoroughly clean and tack the exposed vertical surface of adjacent pavement prior to placing the asphalt patch per 504.03.04. Spread the asphalt with a shovel, rake, or by other approved methods. Do not place asphalt patches on a frozen base.

Maintain lift thickness in conformance with the following:

ASPHALT LIFT THICKNESS		
MIX DESIGNATION (mm)	MINIMUM (in.)	MAXIMUM (in.)
9.5	1.0	2.0
12.5	1.5	3.0
19.0	2.0	4.0
25.0	3.0	5.0
37.5	4.0	6.0

505.03.11 Mix Sampling Requirements. One random sample per mix will be required daily for projects using more than 200 tons. Quantities of 200 tons or less of asphalt may not require daily field sampling; however, one random sample per mix for every 1 000 tons of asphalt or one sample per mix will be required for every five days of patching, whichever yields the greater frequency. Random mix samples for patching will only be required for patches placed with a paver and will not be required for patches less than 1 000 ft².

505.03.12 Testing and Acceptance. Acceptance of Base and/or Surface of each patch will be determined by using an asphalt density gauge with test data witnessed by the Engineer. Calibrate the density gauge to the mix in order to obtain acceptable readings.

505.03.13 Density Determination Requirements. On the first day of patching, the Engineer will select three test locations and witness the testing. Sample the cores and label with the date sampled. Cores will be tested and retained in the QC Laboratory until OMT verifies the results. Submit the completed core sheets to OMT.

- (a) The average pcf of the three cores and the average pcf of the three corresponding gauge readings shall be within 3.0 lb/ft^3 of each other, recalibrate the density gauge according to the manufacturer's recommendation. When the difference between the gauge readings and the core tests are greater than 3.0 lb/ft^3 , verify the gauge's accuracy by reading three new random locations.
- (b) Report density gauge test data as a percentage of the maximum specific gravity determined for each day's production. An in-place density of 92.0 to 97.0 percent is required for each patch. Compliance will be determined for each patch separately by averaging all density tests performed within each specific patch. Submit compaction sheets to OMT daily for all production.

505.04 MEASUREMENT AND PAYMENT.

Hot Mix Asphalt Full Depth Patching will not be measured but shall be incidental to the unit price for curb and gutter.

Saw Cutting will not be measured but shall be incidental to the unit price for curb and gutter.

Removal of unsuitable material, excavation, disposal of unsuitable material, backfilling with aggregate, compaction and refill will not be measured but shall be incidental to the unit price for curb and gutter.

Relocation of existing conduits in the patching area will not be measured but shall be incidental to the unit price for curb and gutter.

**CATEGORY 500
PAVING**

SECTION 554 — THERMOPLASTIC PAVEMENT MARKINGS

554.04 MEASUREMENT AND PAYMENT

554.04.01 Price Adjustment for Film Thickness.

DELETE: The Table.

INSERT: The following.

MIL THICKNESS	PERCENT OF PAYMENT – UNIT PRICE
90- (a)(b)	100
80-89	90
70-79	80
Less than 70	Retrace to achieve a thickness of 90 mils.

- (a) The Engineer may require the removal of excess material thickness.
- (b) Perform removal of excess material and retracing of pavement markings at no additional cost to the City of Rockville.

**CATEGORY 600
SHOULDERS**

**SECTION 602 — CURB, COMBINATION CURB AND GUTTER,
AND MONOLITHIC MEDIAN**

602.01 DESCRIPTION.

INSERT: The following after the first paragraph.

Construct Curb and Combination Curb and Gutter Any Height or Depth Up to 24”, per Montgomery County Standard MC-100.01.

602.03 CONSTRUCTION

602.03.01 Concrete Curb, Combination Curb and Gutter, and Monolithic Median.

DELETE: 602.03.01(h) in its entirety.

INSERT: The following.

(h) Cold Weather Construction and Curing. Refer to 520.03.02 and 520.03.12, except the requirement for an approved spraying machine with drive wheels is waived when using the liquid membrane forming compound method.

DELETE: 602.03.01(i) in its entirety.

INSERT: The following.

(i) Backfill. Backfill as directed.

602.04 MEASUREMENT AND PAYMENT

DELETE: 602.04 in its entirety.

INSERT: The following:

602.04 MEASUREMENT AND PAYMENT. The payment will be full compensation for all concrete, concrete for slot backfill, hot mix asphalt, hot mix asphalt for slot backfill, forms, excavation, backfill, disposal of excess material, drainage openings, joint sealer, tack coat, vertical adjustment of existing utilities, graded aggregate base, saw cut, and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Temporary and permanent stabilization of disturbed area for combination curb and gutter or curb installation shall be incidental to the pertinent item and shall include all necessary topsoil, reseeding, sod, seed and mulch, and for all materials, labor, equipment, tools and incidentals necessary to temporarily or permanently stabilize the disturbed area adjacent to the curb installation.

The Contract Unit Price for Curb or Combination Curb and Gutter shall include vertical adjustments of existing utilities. Vertical adjustment will include any required coordination and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

When existing curb and/or combination curb and gutter is removed and replaced with new curb and/or combination curb and gutter, the cost of the removal will be incidental to the Contract unit price for Curb and/or Combination Curb and Gutter. When existing curb and/or combination curb and gutter is removed and not replaced the cost of the removal will be measured and paid for at the Contract unit price for Class 2 Excavation.

In locations where Monolithic Median is removed and replaced, combination curb and gutter and concrete sidewalk items shall be used for measurement and payment. However, the contractor may complete the work as one concrete pour.

Full depth saw cuts will not be measured but the cost will be incidental to the pertinent item.

602.04.01 Curb Any Height or Depth will be measured and paid for at the Contract unit price per linear foot per type specified, regardless of height or depth. Curb will be measured along the front face of the curb.

602.04.02 Combination Curb and Gutter Any Height or Depth will be measured and paid for at the Contract unit price per linear foot per type specified, regardless of height or depth. Combination curb and gutter will be measured along the front face of the curb.

Full-depth sawcut and full-depth reconstruction for slot backfill/patching shall be incidental to the price of curb and gutter.

**CATEGORY 600
SHOULDERS**

SECTION 603 — SIDEWALKS

603.01 DESCRIPTION.

ADD: The following after the first paragraph.

The minimum width for concrete sidewalk and/or sidewalk ramps shall be 5 ft-0 in. A Design Waiver approved by the City of Rockville must be obtained for any locations where the width of sidewalk is less than 5 ft-0 in.

Sidewalk shall be 4" thick.

603.02 MATERIALS

INSERT: The following.

Topsoil Section 705.02
Turfgrass Sod Section 708.02

603.03 CONSTRUCTION

INSERT: The following.

Topsoil Section 705.03
Turfgrass Sod Section 708.03

603.03.01 Concrete Sidewalks.

(e) Joints.

INSERT: The following.

When sidewalk is constructed adjacent to traffic signal poles, buildings, streetlight poles, manholes/handboxes, pipes, or any other structures, expansion joint material shall be placed around the signal poles after saw cuts.

When sidewalk is constructed adjacent to buildings, sealant shall be placed around the face of the buildings.

DELETE: 603.03.01(f) in its entirety.

INSERT: The following.

(f) Cold Weather Construction and Curing. Refer to 520.03.02 and 520.03.12, except the requirement for an approved spraying machine with drive wheels is waived when using the liquid membrane forming compound method. Do not allow pedestrian and vehicular traffic during the curing period.

603.04 MEASUREMENT AND PAYMENT.

DELETE: 603.04 in its entirety.

INSERT: The following.

The payment will be full compensation for all full depth saw cuts, excavation, backfill, 4" topsoil, turfgrass sod, concrete, asphalt, disposal of excess or unsuitable material, forms, reinforcement when specified, joints, sub-grade preparation, sealer, compaction, vertical adjustment of existing utilities, curing, finishing, and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Replacement and rehabilitation of grass and landscaped areas damaged or as necessary due to grading for sidewalk reconstruction will not be measured but shall be incidental to the unit price for sidewalks.

The Contract Unit Price for Concrete Sidewalk and/or Asphalt Sidewalk shall include vertical adjustments of existing utilities. Vertical adjustment will include any required coordination and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Temporary and permanent stabilization of disturbed area for Sidewalk installation shall be incidental to the pertinent item and shall include all necessary backfill, topsoil, reseeding, sod, seed and mulch, and for all materials, labor, equipment, tools and incidentals necessary to temporarily or permanently stabilize the disturbed area adjacent to the Sidewalk installation.

When existing concrete or asphalt sidewalk is removed and replaced with new concrete sidewalk, the cost to remove the existing sidewalk will be incidental to the Contract unit price for 5 in. Concrete Sidewalk or Asphalt Sidewalk. When existing concrete or asphalt sidewalk is removed and not replaced the cost of the removal will be paid for at the Contract unit price for Class 2 Excavation.

Full depth saw cuts will not be measured but the cost will be incidental to the pertinent sidewalk item.

603.04.01 Concrete Sidewalks will be measured and paid for at the Contract unit price per square foot of finished surface including sidewalk ramps.

603.04.02 Asphalt Sidewalk will be measured and paid for at the Contract unit price per ton for the mixture placed.

**CATEGORY 800
TRAFFIC**

CATALOG CUTS AND WORKING DRAWINGS

DESCRIPTION. Prepare and transmit submittals to demonstrate the performance of the work in accordance with the Contract Documents. Submittal schedules, catalog cuts, shop drawings, installation methods, manufacturer's certifications, photometric data and working drawings shall be furnished on all Contractor furnished items for highway signing, sign lighting, highway lighting and traffic signals. Stakeouts of the sign locations shall be submitted for all sign structure locations as specified in the Contract Documents

MATERIALS. Not Applicable.

CONSTRUCTION.

Submittal Requirements. Submittals shall be scheduled and coordinated with the Contractor's construction schedule. A complete submittal schedule and list of required submittals shall be submitted with the first submittal, but no later than three days after the pre-construction conference. The schedule for submission of submittals shall be arranged so that related equipment items are submitted concurrently.

The Engineer may require changes to the submittal schedule to permit concurrent review of related equipment. Shop drawings for closely related items such as a sign and ITS support structures shall be submitted together.

Submittal Documents. Drawings shall be neat in appearance, legible and explicit to enable proper review. D size plans shall still be legible when reduced to one half size. They shall be complete and detailed to show fabrication, assembly and installation details, wiring and control diagrams, catalog data, pamphlets, descriptive literature, and performance and test data. They shall be accompanied by calculations or other sufficient information to provide a comprehensive description of the structure, machine or system provided and its intended manner of use. If drawings deviate from the Contract Documents, advise the Engineer in writing with the submittal and state the reason for the deviation.

No portion of the work requiring a Contractor's drawing shall be started nor shall any materials be fabricated, delivered to the site, or installed prior to the approval or qualified approval of the drawings. Fabrication performed, materials purchased or on-site construction accomplished which does not conform to approved Contractor's drawings shall be at the Contractor's risk. The Administration will not be liable for any expense or delay due to corrections or remedies required to accomplish conformity.

Shop drawings shall show types, sizes, accessories, layouts including plans, elevations and sectional views, component, assembly and installation details, and all other information required to illustrate how applicable portions of the Contract requirements will be fabricated and installed. In case of fixed mechanical and electrical equipment, layout drawings drawn to scale, shall be

submitted to show required clearances for operation, maintenance and replacement of parts. Manufacturer's certified performance curves, catalog cuts, pamphlets, descriptive literature, installation and application recommendations, shall be provided and indicate conformance to the Contract Documents. Certifications shall be originals. Certification shall also be sent to the Office of Materials and Technology (OMT) as required in the Contract Documents.

Manufacturer's catalog, product and equipment data shall include materials type, performance characteristics, voltage, phase, capacity, and similar data along with wiring diagrams when applicable. Indicate catalog, model and serial numbers representing specified equipment. Provide complete component information to verify all specified required items. Installation recommendations and instructions shall provide written Manufacturer's detail step by step preparation and installation of the materials, and products including recommended tolerances and space for maintenance and operation.

Catalog cuts for sign luminaires shall have photometric data attached for each sign to be illuminated. Photometric printouts shall include the sign number, the illumination on a one foot square grid covering the entire sign face, the average illumination, the maximum to minimum uniformity ratio, and a working drawing for the sign face attached.

Catalog cuts for roadway luminaires shall have photometric data attached as specified in the Contract Documents.

Submit working drawings as required for changes, substitutions, contractor design items, and Contractor designed methods of construction. Requirements for working drawings will be listed in appropriate Specification Sections and in Special Provisions. Drawings shall be accompanied by calculations or other information to completely explain the structure, machine or system described and its intended use. Review and approval of such drawings by the Engineer shall not relieve the Contractor from his responsibility with regard to the fulfillment of the terms of the Contract.

Working drawings and calculations as submitted shall be sealed, dated and signed by a Professional Engineer registered in the State of Maryland.

The review and approval of Contractor's drawings by the Administration shall not relieve the Contractor from his responsibility with regard to the fulfillment of the terms of the Contract. The Contractor shall be responsible for the verification and accuracy of all dimensions and insuring that all Contractor furnished items are compatible, and conform to all design and performance criteria. All risks of error and omission are assumed by the Contractor and the Engineer will have no responsibility therefor.

Submittal Process. Each drawing submitted shall have affixed to it the following Certification Statement, signed by the Contractor:

"By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and pertinent data and I have

checked and coordinated each item with other applicable approved drawings and Contract requirements."

With the first submittal, include a submittal schedule, listing by Specification Section number, all submittals required and approximate date submittal will be forwarded.

Each submittal having catalog descriptions, shop drawings, working drawings, photometric data, manufacturer's certifications, method of construction and manufacturer's installation recommendations shall be submitted to the City of Rockville.

Each submittal shall have a transmittal page that indicates the Contractor's and Subcontractor's address and phone numbers. Submittals containing multiple items need the transmittal only on the exterior of each package. Electronic (*.pdf format) and original submittals, shall be required. A separate copy shall be forwarded to the Engineer.

All submittals for approval shall have the following identification data, as applicable, contained thereon or permanently adhered thereto.

- (a) Drawing title, drawing number
- (b) Applicable Contract Drawing Numbers and Specification Section and Paragraph Numbers.

The first page of every catalog description, working drawing and material certification shall be stamped in red with the following. All pertinent Contract Document information shall be filled in the spaces provided.

CITY OF ROCKVILLE	
SUBMITTAL PACKAGE # _____ DATED _____ CONTRACT # _____ LOCATION _____ PROJECT DESC. _____ ITEM # _____ THIS ITEM CONTAINS _____ PAGES _____ ITEM DESCRIPTION _____	
<input type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED AS NOTED <input type="checkbox"/> REJECTED - REVISE & RESUBMIT	
REVIEWERS NAME	DATE

Indicate the submittal package by sequential numbering and date of submittal. Catalog, product data or brochure submittals containing various products, sizes and materials shall be underscored or highlighted to indicate the salient features required to meet the specifications. Likewise, items not applicable to the Contract shall be marked "not applicable" or crossed out.

If one or more of the items in a submittal are not approved, resubmittal of only the unapproved items is required, highlighted to show the particular item being resubmitted. Resubmittals shall bear original submittal number and be lettered sequentially.

Three copies of all Contractor's drawings will be returned to the Contractor.

Each submittal shall be in accordance with the submission schedule. Allow thirty days for checking and appropriate action by the Engineer.

Contractor's submittals will be returned, marked with one of the following classifications:

ACCEPTED: no corrections, no marks

ACCEPTED AS NOTED: a few minor corrections. Item shall be installed in accordance with the corrected drawings.

REJECTED - REVISE & RESUBMIT: requires corrections or is otherwise not in accordance with the Contract Documents. No items shall be fabricated. Correct and resubmit drawings as per original submission. Allow thirty days for checking and appropriate action by the Engineer.

MEASUREMENT AND PAYMENT. Catalog cuts, manufacturer's certifications, photometric data and working drawings will not be measured but the cost will be incidental to the pertinent items specified in the Contract Documents.

**CATEGORY 800
TRAFFIC**

AUDIBLE PEDESTRIAN PUSHBUTTON STATION AND SIGNS, AND CENTRAL CONTROL UNIT

DESCRIPTION. Furnish and install self-contained Audible/Tactile Pedestrian Pushbutton Station and Signs, and APS central control unit, as specified in the Contract Documents or as directed by the Engineer. Signs include R10-3(1) sheet aluminum signs with mounting hardware.

MATERIALS. Audible/Tactile Pedestrian Pushbutton Station and Signs and all component parts must meet the latest edition of the National Electrical Manufacturers Association (NEMA) Standards and Underwriters Laboratory (UL), as applicable

Serial numbers and model numbers, if available, shall be permanently engraved on all removable components and hardware. The serial number and model number shall be etched, stamped, molded, or attached using metallic self-adhesive labels. The use of adhesive backed paper labels is not acceptable.

CONSTRUCTION. Audible/Tactile Pedestrian Pushbutton Station and Signs will be designed to mount near or at the bottom of the pedestrian display mounting post. The pushbutton assembly for the audible signal may replace or supplement an existing pedestrian signal pushbutton.

Audible/Tactile Pedestrian Pushbutton Station and Signs shall be designed as follow:

- (1) A single base unit at the traffic control cabinet must be able to control 2 to 12 (maximum of 3 per phase) push button stations.
- (2) Only a single 2 - conductor cable will be required from traffic controller cabinet per each pushbutton to operate all pushbutton features.
- (3) Each station will have a 2-in. button with a tactile raised directional arrow on the button.
 - (a) It shall be possible to change the arrow direction to one of four directions.
- (4) The push button station frame shall be cast aluminum with mounting holes for a 5 in. by 7.75 in. or larger pedestrian sign.

Audible/Tactile Pedestrian Pushbutton Station and Signs will have the following features.

- (1) Locating tone
- (2) 5 walk sound choices that shall be field selectable.
- (3) 3 pedestrian clearance sound choices that shall be field selectable.

(4) A Direction of Travel message shall be standard with extended push.

(5) An Information message shall be optional with extended push.

The audible sounds emitted by the Audible/Tactile Pedestrian Pushbutton Station and Signs shall have the following properties

(1) All audible sounds shall emanate from the push button station.

(2) All audible sounds for all push button stations shall be synchronized.

(3) Each audible feature shall have independently-adjustable minimum and maximum volume limits.

(4) All sounds shall automatically adjust over a 60 dB range to compensate for ambient noise levels.

(5) All volumes and optional features shall be settable using a handheld infrared device with password security. The infrared device shall be capable of updating/setting all push button stations, or the intersection from a single pushbutton station (Global updating).

(6) The ability to mute sounds at all crosswalks except activated crosswalks.

The system shall have user-selectable multiple language capability.

The system shall be able to play an emergency preemption message.

The system shall be able to self-test its buttons and to report any faults to the traffic controller.

Warranty. Audible/Tactile Pushbutton Station and Signs shall be warranted by the Manufacturer for a period of 24 months from the date of delivery.

Compatibility Testing: Audible/Tactile Pushbutton Station and Signs manufacturers shall certify that their modules meet the Load Switch and Signal Conflict Monitor Compatibility testing requirements found in the most recent, formally-adopted version of the specification titled "Pedestrian Traffic Control Signal Indications - Part 2: Light Emitting Diode (LED) Pedestrian Traffic Signal Modules," published by the Institute for Transportation Engineers (ITE).

MEASUREMENT AND PAYMENT.

Furnish and Install Audible/Tactile Pedestrian Signal Pushbutton Station and Signs will be measured and paid for at the contract unit price each. The payment will be full compensation for furnishing, programming, delivery to the specified signal shop for testing, pick up, and installing the push button stations, signs, R10-3(1) sheet aluminum signs, mounting hardware, all cables, labor, equipment, tools, and incidentals necessary to complete this work.

Furnish and Install Audible/Tactile Pedestrian Signal 2-wire Central Control Unit will be measured and paid for at the contract unit price per each. The payment will be full compensation for furnishing, programming delivery to the specified signal shop for testing, pick up, and installing the Audible/Tactile Pedestrian Base unit and all cables, labor, equipment, tools, and incidentals necessary to complete this work.

Furnish Audible/Tactile Pedestrian Signal 2-wire Central Control Unit will be measured and paid for at the contract unit price per each. The payment will be full compensation for furnishing, delivery to the specified signal shop for testing, and all cables, labor, equipment, tools, and incidentals necessary to complete this work.

**CATEGORY 800
TRAFFIC**

Decorative Steel Pedestrian Pedestal Pole, Decorative Base and Cap

DESCRIPTION. Furnish and install painted decorative traffic signal pedestal pole, decorative base and cap at locations specified in the Contract Document or as directed by the Engineer.

MATERIALS.

Design shall meet 2001 edition of AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals except as noted. All welding shall conform to American Welding Society (AWS) Structural Welding Code D1.1 - Steel, Tubular Structures or its equivalent.

Decorative pole should be minimum 72 in. high from the ground to the top of the pole including decorative pole base.

Decorative pedestal pole furnished shall consist of a design from a steel shaft with a decorative steel base assembly, pole cap and all miscellaneous hardware.

- (a) The pedestal pole shaft shall be round or multi-sided (less than eight sides not acceptable) in cross section. It shall not be tapered. 10 ft and 6 ft pedestal pole shafts shall be 4-1/2 in. outside diameter, Schedule 40 pipe, and conform to A 501.
- (b) Each pedestal pole shall be furnished with a removable domed cap, fabricated from cast aluminum, circumferentially attached to the side of the pole with three hex head type 304 stainless steel bolts (1/4 in. - 20 UNC).
- (d) Each pedestal pole shall have an identification plate mechanically attached 6 in. above the pedestal pole base plate and oriented so that the identification plate may be read from a ground observation position.
- (e) Pedestal pole, base and cap shall be painted before installation. All paint shall be of a grade suitable for commercial and industrial uses. Paint type, formulation, and color shall be subject to the review and approval of the Engineer. Before beginning work, the contractor shall submit color chip samples of the paint intended for use. Color for signal components having painted surfaces shall be as follows, unless otherwise directed by the Engineer: Federal Green (Federal Std. 595a #: 14036).

Prior to the application of any paint or coating, the surface shall have all foreign particles, paint scale, and rust removed by wire brush or equivalent method. All exposed metal surfaces shall be primed with an approved rust inhibitor coat which shall dry for at least 24 hours before applying the final coat. All surfaces to be painted shall be absolutely dry and paint must not be applied when the air temperature is 32 degrees or less. Paint may be applied with mitts, by brush, or a combination of methods.

Anchor Bolts

- (a) Each pedestal pole anchor bolt shall be made of steel conforming to M 314, Grade 55 S1.
- (b) Anchor bolt size shall be determined based on the manufacturer's recommendations.
- (c) All anchor bolts, nuts, washers and other hardware shall be hot dipped or mechanically galvanized. The galvanized coating shall conform to the thickness, adherence and quality requirements of A 123 or A 153 for hardware. All high strength bolts (of a given length), nuts (of a given size) and washers (of a given diameter) shall be from the same manufacturing lot per each requisition of materials. The use of foreign made fasteners is prohibited.

CONSTRUCTION.

Per manufacturer's recommendations

MEASUREMENT AND PAYMENT.

Decorative Pedestal poles will be measured and paid for at the Contract unit price per each type of pole furnished and installed. The payment will be full compensation for furnishing and installing pedestal poles, anchor bolts, base, painting, all materials, labor, equipment, tools and incidentals necessary to complete work.

Tag Detail

Mfg: _____ [1] Contract #: _____ [2]
Pole Diameter: _____ [3] Height: _____ [4] Gauge: _____ [5]
Anchor Bolts: _____ [6] Bolt Circle: _____ [7]

Tag Reference

- [1] Name of the manufacturer of the pedestal pole.
- [2] City's Contract Number of the pedestal pole.
- [3] Pole outside diameter at the base: 4-1/2 in. O.D.
- [4] Pole height¹: 5.5 feet or 10 feet
- [5] Pole gauge: Schedule 40
- [6] Anchor bolt size:
- [7] Bolt circle diameter:

¹Pole height includes the height of the pedestal pole and base.

**CATEGORY 800
TRAFFIC**

UTILITY STAKEOUT

DESCRIPTION. This work shall consist of utility connections, and utility stakeout, as specified in the Contract Documents or as directed by the Engineer.

CONSTRUCTION. Arrange a meeting with the utility company representatives, the City, and the Engineer as specified in the Contract Documents to establish a schedule for utility connections before any equipment or material is installed.

Do not disconnect, de-energize, reconnect, tamper with, or otherwise handle any of a utility company's facilities. The Contractor shall be responsible for the utility service connections to the utility company's supplied point of service.

Make the necessary arrangements with the utility companies to insure having needed utilities available at the time of turn on. Any utility energization, connection or disconnection delays will not be considered a valid reason for any work time extension claim. Difficulties in securing utility company services are to be reported to the Engineer at the earliest possible time.

Utility Stakeout. Notify the appropriate agencies listed in the Contract Documents prior to the Contractor's anticipated beginning of any underground work.

Plan the work to minimize interference with any existing traffic control devices.

Existing equipment shall remain in its original condition until the new equipment has been completed, satisfactorily tested and its operation accepted by the Engineer.

MEASUREMENT AND PAYMENT. Utility Stakeout will not be measured but the cost will be incidental to other pertinent items specified in the Contract Documents.

**CATEGORY 800
TRAFFIC**

EQUIPMENT TURN ON, REMOVAL AND MAINTENANCE

DESCRIPTION. The work consists of removal of existing traffic signal equipment, materials and concrete foundations, and maintaining existing equipment as specified in the Contract Documents or as directed by the Engineer.

MATERIALS. Not applicable

CONSTRUCTION.

Equipment Turn On. Notify the Engineer five working days prior to the completion of the project to schedule a final inspection and turn-on.

Stakeout, with the Engineer present, the proposed construction as indicated on the plan.

Removal and Disposal of Existing Signal Equipment.

Contractor shall remove and dispose of existing traffic signal foundations, materials and equipment as shown on the plans and/or as directed by the engineer. All existing removed equipment including traffic signal poles shall become the property of the Contractor upon completion of the project, unless otherwise directed by the City.

Remove concrete foundations specified in 207.03.01. All holes caused by this removal shall be backfilled, compacted and restored to surrounding conditions.

Remove all existing hard rubber detectors and handholes not shown on the Plans. The holes shall be backfilled, compacted and restored to surrounding conditions. The sidewalk where handholes are removed shall be reconstructed to the nearest tooled joint or expansion joint. The roadway where hard rubber detectors are removed shall be reconstructed in conformance with Administration utility patch repair standards.

Disposal of all material not salvaged. Non-galvanized green painted structures may contain lead and the contractor will be responsible for proper disposal of such material.

Storage of Materials. Materials shall be bundled, stored, and protected in conformance with the manufacturer's recommendations or as approved by the Engineer.

Maintenance of Materials and Equipment. The maintaining agency will continue maintenance of any existing signals until the Contractor places new equipment into operation.

When the work requires adjustments to the traffic control devices to maintain the minimum City standards, the adjustments to the traffic control devices shall be made within 4 hours of verbal notification by the Engineer. Failure to comply with this time period will result in the

Administration performing adjustment and deducting the cost of the adjustment from the Contractor's payment.

Existing signals shall remain in their original condition until the new signals have been completed, satisfactorily tested and its operation accepted by the Engineer.

Maintain the continuous operation of all vehicular and pedestrian detectors. If any detector is damaged by the Contractor, it shall be repaired within 72 hours after notification by the Engineer.

All traffic signals and existing interconnect cable shall be operational and actuated as specified in the Contract Documents.

Plan the work to minimize interference with any existing traffic control device.

MEASUREMENT AND PAYMENT. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to complete the work for one or more of the items specified in the Contract Documents.

Equipment Turn On. Equipment Turn On will not be measured but the cost will be incidental to other pertinent items specified in the Contract Documents.

Remove and Dispose of Existing Signal Equipment. Remove and Dispose of Existing Signal Equipment shall be measured and paid for based on a lump sum basis for each intersection in the project. The payment will be full compensation for all removal, hauling, excavation, backfill, seeding, mulching, disposal of excess or unsuitable material, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

Maintenance of Existing Signal Equipment. Materials storage, cable sealing and handling, adjustments to maintain minimum Administration standards on existing signals made necessary by new signal or geometric modifications and Contractor repair of any damaged detector caused as a result of Contractor's error will not be measured but the cost will be incidental to other pertinent items specified in the Contract Documents.

**CATEGORY 800
TRAFFIC**

DISCONNECT, PULLBACK AND REROUTE EXISTING CABLE

DESCRIPTION. Disconnect existing cable(s) from traffic control device(s), pullback and reroute through new or existing conduit systems, handholes, span wires, mast arms and/or structures for reconnecting the traffic control device(s) as specified in the contract documents, or as directed by the Engineer.

MATERIALS. Not Applicable

CONSTRUCTION. Notify the Engineer and Traffic Operations Division representatives at least 5 working days before intended work is to be completed. Plan the work to minimize interference and/or down time of any existing traffic control device.

Disconnect specified cable(s) from the traffic control device and pullback to the point noted or as directed, reroute the cables through the specified raceway(s) and back to the device specified.

MEASUREMENT AND PAYMENT. Disconnect, Pullback & Reroute Cable will be measured and paid for at the contract price per linear foot and shall apply for one or as many cables as are disconnected from a specified device and rerouted back to a device (not per cable). The payment will be full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

**CATEGORY 800
TRAFFIC**

SECTION 810 - ELECTRICAL CABLE, WIRE AND CONNECTORS

810.02 MATERIALS.

ADD: Cable Duct End Seals shall consist of a one-piece heat shrinkable device designed to provide a waterproof seal around the cable duct and each individual cable. The Cable Duct End Seal shall have separate entranceways for each cable, and shall hold the cables apart when applied.

810.03. CONSTRUCTION.

810.03.03 Preassembled Cable Duct

Delete: The second paragraph beginning “After backfilling...” in it’s entirety.

INSERT: The following.

After backfilling demonstrate that the conductors move freely within the duct by pulling the conductors out a minimum of length of 2 ft. Pulling Tension shall conform to 810.03.02. The cable shall be then pulled to it’s original position, and the Cable Duct End Seals installed. After installation of the Cable Duct End Seals, but prior to installing connector kits or splices, the electrical circuit testing shall be performed as specified in 820.03.02 (b) and the results recorded. The contractor shall record the length of cable, locations of both ends of the cable duct, and the insulation resistance on a form acceptable to the Engineer, and forward the form to the Engineer.

823.04 MEASUREMENT AND PAYMENT.

810.04.01

ADD: Preassembled Cable Duct that has not had the required electrical tests performed and reported to the engineer will not be measured or paid for.

ADD:

810.04.04 Cable Duct End Seals shall be measured and paid for at the contract unit price per each.

**CATEGORY 800
TRAFFIC**

**SECTION 811 - ELECTRICAL HAND HOLES, MANHOLES, PULL AND JUNCTION
BOXES**

811.03. CONSTRUCTION.

811.03.01

ADD: The following.

Adjustment of existing hand holes, manholes, pull and junction boxes to match proposed or existing grade shall be done at the direction of the engineer. Increases to wall height may be by concrete riser rings, or concrete brick as approved by the engineer. Decreases to wall height may be by concrete saw or other method as approved by the engineer. The existing frame and cover may be reused. The existing concrete collar shall be reconstructed.

ADD: The following.

811.03.03 Removal. Unless otherwise specified, remove material to at least 1 ft below subgrade or existing ground. Except with written approval, do not use blasting.

811.04 MEASUREMENT AND PAYMENT

ADD: The following.

Adjust Existing Handhole to Grade will be measured and paid for at the Contract unit price per each unless otherwise specified in the Contract Documents. The payment will be full compensation for all excavation, aggregate drain, concrete, bolts, bricks, pipes, backfill, sealer, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

When the existing sidewalk or ramp is reconstructed, adjustment of the existing handholes will be incidental to the concrete sidewalk.

Remove Existing Handhole will be measured and paid for at the Contract unit price per each unless otherwise specified in the Contract Documents. The payment will be full compensation for the removal, excavation, backfill, compaction, disposal of excess or unsuitable material, blasting and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

When a new handhole is placed in the location of an existing handhole, the removal of the existing handhole will be incidental to the new handhole, unless otherwise specified.

Replace Handhole Frame and Cover will be measured and paid for at the Contract unit price per each unless otherwise specified in the Contract Documents. The payment will be full compensation for all excavation, aggregate drain, concrete, bolts, bricks, pipes, backfill, sealer, frames and covers, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

**CATEGORY 800
TRAFFIC**

SECTION 813 — SIGNS

813 SIGNS.

813.03 MATERIALS.

DELETE: The first full paragraph.

INSERT: The following.

Provide all hardware not provided by the City. Hardware shall be stainless steel. The contractor shall supply traffic signal related signs and their mounting hardware for span wire, mast arm, and signal pole mounted applications

813.04 MEASUREMENT AND PAYMENT

DELETE: Its entirety.

INSERT: The following.

Signs will be measured and paid for at the Contract unit price per square foot of area of the vertical front face of the completed sign. The payment will be full compensation for all material, mounting hardware, drilling holes, labor, equipment, tools, and incidentals necessary to complete the work.

Clearing for signing will not be measured but the cost will be incidental to the Contract unit price for furnishing and installing the signs.

**CATEGORY 800
TRAFFIC**

SQUARE PERFORATED TUBULAR STEEL POSTS DESCRIPTION

Furnish and install square perforated tubular steel posts and square perforated tubular steel anchor bases for mounting traffic signs as specified in the contract documents, or as directed by the Engineer.

MATERIALS.

Steel Posts	A570 Grade 50
Galvanizing	A653 Designation G-90
Spray Galvanizing Compound	A780

Square tubular steel posts and square tubular steel anchor bases shall be formed from 12 gauge steel. All sides of the tubes shall have 7/16 in. die punched circular holes or perforated knock-outs, at 1 in. centers along their entire length.

The tubular steel posts shall be 2 in. square tubes 12 ft long.

Square tubular steel anchor bases shall be comprised of two telescoping tubes. The first shall be 2 -1/4 in. square, three ft long, formed from 12 gauge steel and shall snugly fit over the sign post. The second section shall be a 2-1/2 in. square, 18 in. long, formed from 12 gauge steel, and shall snugly fit over the 2-1/4 in. section.

CONSTRUCTION. Construct the square tubular steel anchor base assembly by placing the 18 in. base section over the 3 ft base section so that they are flush at the top and the holes are aligned. Drive the entire unit into the ground so that one or two rows of holes in the square perforated tubular steel base are exposed. Drive the base so that it remains plumb and provides the final sign assembly with the correct orientation.

Determine the finished length of the tubular steel posts by adding the total height of the signs to 8 ft, 2 in. Cut the sign post to the correct length, and apply cold spray galvanizing to the cut end. Bolt the signs to the top of the post, using tamper proof bolts or drive rivets. Lower the square tubular steel posts 8 in. into the base, and secure the post to the base using two corner bolts designed for this purpose.

MEASUREMENT AND PAYMENT. Furnish and Install Square Perforated Tubular Steel Posts will be measured and paid for at the contract unit price per each. The payment will be full compensation for the sign post, corner bolts, and painting as required, and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Furnish and Install Square Tubular Steel Anchor Bases will be measured and paid for at the contract unit price per each. The payment will be full compensation for both tubes comprising the base section, all excavation, and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

STANDARD DETAILS

The following list of Maryland SHA Standard Details that are included is expected to be frequently referenced on this project. This is not an all-inclusive list; there are other details that are not included that the contractor will need to reference. The Standard Details are attached to these Contract Documents in Appendix C.

1. MD 104.02-02 Shoulder Work/2-Lane, 2-Way Eql/Less Than 40 MPH
2. MD 104.02-14 Intersection Flagging Operation 2-Lane, 2-Way Eql/Less Than 40 MPH
3. MD 104.02-15 Mobile Operation/2-Lane, 2-Way All Speeds/0-15 MIN., and Moving Slow
4. MD 104.03-10 Inter. Far-Left Lane Closure/ Multilane Undvi. Eql/Less Than 40 MPH
5. MD 104.03-12 Inter. Far-Right Lane Closure/Multilane Undiv. Eql/Less Than 40 MPH
6. MD 104.04-02 Shoulder Work/Divided Uncon. Eql/Less Than 40 MPH
7. MD 104.04-04 Left Lane Closure/Divided Uncon. Eql/Less Than 40 MPH
8. MD 104.04-06 Right Lane Closure/Divided Uncon. Eql/Less Than 40 MPH
9. MD 104.04-14 Left-Turn Bay Closure/Divided Uncon. Eql/Less Than 40 MPH
10. MD 104.06-09A Ped and Curb-Line Control / Multilane Undiv. Speed Less Than or Equal to 40 MPH / Over 12 Hrs. or Nighttime Use
11. MD 104.06-09B Ped and Curb-Lane Control / Multilane Undiv. For Speeds Greater Than 40 MPH / Over 12 Hrs. or Nighttime Use
12. MD 104.06-09C Ped and Curb-Lanecontrol / Multilane Undiv. and Speeds / Over 12hrs. or Nighttime
13. MD104.06-09D Ped and Curb-Lane Control / Multilane Undiv. For Speeds Greater Than 40 MPH / Over 12 Hrs. or Nighttime Use
14. MD 655.11 Sidewalk Ramp Perpendicular
15. MD 655.12 Sidewalk Ramps Parallel
16. MD 655.13 Sidewalk Ramps Combination
17. MD 655.40 Detectable Warning Surfaces
18. MD 801.01 Signal Structure Foundations
19. MD 801.01-01 Signal Structure Foundations For Pushbutton and Pedestrian Signal Pole
20. MD 811.01 Handhole (Materials Detail)
21. MD 811.02 Handhole Frame and Cover
22. MD 811.03 Handhole Installation
23. MD 817.01 Accessible Pedestrian Signal (APS) Pushbutton Location on Pole
24. MD 817.02 Pedestrian Push Button Assembly
25. MD 818.16 10' Pedestal Pole
26. MD 818.16-01 10' Pedestal Pole For Use with Breakaway Couplings.
27. MC-100.01 Combination Concrete Curb and Gutter Type A
28. MC-102.01 Depressed Curb Entrance
29. MC-114.01 Median Opening



City of Rockville
Rockville, Maryland

BID PROPOSAL FORMS

INVITATION FOR BID # 04-23

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT

**THESE FORMS, UNLESS NOTED OTHERWISE, MUST BE
COMPLETED, SIGNED
AND
SUBMITTED**

**FAILURE TO COMPLY WILL
RESULT IN THE
DISQUALIFICATION OF YOUR BID**

In response to the advertisement by the City of Rockville inviting bids for the work and in conformance with the bid document on file in the Purchasing Division of the City of Rockville, we hereby certify that we are the only person, or persons interested in this bid proposal as principals, and that an examination has been made of the work site, the specifications, the plans and the bid documents. We propose to furnish all necessary machinery, materials, equipment, tools, labor and other means of construction required to complete the project. Bidders must bid all items.

The following items shall be performed per the referenced Standard Specification and the Contract Documents. Measurement and Payment shall be as described in the Technical Specifications unless otherwise specified in the Contract Documents. All work items described in the Contract Documents that are not referenced by a specific pay item shall be considered incidental to all other items in the Contract Documents.

**CITY OF ROCKVILLE
ROCKVILLE, MARYLAND**

**INVITATION FOR BID # 04-23
NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT**

BID PROPOSAL FORM

THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED

IN ACCORDANCE WITH ALL TERMS, SPECIFICATIONS AND REQUIREMENTS, WE PROPOSE TO FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND SERVICES AND THE PERFORMANCE OF ALL WORK NECESSARY TO CONSTRUCT THE STORMWATER MANAGEMENT FACILITY RETROFIT PROJECT. PROVIDE PRICING BELOW TO INCLUDE OVERHEAD, PROFIT, TAXES, INSURANCE AND OTHER APPLICABLE FEES AND COSTS.

ITEM NO.	DESCRIPTION	UNIT	EST QTY	UNIT PRICE	TOTAL
1001	MOBILIZATION	LS	1		
1002	CONSTRUCTION STAKEOUT	LS	1		
1003	MAINTENANCE OF TRAFFIC	LS	1		
1004	5 INCH YELLOW REMOVABLE PAVEMENT LINE MARKINGS	LF	6222		
1005	5 INCH WHITE REMOVABLE PAVEMENT LINE MARKINGS	LF	13010		
1006	10 INCH YELLOW REMOVABLE PAVEMENT LINE MARKINGS	LF	116		
1007	12 INCH WHITE REMOVABLE PAVEMENT LINE MARKINGS	LF	4757		
1008	24 INCH WHITE REMOVABLE PAVEMENT LINE MARKINGS	LF	436		
1009	REMOVABLE LETTERS, SYMBOLS, ARROWS, AND NUMBERS	SF	186		
1010	REMOVAL OF REMOVABLE LETTERS, SYMBOLS, ARROW, AND NUMBERS	EA	12		
1011	REMOVAL OF REMOVABLE PAVEMENT MARKING LINES - ANY WIDTH	LF	24539		
2001	TEST PIT EXCAVATION	CY	1		
2002	REMOVAL OF EXISTING PAVEMENT	SF	1878		
3001	FURNISH AND INSTALL INLET PROTECTION	EA	1		
3002	FURNISH AND INSTALL TYPE S COMBINATION INLET	EA	1		
3003	FURNISH AND INSTALL 6 INCH PVC UNDERDRAIN	LF	68		
3004	FURNISH AND INSTALL 8 INCH WIDE TRENCH DRAIN	EA	2		

ITEM NO.	DESCRIPTION	UNIT	EST QTY	UNIT PRICE	TOTAL
5001	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS	LF	10112		
5002	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS	LF	6054		
5003	10 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS	LF	92		
5004	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	3945		
5005	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	380		
5006	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF	220		
5007	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF	430		
5008	SHARED BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING	SF	18		
5009	GREEN BIKE LANE PAVEMENT MARKING PAINT	SF	5023		
6001	FURNISH AND INSTALL TYPE A CURB & GUTTER	LF	676		
6002	FURNISH AND INSTALL DEPRESSED CURB ENTRANCE	LF	133		
6003	FURNISH AND INSTALL 4" CONCRETE SIDEWALK	SF	4669		
6004	FURNISH AND INSTALL DETECTABLE WARNING SURFACE FOR CURB RAMPS	SF	69		
6005	FURNISH AND INSTALL 9" CONCRETE SIDEWALK	SF	1879		
6006	FURNISH AND INSTALL PRECAST CONCRETE CURB	EA	202		
7001	PLACING SALVAGED TOPSOIL 2 INCH DEPTH	EA	90		
7002	TURFGRASS ESTABLISHMENT	SY	90		
7003	TREE REMOVAL	EA	4		
7004	TREE PLANTING	EA	4		
7005	LANDSCAPE PLANTING	LS	1		
8001	FURNISH AND INSTALL CONCRETE FOR POLE FOUNDATION	CY	4		
8002	REMOVE AND RELOCATE PEDESTRIAN LIGHTING STRUCTURE	EA	3		

ITEM NO.	DESCRIPTION	UNIT	EST QTY	UNIT PRICE	TOTAL
8003	FURNISH AND INSTALL SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA	41		
8004	FURNISH AND INSTALL SQUARE TUBULAR ANCHOR BASES	EA	41		
8005	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	25		
8006	FURNISH AND INSTALL 1 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10		
8007	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	25		
8008	FURNISH AND INSTALL 2 INCH SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED	LF	389		
8009	FURNISH AND INSTALL 4 INCH SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED	LF	430		
8010	FURNISH AND INSTALL GROUND MOUNTED SIGNS	SF	203		
8011	DISPOSE OF LIGHTING FOUNDATION	LS	1		
8012	FURNISH AND INSTALL ELECTRICAL SPLICE BOX	EA	5		
8013	FURNISH AND INSTALL 6 FOOT DECORATIVE PEDESTAL POLE	EA	1		
8014	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	8		
8015	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	LF	190		
8016	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	140		
8017	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	LF	950		
8018	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	265		
8019	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	8		
8020	FURNISH AND INSTALL 2-WIRE APS CENTRAL CONTROL UNIT	EA	1		
8021	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT	LS	1		

ITEM NO.	DESCRIPTION	UNIT	EST QTY	UNIT PRICE	TOTAL
8022	FURNISH AND INSTALL PARKING METER POLES	EA	21		
8023	REMOVE EXISTING GROUND MOUNTED SIGNS	SF	64		
8024	RELOCATE EXISTING GROUND MOUNTED SIGNS	EA	15		
8025	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 10 AWG)	LF	200		
GRAND TOTAL \$					

Write the Total Bid Price for the **IFB #04-23, NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT** in words:

By submitting this offer I acknowledge receipt of and incorporation into this offer of the following Addenda (check each applicable box):

Addendum #1 , Addendum #2 , Addendum #3 , Addendum #4 , Addendum #5 , Addendum #6

CONTRACT DURATION

This contract will begin 10 working days from the date of issuance of a Notice to Proceed (NTP). All work shall be completed within 240 calendar days of the date of issuance of the Notice to Proceed.

Confirm your ability to meet the above schedule. _____ YES _____ NO

This bid and its Firm Fixed Prices shall remain valid through March 31, 2023 for acceptance by the City.

The City of Rockville reserves the right to reject any or all bids, offer or proposals, to waive informalities, and to accept all or any part of any bid, offer proposal as they may deem to be in the best interest of the City of Rockville.

I hereby certify that I have read and understand the requirements of this Invitation for Bid No. 04-23 and, that I, as the Bidder, will comply with all requirements, and that I am duly authorized to execute this proposal/offer document and any contract(s) and/or other transactions required by award of this Invitation For Bid.

Comprehensive Signature Page

BIDDER MUST COMPLETE UNDER APPROPRIATE SECTION & RETURN WITH BID

Instruction for Signature on Bid Proposal

The bid, if submitted by an individual, shall be signed by an individual; if submitted by a partnership, shall be signed by such member or members of the partnership as have authority to bind the partnership; if submitted by a corporation the same shall be signed by the President and attested by the Secretary or an Assistant Secretary. If not signed by the President as aforesaid, there must be attached a copy of that portion of the By-Laws, or a copy of a Board resolution, duly certified by the Secretary, showing the authority of the person so signing on behalf of the corporation. In lieu thereof, the corporation may file such evidence with the Administration, duly certified by the Secretary, together with a list of the names of those officers having authority to execute documents on behalf of the corporation, duly certified by the Secretary, which listing shall remain in full force and effect until such time as the Administration is advised in writing to the contrary. In any case where a bid is signed by an Attorney in Fact the same must be accompanied by a copy of the appointing document, duly certified.

IF AN INDIVIDUAL					
Individual Name					
DBA					
Address					
City		State		ZIP	
Signature					
Printed Name					
Title					
Date					
Witness Signature					
Witness Name					
Witness Title					
Date					

IF A PARTNERSHIP					
Name of Partnership					
Address					
City		State		ZIP	
Member Signature					
Printed Name					
Title					
Date					
Witness Signature					
Witness Name					
Witness Title					
Date					

IF A CORPORATION					
Name of Corporation					
Address					
City		State		ZIP	
Fed ID or SSN					
State Of Incorporation					
Signature					
Printed Name					
Title					
Date					
Witness Signature					
Witness Name					
Witness Title					
Date					

CONTACT FOR ADMINISTRATION	
Individual Name	
e-mail	
Telephone	
FAX	
EMERGENCY SERVICE (24hr.) PHONE	

REMITTANCE ADDRESS (if different than organizational address above)					
Address					
City		State		ZIP+4	

MFD-V INFORMATION	
MFD Information	<i>For informational purposes only – Is your company certified as a Minority, Female, Disabled or Veteran (MFD-V) business: _____ yes _____ no _____ I choose not to respond</i>

AFFIDAVIT OF QUALIFICATION TO CONTRACT WITH A PUBLIC BODY
BIDDER MUST COMPLETE, SIGN, AND RETURN WITH BID

I hereby affirm that: I am the _____ (insert title) and the duly authorized representative of _____ (insert organization name) whose address is _____

And, that I possess the legal authority to make this affidavit on behalf of myself and the firm for which I am acting.

I affirm:

1. Except as described in Paragraph 2 below, neither I nor the above firm nor, to the best of my knowledge, any of its controlling stockholders, officers, directors, or partners, performing contracts with any public body (the State or any unit thereof, or any local governmental entity in the state, including any bi-county or multi-county entity), has:

A. been convicted under the laws of the State of Maryland, any other state, or the United States of any of the following:

- (1) bribery, attempted bribery, or conspiracy to bribe.
- (2) a criminal offense incident to obtaining, attempting to obtain, or performing a public or private contract.
- (3) fraud, embezzlement, theft, forgery, falsification or destruction of records, or receiving stolen property.
- (4) a criminal violation of an anti-trust statute.
- (5) a violation of the Racketeer Influenced and Corrupt Organization act, or the Mail Fraud Act, for acts in connection with the submission of bids or proposals for a public or private contract.
- (6) a violation of Section 14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland.
- (7) conspiracy to commit any of the foregoing.

B. pled *nolo contendere* to, or received probation before verdict for, a charge of any offense set forth in subsection A of this paragraph.

C. been found civilly liable under an anti-trust statute of the State of Maryland, another state, or the United States for acts or omissions in connection with the submission of bids or proposals for a public or private contract.

D. during the course of an official investigation or other proceeding, admitted, in writing or under oath, an act or omission that would constitute grounds for conviction or liability under any law or statute described in subsection A or C of this paragraph.

2. [State "none," or as appropriate, list any conviction, plea or admission as described in Paragraph 1 above, with the date, court, official or administrative body, the individuals involved and their position with the firm, and the sentence or disposition, if any]. _____

3. I further affirm that neither I nor the above firm shall knowingly enter into a contract with the Mayor and Council of Rockville under which a person or business debarred or suspended from contracting with a public body under Title 16 of the State Finance and Procurement Article of the Annotated Code of Maryland, will provide, directly or indirectly, supplies, services, architectural services, construction related services, leases of real property, or construction.

I acknowledge that this Affidavit shall be furnished to the Mayor and Council of Rockville and, where appropriate, to the State Board of Public Works and to the Attorney General. I acknowledge that I am executing this Affidavit in compliance with the provisions of Title 16 of the State Finance and Procurement Article of the Annotated Code of Maryland which provides that persons who have engaged in certain prohibited activity may be disqualified, either by operation in law or after a hearing, from entering into contracts with the Mayor and Council of Rockville. I further acknowledge that if the representations set forth in this Affidavit are not true and correct, the Mayor and Council of Rockville may terminate any contract awarded, and take any other appropriate action.

Signature _____

Printed Name _____

Title _____

Date _____

NON—COLLUSION AFFIDAVIT
BIDDER MUST COMPLETE, SIGN, AND RETURN WITH BID

I hereby affirm that: I am the _____ (insert title) and the duly authorized representative of _____ (insert organization name) whose address is _____

And, that I possess the legal authority to make this affidavit on behalf of myself and the firm for which I am acting.

I affirm:

1. I am fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;
2. Such bid is genuine and is not a collusive or sham bid
3. Neither the said bidder 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 bid in connection with the Contract for which the attached bid has been submitted or to refrain from bidding in connection with Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other 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 element 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 the Mayor and Council of Rockville, Maryland (Local Public Agency) or any person interested in the proposed Contract; and
4. 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 of its agents, representatives, owners, employees, or parties in interest, including this affiant. I do solemnly declare and affirm under the penalties of perjury that the contents of these affidavits are true and correct.

Signature

Printed Name

Title

Date

ROAD DIET CONSTRUCTION EXPERIENCE

BIDDER REFERENCE FORM

BIDDER MUST COMPLETE AND SUBMIT WITH BID

The City of Rockville reserves the right to reject bids from any company not meeting the minimum qualifications. The Bidder shall be a competent and experienced contractor with an established reputation within the community. The bidder shall have performed similar work for a minimum period of five (5) years. He shall furnish a representative list of five (5) projects involving work as specified, two of which shall be the last jobs completed. The City may make such investigations as it deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the City all such information and data for this purpose as the City may request.

Bidder Name	
-------------	--

#1 Project Name			
Project Owner's Name			
Project Site Address			
Project Owner's Contact Name			
Project Owner's Contact Telephone			
Project Owner's Contact e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			
Name of your project foreman			

BIDDER REFERENCE FORM - BIDDER MUST COMPLETE AND SUBMIT WITH BID

#2 Project Name			
Project Owner's Name			
Project Site Address			
Project Owner's Contact Name			
Project Owner's Contact Telephone			
Project Owner's Contact e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			
Name of your project foreman			

#3 Project Name			
Project Owner's Name			
Project Site Address			
Project Owner's Contact Name			
Project Owner's Contact Telephone			
Project Owner's Contact e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			
Name of your project foreman			

BIDDER REFERENCE FORM - BIDDER MUST COMPLETE AND SUBMIT WITH BID

#4 Project Name			
Project Owner's Name			
Project Site Address			
Project Owner's Contact Name			
Project Owner's Contact Telephone			
Project Owner's Contact e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			
Name of your project foreman			

#5 Project Name			
Project Owner's Name			
Project Site Address			
Project Owner's Contact Name			
Project Owner's Contact Telephone			
Project Owner's Contact e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			
Name of your project foreman			

SUB-CONTRACTOR REFERENCE FORM
BIDDER MUST COMPLETE AND SUBMIT WITH BID

SUBMIT A SEPARATE REFERENCE FORM FOR EACH PROPOSED SUBCONTRACTOR

Subcontractor's Name	
Address	
Telephone	
Subcontractor's Contact Name	
Description of Work to be Subcontracted	

#1 Reference Organization Name			
Address			
Contact Name			
Contact Name Telephone			
Contact Name e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			

SUB-CONTRACTOR REFERENCE FORM
BIDDER MUST COMPLETE AND SUBMIT WITH BID


#2 Reference Organization Name			
Address			
Contact Name			
Contact Name Telephone			
Contact Name e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			

#3 Reference Organization Name			
Address			
Contact Name			
Contact Name Telephone			
Contact Name e-mail			
Contract Value	\$		
Scheduled completion date		Percent complete	
Description of Project Work			

BIDDER'S QUESTIONNAIRE

CITY MAY REQUIRE COMPLETION AND SUBMISSION AFTER RECEIPT OF BIDS

In order to be considered for award, the Bidder must complete this questionnaire in its entirety and submit it to the Purchasing Manager within the time specified. The bidder must answer all questions. If additional space is required, attach continuation sheets and clearly indicate the question being answered. The City reserves the right to verify any information contained within this report and to request additional information or clarification. The City reserves the right to reject the bid of a bidder who has previously failed to perform properly or to complete in a timely manner contracts of a similar nature, or if investigation shows the bidder unable to perform the requirements of the Contract or if the bidder fails to complete and submit the Bidder's Questionnaire in its entirety. If additional sheets are necessary please attach to this form and reference the applicable number.

Bidder's Name			
Bidder's Address			
City		State / Zip	
Telephone		Fax Number	
Organized under the laws of State of:			
BIDDER'S AUTHORIZED REPRESENTATIVE'S SIGNATURE BELOW		DATE	
			
Print Name:			
Title:			

1. ORGANIZATION

- 1.1 How many years has your organization been in business as a Contractor?
- 1.2 How many years has your organization been in business under its present business name?
- 1.3 Under what **other** or former names has your organization operated?
- 1.4 If your organization is a corporation, answer the following:

Date of incorporation:

State of incorporation:

President's name:

Vice-president's name(s):

Secretary's name:

Treasurer's name:

1.5 If your organization is a partnership, answer the following:

Date of organization:

Type of partnership (if applicable):

Name(s) of general partner(s):

1.6 If your organization is individually owned, answer the following:

Date of organization:

Name of owner:

1.7 If the form of your organization is other than those listed above, describe it and name the principals:

2. LICENSING

2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

3. EXPERIENCE

3.1 List the categories of work that your organization normally performs with its own forces.

3.2 Has your organization ever failed to complete any work awarded to it? If yes, provide details on a separate sheet. NO: _____ YES: _____

3.3 Are there any judgment, claims, arbitration, proceedings or suits pending or outstanding against your organization or its officers? If yes, provide details. NO: _____ YES: _____

3.4 Within the past five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? If yes, provide details. NO: _____ YES: _____

3.5 Within the last two years, has any owner of any project threatened to impose or imposed liquidated damages against your organization? If yes, provide details. NO: _____ YES: _____

3.6 Within the last two years, has your organization constructed any projects where the date of substantial completion was more than 30 days after the contract completion date as determined by the contract and any changes orders? If yes, provide details. NO: _____ YES: _____

3.7 Within the last 2 years, has your organization constructed any projects where the change orders exceeded 10% of the contract price? If yes, provide details. NO: _____ YES: _____

3.8 State the total worth of work in progress and under contract:

In Progress	\$
Under Contract	\$

3.9 State the average annual amount of construction work performed during the past five years:

\$

4. FINANCIAL

4.1 State that you will provide a copy of your firm's audited financial statements for the past two (2) years, if requested, by the City of Rockville. YES: _____ NO: _____

4.2 Is your firm currently for sale or involved in any transaction to expend or to become acquired by another business entity? If yes, please explain the impact both in organizational and directional terms. NO: _____ YES: _____

4.3 Is your firm currently in default on any loan agreement or financing agreement with any bank, financial institution, or other entity? If yes, specify date(s), details, circumstances, and prospects for resolution. NO: _____ YES: _____

5. SAFETY

5.1 Has your organization been cited by OSHA (or State equivalent) in the past five years? If so, provide a copy of the citation(s). NO: _____ YES: _____

5.2 Has your organization experienced a work-related fatality in the past 10 years? If so, provide details. NO: _____ YES: _____

5.3 Provide copies of the last 3-years OSHA Form 300A or OSHA 300 Log. Please omit any personally identifiable or confidential information.

5.4 Provide a copy of your current Workers' Compensation Experience Rating from the NCCI.

5.5 Does your organization have a written safety program? NO: _____ YES: _____

5.5.1 Describe the safety training programs offered to all employees on the elements of the safety program.

5.6.2 When was the last year the written safety program was audited or updated?

5.6.3 Provide an overview of the elements of your written safety program (i.e., table of contents). (This may be returned to non-awarded bidders.)

5.7 Does your organization hire subcontractors? NO: _____ YES: _____

5.7.1 Does your organization conduct pre-contractor qualification of these subcontractors specifically focusing on their safety performance? NO: _____ YES: _____

5.7.2 Describe how your organization manages the safety performance of subcontractors on the jobsite.

5.7.3 Does your organization have a written policy addressing subcontractor's responsibility for complying with OSHA regulations on jobsites? (i.e., OSHA's multi-employer citation policy).

NO: _____ YES: _____

CERTIFICATION

The above statements are certified to be true and accurate.

BY: _____

Signature

Date

Print Signature/Title



SAMPLE
Do Not Complete or Return

CONTRACT PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we (1) _____
_____ a (2) _____
hereinafter called "Principal" and (3) _____
of _____, State of _____ hereinafter called the "Surety", are
held and firmly bound unto (4) The Mayor and Council of Rockville, Maryland, hereinafter called
"City", in the penal sum of *(100% of Contract Amount)* _____ (\$ _____) in
lawful money of the United States, for the payment of which sum well and truly to be made, we bind
ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these
presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a
certain contract with the City, dated the _____ day of _____, 2022, a copy of which
is hereto attached and made a part hereof for the construction of IFB 04-23 NORTH
WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the
undertakings, covenants, terms, conditions, and agreements of said contract during the original term
thereof, and any extensions thereof which may be granted by the City, with or without notice to the
Surety, and if he shall satisfy all claims and demands incurred under such contract, and shall fully
indemnify and save harmless the City from all costs and damages which it may suffer by reason of
failure to do so, and shall reimburse and repay the City all outlay and expense which the City may
incur in making good any default, then this obligation shall be void; otherwise to remain in full force
and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees
that no change, extension of time, alteration or addition to the terms of the contract or to the work to
be performed thereunder or the specifications accompanying the same shall in any way affect its
obligation on this bond, and it does hereby waive notice of any such change, extension of time,
alteration or addition to the terms of the contract or to the work or to the specifications.

CONTRACT PERFORMANCE BOND

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in two (2) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2022.

ATTEST:

Corporate Secretary or Asst. Secretary

(Print or Type Name and Title)

Principal
By _____ (Seal)
President or Vice President

(Print or Type Name and Title)

(Address)

ATTEST:

Witness as to Surety

(Print or Type Name and Title)

Surety
By _____ (Seal)
Attorney-in-Fact

(Print or Type Name)

(Address)

(Address)

NOTE: Date of Bond must not be prior to date of Contract.

- (1) Correct name of Contractor
- (2) A Corporation, a Partnership or an Individual
- (3) Name of Surety
- (4) Name of City
- (5) If Contract is Partnership, all partners should execute bond



SAMPLE
Do Not Complete or Return

CONTRACT PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we (1) _____
_____ a (2) _____
hereinafter called "Principal" and (3) _____
of _____, State of _____ hereinafter called the
"Surety", are held and firmly bound unto (4) The Mayor and Council, of Rockville, Maryland, hereinafter
called "City", in the penal sum of (*100% of Contract Amount*) _____ (\$ _____) in lawful money
of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs,
executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain
contract with the City, dated the _____ day of _____, 2022, a copy of which is hereto
attached and made a part hereof for the construction of: IFB 04-23 NORTH WASHINGTON STREET
AND EAST MIDDLE LANE ROAD DIET PROJECT.

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms,
subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work
provided for in such contract, and any authorized extension or modification thereof, including all amounts
due for materials, lubricants, oil, gasoline, coal, repairs on machinery, equipment and tools, consumed or
used in connection with the construction of such work, and all insurance premiums on said work, and for
all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void;
otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no
change, extension of time, alteration or addition to the terms of the contact or to the work to be performed
thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond,
and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of
the contact or to the work or to the specifications.

CONTRACT PAYMENT BOND

PAGE 2

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in two (2) counterparts, each one of which shall be deemed an original, this the ____ day of _____ 2022.

ATTEST:

Principal

Corporate Secretary or Asst. Secretary

By _____ (Seal)
President or Vice President

(Print or Type Name and Title)

(Print or Type Name and Title)

(Address)

ATTEST:

Surety

Witness as to Surety

By _____ (Seal)
Attorney-in-Fact

(Print or Type Name and Title)

(Print or Type Name)

(Address)

(Address)

NOTE: Date of Bond must not be prior to date of Contract.

- (1) Correct name of Contractor
- (2) A Corporation, a Partnership or an Individual
- (3) Name of Surety
- (4) Name of City
- (5) If Contract is Partnership, all partners should execute bond.



SAMPLE ONLY
Do Not Complete Or Return

STANDARD FORM OF AGREEMENT BETWEEN THE CITY OF ROCKVILLE
AND CONTRACTOR

This Agreement, made this _____ day of _____, 2022, by and between

THE MAYOR AND COUNCIL OF ROCKVILLE, MARYLAND, hereinafter referred to as the "COUNCIL" and

(A) _____ hereinafter referred to as the "CONTRACTOR".

WITNESSETH, that the CONTRACTOR and the COUNCIL for the consideration hereinafter named, agree as follows:

ARTICLE 1. The COUNCIL agrees to pay the CONTRACTOR for the performance of the contract the sum

of _____ dollars(\$ _____)

ARTICLE 2. The CONTRACTOR agrees to furnish separate 100% performance and payment bonds in such form as shall be acceptable to the COUNCIL.

ARTICLE 3. The CONTRACTOR agrees to furnish all of the machines, equipment, material, and/or labor described in the specifications entitled Invitation For Bid # 04-23 - North Washington Street And East Middle Lane Road Diet Project.

ARTICLE 4. The COUNCIL may make any alterations, deviations, additions or omissions from the aforesaid specifications, which it may deem proper, without affecting or making void this contract; and in such cases the COUNCIL shall value or appraise such alterations and recommend the amount added to or deducted from the amount herein agreed to be paid to the CONTRACTOR for the excess or deficiency occasioned by such alterations. In case any alterations or deviations are made, such further time may be allowed for completion of the work, caused by such alterations or deviations as the purchasing agent or an appropriate department head of the City of Rockville shall decide to be reasonable.

ARTICLE 5. If the CONTRACTOR shall be adjudged bankrupt or if he shall make a general assignment for the benefit of his creditors, or if a Receiver shall be appointed on account of his insolvency, or if he shall persistently or repeatedly refuse or shall fail, except in case where extension of time is provided, to supply enough properly skilled workmen or proper materials or if he should fail to make prompt payment to subcontractors for materials or labor, or disregard law, ordinances or the instructions of the COUNCIL or otherwise be guilty of substantial violation of any provision of this Agreement, then the COUNCIL may, without prejudice to any other right or remedy, and after giving the CONTRACTOR reasonable notice, terminate the employment of the CONTRACTOR and take possession of the machines, equipment and material already delivered or in process of delivery.

ARTICLE 6. The CONTRACTOR and the COUNCIL agree that this Agreement, the Invitation for Bid or the request for quotation and all of the specifications therewith and all modifications thereof constitute the Contract, and that they are fully a part of the Contract as if hereto attached or herein repeated and that for themselves and each of them, their successors, personal representatives and assigns hereby agree to the performance of the covenants herein contained.

ARTICLE 7. The CONTRACTOR, with the execution of this Contract, makes assurance that all materials necessary for the completion of this project are now available to him or will be available so as not to cause delay in the time specified for completion, nor will there be any further expense to the COUNCIL by reason of any special expense imposed by his supplier or fabricator after this Contract is executed.

ARTICLE 8. The CONTRACTOR at all times shall observe and comply with all Federal and State Laws and local laws, ordinances and regulations in any manner affecting the conduct of the work; and all such other orders or decrees as exist at present and those which may be enacted later, of bodies or tribunals having any jurisdiction or authority over the work, and shall indemnify and save harmless the Mayor and Council and all of its officers, agents, and servants against any claim or liability arising from or based on the violation of any such laws, by-laws, ordinances, regulations, orders or decrees whether by himself or his employees.

ARTICLE 9. The CONTRACTOR shall indemnify and save harmless the Mayor and Council of Rockville, Maryland, and all its officers, agents and servants from all suits, actions and damages and costs, of every name and description to which the COUNCIL may be subjected or put by reason of injury to persons or property as a result of the work, whether caused by negligence or carelessness on the part of the CONTRACTOR, his servants or agents or to other cause.

ARTICLE 10. The CONTRACTOR will not discriminate against any employee or applicant for employment because of age (in accordance with applicable law), sex, race, ancestry, color, religion, sexual orientation, gender identity or expression, physical or mental handicap, marital status, or political expression. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated fairly and equally during employment with regard to the above. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment, layoff or termination, rates of pay or other form 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 this nondiscrimination clause.

If the Contractor fails to comply with nondiscrimination clauses of this contract or fails to include such contract provisions in all subcontracts, this contract may be declared void AB INITIO, cancelled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further contracts with the City of Rockville. Any employee, applicant for employment, or prospective employee with information concerning any breach of these requirements may communicate such information to the City Manager who shall commence a prompt investigation of the alleged violation. Pursuant to such investigation, the Contractor will permit access to the Contractor's books, records, and accounts. If the City Manager concludes that the Contractor has failed to comply with nondiscrimination clauses, the remedies set out above may be invoked.

IN WITNESS WHEREOF, the said

(A) _____ and the COUNCIL have
caused these presents to be signed and sealed.

For Corporations.

Corporation: _____

*By: _____ (Seal)
(Either president or vice-president. If other person is authorized, authorization in form of corporate resolution must be attached.)

Witness: _____
(Should be secretary or Asst. secretary.)

***Corporate seal must be impressed through name of person signing for corporation.**

For individuals or partnerships.

Name: _____ (Seal)
(Either owner or partner)

Witness: _____

MAYOR AND COUNCIL OF ROCKVILLE, MARYLAND

By: _____ Date: _____
Robert DiSpirito, City Manager

ATTEST
By: _____ Date: _____
Sara Taylor-Ferrell, City Clerk/Director of Council Operations

Approved as to form and legality:

_____ Date: _____
City Attorney

NOTE (A): The CONTRACTOR shall enter the exact name of the business. An individual trading as a company shall enter: John Doe dba Doe Masonry Company.

DocuSign Envelope ID: DBF497A2-373E-41F7-9708-934719959597

Page 1 of 3

SEDIMENT CONTROL PERMIT (SCP)

PERMIT#: SCP2022-00014

DATE OF ISSUE: 04/20/2022

PWK PERMIT: PWK2022-00045

DATE OF EXPIRATION: 4/20/2024

TYPE OF SEDIMENT CONTROL PERMIT: SC

APPLICANT: CITY OF ROCKVILLE - DPW
C/O DANIEL SEO
ADDRESS: 111 MARYLAND AVENUE
ROCKVILLE MD 20850

DAYTIME PHONE:

SITE ADDRESS: N WASHINGTON ST

SUBDIV: RIGHT-OF-WAY

LOT: 0000

BLK: 000

TYPE OF WORK: Washington / Middle Road Diet

CONDITIONS:

This permit authorizes the above described construction subject to all applicable laws, regulations, terms and conditions herein and €

Approved: Craig Simoneau 04/20/2022
Director of Public Works

rev: fscp2pmt 04/20/2022

DJW 04/20/2022
DJW Staff Contact

DocuSign Envelope ID: DBF497A2-373E-41F7-9708-934719959597

SEDIMENT CONTROL PERMIT (SCP)

PERMIT#: SCP2022-00014 DATE OF ISSUE: 04/20/2022
DATE OF EXPIRATION: 4/20/2024

PWK PERMIT: PWK2022-00045

TYPE OF SEDIMENT CONTROL PERMIT: SC

APPLICANT: CITY OF ROCKVILLE - DPW
C/O DANIEL SEO
ADDRESS: 111 MARYLAND AVENUE
ROCKVILLE MD 20850

DAYTIME PHONE:

SITE ADDRESS: N WASHINGTON ST

SUBDIV: RIGHT-OF-WAY LOT: 0000 BLK: 000

1. This permit is for sediment control only. All work must comply with the approved plans dated 4/19/2022 and any subsequent revisions. Plan revisions, including field changes, must be reviewed and approved by the Rockville Department of Public Works.
2. The permittee must schedule a pre-construction meeting with a minimum notice of 48 hours prior to meeting. The following representatives must be invited:

- City Project Inspector, Ralph McElhinney at 240-314-8553 (rmcelhinney@rockvillemd.gov)
- City Sediment and Erosion Control Inspector, Arthur Simpson at 240-314-8879 (asimpson@rockvillemd.gov)
- City Forester, Paula Perez at 240-314-8705 (PPerez@rockvillemd.gov)
- Any Agency Issuing a Permit
- Utility Companies
- General Contractor
- Site Engineer

The following items must be discussed, as needed, during the pre-construction meeting:

- Elements that require construction inspection, as determined by the City Inspector, must be completed during normal working hours, Monday through Friday, 7:00 am to 3:00 pm.
 - Existing SWM facilities downstream of project
3. Permittee must contact MISS UTILITY at 811, 1 800 257-7777, or www.missutility.net for marking of existing utilities. MISS UTILITY requires two full business days notice. Existing utilities must be marked prior to the pre-construction meeting.
 4. Provide any additional sediment control measures as directed by the City Inspector.
 5. Comply with all conditions from City Forester, FSD and FCP plans.
 6. At the preconstruction meeting, specific details of above and below grade work near trees will be discussed. Permittee is solely responsible for obtaining the services of an ISA Certified Arborist or ASCA Consulting Arborist to determine the impacts of the proposed construction on privately owned trees and prescribe appropriate mitigation measures. Permittee must comply with all applicable laws or regulations when performing tree care operations.
 7. If required, permittee must supply the Chief, Construction Management, with lab results (from a Maryland State Certified Lab) to confirm that all construction work and materials comply with project specifications. This includes acceptable certification for compaction and backfill.
 8. A copy of the permit MUST be on the job-site.
 9. Any damage to public improvements must be repaired or replaced in accordance with City standards at the direction of the City Project Inspector.
 10. Contractor is to comply with the Montgomery County Noise Ordinance. Apply for a waiver if needed.
 11. Construction shall only disturb that area which can be completed and stabilized by the end of each working day. For areas to be paved, stabilization shall be the application of stone base. For areas to be vegetatively stabilized: permanent seed and soil stabilization matting or sod for all steep slopes, channels and swales; and permanent seed and mulch for all other areas. Any areas which cannot be stabilized by the end of each working day must have silt fence installed on the downslope side. In areas where existing trees are to be protected, filter logs shall be used instead of silt fence.
 12. Comply with all conditions of PWK2022-00045 for work in public right-of-way including traffic control and abandonment of existing utilities.
 13. Applicant shall make a monetary contribution as a SWM Alternative to providing on-site management for the WQv, CPv, and QP10.

This permit authorizes the above described construction subject to all applicable laws, regulations, terms and conditions herein and e

Approved: Craig Simoncan 04/20/2022
Director of Public Works

rev: fscp2pmt 04/20/2022

DJW 04/20/2022
DJW Staff Contact

DocuSign Envelope ID: DBF497A2-373E-41F7-9708-934719959597

SEDIMENT CONTROL PERMIT (SCP)

PERMIT#: SCP2022-00014 DATE OF ISSUE: 04/20/2022
DATE OF EXPIRATION: 4/20/2024

PWK PERMIT: PWK2022-00045

TYPE OF SEDIMENT CONTROL PERMIT: SC

APPLICANT: CITY OF ROCKVILLE - DPW
C/O DANIEL SEO
ADDRESS: 111 MARYLAND AVENUE
ROCKVILLE MD 20850

DAYTIME PHONE:

SITE ADDRESS: N WASHINGTON ST

SUBDIV: RIGHT-OF-WAY LOT: 0000 BLK: 000

14. All work covered by this permit must be completed by the expiration date which is two (2) years from date of permit issuance. Requests for permit extensions must be submitted in writing to the Department of Public Works 30 days prior to the expiration date, justifying the extension in accordance with Chapter 19, Section 29.

WATER SHED: ROC TOTAL AREA OF PROPERTY: 13,000
FLOODPLAIN VARIANCE REQ'D: N TOTAL AREA TO BE DISTURBED: 13,000
USE PERMIT NUMBER: TOTAL IMPERVIOUSNESS PROPOSED: 11,000

(INCLUDE 30' CONTIGUOUS RIGHTS OF WAY)

ESTIMATED COST
OF WORK:

PERMIT FEES:

AMOUNT OF SECURITY:

S/C:	PERMIT FEES:	S/C:
	TOTAL FEES	BOND: L OF C: CASH:

ENGINEER: WALLACE MONTGOMERY
ADDRESS: 10150 YORK ROAD
SUITE 200
HUNT VALLEY MD 21030
DAYTIME PHONE: 410-494-9093

OWNER/DEVELOPER: CITY OF ROCKVILLE
ADDRESS: 111 MARYLAND AVENUE
ROCKVILLE MD 20850
DAYTIME PHONE:

This permit authorizes the above described construction subject to all applicable laws, regulations, terms and conditions herein and e

Approved: Craig Simoncau 04/20/2022
Director of Public Works

rev: fscp2pmt 04/20/2022

DJW 04/20/2022
DJW Staff Contact

FORESTRY PERMIT

PERMIT #: FTP2022-00021 **DATE OF ISSUE:** 04/08/22
EXPIRATION DATE: 4/8/2024
PERMITEE: CITY OF ROCKVILLE - DPW
ADDRESS: 111 MARYLAND AVENUE
 ROCKVILLE MD 20850

PHONE: Primary:

Project Name: E MIDDLE LANE ROAD DIET **SITE ADDRESS:** E MIDDLE LA
SUBDIVISION: RIGHT-OF-WAY **LOT:** 0000 **BLK:** 000

PROJECT DESCRIPTION:

NRI/FSD and FTP for road diet project along E Middle Lane from Washington to MD 355, and N Washington Street from W Jefferson Street to MD 355 for signing and striping within the road, curb extension on E Middle and median construction on N Washington Street.

THIS PROJECT REQUIRES THE FOLLOWING:

- | | |
|-----------------------------------|-------------------------------------|
| PRECONSTRUCTION MEETING | SIGNIFICANT TREE PLANTING |
| SIGNIFICANT TREE REMOVAL | ON-SITE PLANTING |
| ROOT PRUNING | OFF SITE PLANTING |
| TREE PRUNING | POST PLANTING INSPECTION |
| AERATION SYSTEM | POST CONSTRUCTION MEETING |
| TREE PROTECTION FENCE | TWO YEAR WARRANTY |
| TREE PROTECTION SIGNAGE | FIVE YEAR WARRANTY |
| PERMANENT PROTECTION FENCE | FOREST CONSERVATION EASEMENT |
| PREPLANTING MEETING | TREE COVENANTS |
| | OTHER |

CONDITIONS:

- The project must be built in accordance with the approved Landscape Plans dated 4/8/2022.
- You must notify MISS UTILITY at 1-800-257-7777, 811, or at www.missutility.net at least 48 hours prior to construction.
- Schedule a pre-construction meeting with the Forestry Inspector, Natasha Shangold (240 314-8233 or nshangold@rockvillemd.gov) and the Senior Sediment and Erosion Inspector, Arthur Simpson (240 314-8879 or ddrudul@rockvillemd.gov). The ISA certified arborist/MD LTE must be present. You must provide at least 48 hours notice before meeting and the limits of disturbance must be staked prior to the meeting. No clearing, grading, or tree removals may be done prior to this meeting. No installation of tree protection fence or sediment control devices may be installed prior to this meeting.
- The applicant is required to schedule a pre planting meeting with the Forestry Inspector prior to installing any plant material. The tree locations must be staked in the field prior to this meeting.
- All landscape material must be installed per the approved Landscape and Forest Conservation Plan. No substitutions are permitted without prior written permission of the City Forester.
- Apply approved wildlife protection to newly planted trees as directed by the Forestry Inspector

ENGINEER: Primary:
ADDRESS: (W) (H) (F)

PHONE:

THIS PERMIT AUTHORIZES THE ABOVE DESCRIBED CONSTRUCTION SUBJECT TO ALL APPLICABLE LAWS, REGULATIONS, TERMS, AND CONDITIONS HEREIN AND ELSEWHERE

APPROVED:  Shaun Patrick Ryan, Principal Planner - Landscape Architect, 04/08/22

REV: FFTPPRM 04/08/22 CRD 04/08/22

FORESTRY PERMIT

PERMIT #: FTP2022-00021 **DATE OF ISSUE:** 04/08/22
EXPIRATION DATE: 4/8/2024
PERMITEE: CITY OF ROCKVILLE - DPW
ADDRESS: 111 MARYLAND AVENUE
 ROCKVILLE MD 20850

PHONE: Primary:
Project Name: E MIDDLE LANE ROAD DIET **SITE ADDRESS:** E MIDDLE LA
SUBDIVISION: RIGHT-OF-WAY **LOT:** 0000 **BLK:** 000

PROJECT DESCRIPTION:

NRI/FSD and FTP for road diet project along E Middle Lane from Washington to MD 355, and N Washington Street from W Jefferson Street to MD 355 for signing and striping within the road, curb extension on E Middle and median construction on N Washington Street.

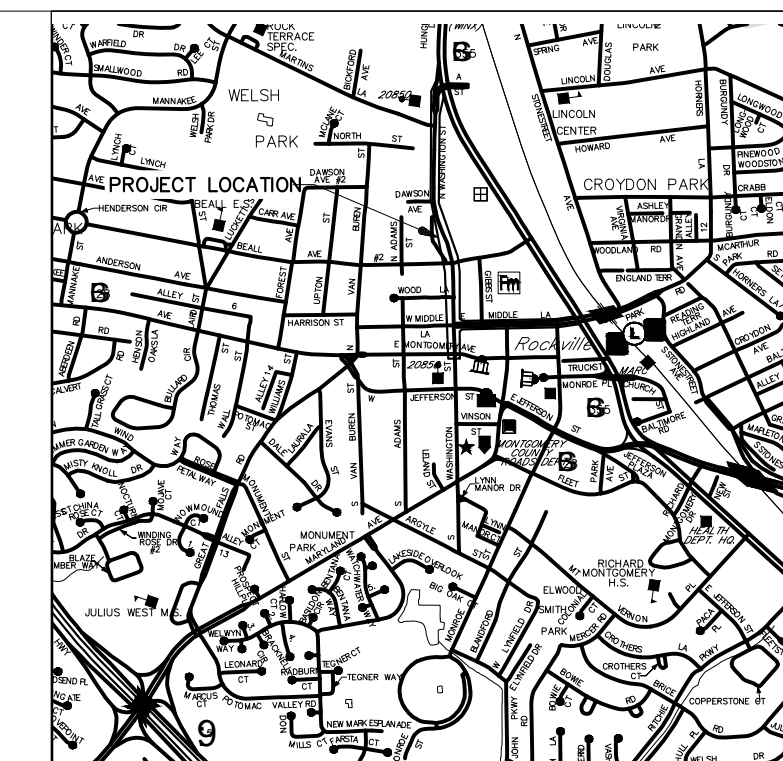
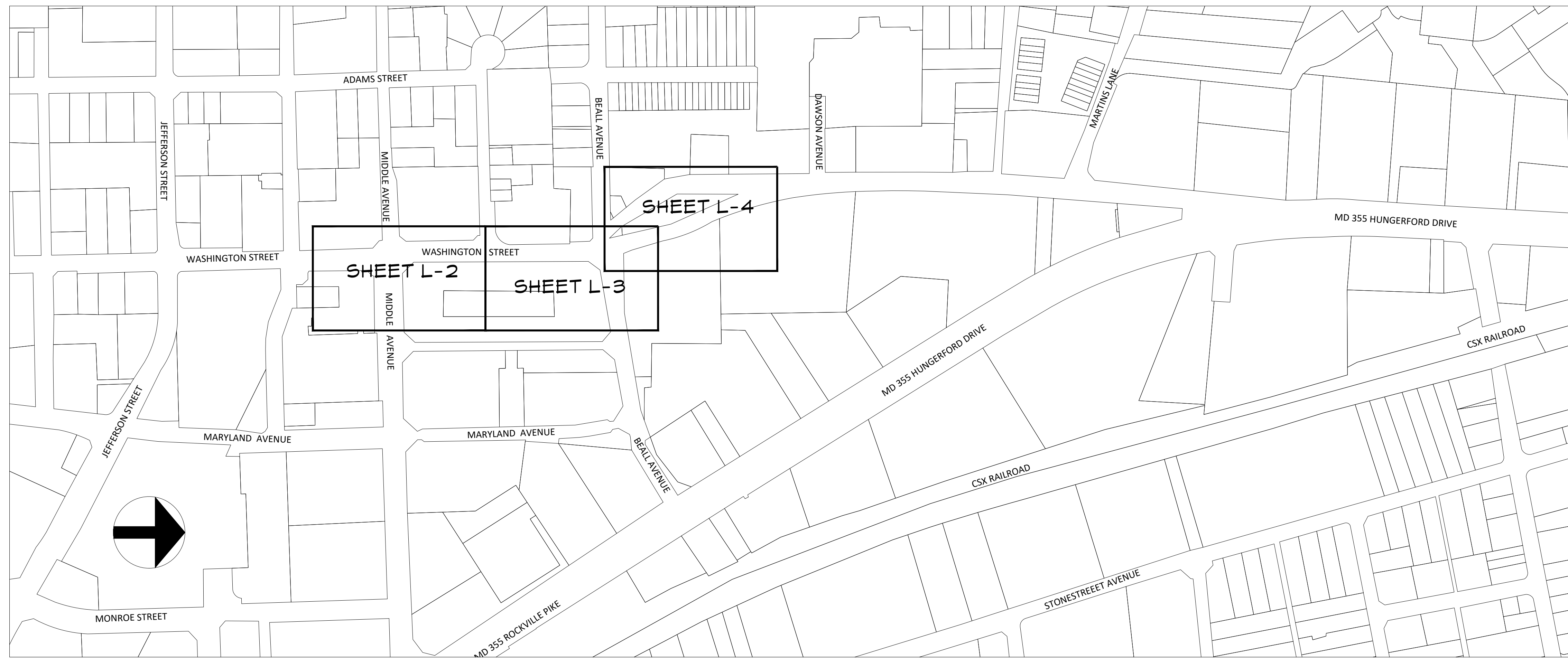
ESTIMATED COST OF WORK:	PERMIT FEES:	AMOUNT OF SECURITY:
PLANTING: OTHER:	Permit Fee \$0.00 Permit Fee \$0.00 TOTAL FEES: \$0.00	PLANTING: OTHER: BOND: L OF C: CASH: OTHER:

THIS PERMIT AUTHORIZES THE ABOVE DESCRIBED CONSTRUCTION SUBJECT TO ALL APPLICABLE LAWS, REGULATIONS, TERMS, AND CONDITIONS HEREIN AND ELSEWHERE

APPROVED: 04/08/22

 Shaun Patrick Ryan
 Principal Planner - Landscape Architect

REV: FFTPRM 04/08/22 CRD 04/08/22



VICINITY MAP
SCALE 1"=2,000'

GENERAL NOTES

1. THE TOPOGRAPHY SHOWN ON THIS PLAN IS FROM ONLINE GIS
2. THE SOURCE OF SOILS INFORMATION ON THIS PLAN IS FROM THE USDA NRCS WEB SOIL SURVEY (WSS)
3. NO REGULATED 100-YEAR FLOODPLAIN IS LOCATED ON-SITE PER FEMA MAP 24031C0334D, DATED 9/29/2006
4. THE SITE IS LOCATED IN THE UPPER WATTS BRANCH (USE I-P) - MIDDLE POTOMAC - #02140202 WATERSHED
5. NO STREAMS/WETLANDS PRESENT ON SUBJECT SITE, PER ON-SITE INVESTIGATION BY HUMAN & ROHDE, INC. ON DATED FEBRUARY 17, 2020
6. NO RARE, THREATENED OR ENDANGERED SPECIES OBSERVED ON THE SUBJECT PROPERTY (RESPONSE RECEIVED 5/21/20, NO RTE RECORDS LISTED FOR SITE)
7. A PORTION OF THE PROJECT SITE IS RECORDED AS BEING PART OF HISTORIC RESOURCE DESCRIBED PER THE CITY'S HISTORIC PRESERVATION DIVISION
8. METHOD USED TO MEASURE TREE DIAMETER: TREES MEASURED USING A TREE DIAMETER TAPE AT 4.5' ABOVE UPHILL GROUNDLINE
9. ABSENCE OR PRESENCE OF STATE/COUNTY CHAMPION TREES: NONE FOUND
10. ABSENCE OR PRESENCE OF SPECIMEN TREES (30" DBH OR GREATER): 2 FOUND ON SUBJECT PROJECT SITE
11. ABSENCE OR PRESENCE OF FOREST COVER: NO AREAS OF FOREST ARE FOUND ON SUBJECT PROJECT SITE
12. FIELD WORK CONDUCTED BY: DEVIN LEARY (DNR QUALIFIED PROFESSIONAL / ASLA PLA MA-5827A) & ERIC VANGRIN (DNR QUALIFIED PROFESSIONAL / ISA CERTIFIED ARBORIST MA-5827A)
13. DATE OF FIELD WORK CONDUCTED: OCTOBER 28, 2021

PLANTING SCHEDULE

TREES

KEY	QTY.	BOTANICAL NAME COMMON NAME	SIZE	COND.	REMARKS
⊕	4	QUERCUS ROBUR 'FASTIGIATA' UPRIGHT ENGLISH OAK	2" - 2 1/2" CAL.	B&B	FULL SPECIMEN HEADED TO 6' HT

PERENNIALS

CA	77	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' FEATHER REED GRASS	#1	CONT.	24" O.C.
NF	45	NEPETA x FAASSENII 'WALKER'S LOW' WALKER'S LOW CATMINT	#1	CONT.	24" O.C.

SEQUENCE OF CONSTRUCTION

1. PRIOR TO CLEARING OF TREES, GRADING, OR INSTALLING SEDIMENT CONTROL MEASURES, A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON SITE WITH THE CITY OF ROCKVILLE CONSTRUCTION MANAGER (240-314-8544); THE CITY OF ROCKVILLE SEDIMENT CONTROL INSPECTOR (240-314-8879); AND THE CITY FORESTRY INSPECTOR (240-314-8713). AT LEAST 48 HOURS NOTICE IS REQUIRED.
2. THE PERMITTEE MUST CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY. ALL UTILITIES MUST BE MARKED PRIOR TO HOLDING THE PRE-CONSTRUCTION MEETING.
3. THE LIMITS OF DISTURBANCE AND TREE SAVE MEASURES, IF APPLICABLE MUST BE FIELD MARKED PRIOR TO THE PRE-CONSTRUCTION MEETING, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
4. THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE CITY OF ROCKVILLE SEDIMENT CONTROL INSPECTOR, CERTIFYING THAT THE LIMITS OF DISTURBANCE ARE CORRECTLY MARKED AND INSTALLED PRIOR TO COMMENCING ANY CLEARING.
5. IF STABILIZED CONSTRUCTION ENTRANCE MUST BE REMOVED OR IS NOT PRESENT, THE CONTRACTOR SHALL DESIGNATE PIECES OF CONSTRUCTION EQUIPMENT THAT SHALL BE ALLOWED WITHIN THE LOD, THIS EQUIPMENT SHALL BE KEPT WITHIN THE LOD UNTIL THE PROPOSED WORK IS COMPLETE AND SHALL HAVE TREADS/TIRES CLEANED PRIOR TO LEAVING THE LOD. HAULING AND DELIVERY OF THE MATERIAL SHALL BE PERFORMED FROM THE ROADWAY. ROADWAY SHALL BE SWEEPED CLEAN AS NEEDED.
6. PRIOR TO GRADING OR CONSTRUCTION:
 - A. CLEAR AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES, PERFORM ALL ROOT PRUNING AS DIRECTED BY THE FORESTRY INSPECTOR PRIOR TO INSTALLATION OF PERIMETER SEDIMENT CONTROLS, AND INSTALL SEDIMENT CONTROL PRACTICES.
 - B. THE SEDIMENT CONTROL INSPECTOR MAY REQUIRE PLACEMENT OF ADDITIONAL SUPER SILT FENCE OR OTHER SEDIMENT CONTROL MEASURES ON THE SITE AS DEEMED NECESSARY
 - C. ONCE SEDIMENT CONTROL PRACTICES ARE INSTALLED, THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR BEFORE PROCEEDING WITH ADDITIONAL CLEARING, GRUBBING, OR GRADING.
7. ONCE WRITTEN APPROVAL HAS BEEN OBTAINED FOR WORK SITE, BEGIN CONSTRUCTION AS DETAILED ON THE PLANS. STABILIZED CONSTRUCTION ENTRANCE MAY BE RELOCATED AS NECESSARY TO PERFORM ASPHALT PAVING. ALL DISTURBED AREAS NOT DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE SHALL BE STABILIZED AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL NOT DISTURB AN AREA GREATER THAN THAT WHICH CAN BE STABILIZED AT THE END OF EACH DAY.
8. COMPLETE GRADING & CONSTRUCTION, AND PERMANENTLY STABILIZE ALL AREAS WITHIN THE LOD.
9. OBTAIN WRITTEN APPROVAL FROM THE SEDIMENT CONTROLS AND FORESTRY INSPECTORS AND REMOVE ALL SEDIMENT CONTROL PRACTICES. STABILIZE ANY AREA DISTURBED BY REMOVAL OF SEDIMENT CONTROL DEVICES AND/OR TREE PROTECTION FENCE.

TREE REPLACEMENT NOTE

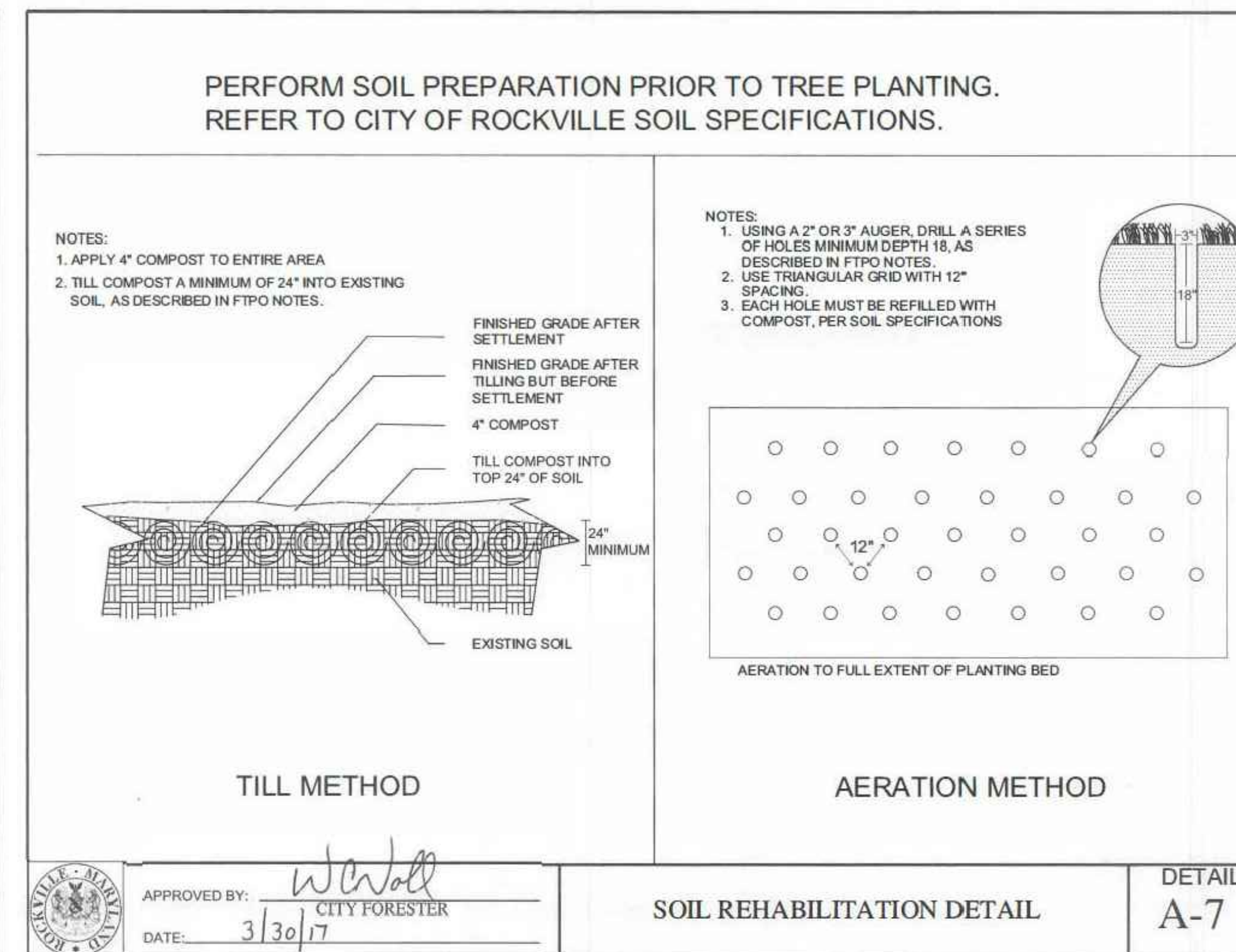
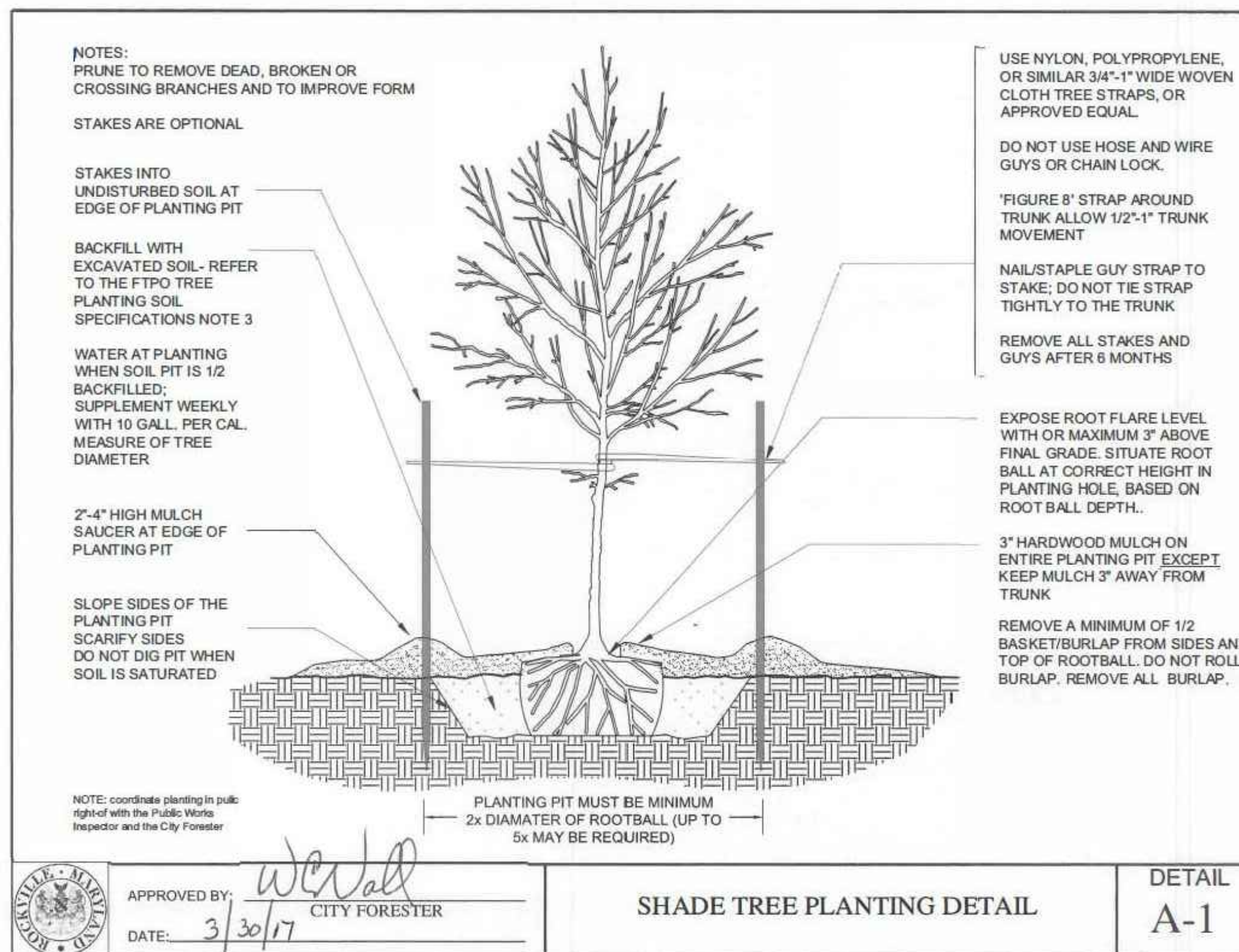
A TOTAL OF (4) TREES TO BE REMOVED. NO SIGNIFICANT TREES WILL BE IMPACTED.

HAND DIGGING NOTE

AS REQUIRED BY THE ENGINEER, HAND DIG WITHIN CRITICAL ROOT ZONES OF TREES TO BE PROTECTED, UNDER THE SUPERVISION OF THE CITY ARBORIST.

FINAL PLANTING LOCATION NOTE

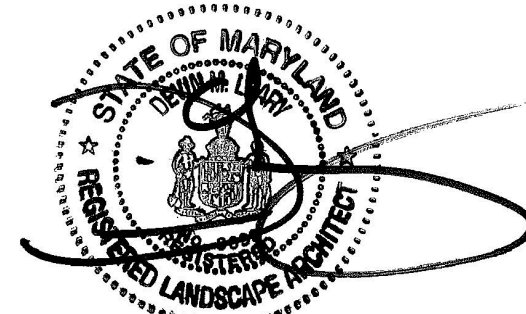
FINAL TREE LOCATIONS WILL BE DETERMINED AFTER THE SIDEWALK PROJECT HAS BEEN COMPLETED, AND ITS LOCATION IS SUBJECT TO CHANGE.



WALLACE MONTGOMERY
CONSULTING ENGINEERS, ARCHITECTS, PLANNERS
1910 York Road, Suite 200
Hunt Valley, Maryland 21084
410.480.8000 Tel / 410.667.0000 Fax
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" AT WWW.MISSUTILITY.NET OR 1-800-257-7777 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION

PLAN PREPARED BY
HUMAN & ROHDE, INC.
Landscape Architects
512 Virginia Ave.
Towson, Maryland 21286
(410) 825-3885 Phone
(410) 825-3887 Fax



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed landscape architect under the laws of the State of Maryland.
DEVIN LEARY - HUMAN & ROHDE, INC.
License No. 3693 Expiration Date: 09-16-2022
410.825.3885 DEVIN@HUMANANDROHDE.COM

CASE NUMBER: FTP2022-00021

APPROVED BY:
CITY OF ROCKVILLE
PLANNING AND
DEVELOPMENT SERVICES

4/8/2022 DATE SIGNED
4/8/2022 DATE APPROVED
AS DIRECTED

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL					

DESIGNED _____
DRAFTED _____
CHECKED _____

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGN PLAN APPROVAL

DIRECTOR OF PUBLIC WORKS _____ PWK# _____ SCP# _____
SMP# _____ CIP# _____

PLAN APPROVAL DATE _____

AS BUILT PLAN APPROVAL

CHIEF, CONSTRUCTION MANAGEMENT _____

PLAN APPROVAL DATE _____

PLANTING PLAN

WASHINGTON STREET AND EAST MIDDLE LANE
ROAD DIET PROJECT

City of Rockville, Maryland

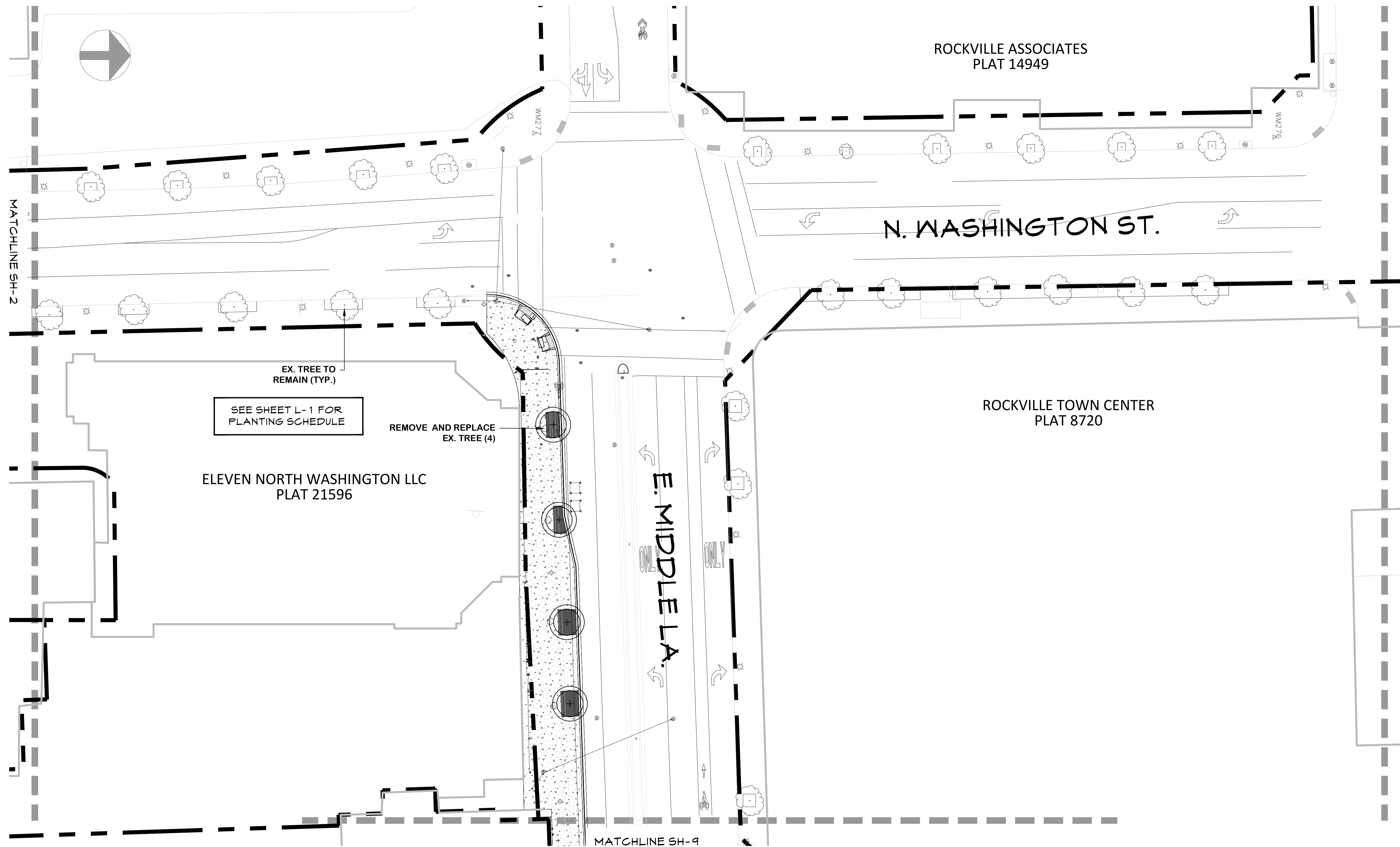
DATE SUBMITTED:
MARCH 30, 2022

SCALE
1" = 200'

SHEET
NO. L-1
OF 4

FILE #

IFB XX-XX



LEGEND

- RIGHT OF WAY LINE
- EXISTING STREET SIGN
- EXISTING STREET LIGHTING
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING LANDSCAPE PLANTING
- EXISTING STREET TREE
- CRITICAL ROOT ZONE (SHOWN ON TREES GREATER THAN 6" DBH)

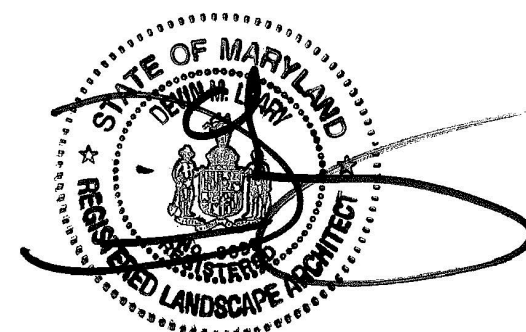
CASE NUMBER: FTP2022-00021
 APPROVED BY
 CITY OF ROCKVILLE
 PLANNING AND
 DEVELOPMENT SERVICES
 4/8/2022
 DATE SIGNED
 4/8/2022
 DATE APPROVED AS DIRECTED



WALLACE MONTGOMERY
 Consulting - Planning - Surveying - Construction - Maintenance
 19100 York Road, Suite 200
 Hunt Valley, Maryland 21086
 410.491.8000 Tel / 410.967.0000 Fax
 www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION
 CONTACT
 "MISS UTILITY"
 AT
 WWW.MISSUTILITY.NET
 OR
 1-800-257-7777
 OR 811
 AT LEAST 48 HOURS
 PRIOR TO EXCAVATION

PLAN PREPARED BY
HUMAN & ROHDE, INC.
 Landscape Architects
 512 Virginia Ave.
 Towson, Maryland 21286
 (410) 825-3885 Phone
 (410) 825-3887 Fax



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed landscape architect under the laws of the state of Maryland.
 License No.: 3693 DEVIN LEARY - HUMAN & ROHDE, INC.
 Expiration Date: 09-16-2022 410.825.3885 DEVIN@HUMANANDROHDE.COM



DESIGNED _____
 DRAFTED _____
 CHECKED _____

DEPARTMENT OF PUBLIC WORKS
 CITY OF
ROCKVILLE
 111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGN PLAN APPROVAL

DIRECTOR OF PUBLIC WORKS PWK# _____ SCP# _____
 _____ SMP# _____ CIP# _____

PLAN APPROVAL DATE _____

AS BUILT PLAN APPROVAL

CHIEF, CONSTRUCTION MANAGEMENT

PLAN APPROVAL DATE _____

PLANTING PLAN

WASHINGTON STREET AND EAST MIDDLE LANE
 ROAD DIET PROJECT
 City of Rockville, Maryland

DATE SUBMITTED:
 MARCH 30, 2022

SCALE
 1" = 20'

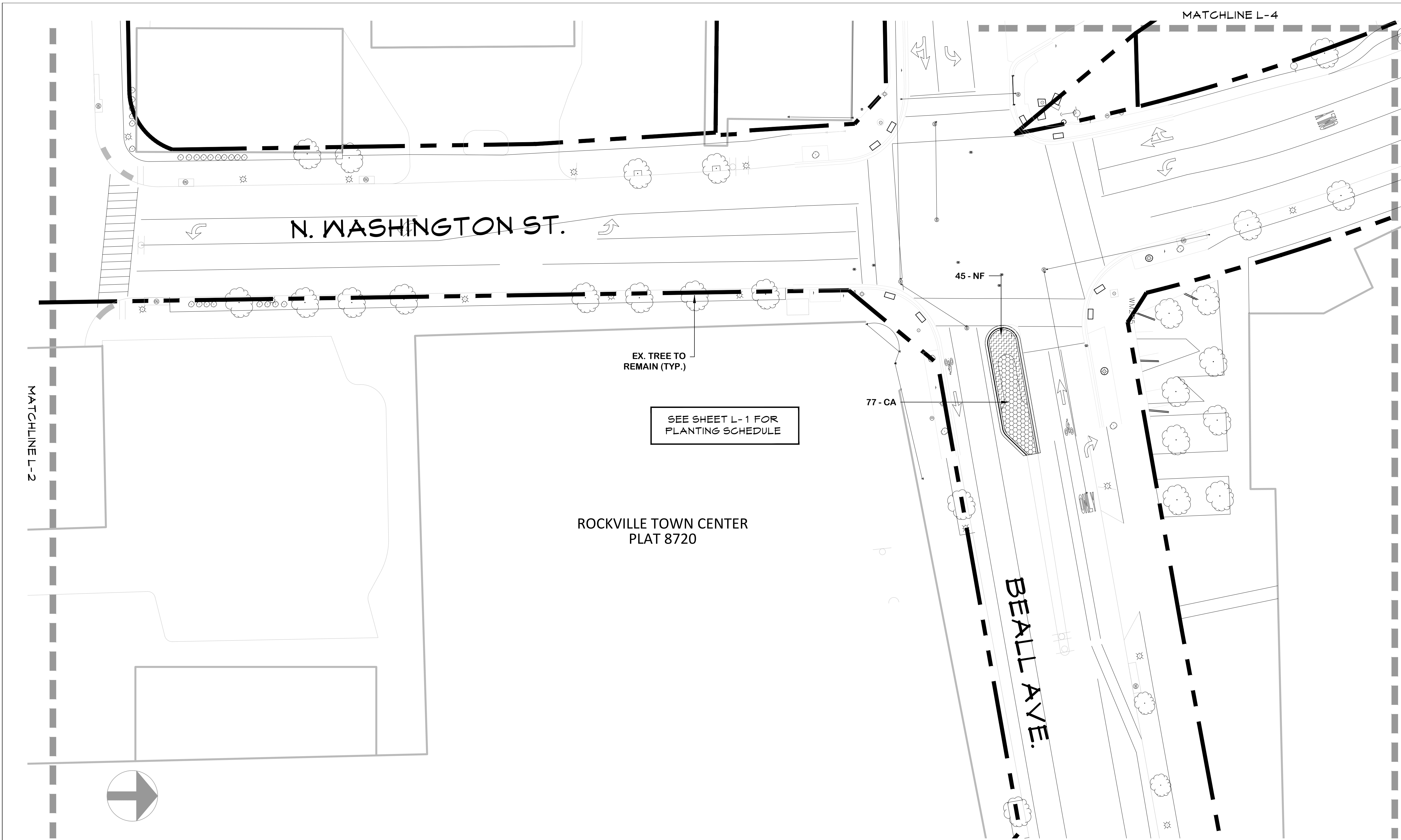
SHEET
 NO. L-2
 OF 4

FILE #




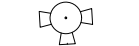
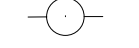


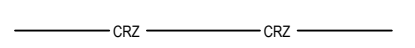
APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

IFB XX-XX



LEGEND

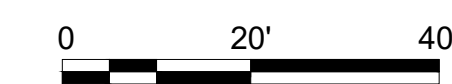
- RIGHT OF WAY LINE 
- EXISTING STREET SIGN 
- EXISTING STREET LIGHTING 
- EXISTING FIRE HYDRANT 
- EXISTING UTILITY POLE 
- EXISTING LANDSCAPE PLANTING 
- EXISTING STREET TREE 
- CRITICAL ROOT ZONE (SHOWN ON TREES GREATER THAN 6" DBH) 

CASE NUMBER: FTP2022-00021

APPROVED BY
CITY OF ROCKVILLE
PLANNING AND
DEVELOPMENT SERVICES

4/8/2022
DATE SIGNED
4/8/2022
DATE APPROVED

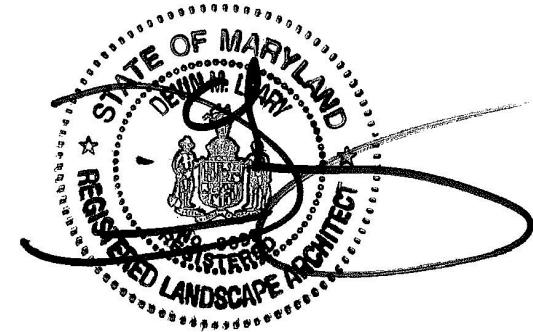
AS DIRECTED

WALLACE MONTGOMERY
Engineering, Planning, Science, Construction, Movement

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
AT
WWW.MISSUTILITY.NET
OR
1-800-257-7777
OR 811
AT LEAST 48 HOURS
PRIOR TO EXCAVATION

PLAN PREPARED BY
HUMAN & ROHDE, INC.
Landscape Architects
512 Virginia Ave.
Towson, Maryland 21286
(410) 825-3885 Phone
(410) 825-3887 Fax



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed landscape architect under the laws of the state of Maryland.

License No.: 3693 DEVIN LEARY - HUMAN & ROHDE, INC.
Expiration Date: 09-16-2022 410.825.3885 DEVIN@HUMANANDROHDE.COM



DESIGNED _____
DRAFTED _____
CHECKED _____

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGN PLAN APPROVAL

DIRECTOR OF PUBLIC WORKS PWK# _____ SCP# _____
SMP# _____ CIP# _____

PLAN APPROVAL DATE _____

AS BUILT PLAN APPROVAL

CHIEF, CONSTRUCTION MANAGEMENT _____

PLAN APPROVAL DATE _____

PLANTING PLAN

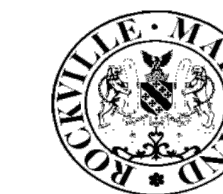
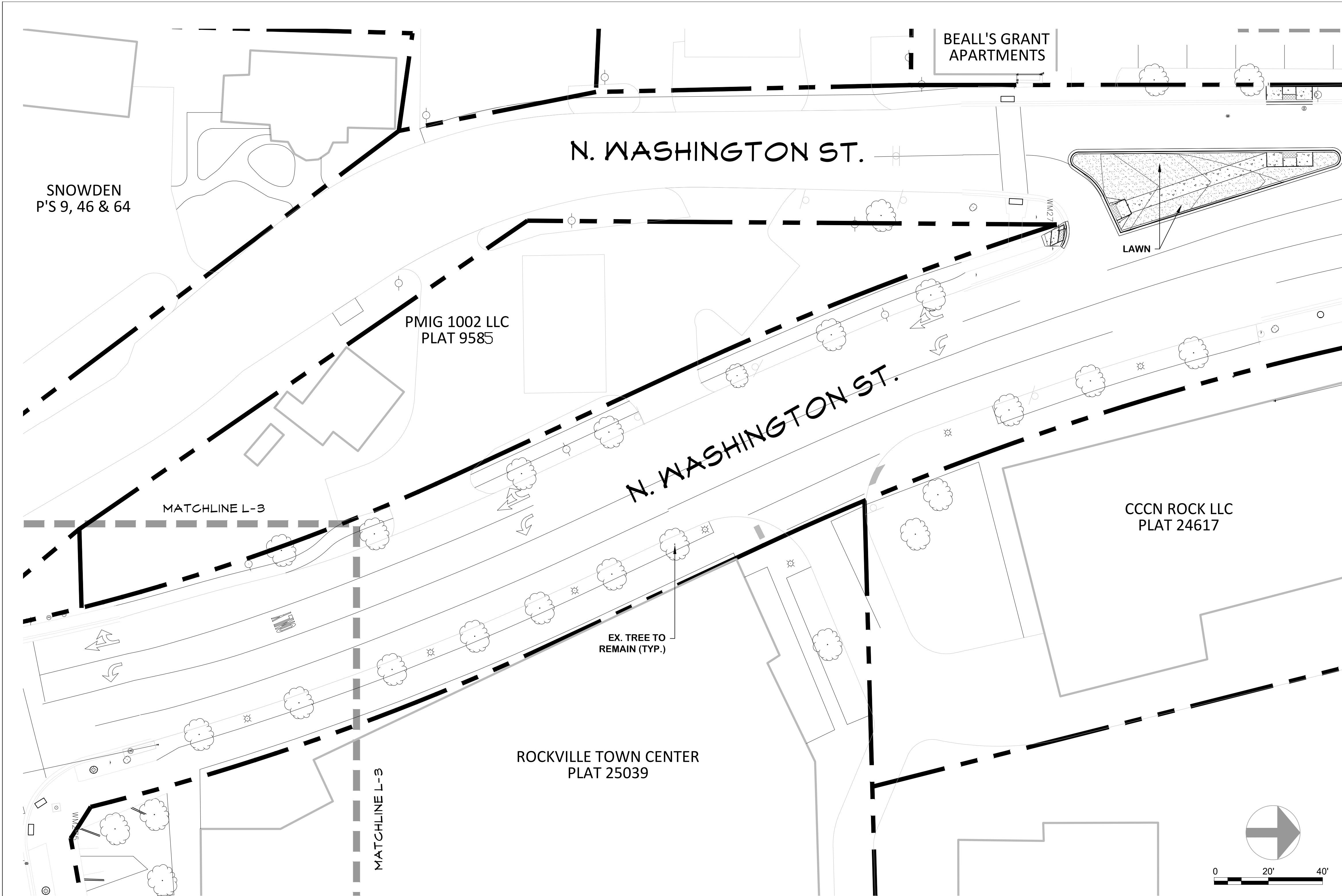
WASHINGTON STREET AND EAST MIDDLE LANE
ROAD DIET PROJECT

City of Rockville, Maryland

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

DATE SUBMITTED: MARCH 30, 2022	SCALE 1" = 20'	SHEET NO. L-3	FILE #
IFB XX-XX		OF 4	



Planting Notes for Landscape Plans

JULY 2018

INSTALLATION OF PLANT MATERIAL

- The Permittee is responsible for obtaining the approved Landscape Plan and providing a copy to the Landscape Contractor. The Permittee shall ensure that the Landscape Contractor can secure the plants shown on the Landscape Plan. Plant substitutions are not allowed. It is strongly recommended that plant material be secured from supplier by the project start date.
 - A pre-planting meeting is required before installation of landscaping. The applicant must schedule an on-site pre-planting meeting with the City Forestry Inspector. Attendees must include the Permittee, landscape contractor, and Forestry Inspector. Trees and shrubs shall conform to the current edition of the American Standard for Nursery Stock (ANSI Z60.1).
 - Comply with appropriate City Soil Specification:
 - Soil Specification FOR TREE PLANTING WHERE EXISTING PAVEMENT OR OTHER IMPERVIOUS SURFACES WERE PREVIOUSLY LOCATED OR WHERE EXISTING GREENSPACE HAS BEEN SEVERELY DEGRADED¹
 - Site preparation
 - Demolish existing impervious surface and remove all existing asphalt, concrete, stone and construction materials to expose subsoil free of debris.
 - Excavate so that final planting bed will provide quality soil to a depth of forty-eight (48) inches, and to a radius of 10' minimum or to new hard edge of planting bed, whichever is less.
 - Loosen exposed subsoil below 48" by ripping 18" into the sub grade elevation.
 - Test to ensure that planting bed drains at a rate of at least 1 inch per hour.
 - Install imported soil to fill excavated planting bed. Imported soil shall consist of 50% top soil, 40% coarse washed sand, and 10% mature compost, by volume, and have a chemical composition compatible with healthy growth. When installing the soil, it should be installed in lifts or layers of < 12 inches (30 cm), tamping or watering (not both) between lifts to minimize potential setting.
 - Immediately prior to installation of plant material, the soil must be tested and must have a pH range between 6 and 7 and a nutrient content which corresponds to an adequate rating, per current industry standards. Amend soil, if necessary to achieve the current industry standard.
 - Soil Specification FOR PLANTING WHERE EXISTING GREEN SPACE HAS NOT BEEN PROTECTED FROM CONSTRUCTION IMPACTS BUT IS NOT SEVERELY DEGRADED.
 - Site Preparation:
 - Remove all construction debris and top four to six inches of existing soil.
 - Test remaining existing soil to verify a pH range between 6 and 7, and has a nutrient content which corresponds to an adequate rating, per current industry standards.
 - Apply four (4) inches of mature compost evenly over the entire planting surface. Provide compost supplier information and specifications to the City Forestry Inspector for approval prior to install. (4" = 12 c.y. p/1,000s.f.)
 - Till the compost into the existing soil to a minimum depth of thirty-six (36) inches for trees, using the city's soil profile rebuilding specification. Depth to eighteen (18) inches for shrubs; twelve (12) inches for herbaceous groundcover, and to eight (8) inches for lawn.
 - If soil does not meet nutrient standards, mitigate soil chemistry to meet the chemical parameters.
 - Soil Specification FOR PLANTING WITHIN EXISTING GREEN SPACE AREAS WHICH HAVE BEEN PROTECTED FROM CONSTRUCTION IMPACTS (One of two options, as determined by Forestry Inspector) Refer to approved City of Rockville Detail A-7
 - Test existing soil to verify it has a pH range between 6 and 7, and a nutrient content which corresponds to an adequate rating, per current industry standards. If soil does not meet nutrient standards, one of two options will be performed to mitigate the soil:
 - Option 1 - Till Method- Depth of tilling for planting must be at least twenty-four (24) inches:
 - Apply four (4) inches of mature compost evenly over the entire planting surface. Provide compost supplier information and specifications to the City Forestry Inspector for approval prior to install. (4" = 12 c.y. p/1,000s.f.)
 - Till the compost into the existing soil to a minimum depth of twenty-four (24") inches.
 - Using a 2-3" Auger, drill a series of holes in the soil to a depth of twenty-four (24) inches.
 - Begin at the edge of the hole dig for the root ball, and continue drilling at one-foot intervals (maximum), in concentric rings around the tree out to ten (10) feet from the tree, or two and a half (2.5) feet for shrubs, and for the entire bed of herbaceous groundcover. Aerate/vertical mulch to eight (8) inches for lawn areas.
 - Each hole must be refilled with mature compost.
 - The Forestry Inspector may require additional soil specifications, based on site conditions.
 - Soil testing of the existing soil may be conducted with PRIOR approval from the City's Forestry Inspector to determine the number and location of the samples. The above requirements may be reduced if soil testing shows the following:
 - Soil pH is between 5.5 and 7
 - The top 24" of existing soil contains a minimum of 4-6% organic matter by weight
 - The soil is free of contaminants
 - The soil texture is sandy loam or loam
 - The soil has an infiltration rate not less than 1" per hour
 - The soil does not contain debris or stones greater than one inch
 - The soluble salt content is less than 3 dS/m
 - Consult the University of Maryland Extension website: <http://extension.umd.edu/> for a listing of commercial soil testing facilities.
- Soil preparation is required for street trees planted within the city's rights-of-way and private street trees, if they are part of the approved plan.
- The depths and grades shown on plan drawings are final grades after settlement and shrinkage of the organic material. The contractor shall install the soil mix at a higher level to anticipate this reduction of volume. Lawn areas shall be installed one (1) inch higher than the design grades. Soil media under paved surfaces shall be installed on half (0.5) inch higher than the design grades. All grade increases are assumed to be as measured to be prior to the addition of any surface compost till layer or mulch or sod.
- All details of the planting plans regarding plant quality and proper planting will be discussed including but not limited to:
 - Plant quality.
 - Proper form for species.
 - Proper ratio of caliper size/height to container size/root ball size.
 - Proper pruning cuts if applicable in accordance with current ANSI A300 pruning standards (generally there should be no recent pruning).
 - No co-dominant stems or multiple trunks (unless approved by FCP or by The Forestry Inspector).
 - Sound graft union.
 - Free of girdling roots, or the ability to remove girdling roots without damaging the tree.
 - Trees shall be healthy, vigorous, insect/disease free, and without cankers/cracks or trunk damage.
- Proper installation
 - Root flare no higher than three (3) inches from existing grade.
 - Exposed root flare (not graft); removing more than several inches of soil to expose the root flare may result in the rejection of the plant material.
 - Wire baskets/wiring/burlap removed from at least the top half of root ball, or as directed by Forestry Inspector.
 - All burlap or twine removed completely.
 - No hose and wire, staking and strapping per City planting detail.
 - Planting Hole a minimum of twice the width of the root ball; could be greater. Planting detail assumes soil has been prepared per the city's specifications (Planting, #3).
 - Mulched properly, per City planting detail.
 - Wildlife protection installed, if required; type approved by the Forestry Inspector.
- Plant material not complying with the above requirements may be rejected at the discretion of the City Forestry Inspector.
- Tree planting will generally not be permitted between the dates of June 1 and September 1, or when the ground is frozen. Warranties for bonded plant material will not commence during these periods.

¹ See definitions section of City Soil Profile Rebuilding Specification
² See definitions section of City Soil Profile Rebuilding Specification
³ See definitions section of City Soil Profile Rebuilding Specification

LEGEND

- RIGHT OF WAY LINE
- EXISTING STREET SIGN
- EXISTING STREET LIGHTING
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING LANDSCAPE PLANTING
- EXISTING STREET TREE
- CRITICAL ROOT ZONE (SHOWN ON TREES GREATER THAN 6" DBH)

CASE NUMBER: FTP2022-00021
 APPROVED BY
 CITY OF ROCKVILLE
 PLANNING AND
 DEVELOPMENT SERVICES
 4/8/2022
 DATE SIGNED
 4/8/2022 AS DIRECTED
 DATE APPROVED

WALLACE MONTGOMERY
 Landscape Architects
 512 Virginia Ave.
 Towson, Maryland 21286
 (410) 825-3885 Phone
 (410) 825-3887 Fax

PLAN PREPARED BY
HUMAN & ROHDE, INC.
 Landscape Architects
 512 Virginia Ave.
 Towson, Maryland 21286
 (410) 825-3885 Phone
 (410) 825-3887 Fax

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed landscape architect under the laws of the state of Maryland.
 License No.: 3693 DEVIN LEARY - HUMAN & ROHDE, INC.
 Expiration Date: 09-16-2022 410.825.3885 DEVIN@HUMANANDROHDE.COM

	DESIGNED _____	DEPARTMENT OF PUBLIC WORKS	DESIGN PLAN APPROVAL	AS BUILT PLAN APPROVAL	PLANTING PLAN	WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT	DATE SUBMITTED:	SCALE	SHEET	FILE #
	DRAFTED _____	CITY OF ROCKVILLE	DIRECTOR OF PUBLIC WORKS _____ PW/K# _____ SCP# _____	CHIEF, CONSTRUCTION MANAGEMENT _____			1" = 20'	NO. L-4	MARCH 30, 2022	OF 4
	CHECKED _____	111 MARYLAND AVE. ROCKVILLE, MARYLAND	PLAN APPROVAL DATE _____ SMP# _____ CIP# _____	PLAN APPROVAL DATE _____		City of Rockville, Maryland	IFB XX-XX			

Chapter 31B – Noise Control

- § 31B-2. Definitions.
- § 31B-3. Regulations.
- § 31B-4. Noise control advisory board.
- § 31B-5. Noise level and noise disturbance violations.
- § 31B-6. Noise level and noise disturbance standards for construction.
- § 31B-7. Measurement of sound.
- § 31B-8. Noise sensitive areas.
- § 31B-9. Leafblowers.
- § 31B-10. Exemptions.
- § 31B-11. Waivers.
- § 31B-12. Enforcement and penalties.

Sec. 31B-1. Declaration of policy.

- (a) The County Council finds that excessive noise harms public health and welfare and impairs enjoyment of property. The intent of this Chapter is to control noise sources to protect public health and welfare and to allow the peaceful enjoyment of property. This Chapter must be liberally construed to carry out this intent.
- (b) The Department of Environmental Protection administers this Chapter.
 - (1) The Department must coordinate noise abatement programs of all County agencies, municipalities, and regional agencies.
 - (2) A County agency, municipality in which this Chapter applies, or regional authority subject to County law must not adopt a standard or regulation that is less stringent than this Chapter or any regulation adopted under this Chapter.
 - (3) The Director may form an Interagency Coordinating Committee to assist the Director in coordinating noise control policy. If the Director forms the Committee, the Director must designate an individual to chair the Committee. The members of the Committee should be designated by County, local, and regional agencies that the Director invites to participate.
 - (4) The Department must establish procedures to identify and reduce noise sources when the County plans and issues permits, variances, exemptions, or approvals.
 - (5) The Department should make recommendations to the County Executive, County Council, and Planning Board regarding noise control policy, regulations, enforcement, and noise sensitive areas. (1996 L.M.C., ch. 32, § 1.)

Editor's note—See County Attorney Opinion dated 3/16/92 explaining that the Washington Metropolitan Area Transportation Authority (esp. Metrorail) is subject to the County's noise control law, although an exemption may be obtained if it is in the public interest.

Sec. 31B-2. Definitions.

In this Chapter, the following words and phrases have the following meanings:

- (a) *Construction* means temporary activities directly associated with site preparation, assembly, erection, repair, alteration, or demolition of structures or roadways.
- (b) *dBA* means decibels of sound, as determined by the A-weighting network of a sound level meter or by calculation from octave band or one-third octave band data.
- (c) *Daytime* means the hours from 7 a.m. to 9 p.m. on weekdays and 9 a.m. to 9 p.m. on weekends and holidays.

- (d) Decibel means a unit of measure equal to 10 times the logarithm to the base 10 of the ratio of a particular sound pressure squared to the standard reference pressure squared. For this Chapter, the standard reference pressure is 20 micropascals.
- (e) *Department* means the Department of Environmental Protection.
- (f) *Director* means the Director of the Department of Environmental Protection or the Director's authorized designee.
- (g) *Enforcement officer* means:
 - (1) for a noise originating from any source:
 - (A) an employee or agent of the Department designated by the Director to enforce this Chapter;
 - (B) a police officer; or
 - (C) a person authorized under Section 31B-12(a) to enforce this Chapter;
 - (D) a person authorized by a municipality to enforce this Chapter; or
 - (2) for a noise originating from an animal source, the Director of the Animal Services Division in the Police Department or the Director's authorized designee.
- (h) *Impulsive noise* means short bursts of a acoustical energy, measured at a receiving property line, characterized by a rapid rise to a maximum pressure followed by a somewhat slower decay, having a duration not greater than one second and a field crest factor of 10 dBA or more. Impulsive noise may include, for example, noise from weapons fire, pile drivers, or punch presses.
- (i) *Leaf blower* means any portable device designed or intended to blow, vacuum, or move leaves or any other type of unattached debris or material by generating a concentrated stream of air. Leafblower includes devices or machines that accept vacuum attachments.
- (j) *Nighttime* means the hours from 9 p.m. to 7 a.m. weekdays and 9 p.m. to 9 a.m. weekends and holidays.
- (k) *Noise* means sound, created or controlled by human activity, from one or more sources, heard by an individual.
- (l) *Noise area* means a residential or non-residential noise area:
 - (1) *Residential noise area* means land in a zone established under Section 59-C-1.1, Section 59-C-2.1, Division 59-C-3, Section 59-C-6.1, Section 59-C-7.0, Section 59-C-8.1, Section 59-C-9.1 for which the owner has not transferred the development rights, or Section 59-C-10.1, or land within similar zones established in the future or by a political subdivision where Chapter 59 does not apply.
 - (2) *Non-residential noise area* means land within a zone established under Section 59-C-4.1, Section 59-C-5.1, Section 59-C-9.1 for which the owner has transferred the development rights, or Division 59-C-12, or land in similar zones established in the future or by a political subdivision where Chapter 59 does not apply.
- (m) *Noise disturbance* means any noise that is:
 - (1) unpleasant, annoying, offensive, loud, or obnoxious;
 - (2) unusual for the time of day or location where it is produced or heard; or
 - (3) detrimental to the health, comfort, or safety of any individual or to the reasonable enjoyment of property or the lawful conduct of business because of the loudness, duration, or character of the noise.
- (n) *Noise sensitive area* means land designated by the County Executive as a noise sensitive area under Section 31B-8.

- (o) *Noise-suppression plan* means a written plan to use the most effective noise-suppression equipment, materials, and methods appropriate and reasonably available for a particular type of construction.
- (p) *Person* means an individual, group of individuals, corporation, firm, partnership, or voluntary association; or a department, bureau, agency, or instrument of the County or any municipality, or of any other government to the extent allowed by law.
- (q) *Prominent discrete tone* means a sound, often perceived as a whine or hum, that can be heard distinctly as a single pitch or a set of pitches. A prominent discrete tone exists if the one-third octave band sound pressure level in the band with the tone exceeds the arithmetic average of the sound pressure levels of the 2 contiguous one-third octave bands by:
 - (1) 5 dB for center frequencies of 500 Hz and above;
 - (2) 8 dB for center frequencies between 160 and 400 Hz; or
 - (3) 15 dB for center frequencies less than or equal to 125 Hz.
- (r) *Qualifying performing arts facility* means the outdoor area of a building, outdoor seasonal, temporary, or permanent stage, or other clearly defined outdoor area or space, which is:
 - (1) used for an outdoor arts and entertainment activity; and
 - (2) owned or operated by the County; and
 - (3) so designated by the County Executive in an Executive Order published in the County Register. The Executive may revoke a designation at any time by publishing an Executive Order revoking the designation in the County Register.
- (s) *Receiving property* means any real property where people live or work and where noise is heard, including an apartment, condominium unit, or cooperative building unit.
- (t) *Sound* means an auditory sensation evoked by the oscillation of air pressure.
- (u) *Source* means any person, installation, device, or animal causing or contributing to noise. (1996 L.M.C., ch. 32, § 1; 2001 L.M.C., ch. 2, § 1.)

Editor's note—See County Attorney Opinion dated 10/6/00 indicating that long-term parking on public streets is prohibited in certain circumstances, but not based on the size of the vehicle. See County Attorney Opinion dated 3/16/92 explaining that the Washington Metropolitan Area Transportation Authority (esp. Metrorail) is subject to the County's noise control law, although an exemption may be obtained if it is in the public interest.

Sec. 31B-3. Regulations.

The County Executive may establish noise control regulations and standards as necessary to accomplish the purposes and intent of this Chapter. Any regulation must be at least as stringent as this Chapter. The Executive by regulation may set fees that are sufficient to offset the costs of Department reviews or other actions required or authorized by this Chapter. (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-4. Noise control advisory board.

- (a) A Noise Control Advisory Board must advise the County Executive, Director, County Council, and Planning Board on noise control issues, including administration and enforcement of this Chapter.
- (b) The Board consists of 11 members appointed by the Executive and confirmed by the Council.
- (c) The Board must elect one member as Chair and another member as Vice-Chair to serve at the pleasure of the Board. The Board must meet at the call of the chairperson as required to perform its duties, but not less than once each quarter. A majority of the members of the

Board constitutes a quorum for transacting business. The Board may act by a majority vote of those present.

- (d) At least every third year, the Board must evaluate the effectiveness of the County's noise control program and recommend any improvements to the Director, County Executive, County Council, and Planning Board.
- (e) No later than March 1 each year, the Chair of the Board must report to the Director, County Executive, County Council, and Planning Board on activities and actions the Noise Control Advisory Board took during the previous calendar year. (1996 L.M.C., ch. 32, § 1; 1999 L.M.C., ch. 2, § 1.)

Editor's note-1999 L.M.C., ch. 2, § 1, increased the number of Board members from 7 to 11. 1999 L.M.C., ch. 2, § 2, states:

Sec. 2. Transition.

- (a) The terms of the 4 members of the Noise Control Advisory Board added by this Act end:
 - (1) for 1 member, on September 30, 1999, and every third year thereafter;
 - (2) for 2 members, on September 30, 2000, and every third year thereafter; and
 - (3) for 1 member, on September 30, 2001, and every third year thereafter.
 - (b) When appointing the first individual to serve in one of the 4 new positions, the County Executive must designate the term in subsection (a) for which the Executive is appointing the individual.
 - (c) This Act does not affect the term of any current member of the Board.
- Cross reference**-Boards and commissions generally, § 2-141 et seq.

Sec. 31B-5. Noise level and noise disturbance violations.

- (a) *Maximum allowable noise levels.*
 - (1) Except as otherwise provided in Sections 31B-6(a) and 31B-8, a person must not cause or permit noise levels that exceed the following levels:

<i>Maximum Allowable Noise Levels (dBA) for Receiving Noise Areas</i>		
	<i>Daytime</i>	<i>Nighttime</i>
Non-residential noise area	67	62
Residential noise area	65	55

- (2) A person must not cause or permit the emission of a prominent discrete tone or impulsive noise that exceeds a level, at the location on a receiving property where noise from the source is greatest, that is 5 dBA lower than the level set in paragraph (1) for the applicable noise area and time.
 - (3) Sound that crosses between residential and non-residential noise areas must not exceed the levels set in paragraph (1) for residential noise areas.
- (b) *Noise disturbance.* A person must not cause or permit noise that creates a noise disturbance.
- (c) *Examples.* The following examples illustrate common noise-producing acts that violate this section if they exceed the noise level standards set in subsection (a) or create a noise

disturbance. The examples are illustrative only and do not limit or expand the noise level or noise disturbance standards of this section:

- (1) Sounding a horn or other signaling device on any motor vehicle on private property except:
 - (A) in an emergency; or
 - (B) as a danger warning signal during daytime hours if the device complies with noise level limits.
- (2) Operating a sound-producing device on public streets for commercial advertising or to attract public attention.
- (3) Selling anything by outcry.
- (4) Loading, unloading, opening, closing or otherwise handling containers, building materials, construction equipment, or similar objects.
- (5) Operating a device that produces, reproduces, or amplifies sound.
- (6) Allowing an animal to create a noise disturbance.
- (7) Operating power equipment mounted on a motor vehicle or operating other devices powered by a generator or a motor vehicle. (1996 L.M.C., ch. 32, § 1.)

Editor's note—See County Attorney Opinion dated 10/6/00 indicating that long-term parking on public streets is prohibited in certain circumstances, but not based on the size of the vehicle. See County Attorney Opinion dated 3/16/92 explaining that the Washington Metropolitan Area Transportation Authority (esp. Metrorail) is subject to the County's noise control law, although an exemption may be obtained if it is in the public interest.

Sec. 31B-6. Noise level and noise disturbance standards for construction.

- (a) *Maximum allowable noise levels for construction.*
 - (1) A person must not cause or permit noise levels from construction activity that exceed the following levels:
 - (A) From 7 a.m. to 5 p.m. weekdays:
 - (i) 75 dBA if the Department has not approved a noise-suppression plan for the activity; or
 - (ii) 85 dBA if the Department has approved a noise-suppression plan for the activity.
 - (B) The level specified in Section 31B-5 at all other times.
 - (2) Construction noise levels must be measured at the location, at least 50 feet from the source, on a receiving property where noise from the source is greatest.
 - (3) The Department must by regulation establish requirements for noise-suppression plans and adopt procedures for evaluating and approving plans. The regulations must provide that, at least 10 days before approving a noise-suppression plan, the Director must provide public notice reasonably calculated to reach at least a majority of households that might be affected by the construction activity noise levels above 75 dBA.
- (b) *Construction noise disturbance.* The prohibition on noise disturbance in Section 31B- 5(b) applies to construction activities, notwithstanding subsection (a).
- (c) *Examples.* The following examples illustrate common construction noise-producing acts that violate this section if they exceed the noise level standards set in subsection (a) or create a noise disturbance. The examples are illustrative only and do not limit or expand the construction noise level or noise disturbance standards of this section:
 - (1) Delivering materials or equipment, or loading or unloading during nighttime hours in a residential noise area.
 - (2) Operating construction equipment with audible back-up warning devices during nighttime hours. (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-6A. Seasonal noise level standard for qualifying outdoor arts and entertainment activities.

- (a) Each outdoor arts and entertainment activity held at a qualifying performing arts facility must not exceed the following noise decibel limits:
 - (1) from 11 a.m. to 11 p.m. during April 1 through October 31, 75 dBA, as measured on the receiving property; and
 - (2) at all other times, the maximum allowable noise level set in Section 31B-5.
- (b) A qualifying performing arts facility which has complied with this Section must not cause or permit noise levels from an outdoor arts and entertainment activity to exceed the standards in subsection (a).
- (c) Any outdoor arts and entertainment activity conducted at a qualifying performing arts facility which has complied with this Section must not be cited as causing a noise disturbance.
- (d) The Department must annually advise the Executive and Council, and the operator of each qualifying performing arts facility, whether the noise levels specified in this Section remain appropriate for that facility and the extent of compliance with those levels. (2011 L.M.C., ch. 7, § 1)

Sec. 31B-7. Measurement of sound.

- (a) The Department must issue regulations establishing the equipment and techniques it will use to measure sound levels. The Department may rely on currently accepted standards of recognized organizations, including the American National Standards Institute (ANSI), American Society for Testing and Materials (ASTM), and the United States Environmental Protection Agency.
- (b) For multiple sources of sound, the Department may measure sound levels at any point to determine the source of a noise. (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-8. Noise sensitive areas.

- (a) The County Executive may designate by regulation land within any geographical area as a noise sensitive area to protect public health, safety, and welfare. The regulation may prohibit certain noise producing activities in the noise sensitive area.
- (b) A regulation under subsection (a) must:
 - (1) describe the area by reference to named streets or other geographic features;
 - (2) explain the reasons for the designation;
 - (3) establish specific noise limits or requirements that apply in the noise sensitive area; and
 - (4) describe by example or enumeration activities or sources that violate the limits or requirements.
- (c) A regulation under subsection (a) may establish limits or requirements for a noise sensitive area that are more stringent than those that otherwise would apply to the area under this Chapter. (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-9. Leafblowers.

- (a) Except as provided in this section, a person must not sell, buy, offer for sale, or use a leafblower at any time that has an average sound level exceeding 70 dBA at a distance of 50

- feet. This requirement is in addition to any other noise level or noise disturbance standard that applies under this Chapter.
- (b) An individual who owns or occupies a residence in a residential noise area may use at the individual's residence a leafblower bought or manufactured before July 1, 1990, until July 1, 1998, even if it exceeds the standard in subsection (a). After July 1, 1998, a person must not use any leafblower that violates the standard in subsection (a).
 - (c) The Department must apply the standard in subsection (a) in accordance with the most current leaf-blower testing standard of the American National Standards Institute (ANSI).
 - (d) The Department may inspect, and on its request a person must produce, any leafblower that is sold, offered for sale, or used in the County, to determine whether the leafblower complies with this section. A person who relies in good faith on a manufacturer's written representation of the sound level of a leafblower that has not been modified is not subject to a penalty for violating this section. (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-10. Exemptions.

- (a) This Chapter does not apply to:
 - (1) agricultural field machinery used and maintained in accordance with the manufacturer's specifications;
 - (2) emergency operations by fire and rescue services, police agencies, or public utilities and their contractors;
 - (3) a source or condition expressly subject to any State or federal noise-control law or regulation that is more stringent than this Chapter;
 - (4) sound, not electronically amplified, created between 7 a.m. and 11 p.m. by sports, amusements, or entertainment events or other public gatherings operating according to the requirements of the appropriate permit or licensing authority. This includes athletic contests, carnivals, fairgrounds, parades, band and orchestra activities, and public celebrations.
- (b) The County Executive may issue regulations exempting from Section 31B-5 sources associated with routine residential living during daytime hours, such as home workshops, power tools, and power lawn and garden equipment, when used in accordance with manufacturer specifications. This exception does not apply to repairs or maintenance on a motor vehicle that is not registered for use on public roads. (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-11. Waivers.

- (a) *Temporary waiver.*
 - (1) The Director may waive any part of this Chapter for a temporary event if the noise the event will create or cause in excess of the limits established under this Chapter is offset by the benefits of the event to the public.
 - (2) When the Director receives an application under this subsection, the Director must provide public notice of the application reasonably calculated to reach at least a majority of households that might be affected by noise levels anticipated for the event. The Director must not approve an application under this subsection less than 10 days after the public notice.
- (b) *General waiver.*
 - (1) The Director may waive any part of this Chapter if the Director determines that compliance in a particular case is not practical and would impose undue hardship.
 - (2) When the Director receives an application under this subsection, the Director must schedule a hearing on the application within 60 days.
 - (3) At least 30 days before the hearing, the applicant must advertise the hearing by:

- (A) placing a display advertisement in a newspaper of general circulation in the community where the source that is the subject of the application is located; and
 - (B) posting a sign at the location of the source.
- (4) Based on evidence presented at the hearing, the Director may grant a waiver for up to 3 years, under terms and conditions appropriate to reduce the impact of the exception.
- (5) The Director may renew a waiver granted under this subsection if the applicant shows that the circumstances supporting the original waiver have not changed.
- (c) *Violation of waiver.* The Director may suspend, modify, or revoke a waiver granted under this section if a person violates the terms or conditions of the waiver.
- (d) *Regulations and fees.* The County Executive must issue regulations implementing this section that:
- (1) set the procedures and fees to apply for a waiver under subsections (a) or (b);
 - (2) require the applicant to use the best technology and strategy reasonably available to mitigate noise, as determined by the Director;
 - (3) allow temporary waivers under subsection (a) of no more than 30 days, renewable at the discretion of the Director no more than twice; and
 - (4) specify the requirements for the hearing advertisement and sign required under subsection (b)(3). (1996 L.M.C., ch. 32, § 1.)

Sec. 31B-12. Enforcement and penalties.

- (a) The Department must enforce this Chapter. The County Executive may delegate in writing the authority to enforce parts of this Chapter to the Police Department or any other Executive agency.
- (b) A violation of this Chapter is a Class A violation. Each day a violation continues is a separate offense. A violation of Section 31B-6 is a separate offense in addition to any other violation of this Chapter arising from the same act or occurrence.
- (c) The Department may seek injunctive or other appropriate judicial relief to stop or prevent continuing violations of this Chapter.
- (d) If the Director finds that a person has violated this Chapter, the Director may issue a notice of violation and corrective order to the person. The notice must contain the following information:
 - (1) the section of this Chapter that the person violated;
 - (2) the date, nature, and extent of the violation;
 - (3) the action required to correct the violation;
 - (4) if the Director requires a compliance plan, the deadline for submitting the plan to the Director; and
 - (5) the deadline for compliance.
- (e) The compliance plan referred to in subsection (d)(4) must establish a schedule for achieving compliance with this Chapter, as specified in the corrective order. A compliance plan, and amendments to a plan, are not effective until the Director approves the plan or amendment. An action allowed under an approved compliance plan does not violate this Chapter.
- (f) An enforcement officer may issue a civil citation for any violation of this Chapter if the enforcement officer:
 - (1) witnesses the violation; or

- (2) receives complaints from at least 2 witnesses of a noise disturbance. Complaints by 2 witnesses are required to issue a citation under paragraph (2), but are not required to prove that a person violated this Chapter.
- (g) The Director of the Animal Services Division may initiate administrative action before the Animal Matters Hearing Board instead of an enforcement officer issuing a citation under subsection (f) for a violation of this Chapter originating from an animal source.
- (h) A person aggrieved by any action or order of the Director under Sections 31B-9 and 31B-11 may seek reconsideration within 10 days after the date of the action or order. A request for reconsideration must be in writing to the Director, and must specify the date and nature of the action or order, the injury sustained, the remedy requested, and the legal basis for the remedy. If the Director finds that there are material facts in dispute, the Director may refer the matter to a hearing officer under the procedures specified in Chapter 2A. If the Director finds that there are no material facts in dispute, the Director must make a final decision on the request for reconsideration in writing within 45 days after receiving the request. The aggrieved person may appeal from the Director's final decision within 30 days after the Director issues the decision, as provided in Section 2A-11.
- (i) (1) A person responsible for a violation of Section 31B-6 and the person responsible for the management or supervision of the construction site where the source of the violation is located are jointly and severally liable for the violation.
 (2) For recurring violations of Section 31B-6 on the same construction site, in addition to any other penalty under this Chapter, the Director may issue a stop work order, as provided in Section 8-20, for up to:
 (A) 3 consecutive working days for a second violation within 30 days after the first violation;
 (B) 5 consecutive working days for a third violation within 60 days after the first violation; and
 (C) 7 working days per offense for the fourth and subsequent violations within a 120-day period.
 (3) This Chapter does not limit the Director's authority under Chapter 8 to revoke a permit or approval issued under that Chapter.
- (j) Any person aggrieved by a violation of this Chapter may file a civil action in any court with jurisdiction against a person responsible for the alleged violation. The aggrieved person must notify the alleged violator and the Director of the alleged violation at least 60 days before filing the action. A person must not file an action under this subsection if the County Attorney has filed a civil action against the same alleged violator regarding the same violation. (1996 L.M.C., ch. 32, § 1; 2001 L.M.C., ch. 2, § 1.)

Endnotes

Editor's note—In *Burrows v. United States*, 2004 U.S. Dist. LEXIS 1104 (2004), the Court interpreted Montgomery County Code Chapter 31B neither to permit a private cause of action for noise control, nor to permit suit against the federal government. Chapter 31B is discussed in *Miller v. Maloney Concrete Company*, 63 Md.App. 38, 491 A.2d 1218 (1985). *Cross references—Noise from quarries, § 38-14; radio, etc., without earphones prohibited in public transit facilities, § 54A-2; industrial area noise regulations, § 59-A-5.7.

[Note]

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81

NOTES:

SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER WORK SIGNS WHEN THE SHOULDER IS CLOSED BY POSITIVE PROTECTION (TEMPORARY CONCRETE BARRIER OR SIMILAR DEVICE). REFER TO STANDARD NO. MD 104.06-18.

WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARD NOS. MD 104.06-15 TO MD 104.06-19.

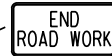
THERE SHALL BE A MINIMUM OF SEVEN CHANNELIZING DEVICES IN THE SHOULDER TAPER.

THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

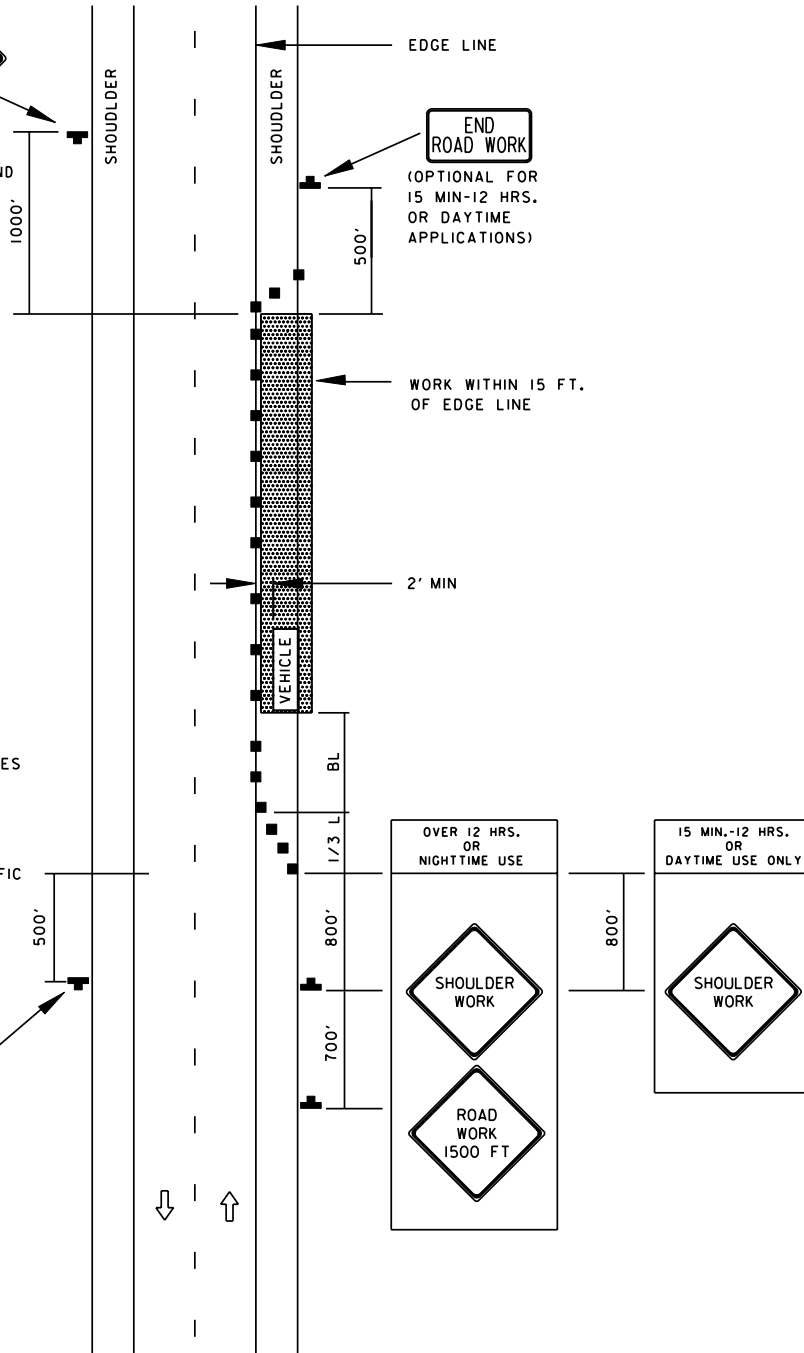
KEY:

- ■ CHANNELIZING DEVICES
- SIGN SUPPORT
- ← FACE OF SIGN
- ↑ DIRECTION OF TRAFFIC
- ▨ WORK SITE

END ROAD WORK
(OPTIONAL FOR 15 MIN.-12 HRS. OR DAYTIME APPLICATIONS)



(OPTIONAL FOR 15 MIN.-12 HRS. OR DAYTIME APPLICATIONS)



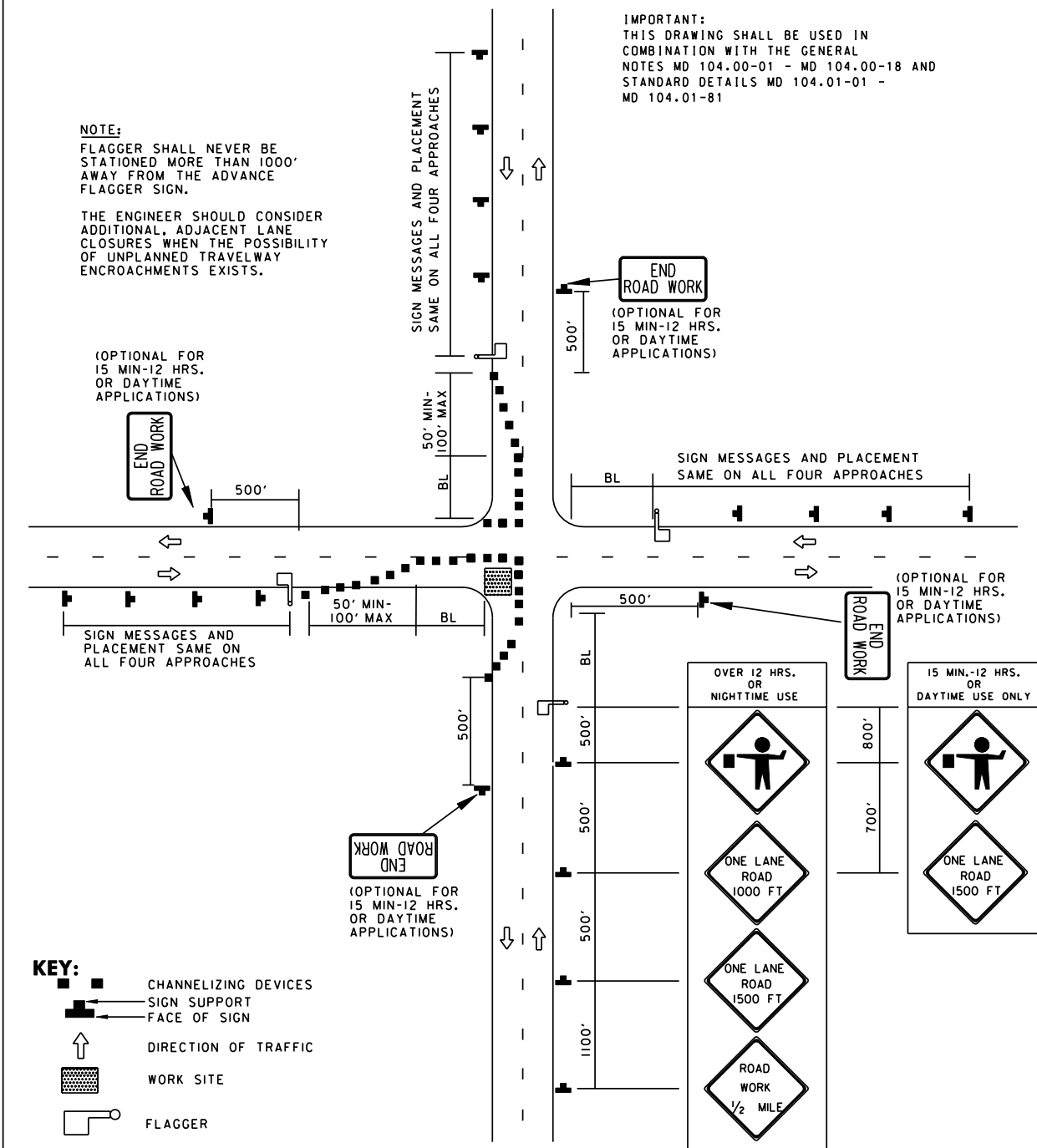
SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	<i>[Signature]</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03
	APPROVAL 9-23-03
REVISED 8-11-10	REVISED 10-5-10
REVISED	REVISED
REVISED	REVISED


Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SHOULDER WORK/2-LANE, 2-WAY
EQL/LESS THAN 40 MPH

STANDARD NO. MD 104.02-02

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION



SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	<i>[Signature]</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03
	APPROVAL 9-23-03
REVISED 8-11-10	REVISED 7-29-10
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

INTERSECTION FLAGGING OPERATION
2-LANE, 2-WAY EQL/LESS THAN 40 MPH

STANDARD NO. MD 104.02-14

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81

NOTES:

IF THE LEAD WORK VEHICLE IS TRAVELING AT THE POSTED SPEED LIMIT OR WITHIN 15 MPH OF IT, THEN NO BACK UP VEHICLE IS NECESSARY.






IN URBAN AREAS THE DISTANCE MAINTAINED BETWEEN VEHICLES MAY BE DECREASED AS NEEDED.

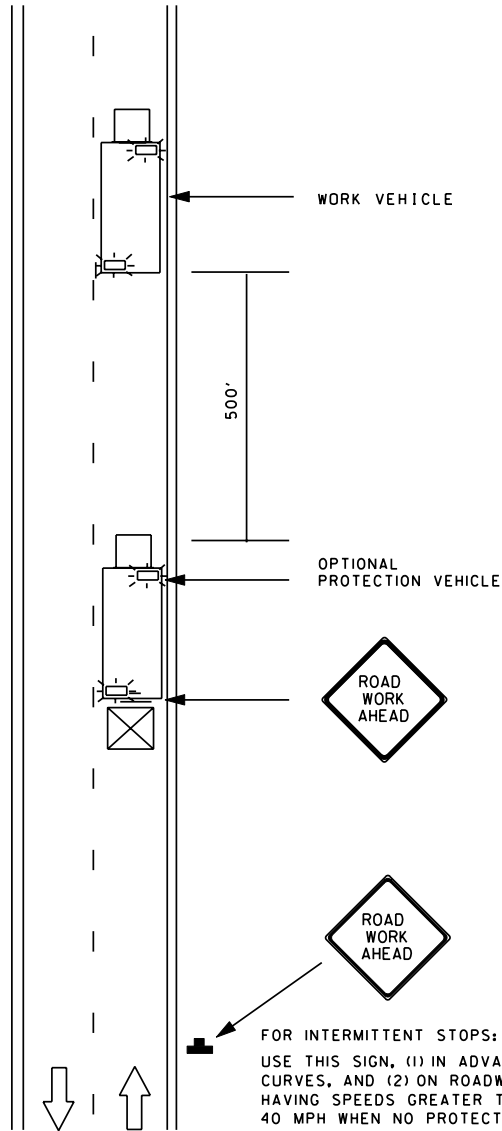
VEHICLES SHALL DISPLAY FLASHING HAZARD/PARKING LIGHTS IN FRONT AND REAR AS PER MD 104.01-18B.

VEHICLES THAT STOP INTERMITTENTLY SHOULD BE DRIVEN, OR PARKED, OFF THE TRAVELED LANE WHENEVER POSSIBLE.

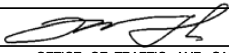

WHEN USED, THE PROTECTION VEHICLE MAY BE USED AS A SUBSTITUTE FOR THE WORK VEHICLE WHERE DIRECTED BY THE ENGINEER.

KEY:

-  SIGN SUPPORT
-  FACE OF SIGN
-  APPROVED VEHICLE SAFETY LIGHT
-  DIRECTION OF TRAFFIC
-  TRUCK OR TRAILER-TRUCK MOUNTED ATTENUATOR (TMA/TTMA)



FOR INTERMITTENT STOPS:
USE THIS SIGN, (1) IN ADVANCE OF CURVES, AND (2) ON ROADWAYS HAVING SPEEDS GREATER THAN 40 MPH WHEN NO PROTECTION VEHICLE IS AVAILABLE. THE WORK VEHICLE SHOULD NEVER BE MORE THAN 1500' AWAY FROM THIS SIGN.

SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03
	APPROVAL 9-23-03
REVISED 8-11-10	REVISED 7-29-10
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
MOBILE OPERATION/2-LANE, 2-WAY
ALL SPEEDS/0-15 MIN., AND MOVING SLOW

STANDARD NO. MD 104.02-15

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

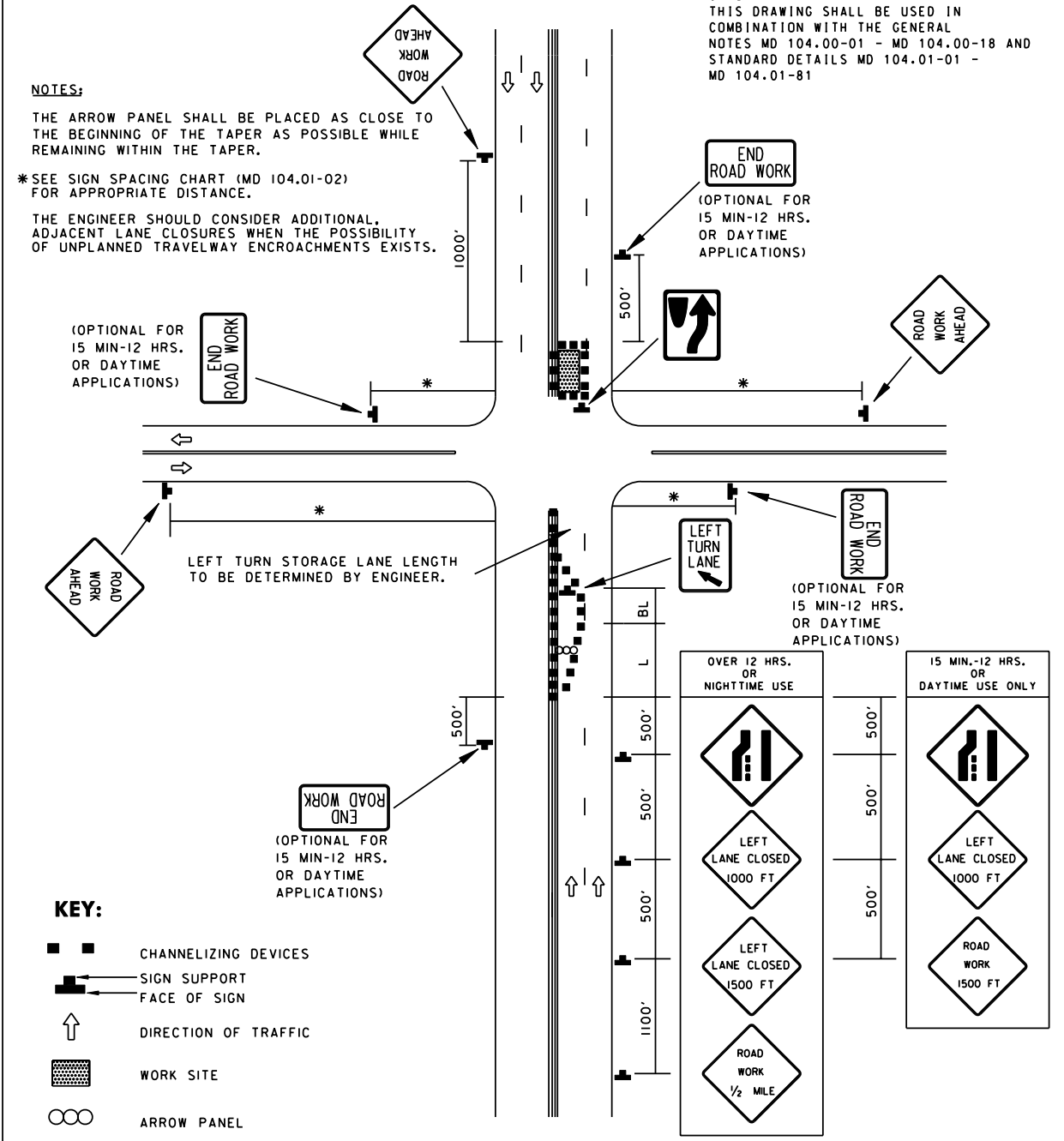
NOTES:

THE ARROW PANEL SHALL BE PLACED AS CLOSE TO THE BEGINNING OF THE TAPER AS POSSIBLE WHILE REMAINING WITHIN THE TAPER.

* SEE SIGN SPACING CHART (MD 104.01-02) FOR APPROPRIATE DISTANCE.

THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

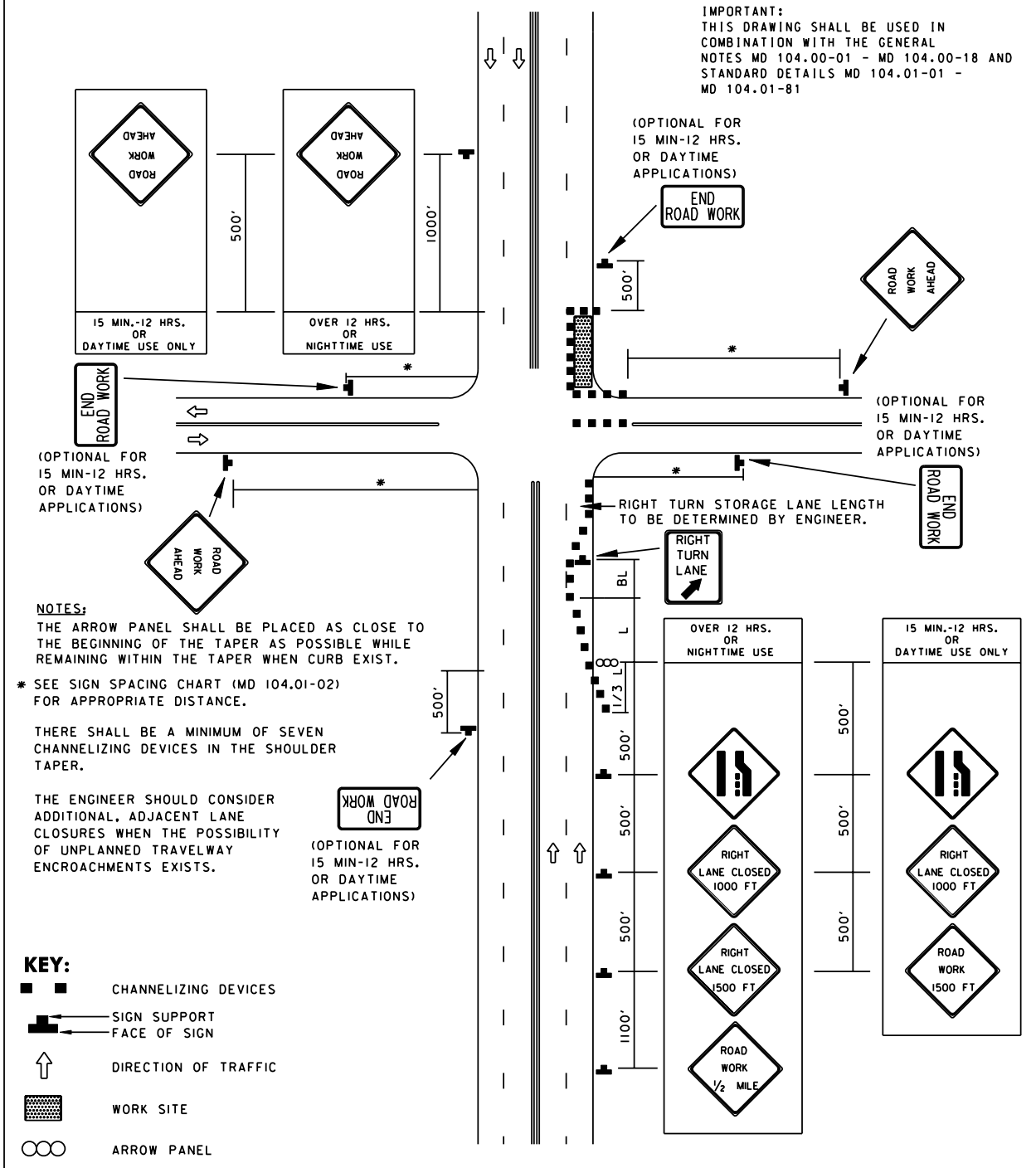
IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81

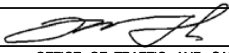



SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	<i>[Signature]</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03
	APPROVAL 9-23-03
REVISED 8-11-10	REVISED 10-5-10
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
**INTER. FAR-LEFT LANE CLOSURE/
 MULTILANE UNDIV. EQL/LESS THAN 40 MPH**
STANDARD NO. MD 104.03-10

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION



SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03 REVISIONS
	APPROVAL 9-23-03 REVISIONS
APPROVAL 8-11-10 REVISIONS	APPROVAL 10-5-10 REVISIONS
REVISIONS	REVISIONS
REVISIONS	REVISIONS

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

**INTER. FAR-RIGHT LANE CLOSURE/
MULTILANE UNDIV. EQ/LESS THAN 40 MPH**

STANDARD NO.

MD 104.03-12

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81

NOTES:

SHOULDER WORK SIGNS SHALL BE MOUNTED ON THE SIDE OF THE ROADWAY WHERE THE SHOULDER IS AFFECTED. USAGE OF SHOULDER WORK SIGNS ON THE OPPOSITE SIDE OF DIVIDED HIGHWAYS IS OPTIONAL.





SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER WORK SIGNS WHEN THE SHOULDER IS CLOSED BY POSITIVE PROTECTION (TEMPORARY CONCRETE BARRIER OR SIMILAR DEVICE), REFER TO STANDARD NO. MD 104.06-18.

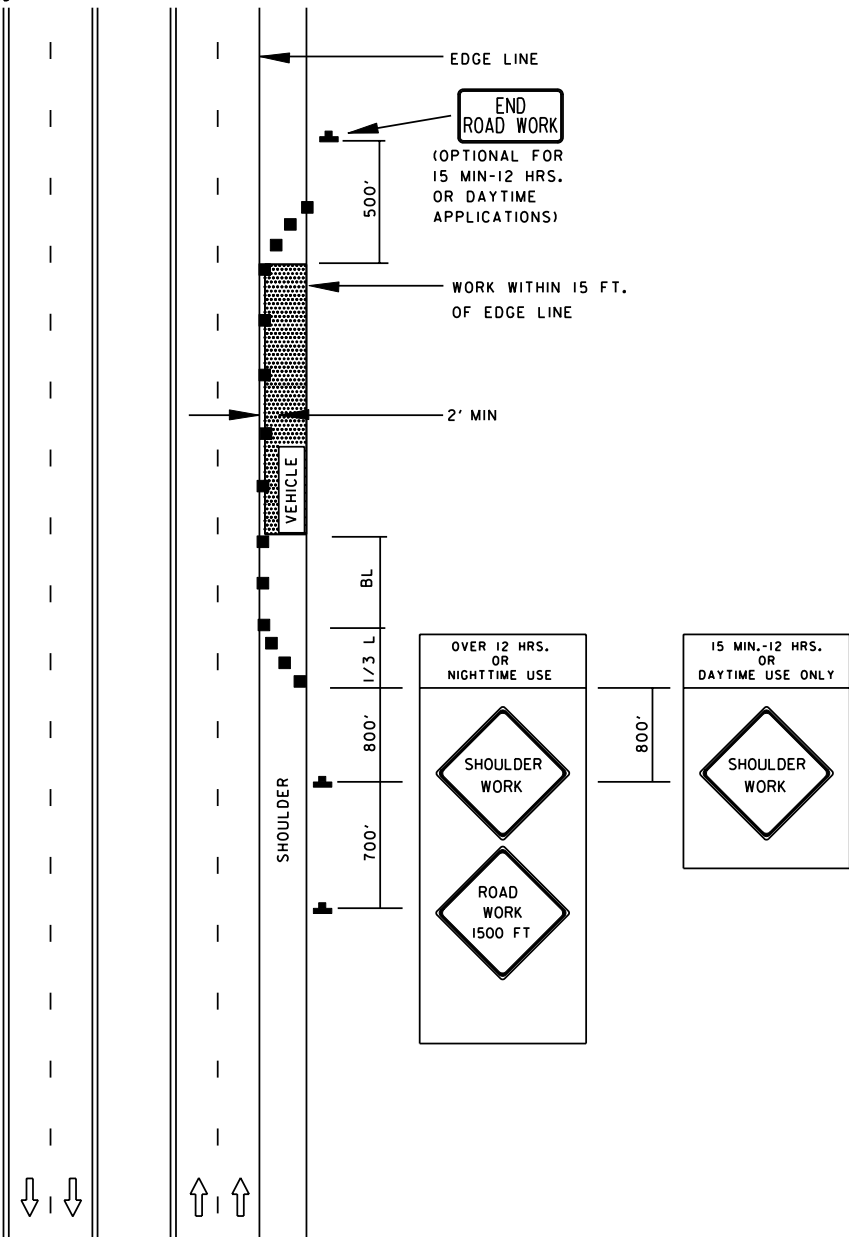
WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARD NOS. MD 104.06-15 TO MD 104.06-19.

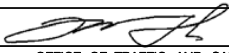

THERE SHALL BE A MINIMUM OF SEVEN CHANNELIZING DEVICES IN THE SHOULDER TAPER.

THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

KEY:

-  CHANNELIZING DEVICES
-  SIGN SUPPORT
FACE OF SIGN
-  DIRECTION OF TRAFFIC
-  WORK SITE



SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03 APPROVAL 9-23-03
	REVISED 8-11-10 REVISED 7-29-10
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SHOULDER WORK/DIVIDED UNCON.
EQL/LESS THAN 40 MPH

STANDARD NO.

MD 104.04-02






TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

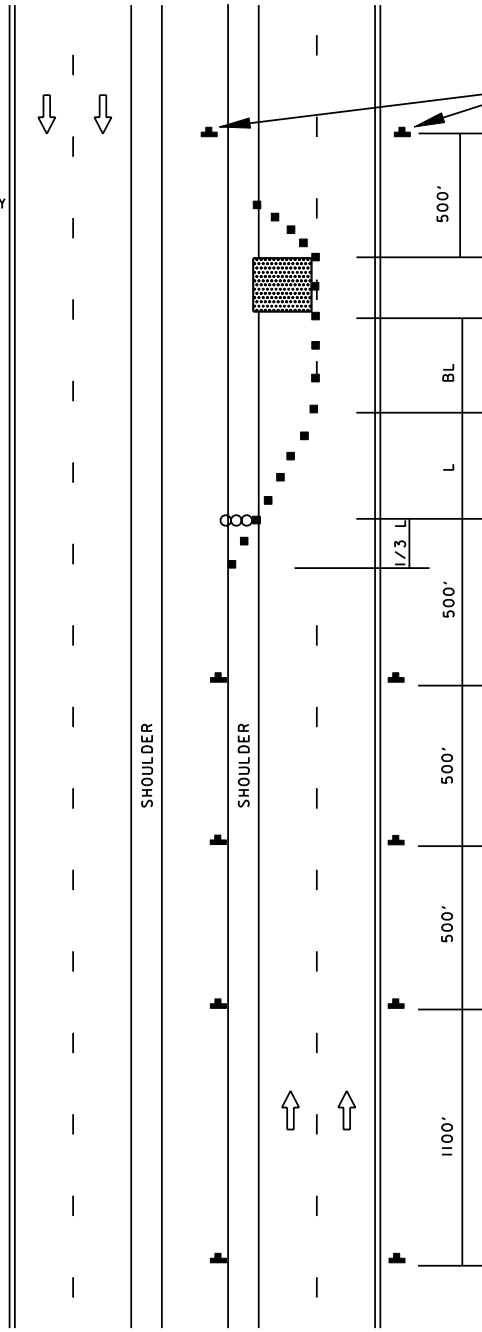
NOTE:

THERE SHALL BE A MINIMUM OF SEVEN CHANNELIZING DEVICES IN THE SHOULDER TAPER.

THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

KEY:

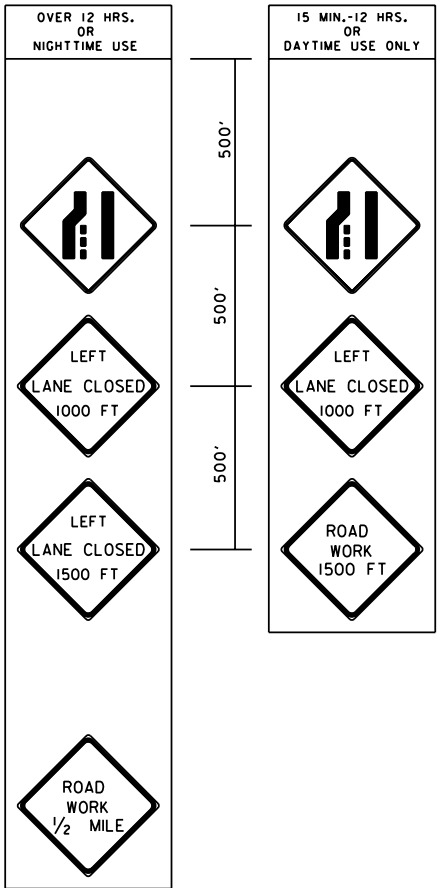
-  CHANNELIZING DEVICES
-  SIGN SUPPORT FACE OF SIGN
-  DIRECTION OF TRAFFIC
-  ARROW PANEL
-  WORK SITE

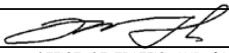



END ROAD WORK

(OPTIONAL FOR 15 MIN-12 HRS. OR DAYTIME APPLICATIONS)

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81



SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03 REVISION 8-11-10
	APPROVAL 9-23-03 REVISION 7-29-10

**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

**LEFT LANE CLOSURE/DIVIDED UNCON.
EQL/LESS THAN 40 MPH**

STANDARD NO. MD 104.04-04

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION







IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81

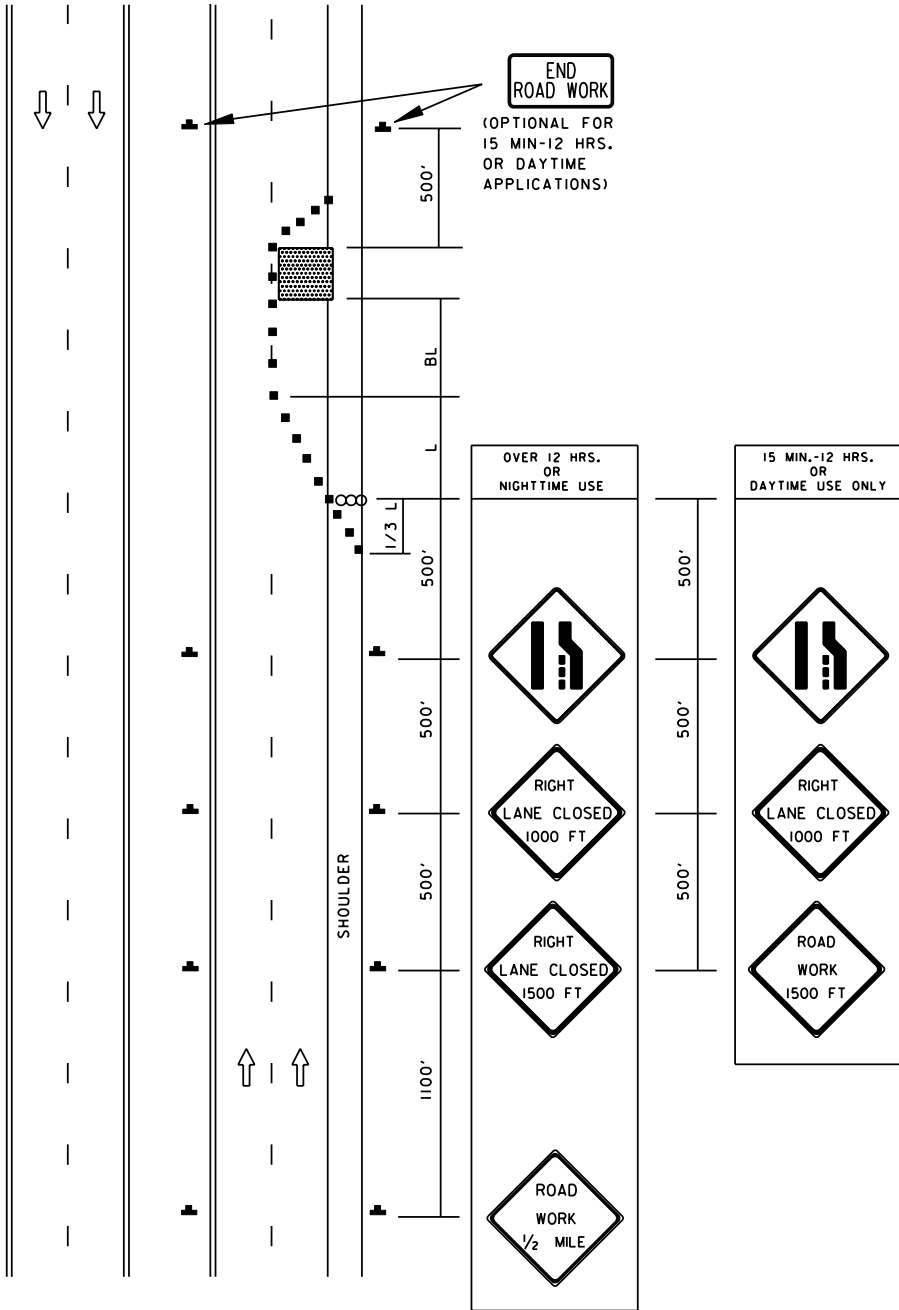
NOTE:

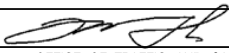

THERE SHALL BE A MINIMUM OF SEVEN CHANNELIZING DEVICES IN THE SHOULDER TAPER.

THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

KEY:

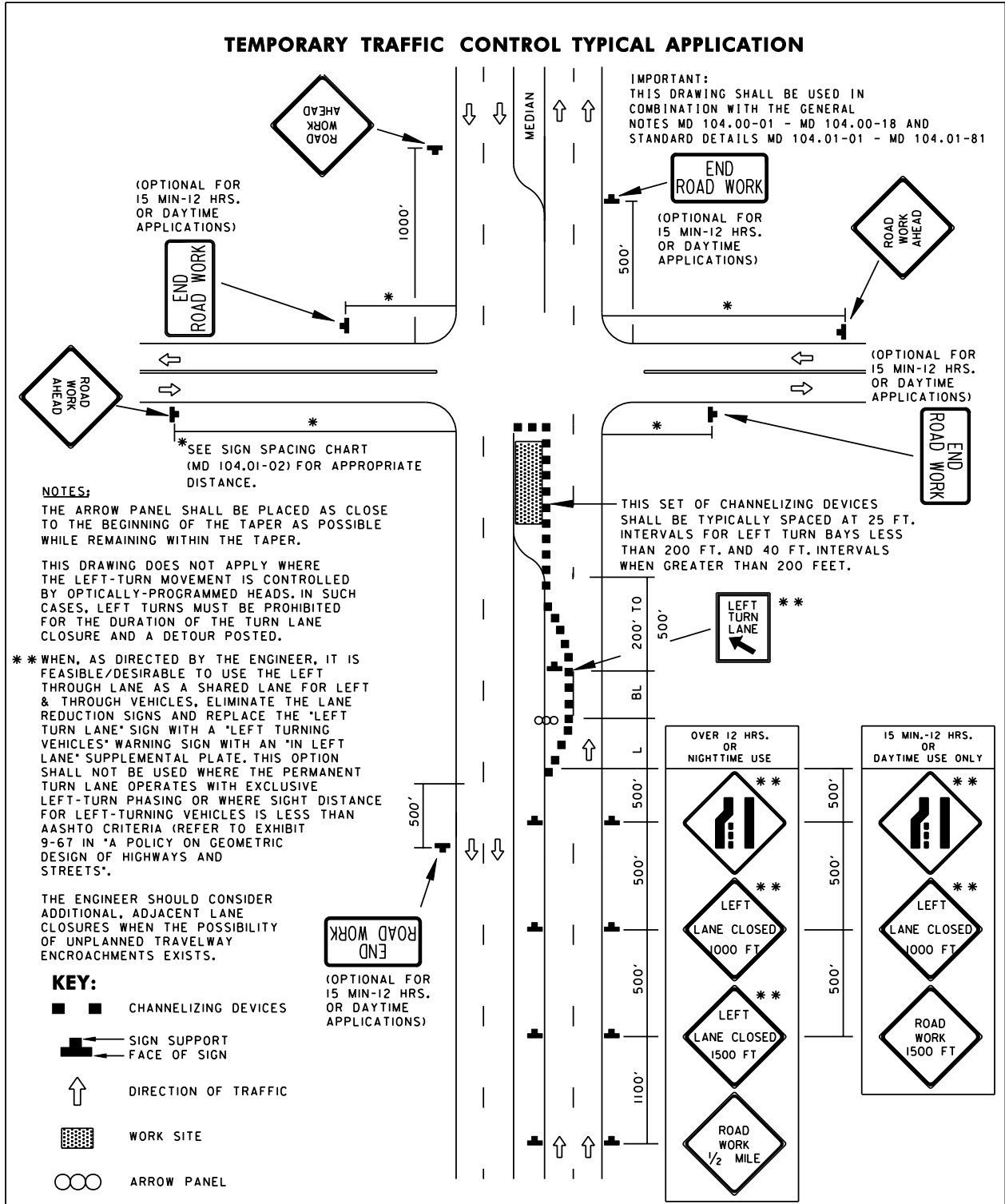
-  CHANNELIZING DEVICES
-  SIGN SUPPORT
-  FACE OF SIGN
-  DIRECTION OF TRAFFIC
-  WORK SITE
-  ARROW PANEL



SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL 8-20-03
	REVISED 8-11-10
	REVISED
APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 9-23-03
REVISED	REVISED 7-29-10
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
RIGHT LANE CLOSURE /DIVIDED UNCON.
EQL/LESS THAN 40 MPH

STANDARD NO. MD 104.04-06



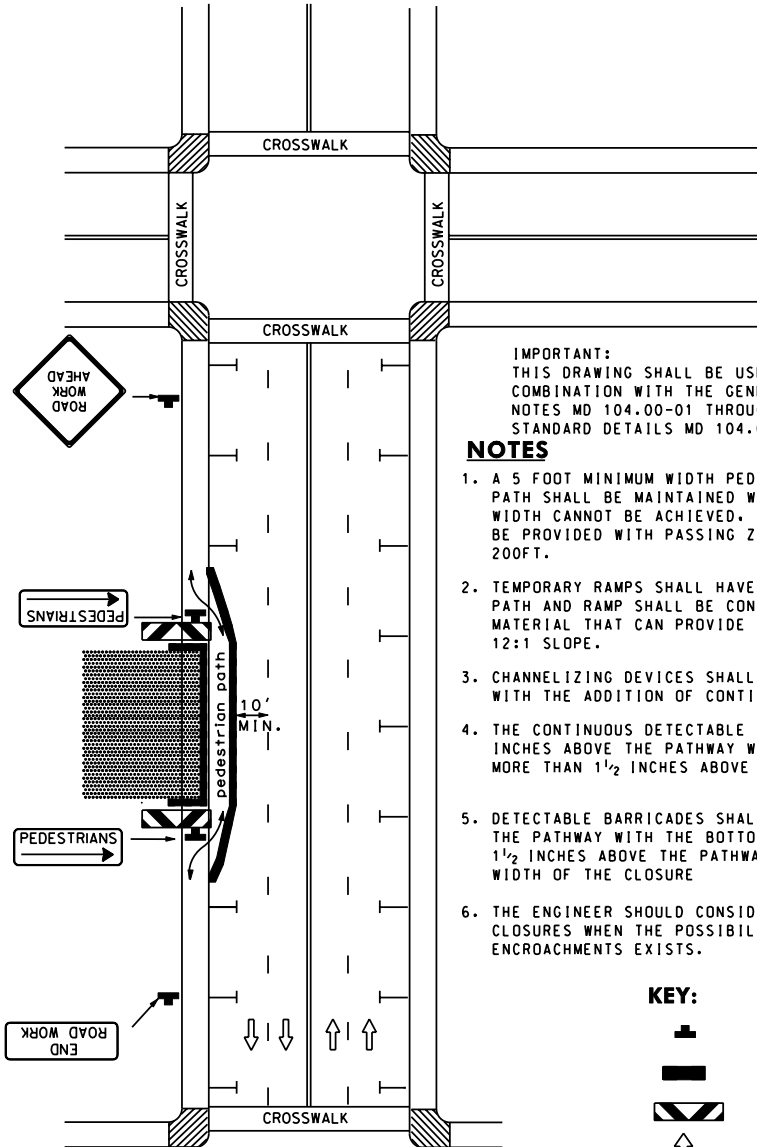
SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 8-20-03
	APPROVAL 9-23-03
REVISION 8-11-10	REVISION 10-5-10
REVISION	REVISION
REVISION	REVISION

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

LEFT-TURN BAY CLOSURE / DIVIDED UNCON.
EQL/LESS THAN 40 MPH

STANDARD NO. MD 104.04-14

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION FOR SIDEWALK CLOSURE
ALTERNATE PEDESTRIAN ROUTE USING ROADWAY LANE OR SHOULDER**











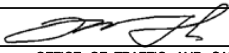

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 THROUGH MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 THROUGH MD 104.01-81

NOTES

1. A 5 FOOT MINIMUM WIDTH PEDESTRIAN PATH / ALTERNATE PEDESTRIAN PATH SHALL BE MAINTAINED WHERE POSSIBLE. WHERE A 5 FOOT MIN WIDTH CANNOT BE ACHIEVED, A MINIMUM WIDTH OF 36 INCHES SHALL BE PROVIDED WITH PASSING ZONES (60 IN X 60 IN) AT LEAST EVERY 200FT.
2. TEMPORARY RAMPS SHALL HAVE A SLOPE OF 12:1 MAX. THE PEDESTRIAN PATH AND RAMP SHALL BE CONSTRUCTED OF HOT MIX ASPHALT OR OTHER MATERIAL THAT CAN PROVIDE SMOOTH, HARD SURFACE & WILL MAINTAIN 12:1 SLOPE.
3. CHANNELIZING DEVICES SHALL BE TEMPORARY CONCRETE BARRIERS WITH THE ADDITION OF CONTINUOUS DETECTABLE EDGING.
4. THE CONTINUOUS DETECTABLE EDGINGS SHALL PROTRUDE AT LEAST 6 INCHES ABOVE THE PATHWAY WITH THE BOTTOM OF THE EDGING NO MORE THAN 1 1/2 INCHES ABOVE THE PATHWAY.
5. DETECTABLE BARRICADES SHALL EXTEND AT LEAST 36" ABOVE THE PATHWAY WITH THE BOTTOM OF THE BARRICADE NO MORE THAN 1 1/2 INCHES ABOVE THE PATHWAY, AND SHALL EXTEND THE FULL WIDTH OF THE CLOSURE
6. THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

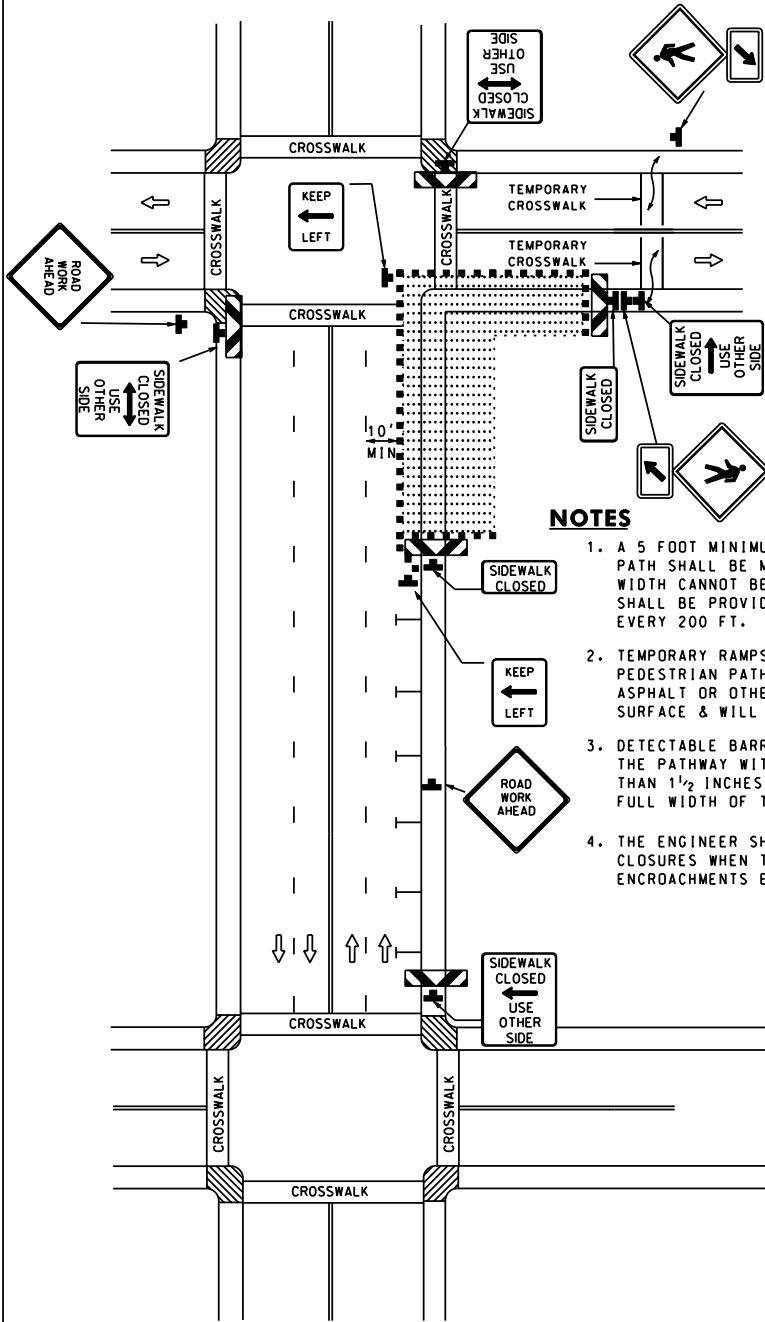
KEY:

-  SIGN
-  CHANNELIZING DEVICES WITH DETECTABLE EDGING
-  DETECTABLE BARRICADE
-  DIRECTION OF TRAFFIC
-  WORK SITE
-  PARKING SPACES / SHOULDER AREA
-  TEMPORARY RAMP (WITH DETECTABLE SURFACE WARNING)
-  EXISTING CURB RAMP

SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL 7-14-08
	REVISED 8-11-10
	REVISED
APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 7-3-08
	REVISED 7-29-10
	REVISED
	REVISED

**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
**PED AND CURB-LANE CONTROL/MULTILANE
UNDIV. SPEED LESS THAN OR EQUAL TO
40 MPH /OVER 12 HRS. OR NIGHTTIME USE**
STANDARD NO. MD 104.06-09A

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION
ALTERNATE PEDESTRIAN DETOUR ROUTE AT INTERSECTION**



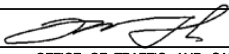

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 THROUGH MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 THROUGH MD 104.01-81

NOTES

1. A 5 FOOT MINIMUM WIDTH PEDESTRIAN PATH / ALTERNATE PEDESTRIAN PATH SHALL BE MAINTAINED WHERE POSSIBLE. WHERE A 5 FOOT MIN. WIDTH CANNOT BE ACHIEVED, A MINIMUM WIDTH OF 36 INCHES SHALL BE PROVIDED WITH PASSING ZONES (60 IN X 60 IN) AT LEAST EVERY 200 FT.
2. TEMPORARY RAMPS SHALL HAVE A SLOPE OF 12:1 MAX. THE PEDESTRIAN PATH AND RAMP SHALL BE CONSTRUCTED OF HOT MIX ASPHALT OR OTHER MATERIAL THAT CAN PROVIDE A SMOOTH, HARD SURFACE & WILL MAINTAIN 12:1 SLOPE.
3. DETECTABLE BARRICADES SHALL EXTEND AT LEAST 36" ABOVE THE PATHWAY WITH THE BOTTOM OF THE BARRICADE NO MORE THAN 1 1/2 INCHES ABOVE THE PATHWAY, AND SHALL EXTEND THE FULL WIDTH OF THE CLOSURE.
4. THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCRoACHMENTS EXISTS.

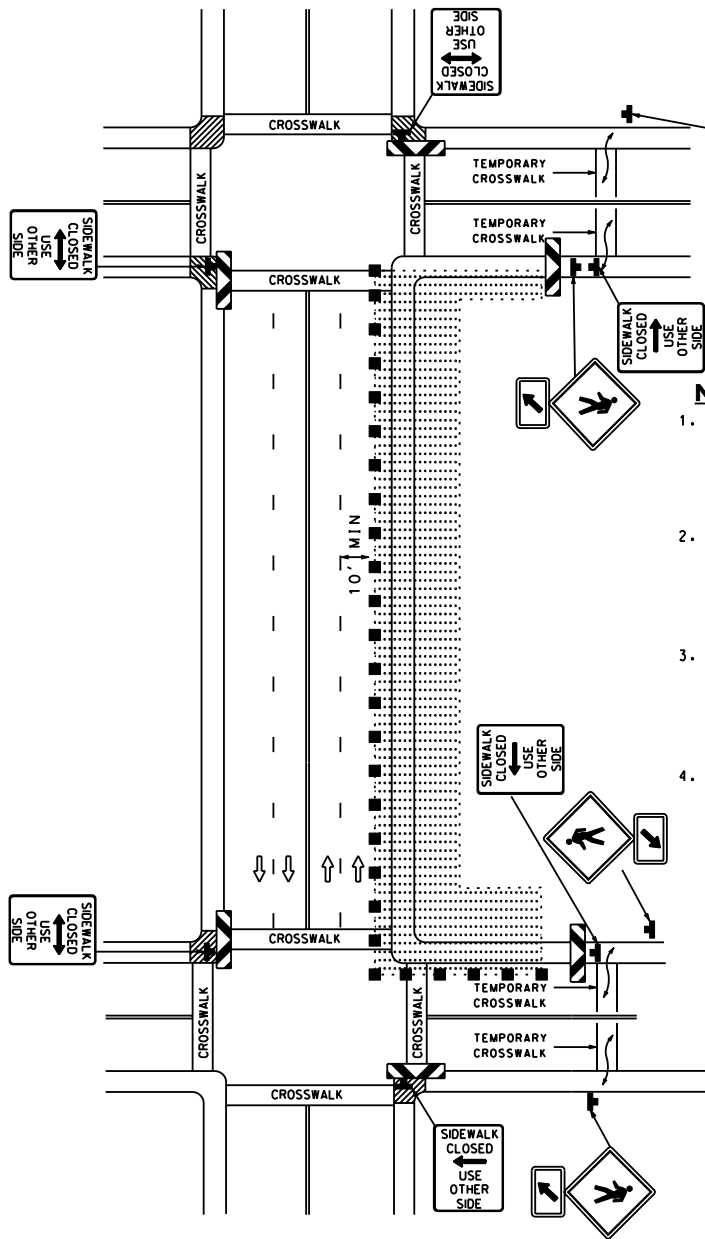
KEY:

- DIRECTION OF TRAFFIC
- WORK SITE
- TEMPORARY RAMP (WITH DETECTABLE SURFACE WARNING)
- SIGN
- DETECTABLE BARRICADE
- PARKING SPACES / SHOULDER AREA
- EXISTING CURB RAMPS
- CHANNELIZING DEVICES

SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-14-08
	APPROVAL 7-3-08
REVISED 8-11-10	REVISED 7-29-10
REVISED	REVISED
REVISED	REVISED

**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
**PED AND CURB-LANE CONTROL /MULTILANE
UNDIV. FOR SPEEDS GREATER THAN 40MPH /
OVER 12 HRS. OR NIGHTTIME USE**
STANDARD NO. MD 104.06-09B

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION FOR SIDEWALK CLOSURE
ALTERNATE PEDESTRIAN DETOUR ROUTE FOR FULL BLOCK CLOSURE**



IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 THROUGH MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 THROUGH MD 104.01-81

NOTES

1. A 5 FOOT MINIMUM WIDTH PEDESTRIAN PATH / ALTERNATE PEDESTRIAN PATH SHALL BE MAINTAINED WHERE POSSIBLE. WHERE A 5 FOOT MINIMUM WIDTH CANNOT BE ACHIEVED, A MINIMUM WIDTH OF 36 INCHES SHALL BE PROVIDED WITH PASSING ZONES (60 IN X 60 IN) AT LEAST EVERY 200FT.
2. TEMPORARY RAMPS SHALL HAVE A SLOPE OF 12:1 MAX. PEDESTRIAN PATH AND RAMP SHALL BE CONSTRUCTED OF HOT MIX ASPHALT OR OTHER MATERIAL THAT CAN PROVIDE A SMOOTH, HARD SURFACE & WILL MAINTAIN 12:1 SLOPE.
3. DETECTABLE BARRICADES SHALL EXTEND AT LEAST 36" ABOVE THE PATHWAY WITH THE BOTTOM OF THE BARRICADE NO MORE THAN 1 1/2 INCHES ABOVE THE PATHWAY, AND SHALL EXTEND THE FULL WIDTH OF THE CLOSURE.
4. THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCRoACHMENTS EXISTS.

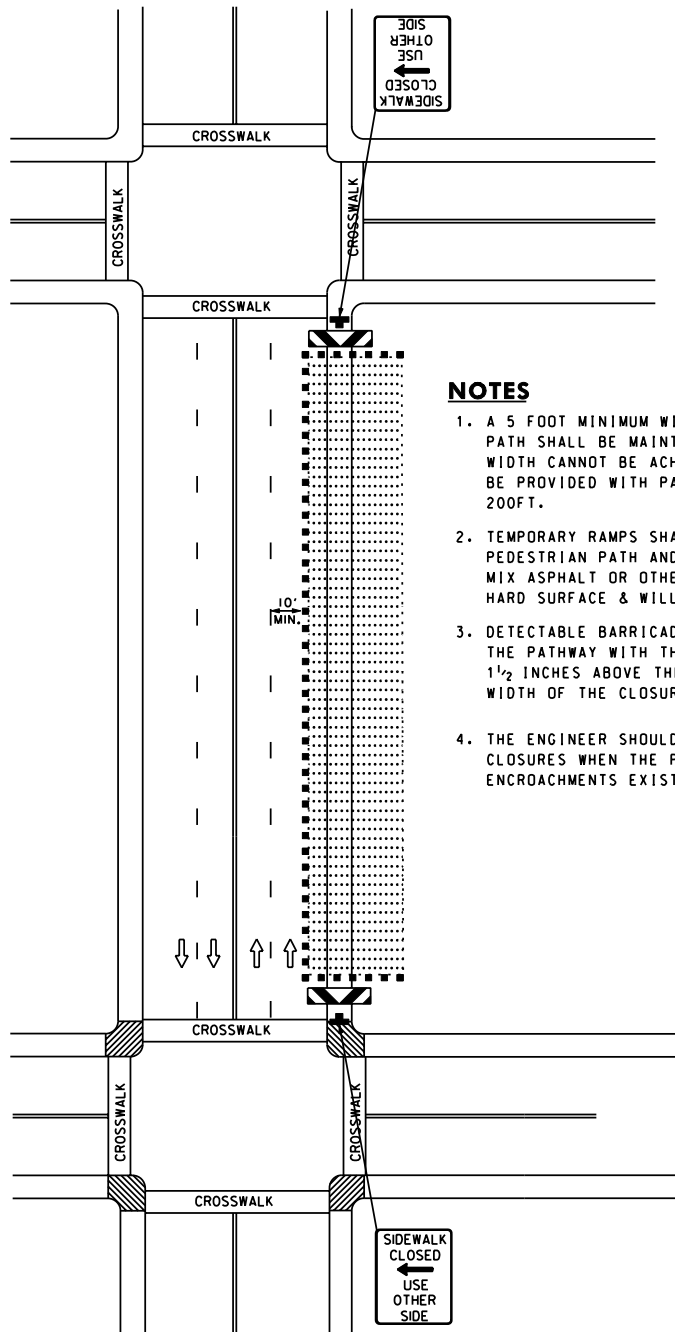
KEY:

- SIGN
- DIRECTION OF TRAFFIC
- WORK SITE
- TEMPORARY RAMP (WITH DETECTABLE SURFACE WARNING)
- DETECTABLE BARRICADE
- EXISTING CURB RAMPS
- CHANNELIZING DEVICES

SPECIFICATION 104	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
 State Highway Administration	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-14-08
	APPROVAL 7-3-08
REVISED 8-11-10	REVISED 7-29-10
REVISED	REVISED
REVISED	REVISED

**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
**PED AND CURB-LANE CONTROL/MULTILANE
UNDIV. SPEED LESS THAN OR EQUAL TO
40 MPH /OVER 12 HRS. OR NIGHTTIME USE**
STANDARD NO. MD-104.06-09C

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION
ALTERNATE PEDESTRIAN DETOUR ROUTE USING OPPOSITE SIDEWALK**









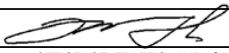

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 THROUGH MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-81

NOTES

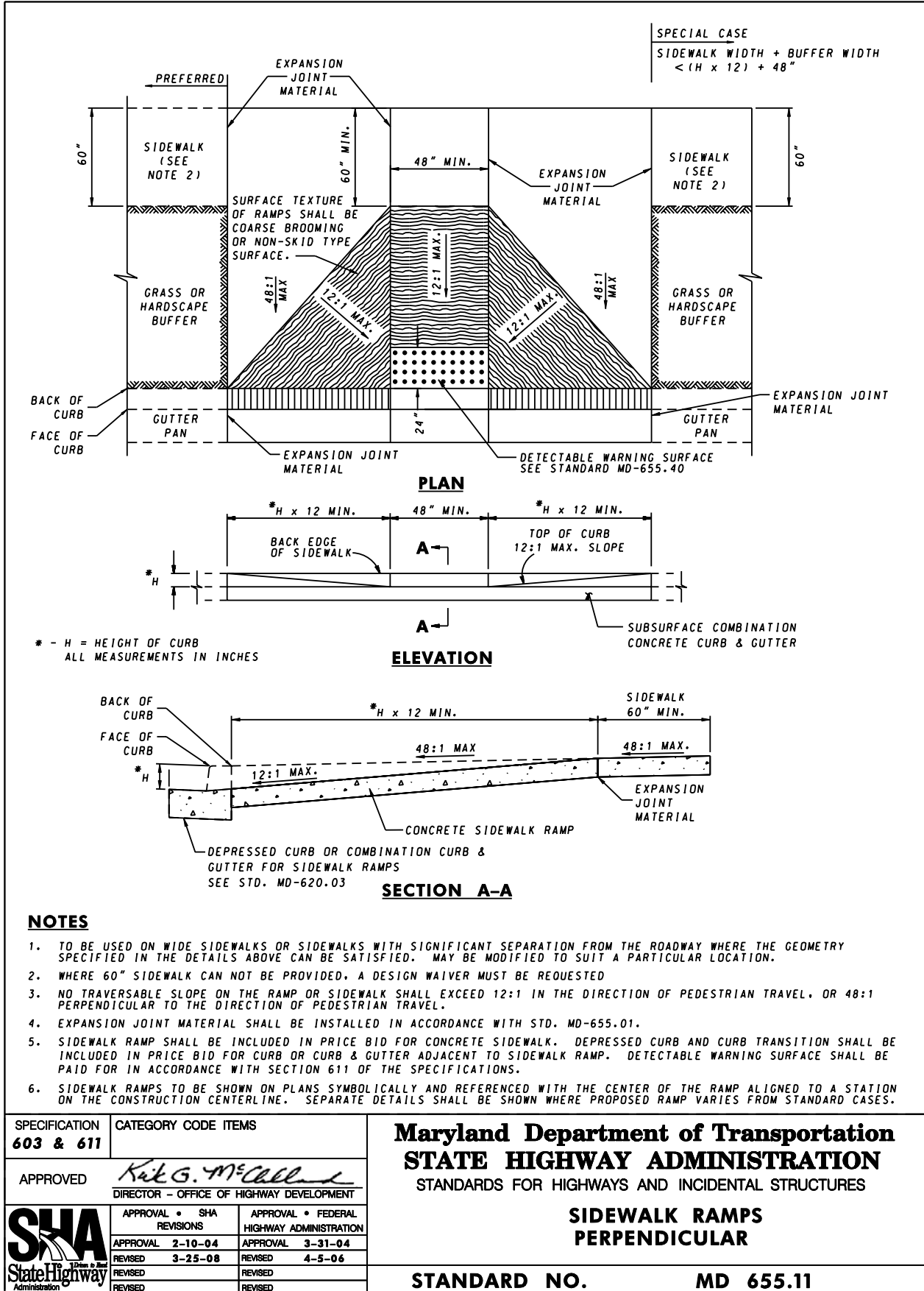
1. A 5 FOOT MINIMUM WIDTH PEDESTRIAN PATH / ALTERNATE PEDESTRIAN PATH SHALL BE MAINTAINED WHERE POSSIBLE. WHERE A 5 FOOT MINIMUM WIDTH CANNOT BE ACHIEVED, A MINIMUM WIDTH OF 36 INCHES SHALL BE PROVIDED WITH PASSING ZONES (60 IN X 60 IN) AT LEAST EVERY 200FT.
2. TEMPORARY RAMPS SHALL HAVE A SLOPE OF 12:1 MAX. THE PEDESTRIAN PATH AND RAMP SHALL BE CONSTRUCTED OF HOT MIX ASPHALT OR OTHER MATERIAL THAT CAN PROVIDE A SMOOTH, HARD SURFACE & WILL MAINTAIN 12:1 SLOPE.
3. DETECTABLE BARRICADES SHALL EXTEND AT LEAST 36" ABOVE THE PATHWAY WITH THE BOTTOM OF THE BARRICADE NO MORE THAN 1 1/2 INCHES ABOVE THE PATHWAY. AND SHALL EXTEND THE FULL WIDTH OF THE CLOSURE.
4. THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY ENCROACHMENTS EXISTS.

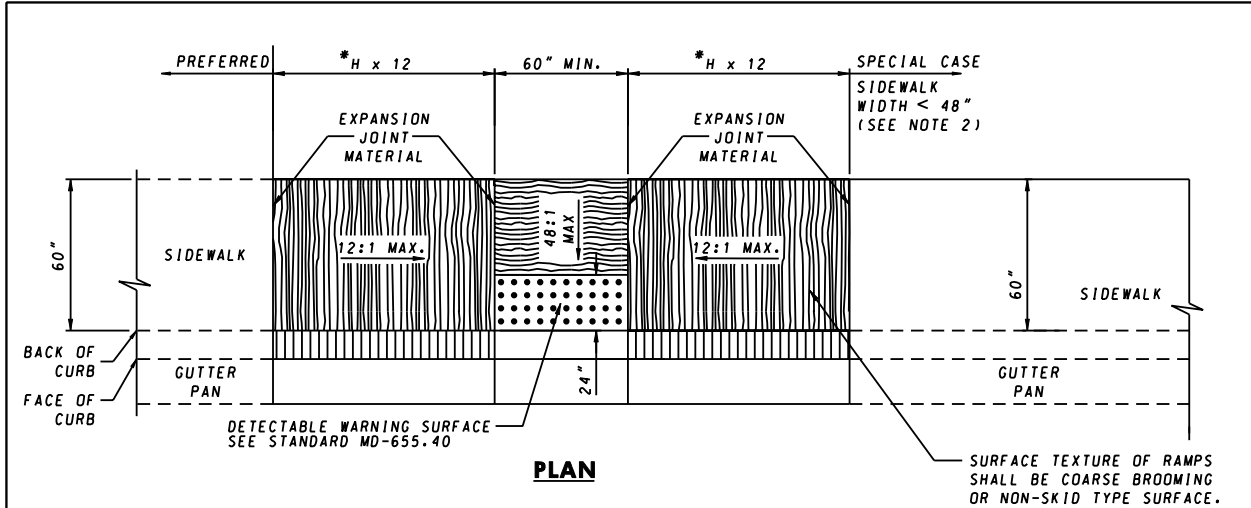
KEY:

-  DIRECTION OF TRAFFIC
-  WORK SITE
-  SIGN
-  DETECTABLE BARRICADE
-  EXISTING CURB RAMPS
-  CHANNELIZING DEVICES

SPECIFICATION 104	CATEGORY CODE ITEMS	
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-14-08	APPROVAL 7-3-08
	REVISED 8-11-10	REVISED 7-29-10
	REVISED	REVISED
	REVISED	REVISED

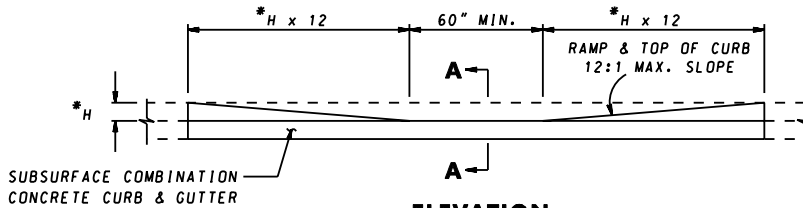
**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
**PED AND CURB-LANE CONTROL /MULTILANE
UNDIV. FOR SPEEDS GREATER THAN 40MPH /
OVER 12 HRS. OR NIGHTTIME USE**
STANDARD NO. **MD 104.06-09D**





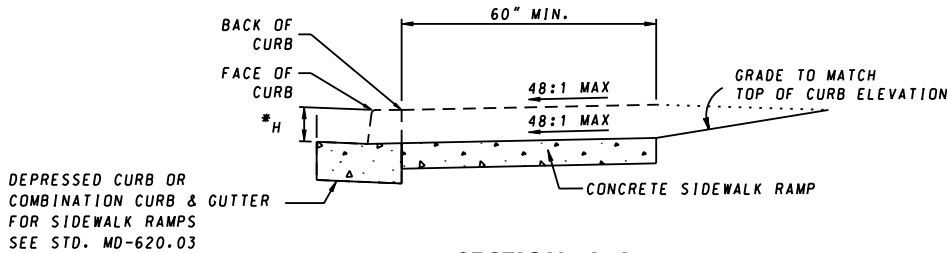
PLAN

SURFACE TEXTURE OF RAMPS SHALL BE COARSE BROOMING OR NON-SKID TYPE SURFACE.



ELEVATION

* - H = HEIGHT OF CURB
ALL MEASUREMENTS IN INCHES

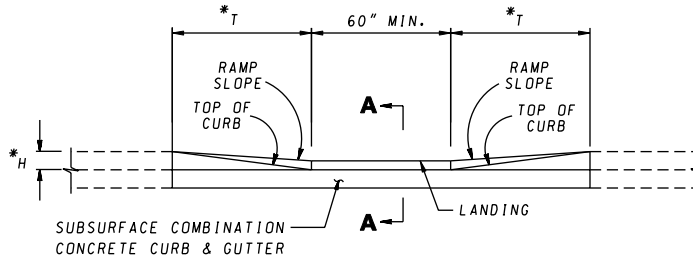
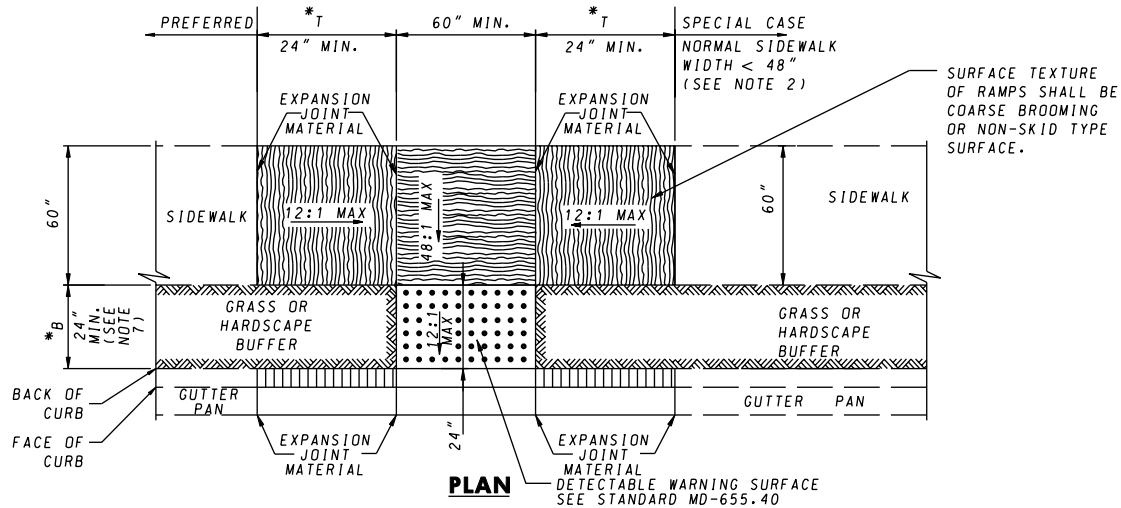


SECTION A-A

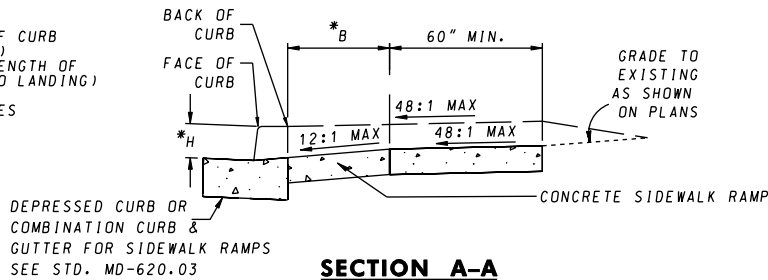
NOTES

1. TO BE USED WHERE SIDEWALK IS ADJACENT TO THE CURB. THIS STANDARD MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
2. WHERE 60" SIDEWALK CAN NOT BE PROVIDED, A DESIGN WAIVER MUST BE REQUESTED.
3. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
4. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
5. SIDEWALK RAMP SHALL BE INCLUDED IN PRICE BID FOR CONCRETE SIDEWALK. DEPRESSED CURB AND CURB TRANSITION SHALL BE INCLUDED IN PRICE BID FOR CURB OR CURB & GUTTER ADJACENT TO SIDEWALK RAMP. DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.
6. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.

SPECIFICATION 603 & 611	CATEGORY CODE ITEMS	<p>Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES</p> <p>SIDEWALK RAMPS PARALLEL</p> <p>STANDARD NO. MD 655.12</p>
APPROVED	 DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT	
	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 2-10-04	APPROVAL 3-31-04
	REVISED 3-25-08	REVISED 4-5-06
	REVISED	REVISED




* - H = HEIGHT OF CURB
 B = BUFFER WIDTH (BACK OF CURB TO FRONT OF SIDEWALK)
 T = TRANSITION LENGTH (LENGTH OF RAMP FROM SIDEWALK TO LANDING)
 $T = (12 \times H) - B$
 ALL MEASUREMENTS IN INCHES



NOTES

1. TO BE USED WHERE AT LEAST 7'-0" EXISTS BETWEEN THE BACK OF CURB AND THE BACK OF SIDEWALK. THIS STANDARD MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
2. WHERE 60" SIDEWALK CAN NOT BE PROVIDED, A DESIGN WAIVER MUST BE REQUESTED.
3. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
4. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
5. SIDEWALK RAMP SHALL BE INCLUDED IN PRICE BID FOR CONCRETE SIDEWALK. DEPRESSED CURB AND CURB TRANSITION SHALL BE INCLUDED IN PRICE BID FOR CURB OR CURB & GUTTER ADJACENT TO SIDEWALK RAMP. DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.
6. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.
7. FOR BUFFER WIDTHS LESS THAN 24", WIDEN SIDEWALK TO BACK OF CURB AS SHOWN FOR THE SPECIAL CASE, THEN BUILD PARALLEL RAMP USING STANDARD MD-655.12.

SPECIFICATION 603 & 611	CATEGORY CODE ITEMS
APPROVED	<i>Kirk G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
	APPROVAL • SHA REVISIONS
	APPROVAL 2-10-04
	REVISED 8-25-08
	REVISED
APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL 3-31-04	
REVISED 4-5-06	
REVISED	
REVISED	

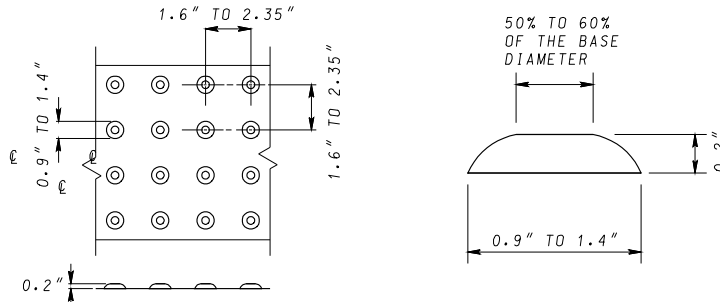
Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SIDEWALK RAMPS COMBINATION

STANDARD NO. MD 655.13

MAT DETAILS

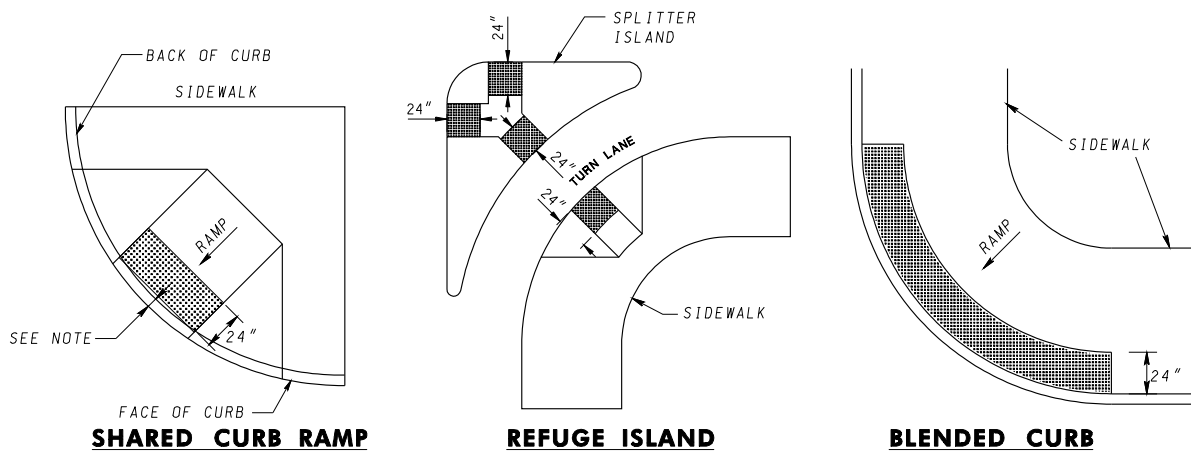
SEE PLACEMENT GUIDELINES BELOW



DOME SPACING

DOME SECTION

PLACEMENT GUIDELINES



SHARED CURB RAMP


REFUGE ISLAND

BLENDED CURB

WHERE ISLANDS OR MEDIANS ARE LESS THAN 6 FEET WIDE, THE DETECTABLE WARNING SHOULD EXTEND ACROSS THE FULL LENGTH OF THE CUT THROUGH THE ISLAND OR MEDIAN

NOTES

1. THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 TO 8 INCHES FROM THE FACE OF CURB.
2. FOR SKEWED APPLICATIONS DETECTABLE WARNING SHALL BE PLACED SUCH THAT THE DOMES CLOSEST TO THE BACK OF CURB ARE NO LESS THAN 0.5" AND NO MORE THAN 3.0" FROM THE BACK OF CURB. TRUNCATED DOME SURFACES SHALL BE FABRICATED TO PROVIDE FULL DOMES ONLY.
3. DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.
4. DETECTABLE WARNING SURFACES ARE REQUIRED AT STREET CROSSING & SIGNALIZED INTERSECTIONS.

SPECIFICATION 611	CATEGORY CODE ITEMS
APPROVED	<i>Kirk G. McCallum</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
	APPROVAL • SHA REVISIONS
	APPROVAL 2-10-04
	REVISED 3-15-06
	REVISED
	REVISED
APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL 3-31-04	
REVISED 4-5-06	
REVISED	
REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

DETECTABLE WARNING SURFACES

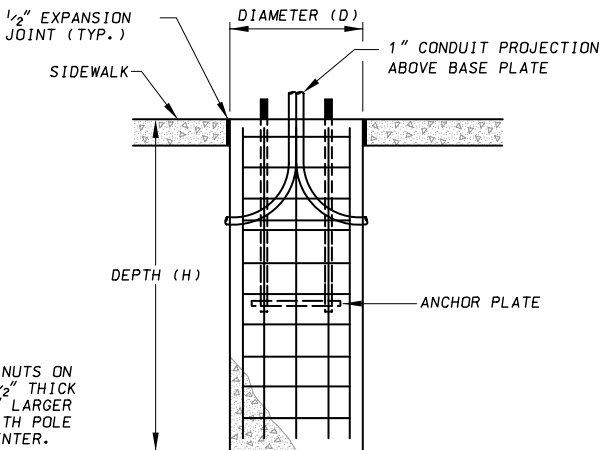
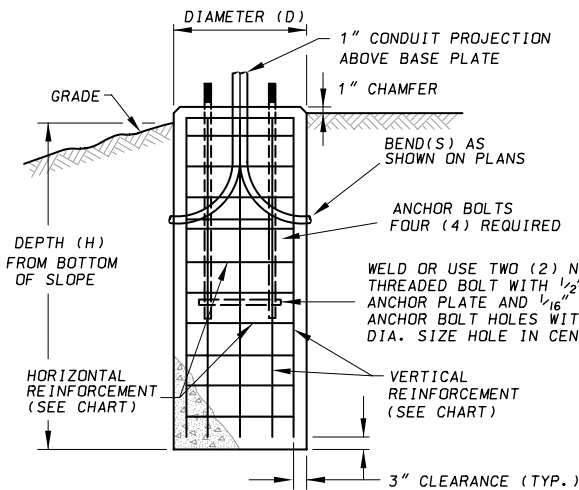
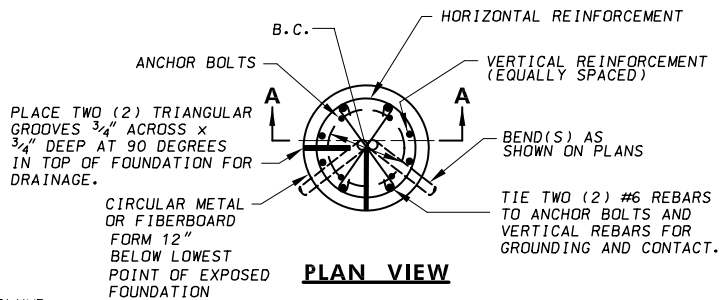
STANDARD NO.

MD 655.40

POLE TYPE	ARM LENGTH OR POLE SIZE	BOLT CIRCLE (IN.)	ANCHOR BOLT SIZE (IN. x IN.)	ANCHOR BOLT MAX. PROJECTION ABOVE FOUNDATION (IN.)	FOUNDATION REINFORCEMENT				CONCRETE REQUIRED (C.Y.)
					DIAMETER 'D' (FT.)	HEIGHT 'H' (FT.)	VERTICAL REINF.	HORIZONTAL REINF.	
PEDESTAL FOR PUSHBUTTON AND PED. SIGNAL *	5' - 10'	8	SEE NOTE 7	FEMALE ANCHOR FOR COUPLING (SEE NOTE 7)	1 1/2	3	6 NO. 6	ND. 3@12"C.C.	0.2
PEDESTAL	10' / 14' / 20'	11	1 x 36	3 1/4	2	6	6 NO. 8	ND. 3@12"C.C.	0.7
STRAIN	12" DIA. x 30'	16	1 3/4 x 66	7 1/2	3	10	8 NO. 10	ND. 4@12"C.C.	2.7
	12" DIA. x 32'	22	2 1/4 x 72	8 1/2	4	10	16 NO. 10	ND. 4@12"C.C.	4.7
	14" DIA. x 32'	22	2 1/4 x 72	8 1/2	4	10	16 NO. 10	ND. 4@12"C.C.	4.7
MAST ARM	38' SINGLE	16	1 1/2 x 54	6 1/2	3	10	8 NO. 10	ND. 4@12"C.C.	2.7
	50' SINGLE AND TWIN	18	1 3/4 x 66	7 1/2	3	10	8 NO. 10	ND. 4@12"C.C.	2.7
	60' & 70' SINGLE	22	2 x 72	8	4	10	16 NO. 10	ND. 4@12"C.C.	4.7
	50' / 60' - 70' TWIN	22	2 x 72	8	4	10	16 NO. 10	ND. 4@12"C.C.	4.7


NOTES:

- MAST ARM POLE FOUNDATIONS SHALL PROJECT ABOVE GRADE TO PROVIDE MAST ARM TO ROADWAY CLEARANCE OF 18' - 20' FULLY LOADED.
- ALL EXPOSED FOUNDATION FACES SHALL BE FINISHED SMOOTH.
- GROUT SHALL NOT BE INSTALLED BETWEEN THE BASE PLATE AND THE TOP OF THE FOUNDATION.
- REFER TO STRAIN POLE, MAST ARM POLE, AND PEDESTAL POLE STANDARD PLATES FOR BOLT CIRCLE AND ANCHOR BOLT DETAILS.
- 1/4" THICK STEEL TEMPLATE PLATE WITH 1/16" LARGER ANCHOR BOLT HOLE SHALL BE USED FOR INSTALLATION.
- ANCHOR BOLTS OR FEMALE ANCHORS SHALL BE PLUMB.
- PEDESTAL FOR PUSHBUTTON AND PEDESTRIAN SIGNAL SHALL USE BREAKAWAY COUPLINGS AND FEMALE ANCHORS.
- * SHALLOW 1 1/2' x 3' PEDESTAL FOUNDATION SHALL ONLY BE USED WHERE SITE CONSTRAINTS PREVENT USE OF STANDARD 2' x 6' PEDESTAL FOUNDATION.



**SECTION A-A
NON-SIDEWALK AREA**

**SECTION A-A
SIDEWALK AREA**

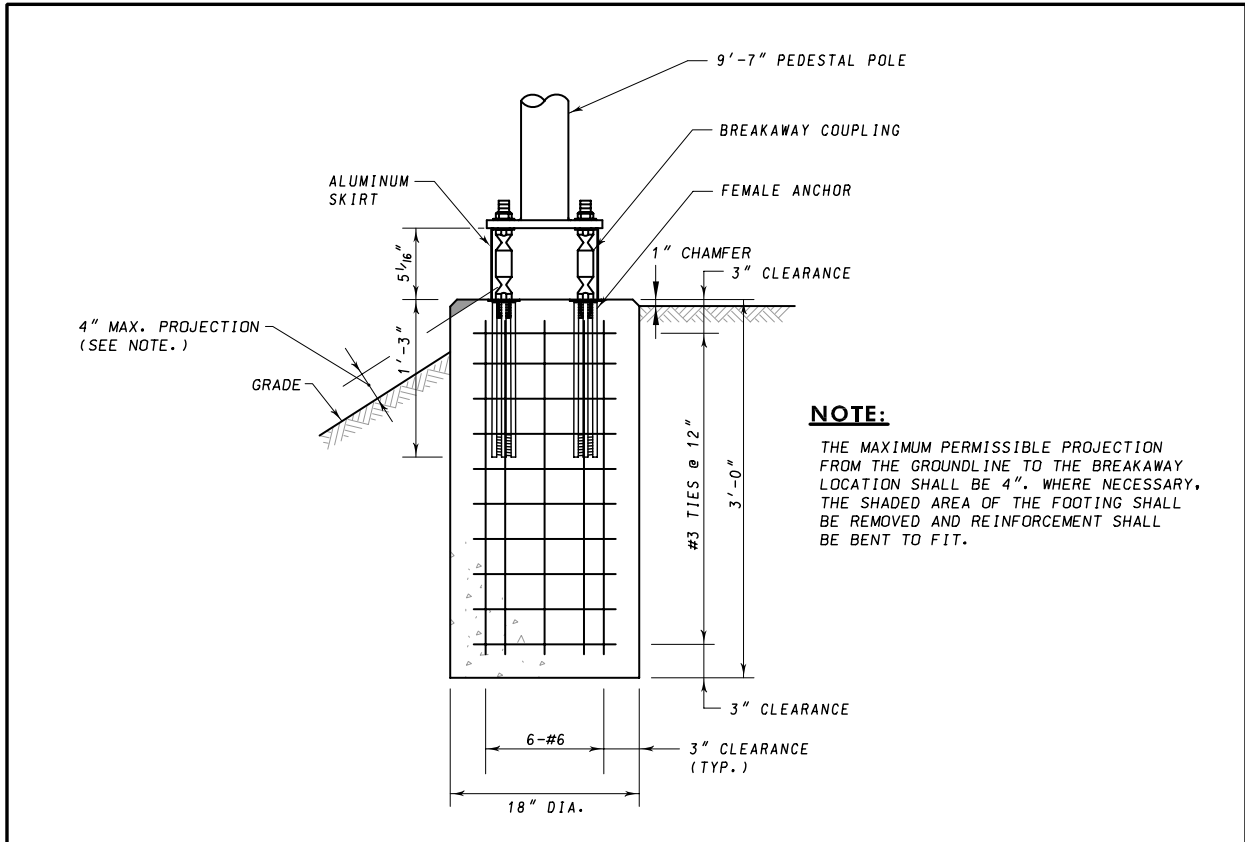
SPECIFICATION 801	CATEGORY CODE ITEMS
APPROVED	<i>[Signature]</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-1-94
	REVISION 5-17-07

**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

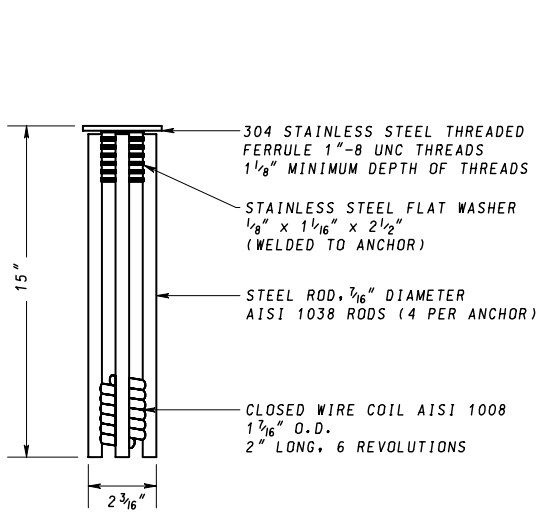
SIGNAL STRUCTURE FOUNDATIONS

STANDARD NO. MD 801.01

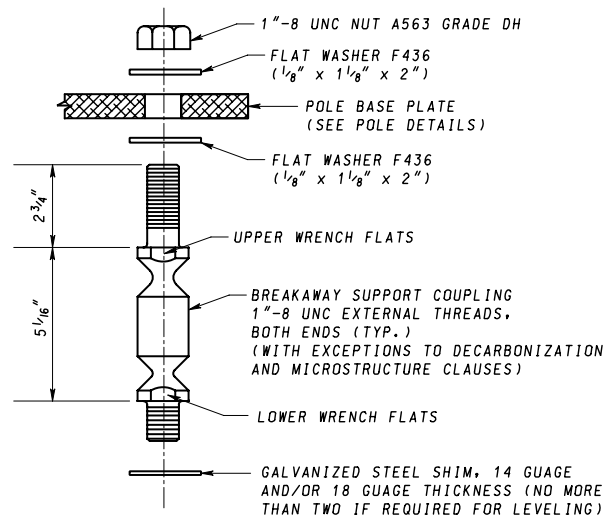
REFERENCED ON: MD 818.01, MD 821.01



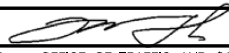

FOUNDATION DETAIL



FEMALE ANCHOR DETAIL

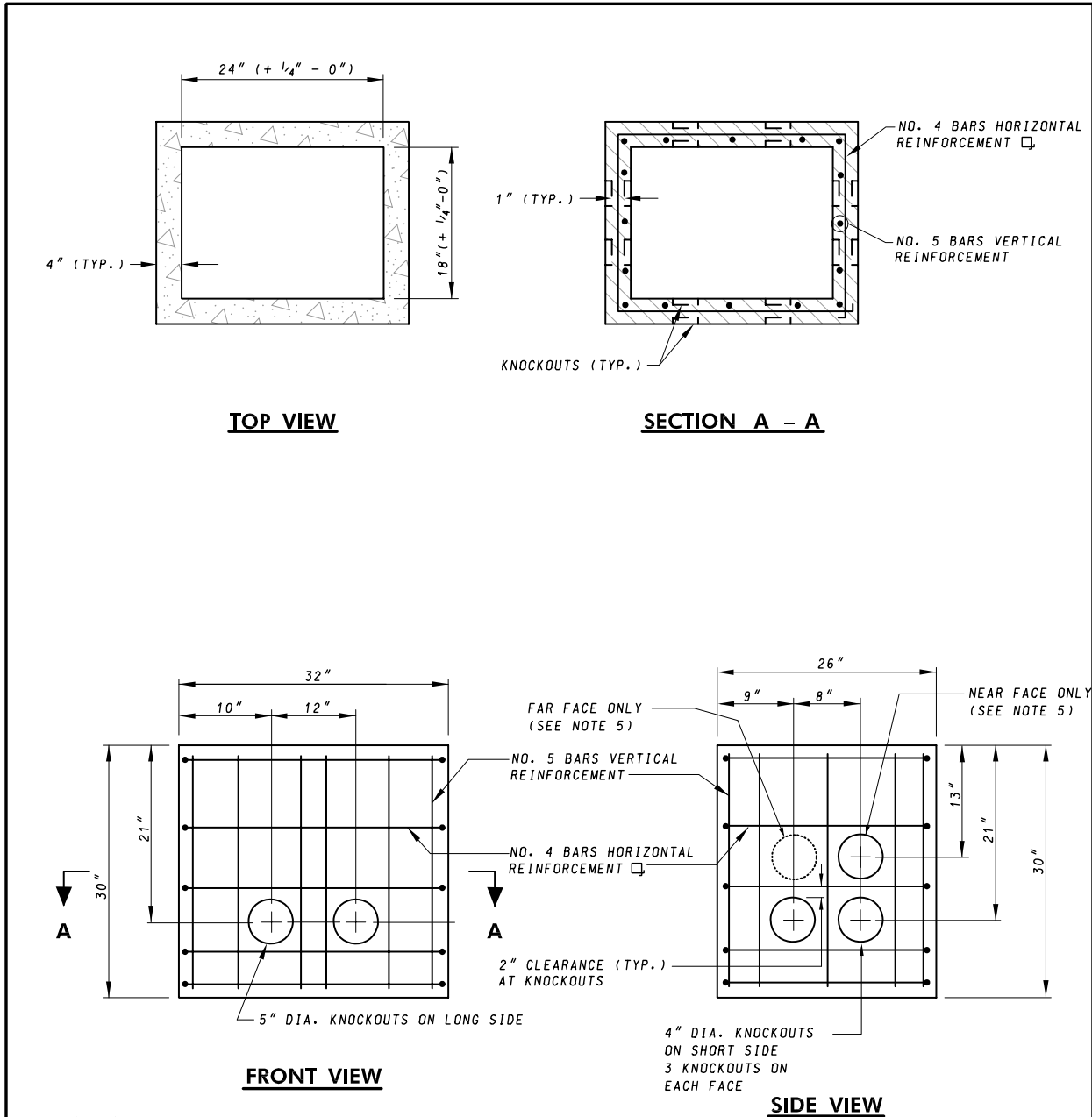


BREAKAWAY COUPLING DETAIL

SPECIFICATION 818	CATEGORY CODE ITEMS										
APPROVED											
DIRECTOR - OFFICE OF TRAFFIC AND SAFETY											
	<table border="1"> <tr> <td>APPROVAL • SHA REVISIONS</td> <td>APPROVAL • FEDERAL HIGHWAY ADMINISTRATION</td> </tr> <tr> <td>APPROVAL 5-17-07</td> <td>APPROVAL 5-2-07</td> </tr> <tr> <td>REVISED</td> <td>REVISED</td> </tr> <tr> <td>REVISED</td> <td>REVISED</td> </tr> <tr> <td>REVISED</td> <td>REVISED</td> </tr> </table>	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 5-17-07	APPROVAL 5-2-07	REVISED	REVISED	REVISED	REVISED	REVISED	REVISED
APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION										
APPROVAL 5-17-07	APPROVAL 5-2-07										
REVISED	REVISED										
REVISED	REVISED										
REVISED	REVISED										

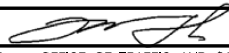

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES SIGNAL STRUCTURE FOUNDATIONS FOR PUSHBUTTON AND PEDESTRIAN SIGNAL POLE	
STANDARD NO.	MD 801.01-01

REFERENCED ON: MD 818.16-01



NOTES:

1. HANDHOLE CONCRETE SHALL BE MIX NO. 6.
2. ALL SPALLS AND VOIDS SHALL BE PATCHED.
3. ALL REINFORCEMENT SHALL BE CENTERED IN THE FORM WALLS PRIOR TO THE CONCRETE PLACEMENT.
4. CLEARANCE 1" MIN. FROM SIDE WALLS TO REINFORCEMENT.
5. TO BE USED FOR NON-INVASIVE PROBE INSTALLATION ONLY.

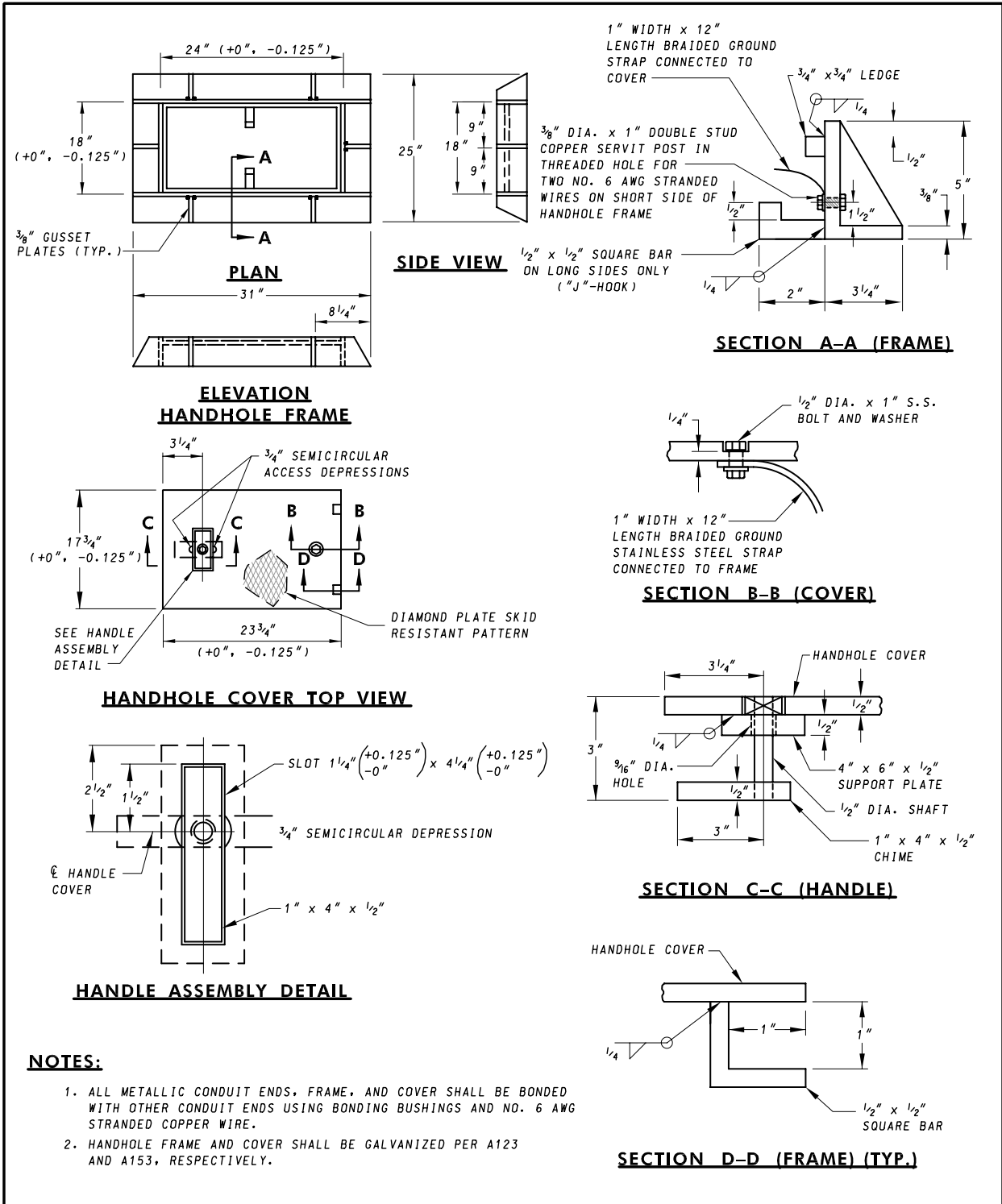
SPECIFICATION 811	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-1-94
	REVISSED 5-17-07
	REVISSED


Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

HANDHOLE (MATERIALS DETAIL)

STANDARD NO.

MD 811.01

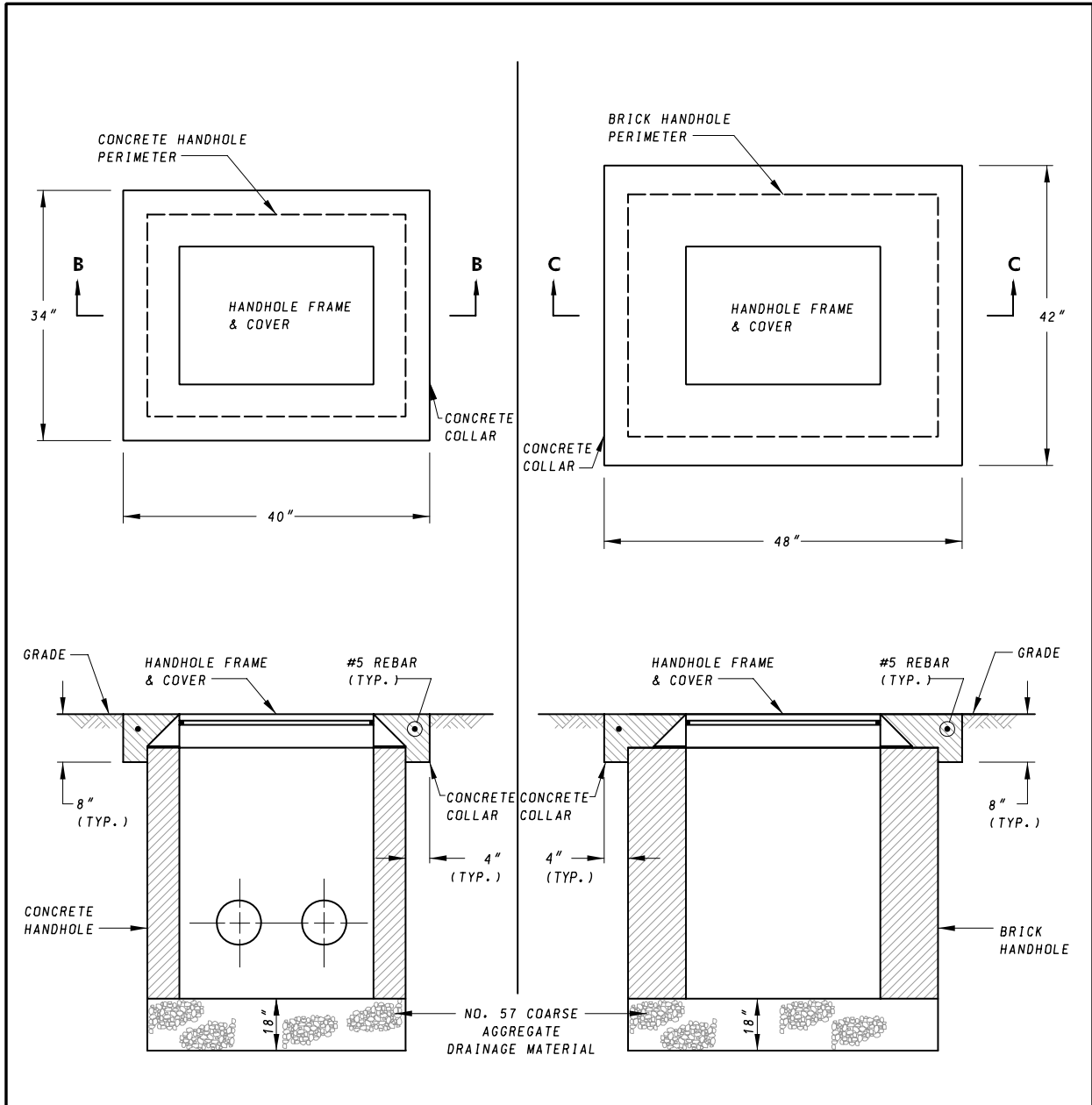


SPECIFICATION 811	CATEGORY CODE ITEMS
APPROVED	<i>[Signature]</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 7-1-94
	REVISIED 5-17-07

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

HANDHOLE FRAME AND COVER

STANDARD NO. MD 811.02

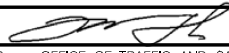



**TRAFFIC SIGNAL HANDHOLE
INSTALLATION DETAIL
SECTION B-B**

**ALTERNATE TRAFFIC SIGNAL
HANDHOLE INSTALLATION DETAIL
SECTION C-C**

NOTE:

CONCRETE COLLAR SHALL NOT BE INSTALLED IN SIDEWALK AREA.

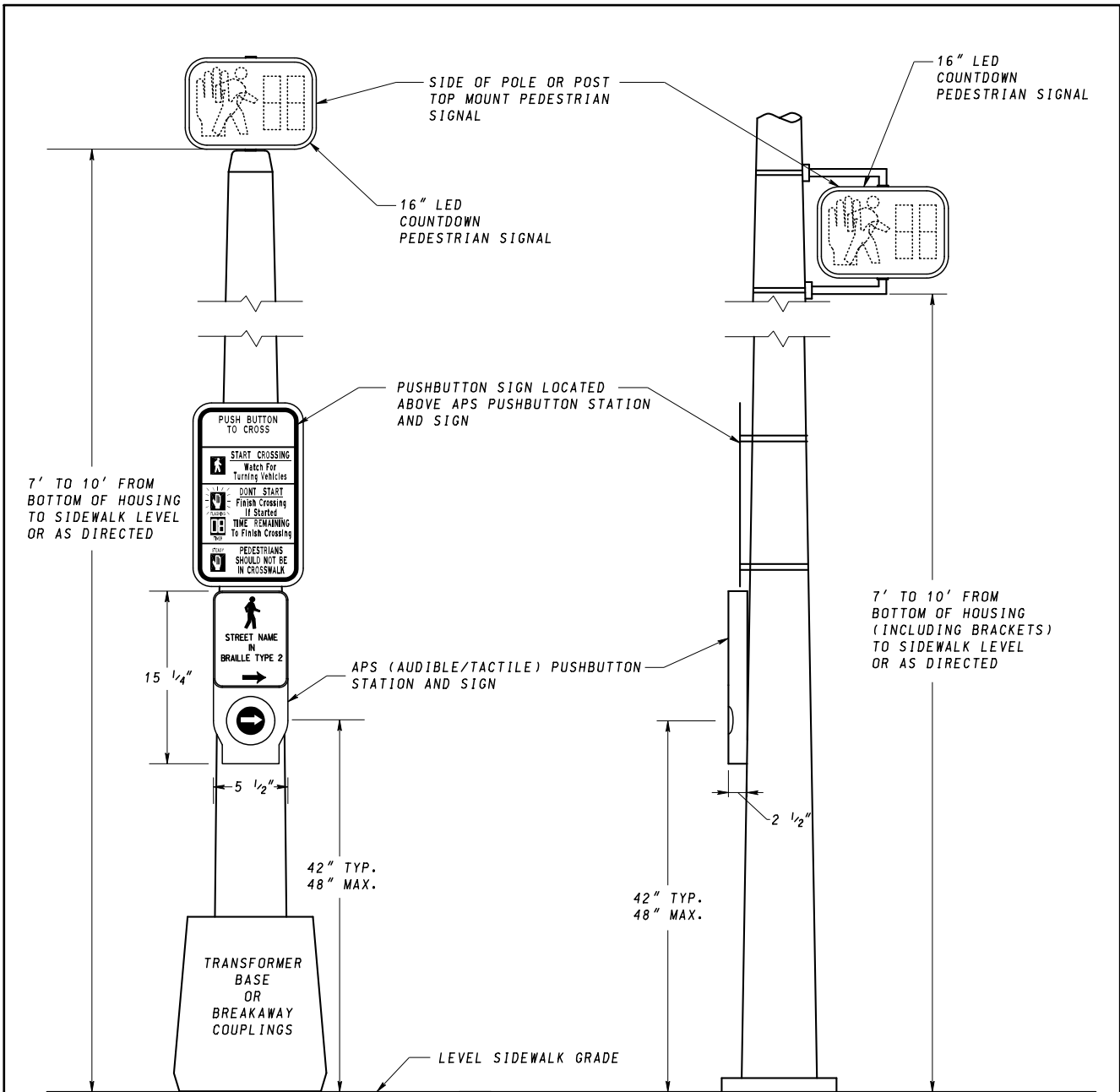
SPECIFICATION 811	CATEGORY CODE ITEMS
APPROVED	
DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
	APPROVAL • SHA
	REVISIONS
	APPROVAL 7-1-94
	REVISED 5-17-07
	REVISED
APPROVAL • FEDERAL	HIGHWAY ADMINISTRATION
APPROVAL 7-1-94	REVISED 5-2-07
REVISED	REVISED
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

HANDHOLE INSTALLATION

STANDARD NO.

MD 811.03




PEDESTAL POLE

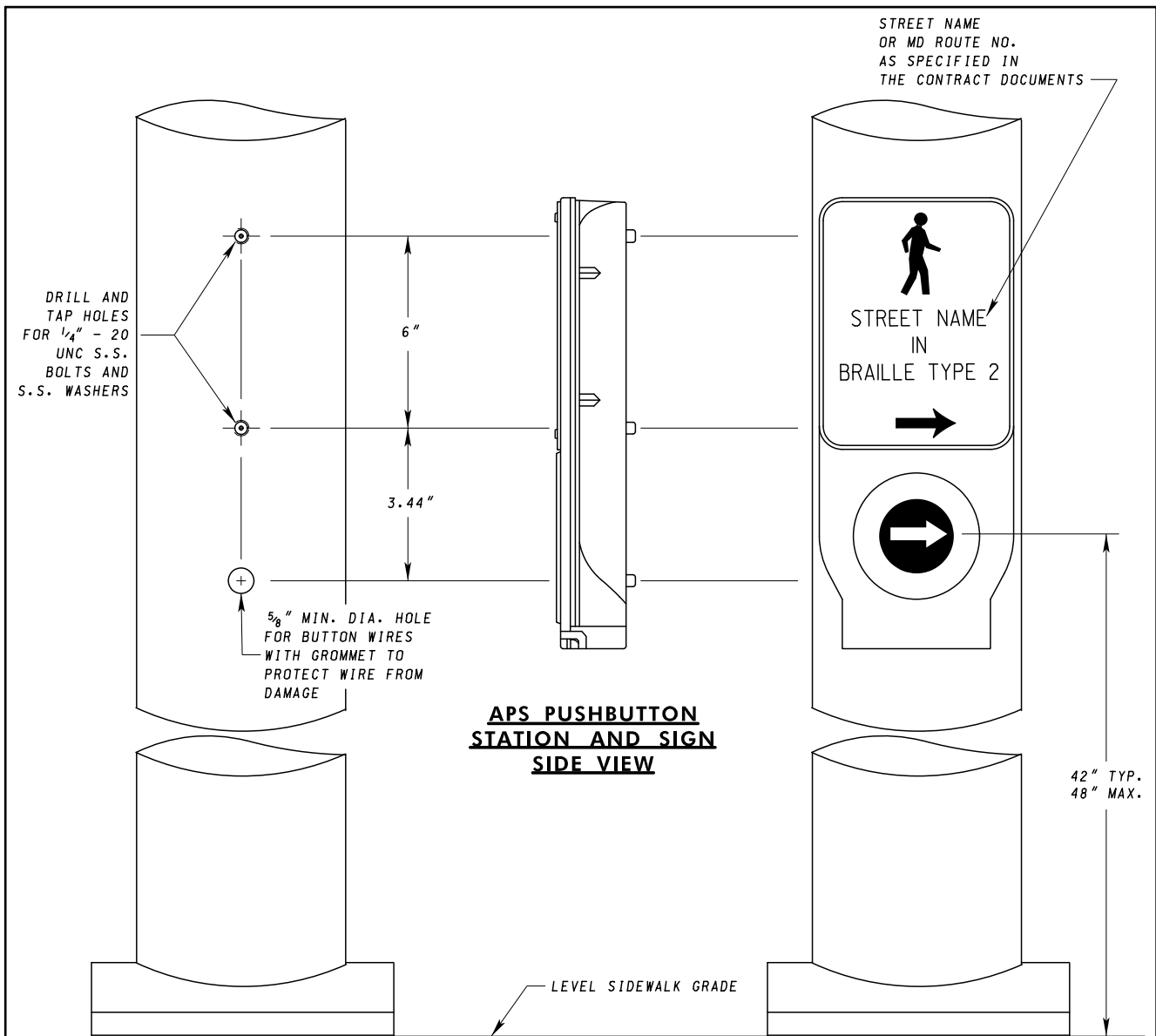
SIGNAL POLE

NOTES:

1. PUSHBUTTON SIGN SHALL BE MOUNTED DIRECTLY ABOVE APS UNIT.
2. WHEN CUTTING IS REQUIRED, CONTRACTOR SHALL CONFIRM PROPER HEIGHT OF PEDESTAL IS MAINTAINED PRIOR TO CUTTING POLE.
3. REFER TO POLE MOUNTING FOR PEDESTRIAN SIGNAL HEADS STANDARD PLATES FOR DETAILS.
4. APS PUSHBUTTON STATION AND SIGN DIMENSIONS ARE APPROXIMATE.

SPECIFICATION 817	CATEGORY CODE ITEMS
APPROVED	<i>Cedric Ward</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
APPROVAL SHA REVISIONS	APPROVAL FEDERAL HIGHWAY ADMINISTRATION
APPROVAL 9-25-07	APPROVAL 9-18-07
REVISED 4-16-19	REVISED 3-25-19
REVISED	REVISED
REVISED	REVISED

 MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
**ACCESSIBLE PEDESTRIAN SIGNAL (APS)
 PUSHBUTTON LOCATION ON POLE**
STANDARD NO. MD 817.01



**APS PUSHBUTTON
STATION AND SIGN
TEMPLATE**

**APS PUSHBUTTON
STATION AND SIGN
ASSEMBLY**

NOTES:

1. PUSH BUTTON ASSEMBLY SHALL BE SECURED TO WOOD POLES WITH 2 1/2" LAG BOLTS.
2. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MDMUTCD AND THE LATEST NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: A GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
3. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. BY 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
4. THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON. NOT CENTER OF POLE TO CENTER OF POLE.
5. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

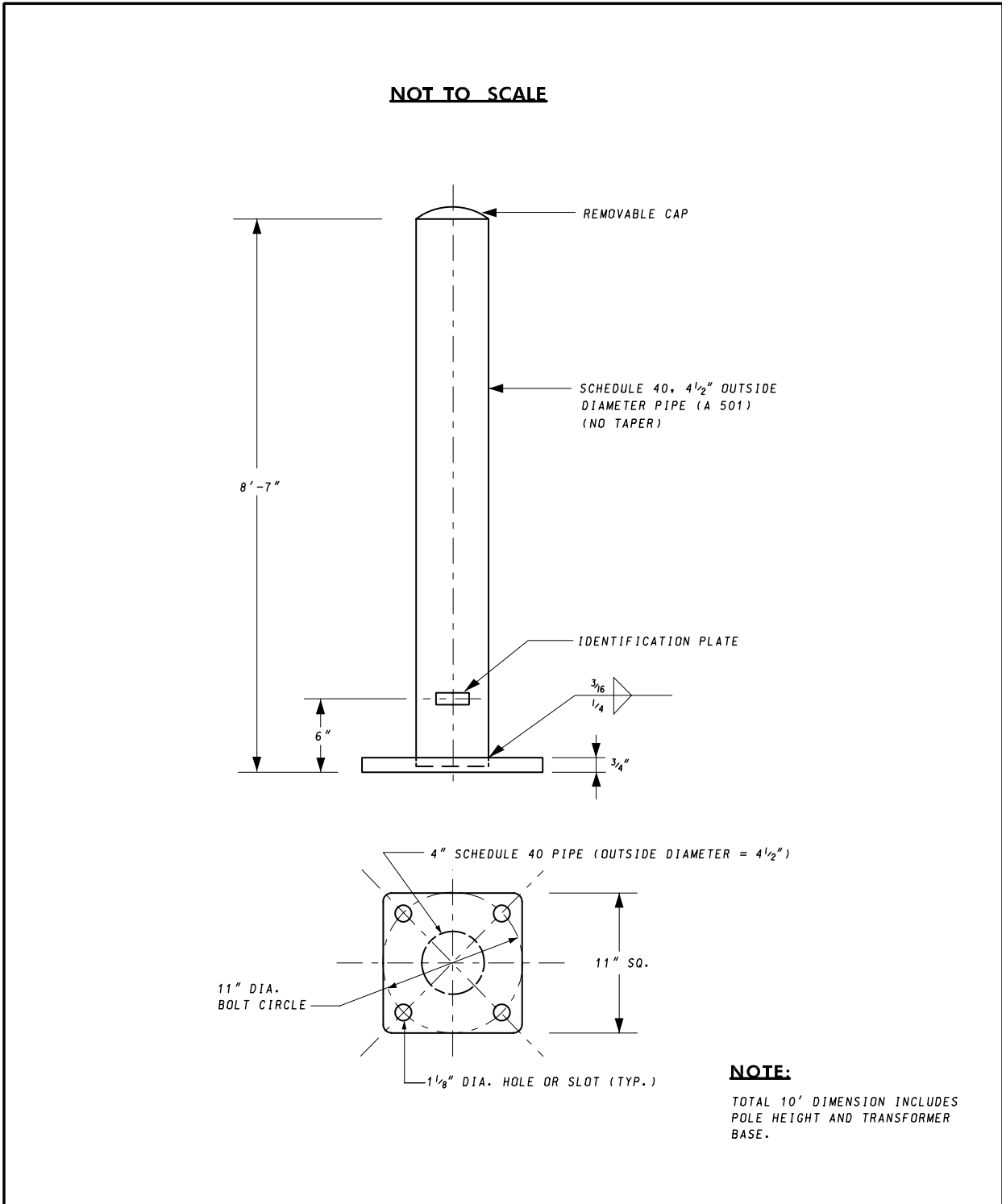
SPECIFICATION 817	CATEGORY CODE ITEMS
APPROVED	<i>Cedric Wald</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
APPROVAL SHA REVISIONS	APPROVAL FEDERAL HIGHWAY ADMINISTRATION
APPROVAL 10-10-00	APPROVAL 2-1-01
REVISED 5-17-07	REVISED 5-2-07
REVISED 4-16-19	REVISED 3-25-19
REVISED	REVISED

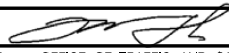

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

PEDESTRIAN PUSH BUTTON ASSEMBLY

STANDARD NO. MD 817.02



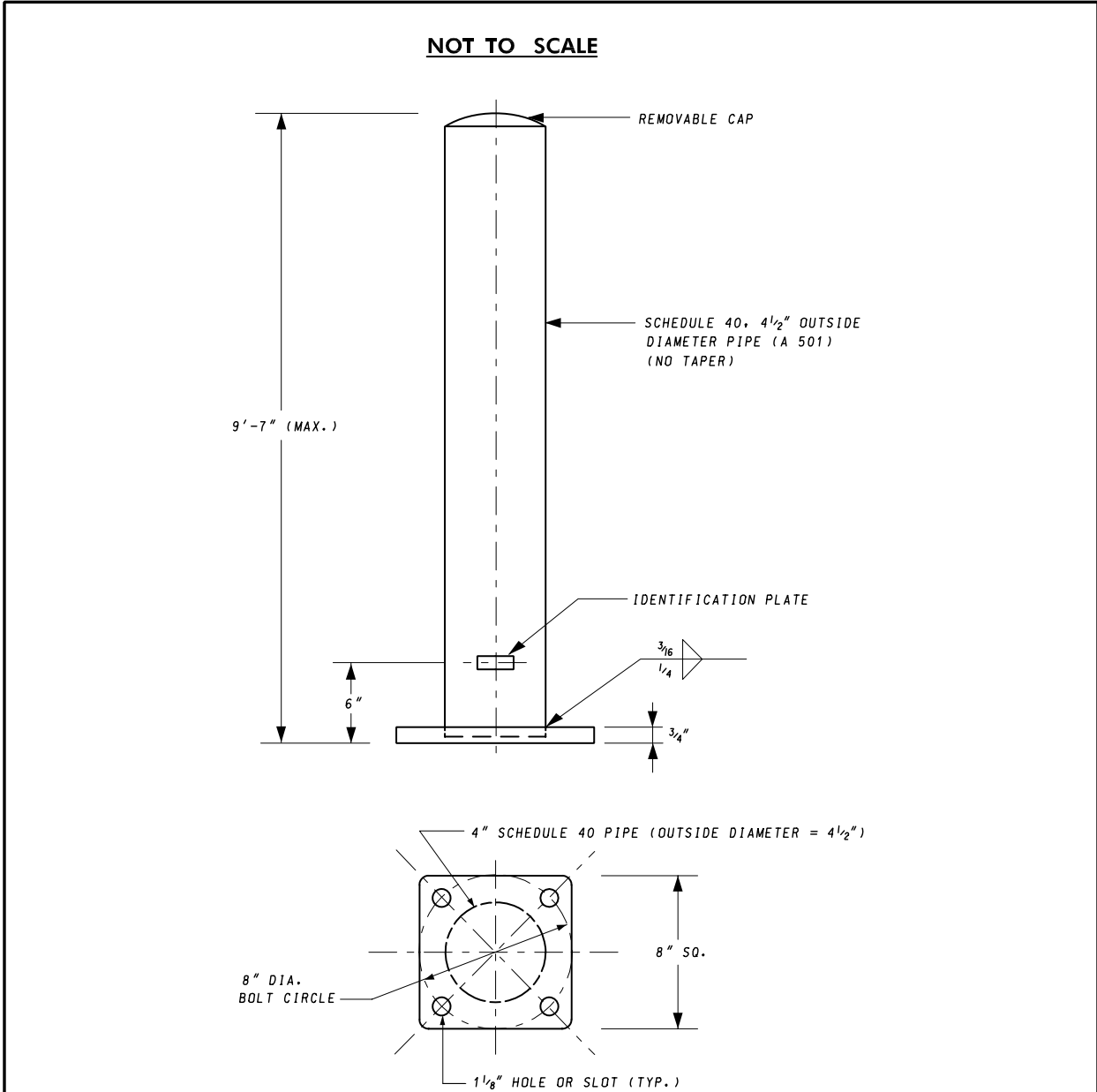
SPECIFICATION 818	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
 State Highway Administration	APPROVAL • SHA REVISIONS
	APPROVAL 7-1-94
	REVISED 5-17-07
	REVISED
	REVISED
APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 7-1-94
REVISED 5-2-07	REVISED
REVISED	REVISED
REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

10' PEDESTAL POLE

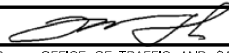

STANDARD NO. MD 818.16

REFERENCED ON: MD 801.01



NOTES:

1. THIS STRUCTURE IS WARRANTED ONLY WHERE SITE CONSTRAINTS PREVENT USE OF A TRANSFORMER BASE.
2. THIS STRUCTURE SHALL BE USED IN CONJUNCTION WITH THE SIGNAL STRUCTURE FOUNDATION FOR PUSHBUTTON AND PEDESTRIAN SIGNAL POLES. SEE STANDARD PLATE FOR DETAILS.
3. SIGNAL EQUIPMENT MOUNTED ON THIS POLE SHALL BE LIMITED TO TWO PEDESTRIAN SIGNAL HEADS AND TWO APS PUSHBUTTON STATIONS.
4. TOTAL 10' DIMENSION INCLUDES POLE HEIGHT AND BREAKAWAY COUPLINGS.

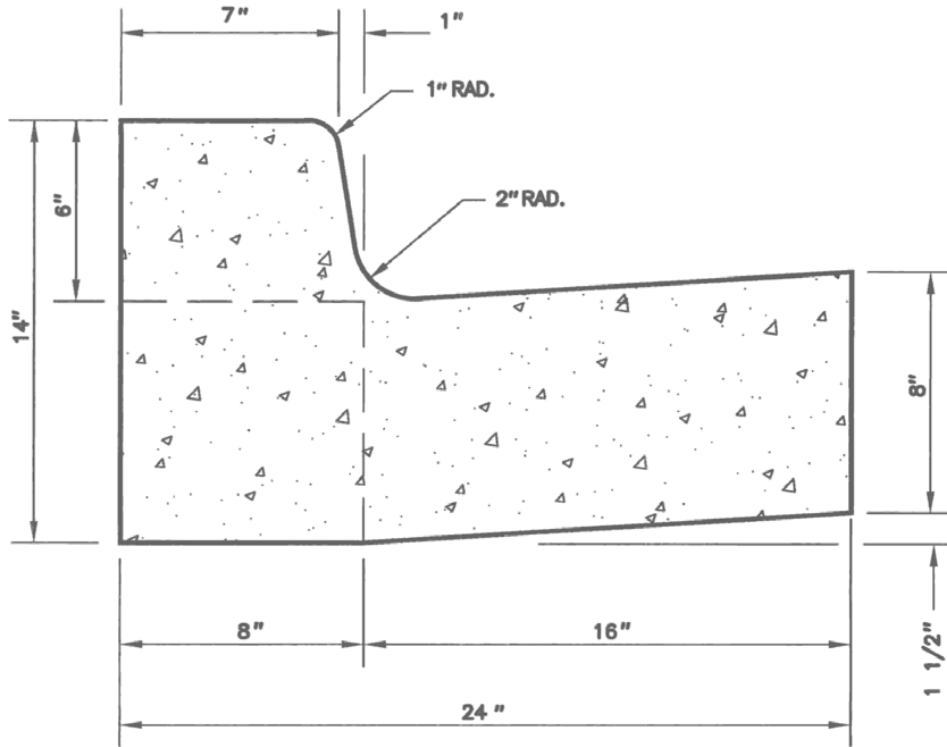
SPECIFICATION 818	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL 5-17-07
	REVISED
	REVISED
	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

10' PEDESTAL POLE FOR USE WITH BREAKAWAY COUPLINGS

STANDARD NO. MD 818.16-01

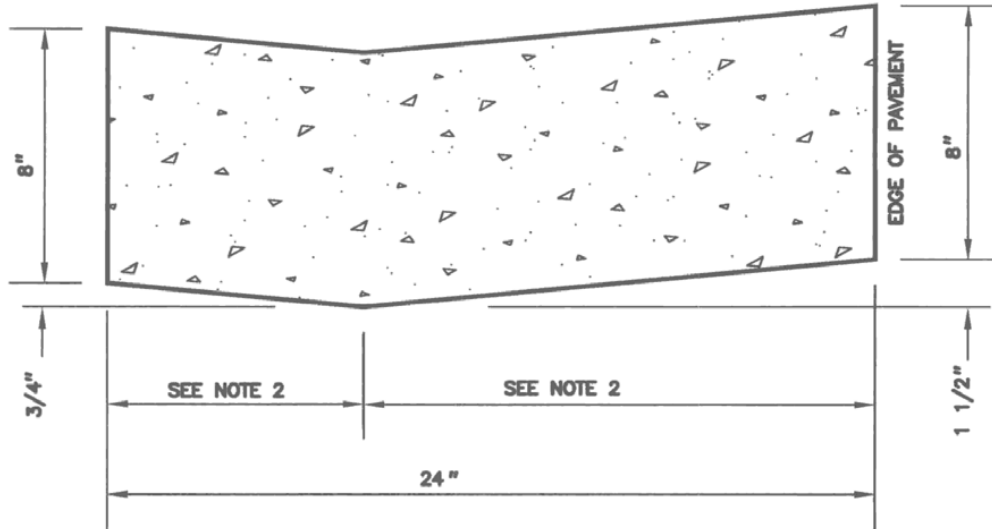
REFERENCED ON: MD 801.01, MD 801.01-01



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THIS STANDARD SHALL BE USED ON PRIMARY RESIDENTIAL, ARTERIAL AND BUSINESS DISTRICT ROADS AS WELL AS CURB RETURNS AND INLET THROATS.
3. WHENEVER STANDARD MC-101.01 CURB IS USED IN CONJUNCTION WITH THIS STANDARD, A TEN FOOT TRANSITION SHALL BE PROVIDED FROM STANDARD MC-100.01 TO STANDARD MC-101.01 FOR CURB RETURNS AND CURB SECTIONS WHICH INCLUDE INLETS.
4. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
5. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920.

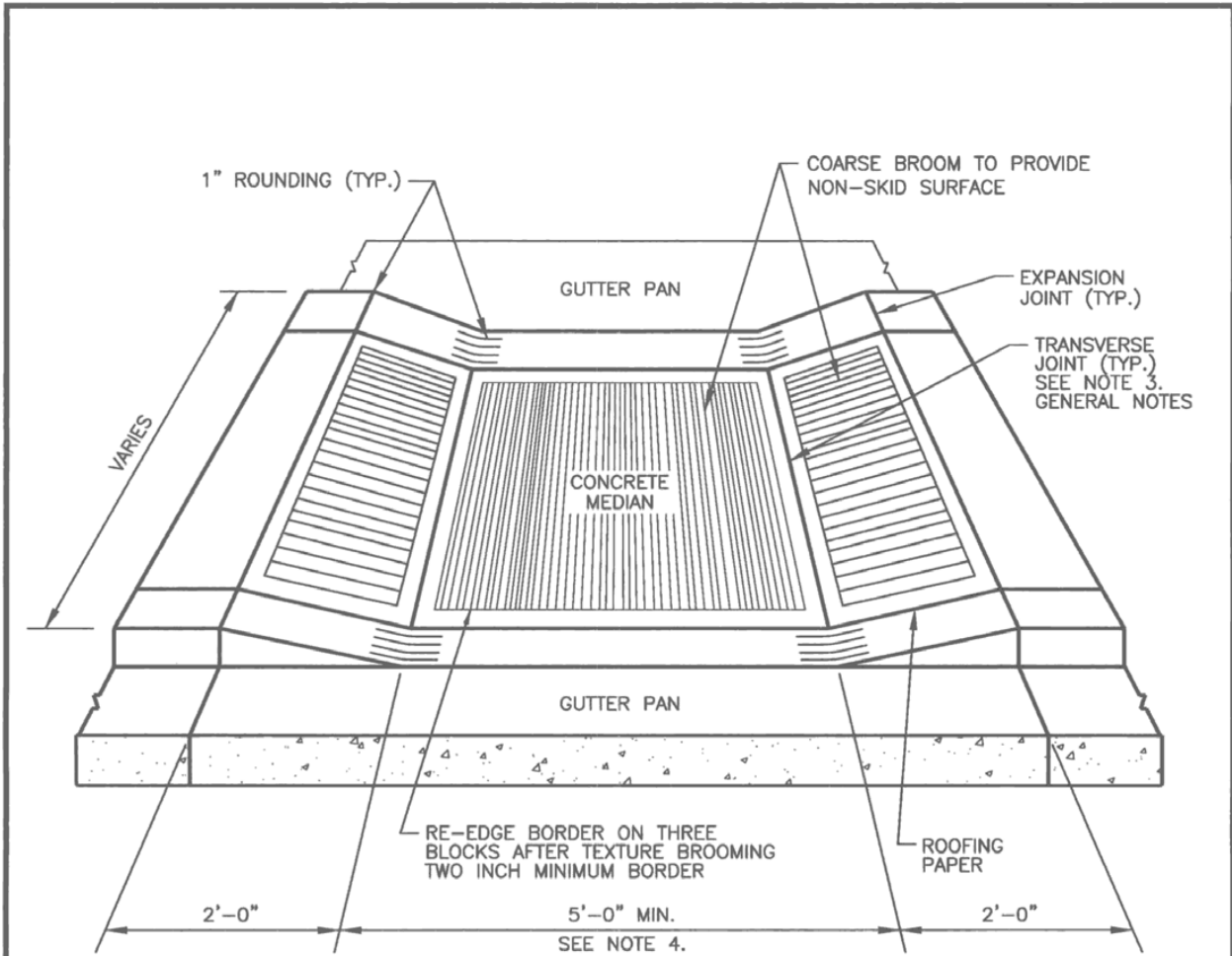
<p>APPROVED <u>14 APR '06</u> DATE</p> <p><i>Anthony Holif</i> DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION</p> <p><i>Hilger Serrano</i> CHIEF, DIV. OF CAP. DEV.</p>	<p>REVISED</p> <p> ASTM-C920 4/2006</p>	<p>MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION</p> <p>COMBINATION CONCRETE CURB AND GUTTER TYPE A</p> <p>STANDARD NO. MC-100.01</p>
--	--	---



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THE DISTANCES FROM THE FLOWLINE TO THE FRONT AND BACK EDGE OF CURB SHALL BE ADJUSTED TO MATCH EXISTING CONDITIONS.
3. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
4. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920. ¹

<p>APPROVED <u>14 APR 86</u> DATE</p>	<p>REVISED</p>	<p>MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION</p>
<p><i>Arthur Holby</i> DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION</p> <p><i>Holger Seaman</i> CHIEF, DIV. OF CAP. DEV.</p>	<p>¹ ASTM-C920 4/2006</p>	<p>DEPRESSED CURB ENTRANCE</p> <p>STANDARD NO. MC-102.01</p>



GENERAL NOTES

1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT, COMPLYING WITH ASTM-C920. ¹
3. SCORE THE CONCRETE FOR THE TRANSVERSE JOINTS TO A DEPTH OF 1/3 OF THE THICKNESS TO PROVIDE A WEAKENED PLANE.
4. THE WIDTH MAY BE INCREASED TO MATCH THE WIDTH OF AN APPROACHING BIKEWAY.

<p>APPROVED <u>14 APR 06</u> DATE</p>	<p>REVISED ¹ ASTM-C920 4/2006</p>	<p>MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION</p>
<p><i>Anthony Hall</i> DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION <i>Holger Securus</i> for CHIEF, DIV. OF CAP. DEV.</p>		<p>MEDIAN OPENING STANDARD NO. MC-114.01</p>

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL SECTIONS & DETAILS	2-3
STANDARD DETAILS	4
GEOMETRIC LAYOUT & CONSTRUCTION STAKEOUT	5
STORM DRAIN AND PAVING PLANS	6-15
DRAINAGE PROFILE	16
MAINTENANCE OF TRAFFIC PLANS	17-18
SIGNING AND STRIPING PLANS	19-28
SIGNAL MODIFICATION PLANS	29-30
LIGHTING NOTES, DETAILS AND PLANS	31-32
EROSION & SEDIMENT CONTROL NOTES, DETAILS AND PLANS	33-37

CITY OF ROCKVILLE, MD DEPARTMENT OF PUBLIC WORKS NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT

**STANDARD SPECIFICATIONS BOOK,
BOOK OF STANDARDS AND MUTCD**

ALL WORK ON THIS PROJECT SHALL CONFORM TO THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION'S (SHA) SPECIFICATIONS ENTITLED: STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2021, REVISIONS THEREOF OR ADDITIONS THERETO; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; AND THE LATEST MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD-MUTCD).

MAINTENANCE OF TRAFFIC NOTES

FOLLOW SHA WORK ZONE TEMPORARY TRAFFIC CONTROL STANDARDS AND SPECIAL PROVISIONS FOR MOT. MAINTAIN PEDESTRIAN ACCESSIBILITY AT ALL TIMES.

RIGHT OF WAY

RIGHT OF WAY LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS AND ARE NOT OFFICIAL FOR FEE RIGHT OF WAY INFORMATION. SEE APPROPRIATE RIGHT OF WAY PLATS.

UTILITIES

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS. THE CONTRACTOR IS RESPONSIBLE TO LOCATE, DELINEATE, AND AVOID ALL EXISTING UTILITIES.

TOPOGRAPHIC SURVEY

THIS PROJECT IS ORIENTATED TO THE MARYLAND STATE PLANE COORDINATION SYSTEM NAD 83/91, AND NAVD 88. BASE TOPOGRAPHIC INFORMATION WITHIN THE PROJECT LIMIT WAS ESTABLISHED FROM FIELD SURVEY CONDUCTED IN SEPTEMBER 2021. GIS MAPPING SHOWN OUTSIDE THE PROJECT LIMIT OF DISTURBANCE WAS ESTABLISHED FROM AS-BUILTS PROVIDED BY THE CITY OF ROCKVILLE, AND AERIAL IMAGERY.

CITY OF ROCKVILLE GENERAL NOTES:

- THE APPLICANT IS THE ENTITY FOR WHICH THE CITY OF ROCKVILLE DEPARTMENT OF PUBLIC WORKS (DPW) HAS ISSUED A PERMIT. FOR DPW PERMITS WHERE A PERMIT IS NOT APPLICABLE, THE ENTITY FOR WHICH THE CITY CONTRACT IS ISSUED SHALL BE CONSIDERED THE APPLICANT IN THESE NOTES. THE APPLICANT IS RESPONSIBLE FOR ALL CONTRACTORS, AGENTS, SUBCONTRACTORS, OR OTHER ENTITIES COMPLETING WORK UNDER THIS PERMIT AND/OR APPROVED PLAN.
- THE APPLICANT MUST ARRANGE A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCING ANY WORK. PROVIDE AT LEAST 48 HOURS OF NOTICE TO THE FOLLOWING: CITY PUBLIC INSPECTOR LISTED IN THE PERMIT; CITY FORESTRY INSPECTOR AT 240-314-8915; IF REQUIRED BY EITHER A DPW AND/OR FORESTRY PERMIT, OR DPW SEDIMENT CONTROL INSPECTOR AT 240-314-8879, IF REQUIRED BY PERMIT.
- THE APPLICANT MUST CONTACT MISS UTILITY AT 1-800-257-7777 OR #811 OR MISSUTILITY.NET SO THAT UTILITIES ARE MARKED PRIOR TO HOLDING ANY PRE-CONSTRUCTION MEETING.
- INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES BY DIGGING TEST PITS AT THE UTILITY CROSSING WELL IN ADVANCE OF TRENCHING. IF CLEARANCE IS LESS THAN SHOWN ON THIS PLAN, CONTACT THE PROFESSIONAL ENGINEER WHO STAMPED THE DESIGN PLANS BEFORE PROCEEDING WITH CONSTRUCTION.
- MAINTAIN A MINIMUM ONE-FOOT VERTICAL CLEARANCE BETWEEN ALL CITY UTILITIES CROSSING ANY OTHER UTILITY, UNLESS OTHERWISE NOTED. MAINTAIN A FIVE-FOOT HORIZONTAL CLEARANCE WITH BETWEEN A CITY UTILITY WITH ANY OTHER UTILITY OR STRUCTURE. THE ONLY EXCEPTION IS THAT THERE SHALL BE A TEN-FOOT HORIZONTAL CLEARANCE BETWEEN CITY WATER AND SEWER MAINS.
- AT THE END OF EACH DAY, ALL TRENCHES SHALL BE BACKFILLED, ALL EQUIPMENT SECURED AND THE AREA LEFT IN A SAFE CONDITION. STEEL PLATES ARE ALLOWED TO REMAIN NO LONGER THAN SEVEN DAYS. PLATES ARE TO BE NOTICED (RECESSED) AND FINED TO THE ROADWAY. PLATES MUST BE LARGE ENOUGH TO ALLOW A MINIMUM OF ONE-FOOT BEARING ON ALL FOUR SIDES OF THE PAVEMENT SURROUNDING THE EXCAVATION. THE STEEL PLATE REQUIREMENTS ONLY APPLY TO PUBLIC STREETS.
- THE PUBLIC ROAD UTILITY PATCH SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL #60, CONTAINED HEREIN, OR AS SHOWN ON THE PLANS. ALL TRENCHES IN PUBLIC STREETS SHALL BE FILLED WITH COMPACTED GRANULAR AGGREGATE BASE (GAB) FROM BELOW THE PAVEMENT TO THE TOP OF THE PIPE EMBEDMENT ZONE OR TO A DEPTH OF FIVE FEET, WHICHEVER IS LESS.
- DPW NORMAL WORKING HOURS ARE MONDAY THROUGH FRIDAY, EXCEPT HOLIDAYS, FROM 8:30 A.M. TO 5 P.M. THE CITY OBSERVES THE FOLLOWING HOLIDAYS: NEW YEAR'S DAY, MARTIN LUTHER KING'S BIRTHDAY, PRESIDENT'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, VETERANS' DAY, THANKSGIVING DAY, THANKSGIVING FRIDAY AND CHRISTMAS DAY, AND ALL DAYS OF GENERAL AND CONGRESSIONAL ELECTIONS THROUGHOUT THE STATE. THE CONTRACTOR WILL NOT BE PERMITTED TO CLOSE LANES OR DO ANY WORK THAT REQUIRES THE SERVICES OF THE CITY FORCES, OUTSIDE OF THE NORMAL WORKING HOURS, UNLESS OR AUTHORIZED BY DPW IN WRITING. THE CONTRACTOR, WITH WRITTEN PERMISSION OF DPW MAY BE PERMITTED TO WORK OUTSIDE OF THE NORMAL WORK HOURS FOR CLEAN-UP ACTIVITIES OR OTHER SUCH ITEMS THAT DO NOT ADVERSELY IMPACT TRAFFIC, RESIDENTS OR CITY SERVICE.
- TRAFFIC MUST BE MAINTAINED ON ALL ROADWAYS WITHIN THE CONSTRUCTION AREA AS DIRECTED BY DPW. NO LANE CLOSURE SHALL BE PERMITTED BETWEEN 7:00-9:00 A.M. OR 3:30-6:00 P.M. MONDAY THROUGH FRIDAY. AN EXCEPTION IS THAT LANE CLOSURES ARE PERMITTED ON SECONDARY RESIDENTIAL STREETS AT ANY TIME DURING NORMAL WORKING HOURS. DEPLOYMENT AND DESIGN OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). IF REQUIRED, TRAFFIC CONTROL PLANS SHALL BE REVIEWED AND APPROVED BY THE CHIEF OF THE TRAFFIC AND TRANSPORTATION DIVISION. DPW MAY SUSPEND LANE CLOSURE OR OTHER TRAFFIC CONTROLS AT ANY TIME DURING, OR IN ADVANCE OF, INCIDENT WEATHER EVENTS.
- SHEETING AND SHORING IS THE TOTAL RESPONSIBILITY OF THE APPLICANT. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND SHALL SEAL THESE DRAWINGS. PROVIDE THREE COPIES TO DPW FOR INFORMATIONAL PURPOSES ONLY.
- IN ADDITION TO ALL CITY PERMITS, THE APPLICANT IS RESPONSIBLE TO ENSURE THAT ALL NECESSARY FEDERAL, STATE AND/OR MONTGOMERY COUNTY APPROVALS AND/OR PERMITS HAVE BEEN OBTAINED IN ASSOCIATION WITH THIS APPROVED PLAN.
- SHOP DRAWINGS MUST BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND PRIOR TO FABRICATION. THE PROFESSIONAL ENGINEER WHO SEALED THE DESIGN PLANS (BUT NOT THE SHOP DRAWINGS) MUST APPROVE THE SHOP DRAWINGS FOR CONFORMANCE TO CONSTRUCTION. ALL PIPES AND STRUCTURES IN PAVED AREAS SHALL BE DESIGNED FOR 45-20 VEHICLES LOADING.
- UPON COMPLETION OF CONSTRUCTION, THE APPLICANT SHALL PROVIDE THREE SETS OF RED LINED AS-BUILT PRINTS (24"x36") FOR REVIEW AND APPROVAL BY THE CITY. THE DRAWINGS MUST CONTAIN THE ORIGINAL APPROVAL SIGNATURES AND PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE (A SCANNED IMAGE OF THE ORIGINAL MULAR IS ACCEPTABLE). THE AS-BUILT SHALL BE SEALED BY A PROFESSIONAL SURVEYOR, AS APPROPRIATE AND MUST BE LICENSED BY THE STATE OF MARYLAND. THE SEAL SHALL NOTE THAT IT IS ONLY FOR THE AS-BUILT AND SHALL INCLUDE AN AS-BUILT CERTIFICATION TO THE CITY. UPON RECEIPT OF WRITTEN APPROVAL, THE APPLICANT SHALL PROVIDE APPROVED AS-BUILT MULAR DRAWING ALONG WITH THE ORIGINAL MULARS (WITH ALL ORIGINAL SIGNATURES) TO CITY PRIOR TO THE RELEASE OF THE PERMIT.
- THE APPLICANT MUST COMPLY WITH THE MONTGOMERY COUNTY NOISE CONTROL ORDINANCE. PLEASE REFER TO THE MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AT 240-777-7700, ASSESS@MONTGOMERYCOUNTY.GOV, OR WWW.MONTGOMERYCOUNTY.GOV/DEP.

NOTES:

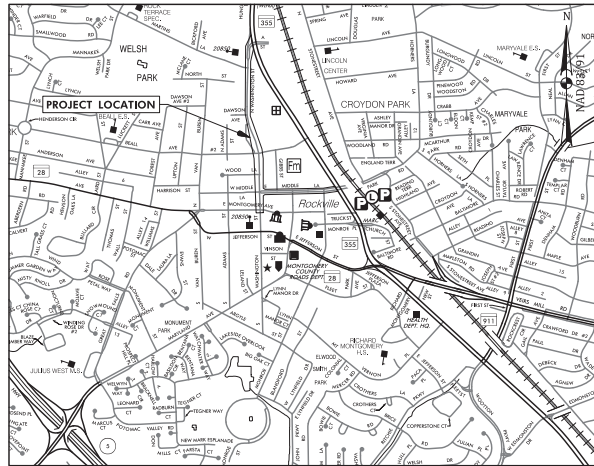
- JOB SAFETY AND TRAFFIC CONTROL SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFORM TO ALL LAWS AND REGULATIONS IN REGARD TO WORK AREAS OR ADJACENT TO OVERHEAD POWER LINES.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN SCALED AND COMPUTED DIMENSIONS SHOWN ON THESE PLANS, THE COMPUTED DIMENSIONS SHALL GOVERN.

UTILITY CONTACTS

AT&T TRANS	800-252-1133
CITY OF ROCKVILLE/ PMP/NET UNDERGROUND	301-868-6863
CITY OF ROCKVILLE	240-314-8577
FIBER/LIGHT/ SUNBELT TELECOM	727-596-1500
LEVELS NOW CENTURY LINK	877-366-9344
MD	800-393-3427
MONTGOMERY COUNTY GOVERNMENT	786-345-0391
PEPCO	301-200-0355
VERIZON	301-200-0355
WASHINGTON GAS	301-200-0355

NOTES:

- CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.



VICINITY MAP

SCALE: 1"= 1000'
THE CITY OF ROCKVILLE IS LOCATED WITHIN THE ROCK CREEK WATERSHED. THIS PLANSET IS FOR PUBLIC IMPROVEMENTS ONLY.

CONVENTIONAL SIGNS

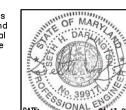
PROPOSED MEDIAN BARRIER	[Symbol]	PROPOSED PIPE / CULVERT	[Symbol]
ELECTRICAL HAND BOX - SIGNALS	[Symbol]	EXISTING PIPE / CULVERT	[Symbol]
FLOW LINE	[Symbol]	EXISTING DROP INLET	[Symbol]
STATE, COUNTY OR CITY LINES	[Symbol]	UTILITY POLE	[Symbol]
PROPOSED TRAFFIC BARRIER	[Symbol]	WETLAND	[Symbol]
EXISTING TRAFFIC BARRIER	[Symbol]	WETLAND BUFFER	[Symbol]
PROPOSED FENCE LINE	[Symbol]	WATERS OF THE U.S.	[Symbol]
EXISTING FENCE LINE	[Symbol]	HEDGE / TREE LINE	[Symbol]
RIGHT OF WAY LINE	[Symbol]	BUSH / TREE	[Symbol]
RAILROAD	[Symbol]	CONIFEROUS TREE	[Symbol]
EXISTING ROADWAY	[Symbol]	GROUND ELEVATION	[Symbol]
BASE LINE OR SURVEY LINE	[Symbol]	GRADE ELEVATION	[Symbol]
FIRE HYDRANT	[Symbol]		
HISTORIC BOUNDARY	[Symbol]		
WATERS OF THE U.S.	[Symbol]		

**100%
Final
Design**

SWM CONCEPT SUMMARY TABLE	
GENERAL PROPERTY INFORMATION	
SMCW :	
TYPE OF CONCEPT: COMBINED STORMWATER CONCEPT PLAN	
DEVELOPMENT REVIEW PROCESS/CASE NO.:	PAM PLAN FOR STP
PROPERTY ADDRESS:	NORTH WASHINGTON STREET AND EAST MIDDLE LANE
PROPERTY LEGAL DESCRIPTION:	SUBDIVISION: N/A
LOTS:	N/A
BLOCKS:	N/A
PARCEL:	N/A
PROPERTY SIZE (AC/SQ.FT.):	N/A (PUBLIC ROW)
TOTAL CONCEPT AREA (AC/SQ.FT.):	318,770 SQ. FT. = 7.32 AC
ZONING:	PD, MXCD, MXNC, MXTD
WATERSHED:	ROCK CREEK
100YR FLOODPLAIN:	ZONE X
EX.% IMPERVIOUS/REDEVELOPMENT OR NEW DEVELOPMENT:	100% IMPERVIOUS/REDEVELOPMENT
STORMWATER SUMMARY	
TOTAL ONSITE IMPERVIOUS AREA SUBJECT TO SWM:	0.25 AC
REQUIRED PE / PROPOSED PE:	1.0"/0.0"
TARGET ESDV / PROVIDED ESDV:	1,328 CF / 0 CF
ESD MEASURES:	NONE
STRUCTURAL STORAGE REQUIRED / PROVIDED:	NONE
STRUCTURAL MEASURES:	NONE
Qp10(10-YEAR QUANTITY CONTROL MEASURES):	NONE
CONTIGUOUS RIGHT-OF-WAY IMPERVIOUS AREA SUBJECT TO SWM:	0.25 AC
CONTIGUOUS RIGHT-OF-WAY Cdv(CHANNEL PROTECTION VOLUME) & Wdv(WATER QUANTITY VOLUME) MEASURES:	NONE
CONTIGUOUS RIGHT-OF-WAY Qp10(10-YEAR QUANTITY CONTROL) MEASURES:	NONE
OTHER INFORMATION:	SWM MEASURES = FEE IN LIEU

PROFESSIONAL CERTIFICATION:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 39917,
Expiration Date:
January 18, 2023

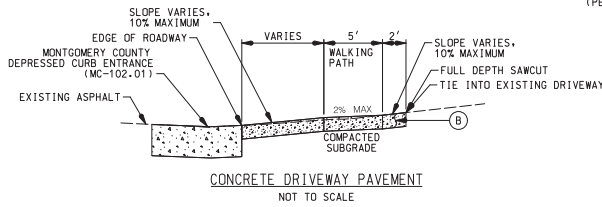
Seth H. Darlington
sdarlington@wallacemontgomery.com



APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL					
DATE SUBMITTED	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APRIL 2022					

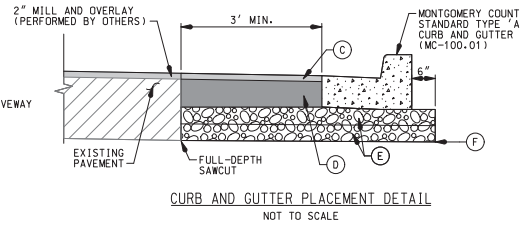
<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	<p>DESIGNED</p> <p>DRAWN</p> <p>CHECKED</p>	<p>DESIGN PLAN APPROVAL</p> <p>Craig L. Simonsau 2022.04.19 17:31:25-0400'</p> <p>PK#_EPM2022-00045 SCP#</p> <p>SMP#</p> <p>APPROVAL DATE</p>	<p>AS BUILT PLAN APPROVAL</p> <p>CHEF, CONSTRUCTION MANAGEMENT</p> <p>APPROVAL DATE</p>	<p>TITLE SHEET</p>	<p>NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT</p> <p>Election District No. 2 City of Rockville, Maryland</p>	<p>SCALE</p> <p>NOT TO SCALE</p>	<p>SHEET</p> <p>NO. 1</p> <p>OF 37</p>	<p>FILE #</p>	
	<p>111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>		<p>APPROVAL DATE</p>		<p>APPROVAL DATE</p>		<p>APPROVAL DATE</p>		<p>IFB</p>
	<p>111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>		<p>APPROVAL DATE</p>		<p>APPROVAL DATE</p>		<p>APPROVAL DATE</p>		<p>IFB</p>

N. WASHINGTON STREET AND E. MIDDLE LANE ROAD DIET PROJECT



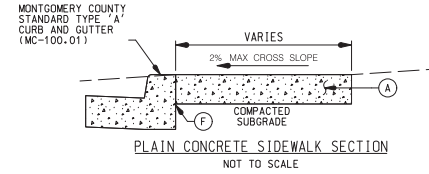
NOTE:

- SEE DETAIL E - DRIVEWAY APRON WITHOUT BUFFER CITY OF ROCKVILLE STANDARD NO. CM-2-1, ON SHEET 4



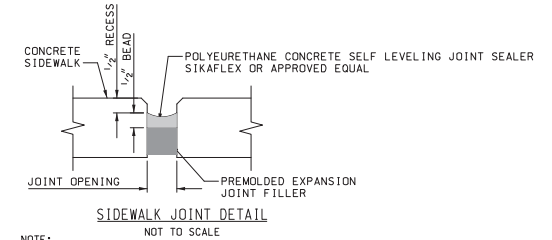
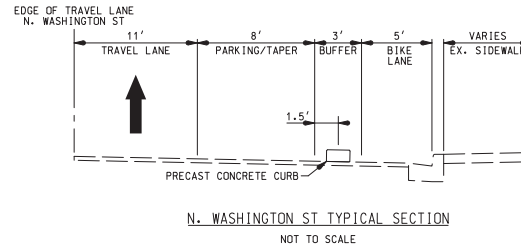
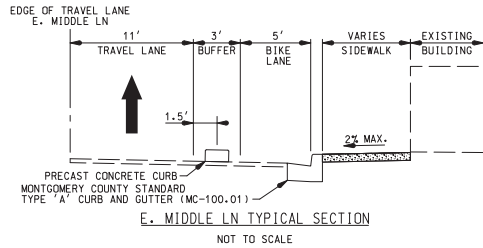
CURB AND GUTTER PLACEMENT NOTES:

- FULL DEPTH RECONSTRUCTION FOR SLOT BACKFILL SHALL BE INCIDENTAL TO CURB AND GUTTER REPLACEMENT



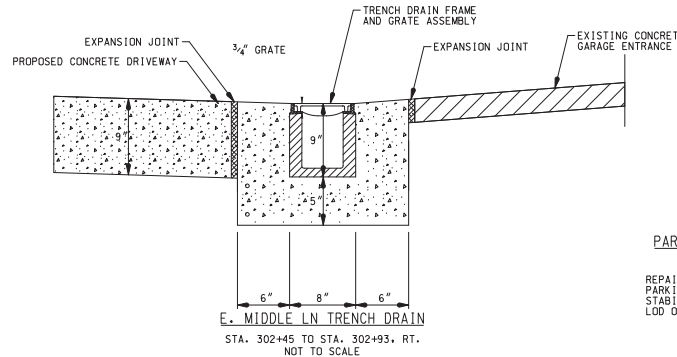
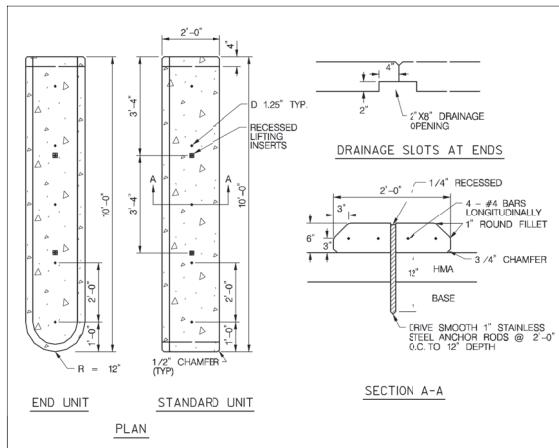
DETAIL LEGEND

- (A) 4" CONCRETE SIDEWALK
- (B) 9" PLAIN CONCRETE
- (C) 2" HMA SUPERPAVE, 9.5MM FOR SURFACE, PG 64-22, LEVEL 2 (PRICE INCIDENTAL TO CONCRETE CURB)
- (D) 6" HMA SUPERPAVE, 19.0MM FOR BASE, PG 64-22, LEVEL 2 OR MATCH EXISTING SECTIONS DEPTH. PLACED IN TWO LIFTS (PRICE INCIDENTAL TO CONCRETE CURB)
- (E) 4" GRADED AGGREGATE BASE (PRICE INCIDENTAL TO CONCRETE CURB)
- (F) LIMITS OF EXCAVATION



NOTE:

- ALL CONCRETE EXPANSION JOINTS BETWEEN SIDEWALK PANELS AND WHERE SIDEWALK MEETS EXISTING SIDEWALK OR BUILDING MUST BE SEALED USING THIS METHOD. JOINT SEALING SHALL BE INCIDENTAL TO THE SIDEWALK PAY ITEM.



NOTES:

- TRENCH DRAIN GRATE SHALL BE CAST IRON, ANCHORED IN PLACE, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ADA COMPLIANT.
- USE SWIFTDRAIN 300 HEAVY DUTY TRENCH DRAIN OR AN APPROVED EQUIVALENT.



PARKING METER (TYP)

- NOT TO SCALE
- REPAIR 1'x1' CONCRETE PATCH AT EACH PARKING METER INSTALLATION. STABILIZE DISTURBANCE THE SAME DAY. LOD OFF-SET FROM PATCH FOR CLARITY.

MONTGOMERY COUNTY MODIFIED STD. 100.01 - SPILL CONCRETE CURB AND GUTTER

NOT TO SCALE

NOTES:

- THE SLOPE (*) OF A SPILL CONCRETE CURB AND GUTTER PAN SHALL BE EQUAL TO THE CROSS SLOPE OF ROADWAY PAVING.



DATE	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

WALLACE MONTGOMERY
CONSULTANTS
1100 W. WASHINGTON ST., SUITE 200
ROCKVILLE, MD 20854
TEL: 301-983-8800
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO EXCAVATION.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED: _____
DRAFTED: _____
CHECKED: _____

DESIGN PLAN APPROVAL
Craig L. Simonescu
2022.04.19
17:21:28/04/00'

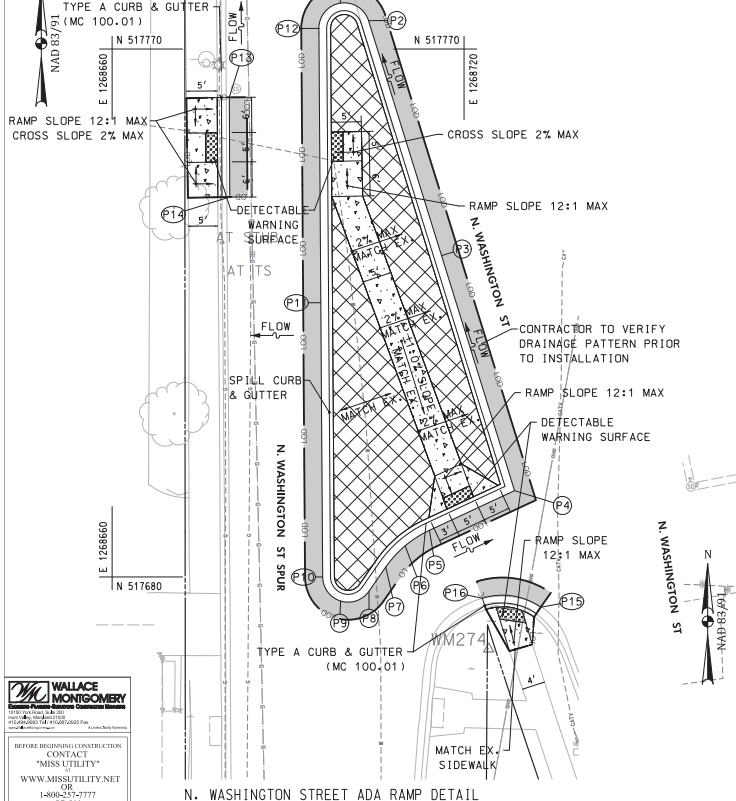
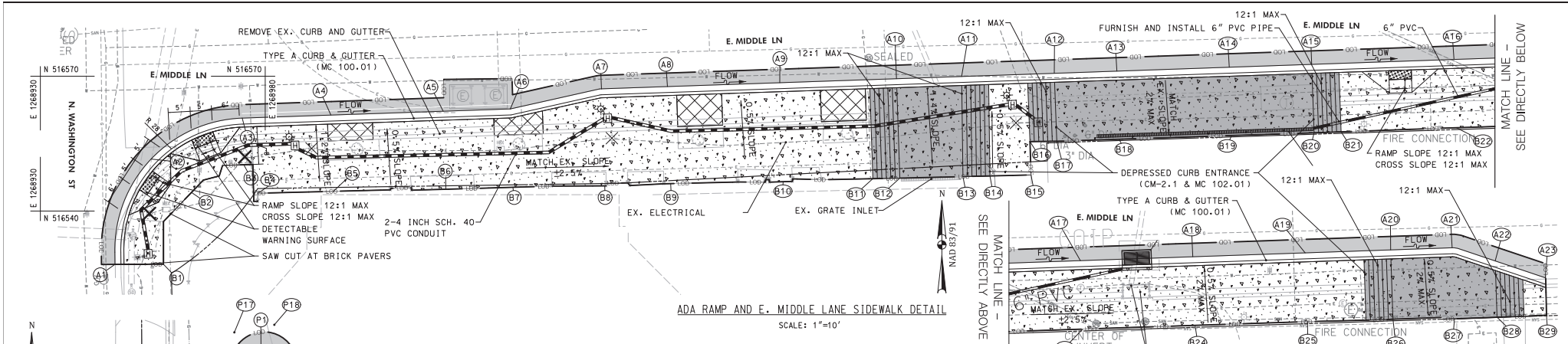
AS BUILT PLAN APPROVAL
REVIEWED BY: _____
REVISIONS: _____

APPROVAL DATE: _____
CHIEF, CONSTRUCTION MANAGEMENT

TYPICAL SECTIONS AND DETAILS

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT
Election District No. 2 City of Rockville, Maryland

DATE SUBMITTED: APRIL 2022
SCALE: NOT TO SCALE
SHEET NO. 2 OF 37
FILE #



PROPOSED CURB STAKEOUT - N. WASHINGTON ST

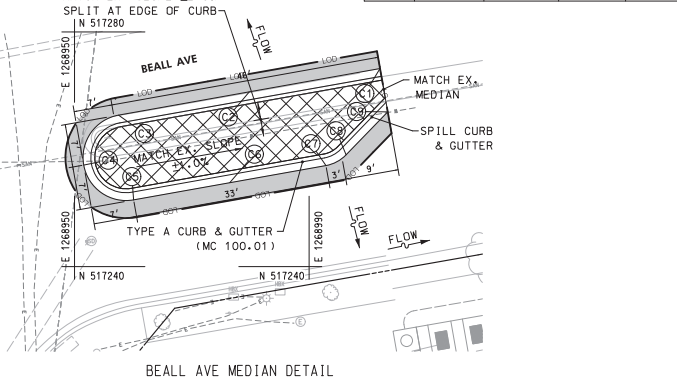
POINT NO.	STA. ON R. OF ROADWAY	OFFSET FROM R. OF ROADWAY	EDGE OF GUTTER ELEVATION	PROPOSED	EXISTING
P1	111488.89	29.5'	450.4	450.4	
P2	111492.66	25.4'	450.5	450.5	
P3	112333.57	21.7'	450.7	450.7	
P4	112474.69	19.6'	450.8	450.8	
P5	112477.28	35.3'	451.3	451.3	
P6	112478.66	40.0'	451.6	451.6	
P7	112481.16	44.2'	451.7	451.7	
P8	112434.22	48.1'	451.8	451.8	
P9	112484.49	53.2'	451.9	451.9	
P10	112479.92	55.0'	451.7	451.7	
P11	112436.53	43.6'	451.0	451.0	
P12	111492.32	34.0'	450.3	450.3	
P13	112400.53	51.2'	450.1	450.1	
P14	112416.41	54.7'	450.2	450.2	
P15	112494.67	20.7'	450.8	450.8	
P16	112490.50	29.8'	451.0	451.0	
P17	111485.00	34.8'	450.3	450.3	
P18	111485.00	25.7'	450.5	450.5	

PROPOSED CURB STAKEOUT - E. MIDDLE LN

POINT NO.	STA. ON R. OF ROADWAY	OFFSET FROM R. OF ROADWAY	EDGE OF GUTTER ELEVATION	PROPOSED	EXISTING
A1	300425.19	53.3'	447.8	447.8	
A2	300414.72	30.2'	446.4	446.4	
A3	300455.28	21.7'	445.5	445.5	
A4	300475.00	21.7'	444.4	444.4	
A5	301400.00	21.7'	443.1	443.1	
A6	301400.00	21.7'	442.1	442.1	
A7	301414.92	17.9'	440.7	440.7	
A8	301435.12	17.9'	439.7	439.7	
A9	301450.00	17.9'	438.3	438.3	
A10	301475.00	17.9'	437.0	437.1	
A11	302400.96	17.9'	436.5	436.5	
A12	302415.41	17.8'	435.8	435.9	
A13	302436.07	17.8'	435.4	435.4	
A14	302450.00	17.8'	434.8	434.8	
A15	302475.00	17.8'	434.2	434.2	
A16	302493.33	17.8'	433.2	433.2	
A17	303425.00	17.7'	432.4	432.5	
A18	303450.00	17.7'	431.8	431.9	
A19	303475.00	17.7'	431.4	431.4	
A20	304400.00	17.6'	431.0	431.0	
A21	304419.01	17.4'	430.8	430.8	
A22	304442.16	20.9'	430.6	430.6	
A23	304453.19	25.0'	430.3	430.3	

PROPOSED SIDEWALK STAKEOUT - E. MIDDLE LN

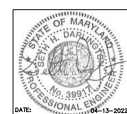
POINT NO.	STA. ON R. OF ROADWAY	OFFSET FROM R. OF ROADWAY	BACK OF SIDEWALK ELEVATION	PROPOSED	EXISTING
B1	300425.19	53.7'	448.0	448.0	
B2	300414.72	31.8'	446.9	446.9	
B3	300455.28	32.1'	446.2	446.2	
B4	300475.20	38.6'	446.2	446.2	
B5	300475.00	38.7'	445.1	445.1	
B6	301400.00	39.1'	443.4	443.4	
B7	301400.00	39.1'	442.4	442.4	
B8	301414.92	39.5'	440.9	440.9	
B9	301435.12	39.5'	440.0	440.0	
B10	301450.00	39.9'	438.5	438.5	
B11	301494.96	39.9'	437.1	437.1	
B12	301475.00	40.0'	436.7	436.7	
B13	302400.96	40.1'	436.4	436.4	
B14	302421.00	40.2'	EXISTING	EXISTING	
B15	302490.14	40.3'	EXISTING	EXISTING	
B16	302490.14	32.8'	436.1	436.1	
B17	302415.41	33.0'	435.4	435.4	
B18	302456.07	33.0'	435.1	435.1	
B19	302450.00	33.0'	434.6	434.6	
B20	302475.00	33.0'	434.3	434.3	
B21	302499.37	33.0'	434.1	434.1	
B22	302493.33	33.0'	433.7	433.6	
B23	303425.00	33.0'	433.0	433.0	
B24	303450.00	33.0'	432.4	432.4	
B25	303475.00	33.0'	431.8	431.8	
B26	304400.00	33.1'	431.4	431.4	
B27	304419.01	33.5'	431.2	431.1	
B28	304442.16	33.4'	431.0	431.0	
B29	304453.19	33.3'	430.9	430.9	



- LEGEND
- PROPOSED PLAIN CONCRETE SIDEWALK
 - PROPOSED FULL DEPTH RECONSTRUCTION
 - COMMERCIAL/MIXED-USE DRIVEWAY APRON
 - PROPOSED DETECTABLE WARNING SURFACE
 - REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
 - PROPOSED CURB AND GUTTER
 - EXISTING CURB AND GUTTER
 - EXISTING TREE
 - LIMIT OF DISTURBANCE
 - REMOVE AND REPLACE PUSH BUTTON
 - EXISTING LIGHT POLE TO BE RELOCATED
 - RELOCATED LIGHT POLE
 - 2 - 4 INCH SCHEDULE 40 PVC CONDUITS
 - 2 INCH SCHEDULE 40 PVC CONDUIT
 - ELECTRICAL MANHOLE
 - PROPOSED COMBINATION INLET PROTECTION
 - PROPOSED INLET
 - 8 INCH TRENCH DRAIN
 - 6" PVC PIPE
 - DOUBLE/SINGLE PARKING METER

WALLACE MONTGOMERY
CONSULTANTS
1100 W. GREENSBORO AVENUE
ROCKVILLE, MD 20858
TEL: 301-981-9800
WWW.WMCONSULTANTS.COM

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
1-800-257-7777
FOR HELP
AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

DATE SUBMITTED: APRIL 2022
SCALE: 1"=10'
SHEET NO. 3 OF 37
FILE #

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED: _____
DRAFTED: _____
CHECKED: _____

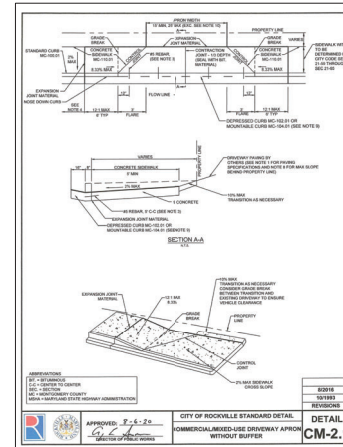
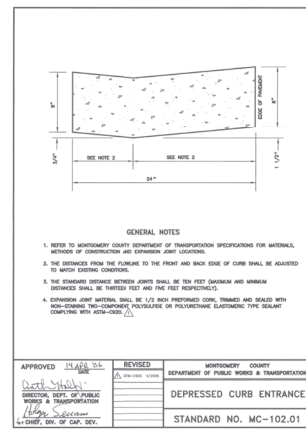
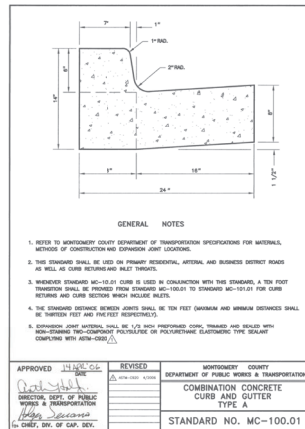
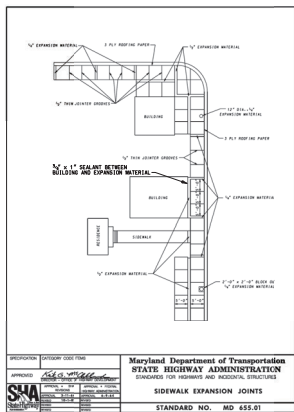
DESIGN PLAN APPROVAL
Craig L. Simenau
2022.04.19 17:31:27-0400
DIRECTOR OF PUBLIC WORKS

AS BUILT PLAN APPROVAL

CHIEF, CONSTRUCTION MANAGEMENT

TYPICAL SECTIONS & DETAILS

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT
Election District No. 2 City of Rockville, Maryland



DEFINITIONS

- SINGLE FAMILY/TOWNHOUSE DRIVEWAY APRON (SF-1 AND SF-2) SHALL BE USED FOR ALL PROPERTIES WHERE THE PRINCIPAL USE OF THE LOT IS SINGLE DWELLING UNIT (OTHER THAN DETACHED, SEMI-DETACHED, OR A TOWNHOUSE AS DEFINED IN THE ZONING ORDINANCE).
- COMMERCIAL/RESIDENTIAL DRIVEWAY APRON (CR-1 AND CR-2) SHALL BE USED FOR ALL PROPERTIES WHERE THE PRINCIPAL USE OF THE LOT IS ANY USE OTHER THAN A SINGLE DWELLING UNIT, EITHER DETACHED, SEMI-DETACHED, OR A TOWNHOUSE AS DEFINED IN THE ZONING ORDINANCE.

NOTES

- PER CITY CODE SEC. 24.18.06 - PAVING SPECIFICATIONS, ALL OFF STREET PARKING AND LOADING AREAS MUST BE SO DRAWN AS TO PREVENT DAMAGE TO ADJACENT PROPERTIES OR PUBLIC STREETS AND MUST BE PAVED WITH A MINIMUM OF 4\"/>

DETAIL A - SIDEWALK EXPANSION JOINTS
MODIFIED SHA STANDARD NO. MD 655.01

NOTES:

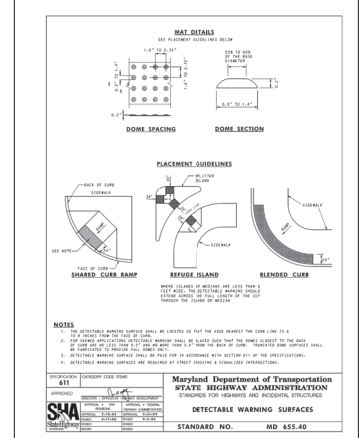
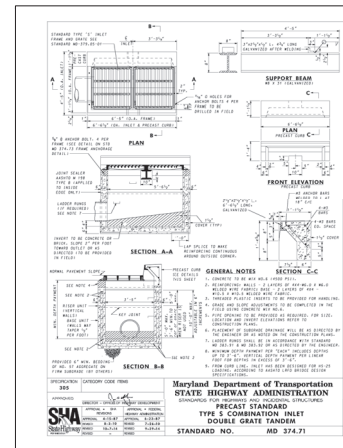
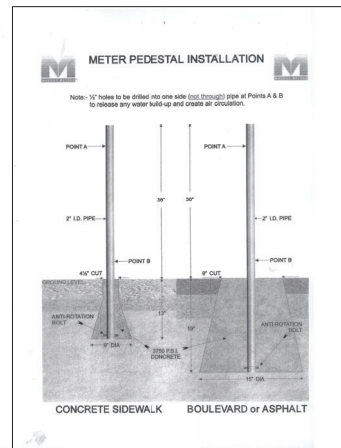
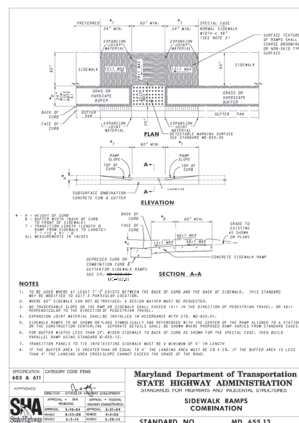
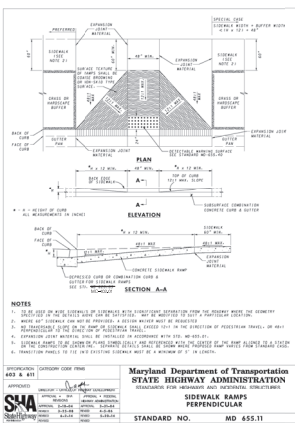
- EXPANSION MATERIAL SHALL BE APPLIED TO ANY ADJUSTED MANHOLES, STREET LIGHT POLES, SIGNAL POLES, HAND BOXES AND PIPES.

DETAIL B - TYPE 'A' COMBINATION CONCRETE CURB & GUTTER
MONTGOMERY COUNTY STANDARD NO. MC-100.01

DETAIL C - DEPRESSED CURB ENTRANCE
MONTGOMERY COUNTY STANDARD NO. MC-102.01

DETAIL D - DRIVEWAY APRON WITHOUT BUFFER
CITY OF ROCKVILLE STANDARD NO. CM-2.1

DETAIL E - DRIVEWAY APRON WITHOUT BUFFER
CITY OF ROCKVILLE STANDARD NO. CM-2.2



DETAIL F - SIDEWALK RAMPS PERPENDICULAR
STANDARD NO. MD 655.11

NOTES:

- WHEN SIDE FLARE IS NOT PART OF THE WALKING PATH, THE SLOPE MAY BE GREATER THAN 12:1
- SIDE FLARES FOR THIS PROJECT HAVE BEEN DESIGNED TO BE 2' WIDE AT THE CURB.

DETAIL G - SIDEWALK RAMPS COMBINATION
STANDARD NO. MD 655.13

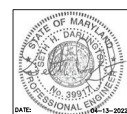
DETAIL H - METER PEDESTAL INSTALLATION

- CITY POLICE WILL INSTALL AND FURNISH THE METER HEADS
- RECONSTRUCTION OF SIDEWALK, SAWCUT, AND EXCAVATION WILL BE INCIDENTAL TO THE METER POLE INSTALLATION.

DETAIL I - TYPE S COMBINATION INLET
STANDARD NO. MD 374.71

DETAIL J - DETECTABLE WARNING SURFACES
STANDARD NO. MD 655.40

WALLACE MONTGOMERY
CONSULTANTS, INC.
1111 W. MONROE STREET
ROCKVILLE, MD 20854
TEL: 301-251-7777
WWW.MISSUTILITY.NET

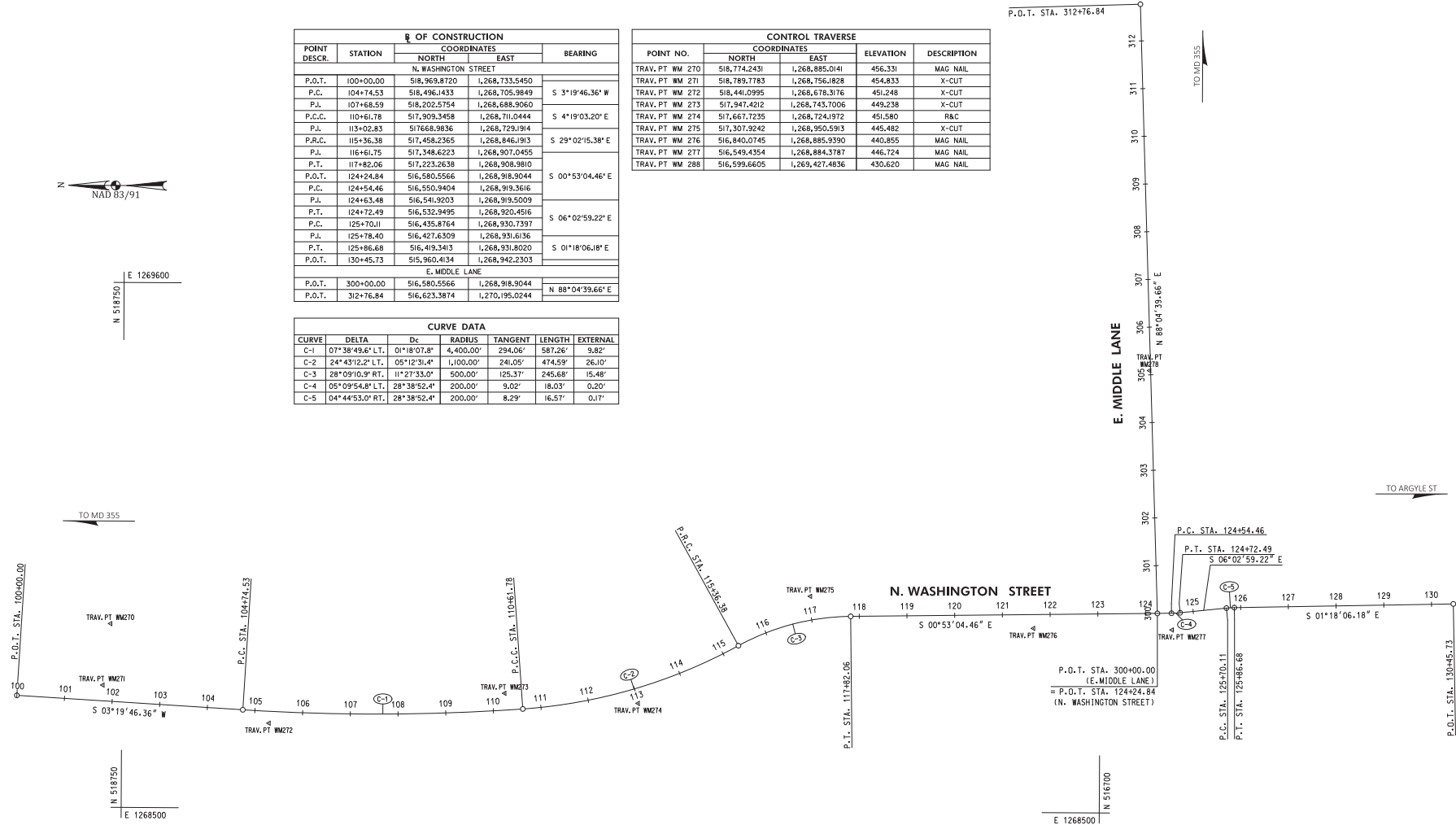


<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	<p>DESIGNED _____</p> <p>DRAFTED _____</p> <p>CHECKED _____</p>	<p>DESIGN PLAN APPROVAL</p> <p>Craig L. Simonsu 2022.04.19 17:31.28.0400'</p>		<p>AS BUILT PLAN APPROVAL</p>		<p>STANDARD DETAILS</p>	<p>NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT</p> <p>Election District No. 2 City of Rockville, Maryland</p>	<p>DATE SUBMITTED: APRIL 2022</p> <p>SCALE 1"=20'</p> <p>SHEET NO. 4 OF 37</p> <p>FILE #</p>																					
		<p>APPROVED: _____ DIRECTOR OF PUBLIC WORKS</p>		<p>APPROVED: _____ CHIEF, CONSTRUCTION MANAGEMENT</p>					<p>APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL</p> <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE															
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																									

B OF CONSTRUCTION				
POINT DESC.	STATION	COORDINATES		BEARING
		NORTH	EAST	
N. WASHINGTON STREET				
P.O.T.	100+00.00	518,969.8720	1,268,733.5450	
P.C.	104+74.53	518,496.1433	1,268,705.9849	S 3°19'46.36" W
P.L.	107+48.59	518,202.5754	1,268,688.9060	
P.C.C.	110+61.78	517,909.3458	1,268,710.0444	S 4°19'03.20" E
P.L.	115+02.83	517,668.9836	1,268,729.9194	
P.R.C.	115+36.38	517,458.2365	1,268,846.1913	S 29°02'15.38" E
P.L.	116+61.75	517,348.6223	1,268,907.0455	
P.T.	117+82.06	517,223.2638	1,268,908.9810	
P.O.T.	124+24.84	516,580.5566	1,268,918.9044	S 00°53'04.46" E
P.C.	124+54.46	516,550.9404	1,268,919.3616	
P.L.	124+63.48	516,541.9203	1,268,919.5009	
P.T.	124+72.49	516,532.9495	1,268,920.4516	S 06°02'59.22" E
P.C.	125+70.11	516,435.8764	1,268,930.7397	
P.L.	125+78.40	516,427.6309	1,268,931.6136	
P.T.	125+86.68	516,419.3413	1,268,931.8020	S 01°18'06.18" E
P.O.T.	130+45.73	515,960.4134	1,268,942.2303	
E. MIDDLE LANE				
P.O.T.	300+00.00	516,580.5566	1,268,918.9044	
P.O.T.	312+76.84	516,623.3874	1,270,195.0244	N 88°04'39.66" E

CONTROL TRAVERSE				
POINT NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTH	EAST		
TRAV. PT WM 270	518,774.2431	1,268,885.0141	456.331	MAG NAIL
TRAV. PT WM 271	518,789.7783	1,268,756.1828	454.833	X-CUT
TRAV. PT WM 272	518,441.0995	1,268,678.3176	451.248	X-CUT
TRAV. PT WM 273	517,947.4212	1,268,743.7006	449.238	X-CUT
TRAV. PT WM 274	517,667.7235	1,268,724.1972	451.580	R&C
TRAV. PT WM 275	517,307.9242	1,268,950.5913	445.482	X-CUT
TRAV. PT WM 276	516,840.0745	1,268,885.9390	440.855	MAG NAIL
TRAV. PT WM 277	516,549.4354	1,268,884.3787	446.724	MAG NAIL
TRAV. PT WM 288	516,599.6605	1,269,427.4836	430.620	MAG NAIL

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-1	07°38'49.81" L.T.	01°18'07.81"	4,400.00'	294.06'	581.26'	9.92'
C-2	24°43'12.21" L.T.	05°12'31.41"	1,100.00'	241.05'	474.59'	26.10'
C-3	28°09'10.91" R.T.	11°27'33.01"	500.00'	125.37'	245.68'	15.48'
C-4	05°09'54.81" L.T.	28°38'52.41"	200.00'	9.02'	18.03'	0.20'
C-5	04°44'53.01" R.T.	28°38'52.41"	200.00'	8.29'	16.57'	0.17'



WALLACE MONTGOMERY
INCORPORATED
11111 Rockville Pike, Suite 200
Rockville, MD 20850
Tel: (301) 251-7777
Fax: (301) 251-7777
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-251-7777
FOR 811
AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION



SCALE: 1" = 100'

DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

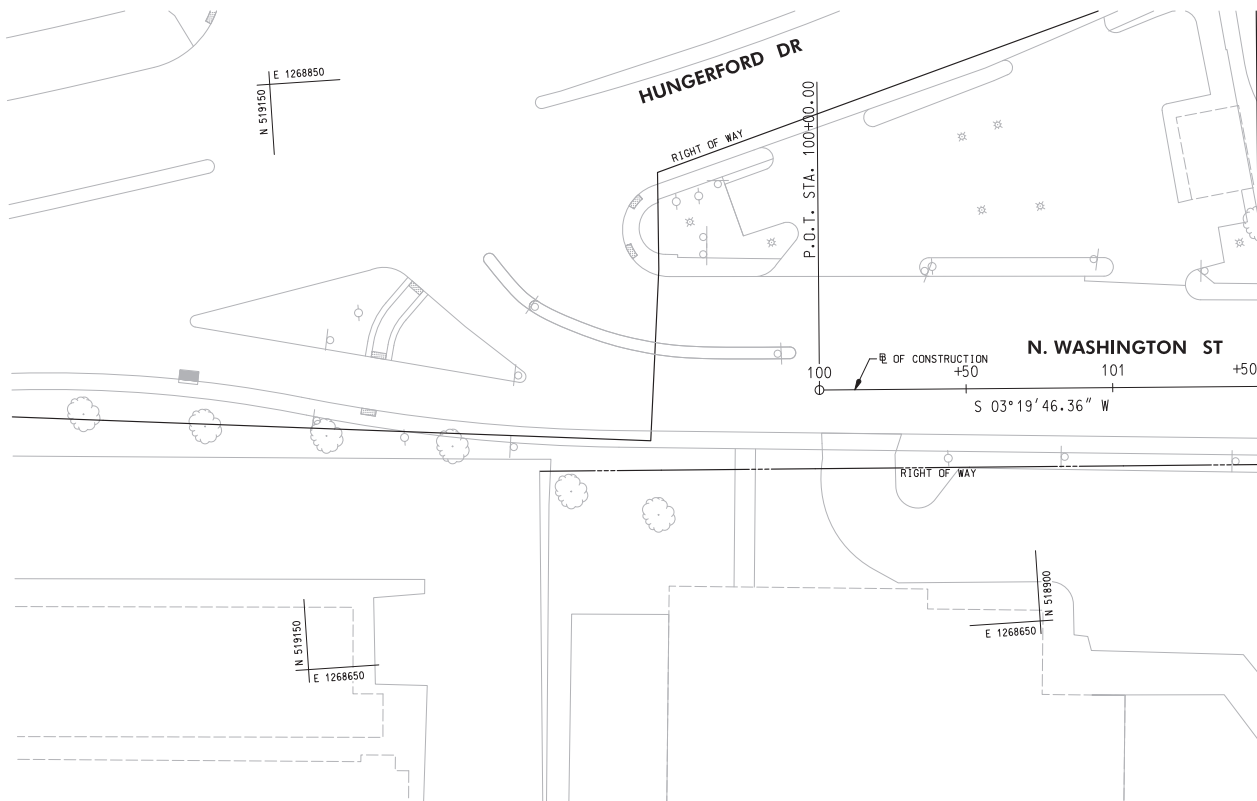
 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED: _____ DRAFTED: _____ CHECKED: _____	DESIGN PLAN APPROVAL Craig L. Simonneau 2022.04.19 17:31:29/04/00 PWP#_PWP2022-00045 SCP# _____ SVP# _____ REVIEWED BY: _____ APPROVAL DATE: _____	AS BUILT PLAN APPROVAL _____ _____ APPROVAL DATE: _____	GEOMETRIC LAYOUT & CONSTRUCTION STAKEOUT NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 DATE: 04-13-2022	SCALE: 1"=100' SHEET NO. 5 OF 37	FILE # _____
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL DATE: _____		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		



UTILITY CONTACTS	
AT&T TRANS	800-252-1133
CITY OF ROCKVILLE/ PIMPOINT UNDERGROUND	301-968-6803
CITY OF ROCKVILLE	282-34-8577
FIBERLIGHT/ SUNBELT TELECOM	727-596-1500
LEVEL3 NOW CENTURY LINK	877-366-8344
MC	800-259-3422
MONTGOMERY COUNTY GOVERNMENT	796-346-0399
PEPCO	301-210-0355
VERIZON	301-210-0355
WASHINGTON GAS	301-210-0355

NOTES:

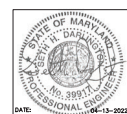
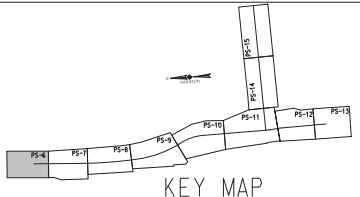
1. CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
2. N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.



MATCH LINE 101+50 - SEE SHEET 7

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON BLVD. SUITE 200
ROCKVILLE, MD 20850
TEL: 301-983-3300
FAX: 301-983-3301
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED: _____ DRAFTED: _____ CHECKED: _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:31:30-04/00 P.W.# <u>PM2022-00045</u> SCP# _____ SMP# _____ REVIEWED BY: _____ DIRECTOR OF PUBLIC WORKS APPROVAL DATE: _____	AS BUILT PLAN APPROVAL _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE: _____	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 DATE OF REVISIONS AFTER INITIAL PLAN APPROVAL: IFB	SCALE: 1"=20' SHEET NO. <u>6</u> OF <u>37</u>	FILE # _____
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL							

C-1

CURVE DATA

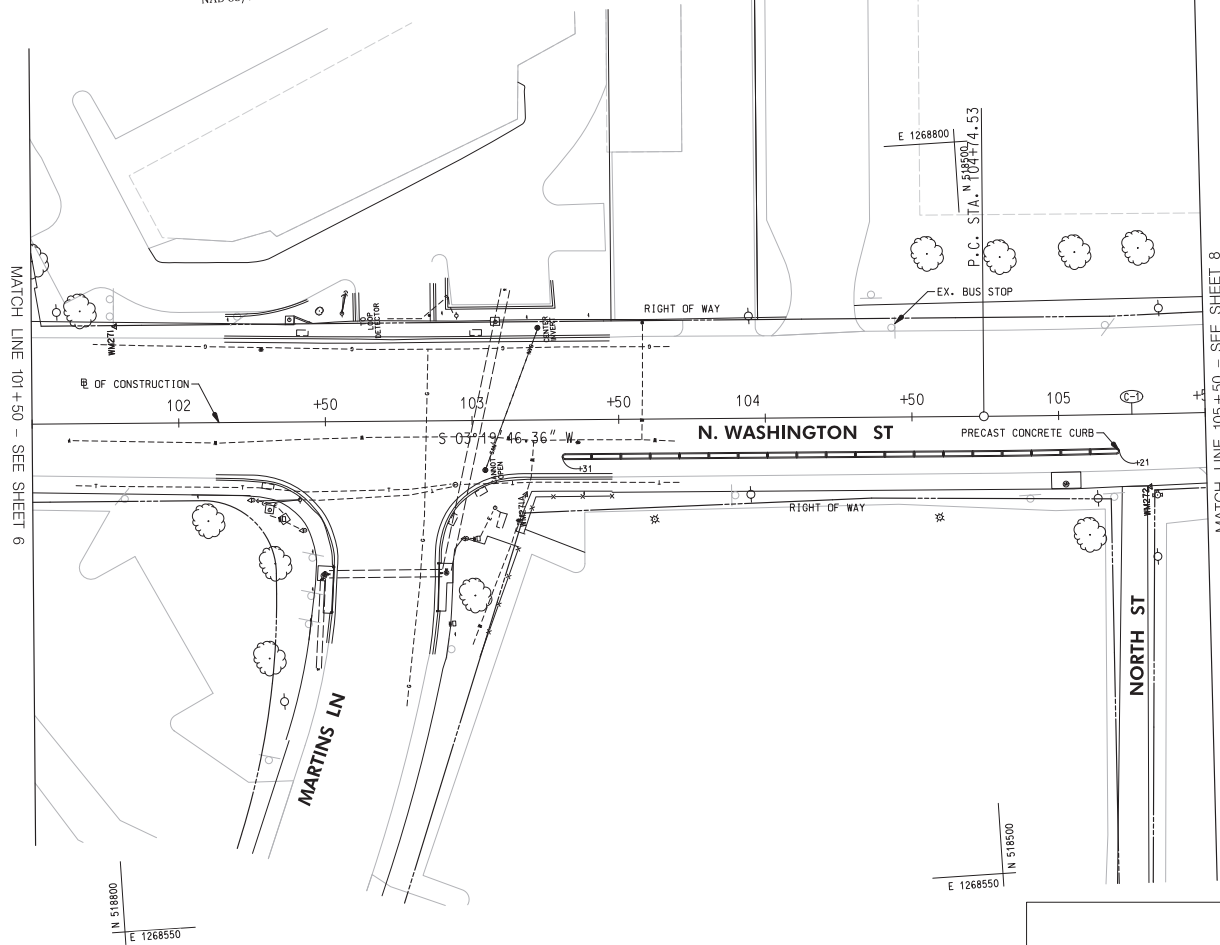
DELTA = 07° 38' 49.6" LT.
Dc = 01° 18' 07.8"
R = 4,400.00'
T = 294.06'
L = 587.26'
CH = 586.82'
E = 9.82'



CURB AND GUTTER	
19 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB

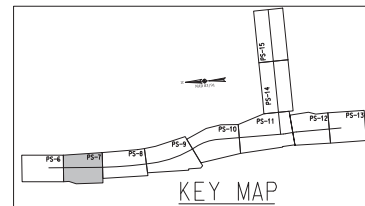
NOTES:

- CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. SEE SHEET 6 FOR OWNER INFORMATION. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
- N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.



LEGEND

	PROPOSED PLAIN CONCRETE SIDEWALK
	PROPOSED FULL DEPTH RECONSTRUCTION
	COMMERCIAL/MIXED-USE DRIVEWAY APRON
	PROPOSED DETECTABLE WARNING SURFACE
	REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING TREE
	LIMIT OF DISTURBANCE
	REMOVE AND REPLACE PUSH BUTTON
	EXISTING LIGHT POLE TO BE RELOCATED
	RELOCATED LIGHT POLE
	2 - 4 INCH SCHEDULE 40 PVC CONDUITS
	2 INCH SCHEDULE 40 PVC CONDUIT
	ELECTRICAL MANHOLE
	PROPOSED COMBINATION INLET PROTECTION
	PROPOSED INLET
	8 INCH TRENCH DRAIN
	6" PVC PIPE
	DOUBLE/ SINGLE PARKING METER



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

WALLACE MONTGOMERY
CONSULTANTS
1100 N. GREENSBORO RD.
ROCKVILLE, MD 20850
TEL: 301-981-2000
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-257-7777 FOR 24 HOURS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED: _____ DRAFTED: _____ CHECKED: _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:31:31+04'00' SMP# _____ DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 DATE: 04-13-2022	SCALE: 1"=20' SHEET NO. 7 OF 37	FILE #
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	

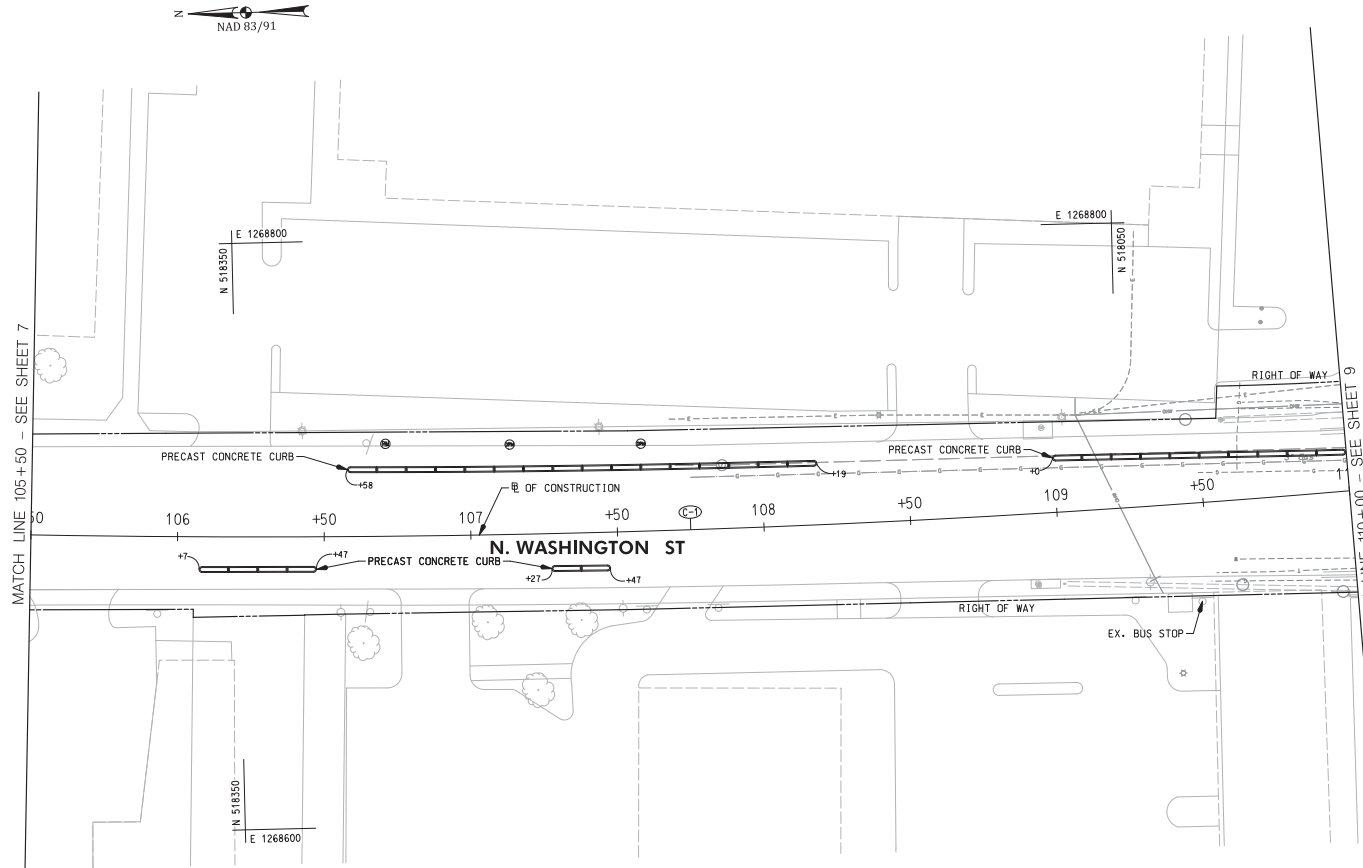
IFB # 04-23
SECTION VII

(C-1)
CURVE DATA
DELTA = 7°38'49.6" L.T.
Dc = 118'07.8"
R = 4400.00'
T = 294.06'
L = 587.26'
Ch = 556.52'
E = 9.82'

CURB AND GUTTER	
32 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB
SITE	
3 EA.	FURNISH AND INSTALL PARKING METER
SIDEWALK	
3 SF.	FURNISH AND INSTALL 4" CONCRETE SIDEWALK

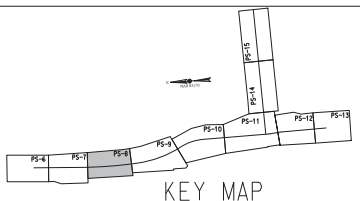
NOTES:

- CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. SEE SHEET 6 FOR OWNER INFORMATION. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
- N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.



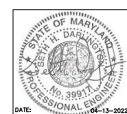
LEGEND

	PROPOSED PLAIN CONCRETE SIDEWALK
	PROPOSED FULL DEPTH RECONSTRUCTION
	COMMERCIAL/MIXED-USE DRIVEWAY APRON
	PROPOSED DETECTABLE WARNING SURFACE
	REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING TREE
	LIMIT OF DISTURBANCE
	REMOVE AND REPLACE PUSH BUTTON
	EXISTING LIGHT POLE TO BE RELOCATED
	RELOCATED LIGHT POLE
	2 - 4 INCH SCHEDULE 40 PVC CONDUITS
	2 INCH SCHEDULE 40 PVC CONDUIT
	ELECTRICAL MANHOLE
	PROPOSED COMBINATION INLET PROTECTION
	PROPOSED INLET
	8 INCH TRENCH DRAIN
	6" PVC PIPE
	DOUBLE/ SINGLE PARKING METER



WALLACE MONTGOMERY
1100 N. WASHINGTON AVE., SUITE 200
ROCKVILLE, MD 20850
TEL: 301.981.1000
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 24 HOURS AT LEAST IN ADVANCE FROM YOUR CONSTRUCTION



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:31:30-0400' SMP# _____ REVIEWED BY _____ APPROVAL DATE _____	AS BUILT PLAN APPROVAL _____ REVIEWED BY _____ APPROVAL DATE _____	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 IFB	SCALE: 1"=20' SHEET NO. 8 OF 37	FILE # _____
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	

IFB # 04-23
SECTION VII



C-1
CURVE DATA
DELTA = 07°38'49.6" LT.
Dc = 01°18'07.8"
R = 4,400.00'
T = 294.06'
L = 587.26'
CH = 586.82'
E = 9.82'

C-2
CURVE DATA
DELTA = 24°43'12.2" LT.
Dc = 05°12'31.4"
R = 1,100.00'
T = 241.05'
L = 474.59'
CH = 470.32'
E = 26.10'

CURB AND GUTTER	
249 L.F.	FURNISH AND INSTALL TYPE 'A' CURB & GUTTER (MC-100.00)
10.5 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB

SIDEWALK	
480 S.F.	FURNISH AND INSTALL 4" CONCRETE SIDEWALK
39 S.F.	FURNISH AND INSTALL DETECTABLE WARNING SURFACE

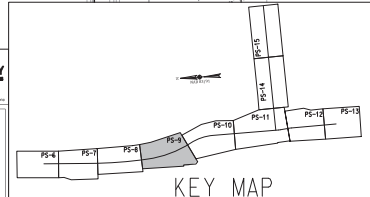
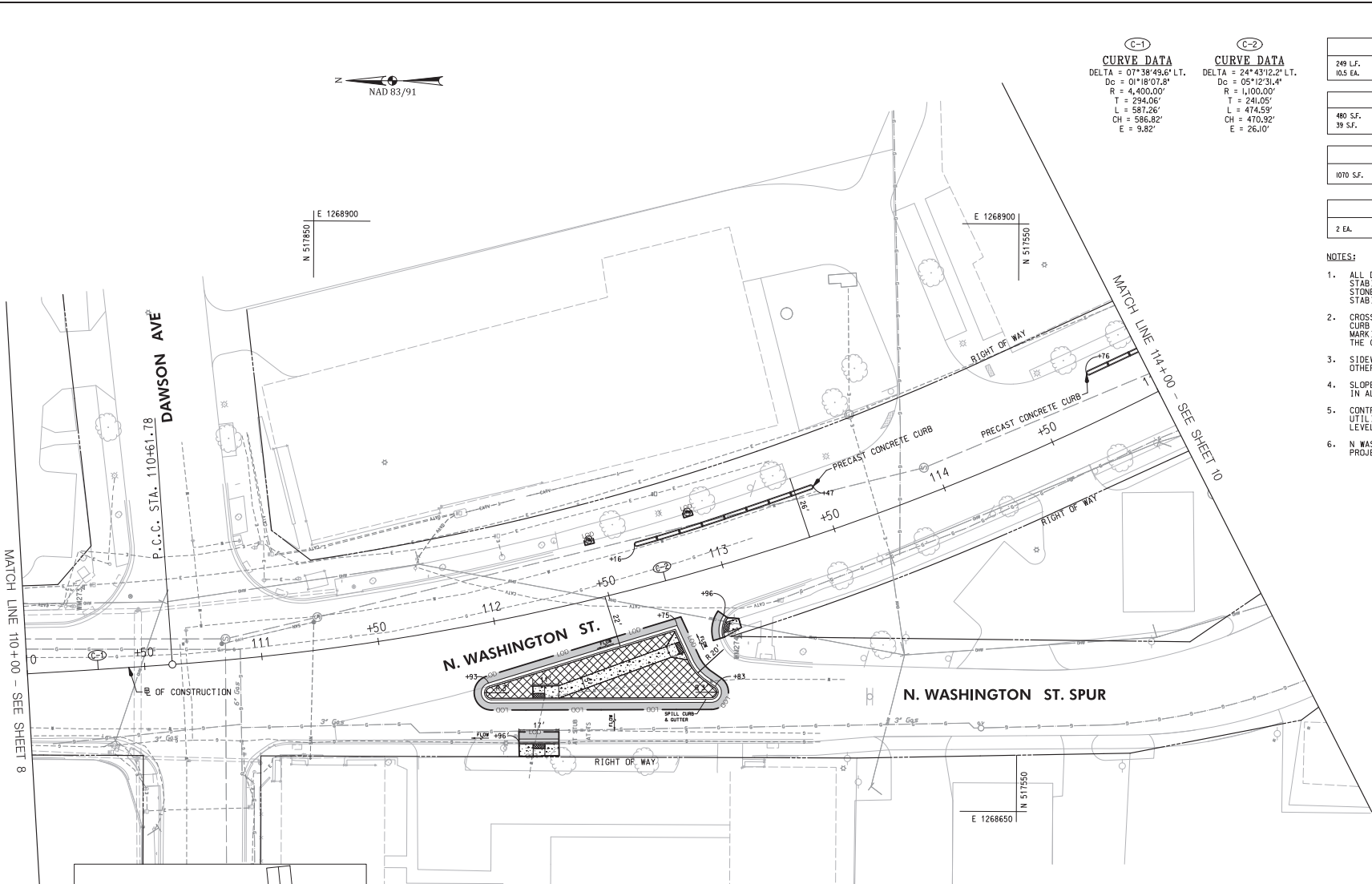
PAVEMENT REMOVAL	
1070 S.F.	REMOVAL OF EXISTING PAVEMENT - SEE LANDSCAPING SHEETS

SITE	
2 EA.	FURNISH AND INSTALL PARKING METER

- NOTES:**
- ALL DISTURBED AREA, AS SHOWN ON THE PLANS, SHALL BE STABILIZED BY THE END OF EACH WORK DAY USING NO. 57 STONE. NO AREA SHALL BE DISTURBED THAT CANNOT BE STABILIZED BY THE END OF EACH WORK DAY.
 - CROSSWALK SHALL BE ALIGNED WITH THE PROPOSED CURB RAMPS, AND THE EDGE OF PROPOSED CROSSWALK MARKINGS SHALL ENCLOSE THE ENTIRE WIDTH OF THE CURB RAMPS.
 - SIDEWALK WIDTH SHALL BE 5' MINIMUM, UNLESS OTHERWISE NOTED.
 - SLOPE FOR LANDING AREA SHALL BE 48:1 MAXIMUM IN ALL DIRECTIONS.
 - CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. SEE SHEET 6 FOR OWNER INFORMATION. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
 - N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.

LEGEND

- PROPOSED PLAIN CONCRETE SIDEWALK
- PROPOSED FULL DEPTH RECONSTRUCTION
- COMMERCIAL/MIXED-USE DRIVEWAY APRON
- PROPOSED DETECTABLE WARNING SURFACE
- REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING TREE
- LIMIT OF DISTURBANCE
- REMOVE AND REPLACE PUSH BUTTON
- EXISTING LIGHT POLE TO BE RELOCATED
- RELOCATED LIGHT POLE
- 2 - 4 INCH SCHEDULE 40 PVC CONDUITS
- 2 INCH SCHEDULE 40 PVC CONDUIT
- ELECTRICAL MANHOLE
- PROPOSED COMBINATION INLET PROTECTION
- PROPOSED INLET
- 8 INCH TRENCH DRAIN
- 6" PVC PIPE
- DOUBLE/ SINGLE PARKING METER

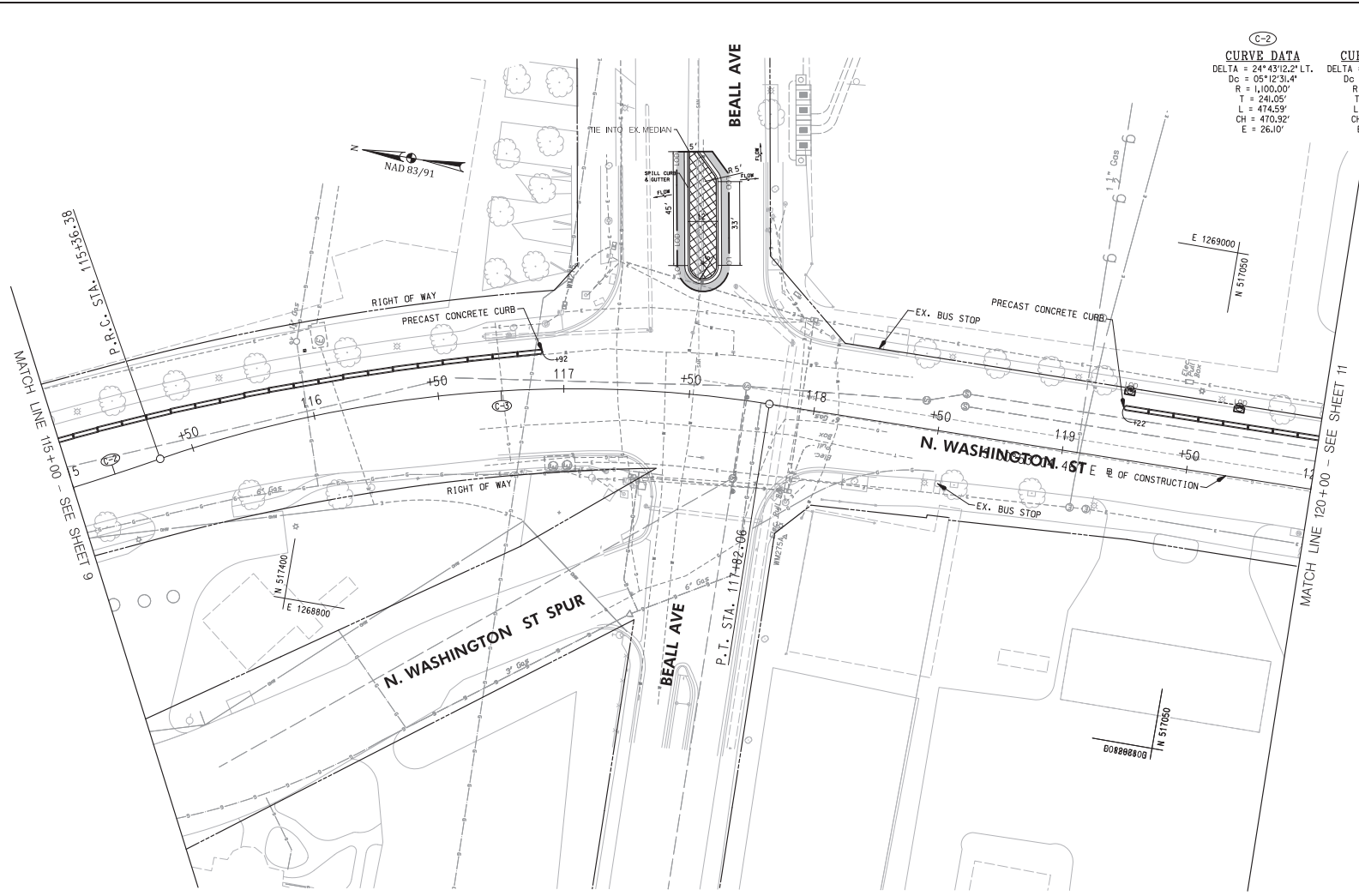


WALLACE MONTGOMERY
CONSULTANTS
1100 W. MONROE ST. SUITE 200
ROCKVILLE, MD 20854
TEL: 301-981-9300
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-257-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simons 2022.04.19 17:31:33-04'00" DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 IFB	SCALE: 1"=20' SHEET NO. 9 OF 37	FILE # _____																																																							
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		<table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>							DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																	
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																											

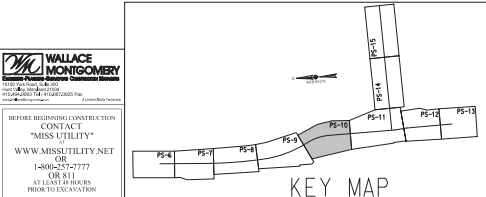


C-2	CURVE DATA	C-3	CURVE DATA
	DELTA = 24°43'12.2" LT. Dc = 05°12'31.4" R = 1,000.00' T = 240.45' L = 474.59' CH = 470.92' E = 26.10'		DELTA = 28°09'10.9" RT. Dc = 11°27'33.0" R = 500.00' T = 126.37' L = 245.68' CH = 243.22' E = 15.48'

PAVEMENT REMOVAL	
487 S.F.	REMOVAL OF EXISTING PAVEMENT - SEE LANDSCAPING SHEETS
CONCRETE CURB AND GUTTER	
112 L.F.	FURNISH AND INSTALL TYPE '1' CURB & GUTTER (MC-100.01)
27 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB
SITE	
2 EA.	FURNISH AND INSTALL PARKING METER
SIDEWALK	
2 S.F.	FURNISH AND INSTALL 4" CONCRETE SIDEWALK

- NOTES:
- ALL DISTURBED AREA, AS SHOWN ON THE PLANS, SHALL BE STABILIZED BY THE END OF EACH WORK DAY USING NO. 57 STONE. NO AREA SHALL BE DISTRIBUTED THAT CANNOT BE STABILIZED BY THE END OF EACH WORK DAY.
 - CROSSWALK SHALL BE ALIGNED WITH THE PROPOSED CURB RAMPS, AND THE EDGE OF PROPOSED CROSSWALK MARKINGS SHALL ENCLOSE THE ENTIRE WIDTH OF THE CURB RAMPS.
 - SIDEWALK WIDTH SHALL BE 5' MINIMUM, UNLESS OTHERWISE NOTED.
 - SLOPE FOR LANDING AREA SHALL BE 48:1 MAXIMUM IN ALL DIRECTIONS.
 - CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER, SEE SHEET 6 FOR OWNER INFORMATION.
 - N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.

LEGEND	
	PROPOSED PLAIN CONCRETE SIDEWALK
	PROPOSED FULL DEPTH RECONSTRUCTION
	COMMERCIAL/MIXED-USE DRIVEWAY APRON
	PROPOSED DETECTABLE WARNING SURFACE
	REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING TREE
	LIMIT OF DISTURBANCE
	REMOVE AND REPLACE PUSH BUTTON
	EXISTING LIGHT POLE TO BE RELOCATED
	RELOCATED LIGHT POLE
	2 - 4 INCH SCHEDULE 40 PVC CONDUITS
	2 INCH SCHEDULE 40 PVC CONDUIT
	ELECTRICAL MANHOLE
	PROPOSED COMBINATION INLET PROTECTION
	PROPOSED INLET
	8 INCH TRENCH DRAIN
	6" PVC PIPE
	DOUBLE/ SINGLE PARKING METER



WALLACE MONTGOMERY
1100 North Rockville Road
Rockville, MD 20850
Tel: 301-251-7777
Fax: 301-251-7777
www.wallacemontgomery.com

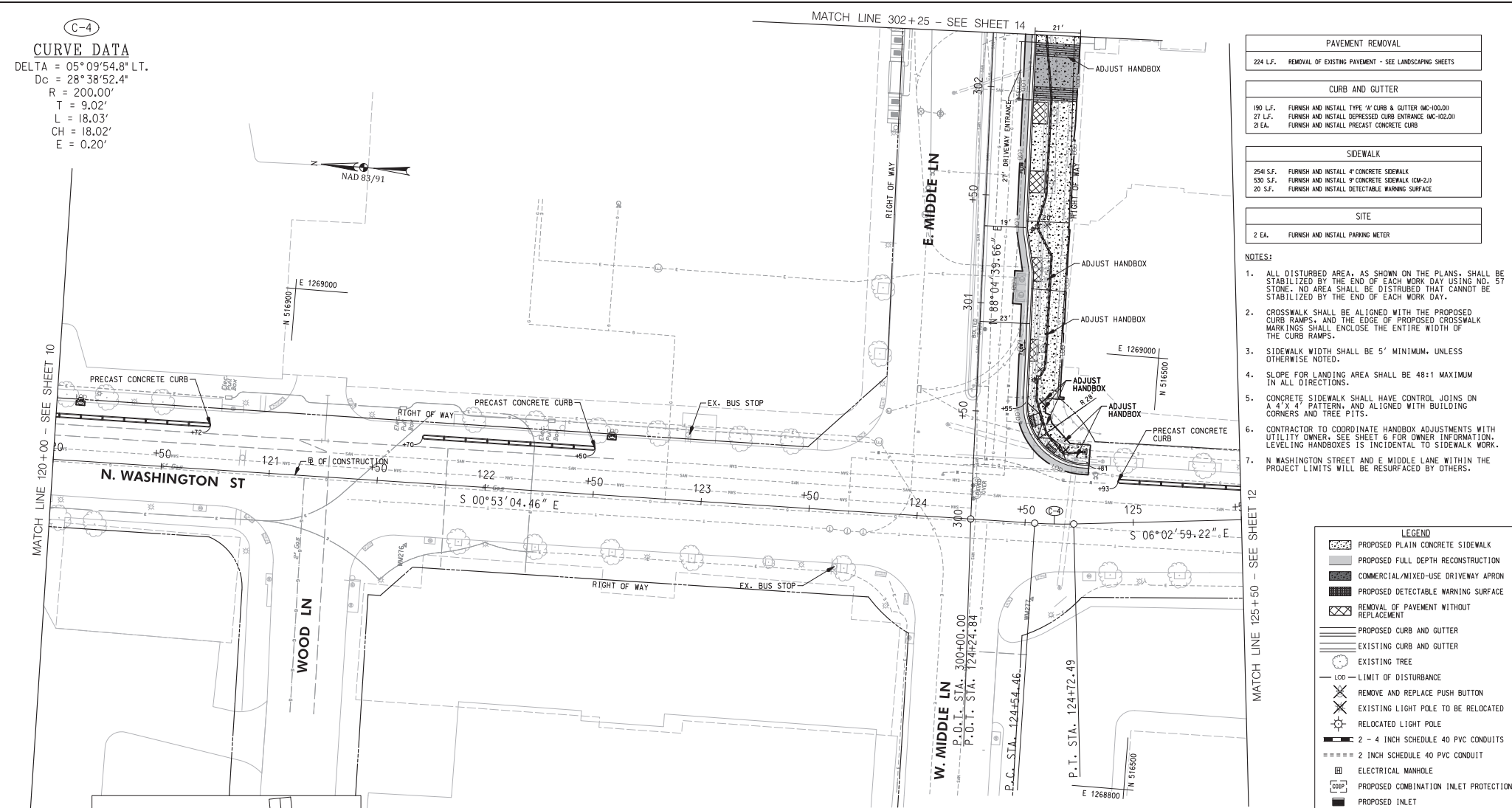
BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL _____ Craig L. Simoneau 2022.04.19 17:31:54+0000' DIRECTOR OF PUBLIC WORKS	AS BUILT PLAN APPROVAL _____ _____ CHIEF, CONSTRUCTION MANAGEMENT	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 IFB	SCALE: 1"=20' SHEET NO. 10 OF 37	FILE #
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		APPROVAL DATE _____		APPROVAL DATE _____		APPROVAL DATE _____	

C-4

CURVE DATA
 DELTA = 05°09'54.8" LT.
 Dc = 28°38'52.4"
 R = 200.00'
 T = 9.02'
 L = 18.03'
 CH = 18.02'
 E = 0.20'



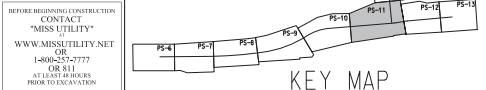
PAVEMENT REMOVAL	
224 L.F.	REMOVAL OF EXISTING PAVEMENT - SEE LANDSCAPING SHEETS
CURB AND GUTTER	
190 L.F.	FURNISH AND INSTALL TYPE 'A' CURB & GUTTER (MC-100.0)
27 L.F.	FURNISH AND INSTALL DEPRESSED CURB ENTRANCE (MC-102.0)
21 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB
SIDEWALK	
268 S.F.	FURNISH AND INSTALL 4" CONCRETE SIDEWALK
630 S.F.	FURNISH AND INSTALL 9" CONCRETE SIDEWALK (CM-21)
20 S.F.	FURNISH AND INSTALL DETECTABLE WARNING SURFACE
SITE	
2 EA.	FURNISH AND INSTALL PARKING METER

- NOTES:**
- ALL DISTURBED AREA, AS SHOWN ON THE PLANS, SHALL BE STABILIZED BY THE END OF EACH WORK DAY USING NO. 57 STONE. NO AREA SHALL BE DISTURBED THAT CANNOT BE STABILIZED BY THE END OF EACH WORK DAY.
 - CROSSWALK SHALL BE ALIGNED WITH THE PROPOSED CURB RAMP, AND THE EDGE OF PROPOSED CROSSWALK MARKINGS SHALL ENCLOSE THE ENTIRE WIDTH OF THE CURB RAMP.
 - SIDEWALK WIDTH SHALL BE 5' MINIMUM, UNLESS OTHERWISE NOTED.
 - SLOPE FOR LANDING AREA SHALL BE 48:1 MAXIMUM IN ALL DIRECTIONS.
 - CONCRETE SIDEWALK SHALL HAVE CONTROL JOINS ON A 4' X 4' PATTERN, AND ALIGNED WITH BUILDING CORNERS AND TREE PITTS.
 - CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER, SEE SHEET 6 FOR OWNER INFORMATION. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
 - N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.

LEGEND

- PROPOSED PLAIN CONCRETE SIDEWALK
- PROPOSED FULL DEPTH RECONSTRUCTION
- COMMERCIAL/MIXED-USE DRIVEWAY APRON
- PROPOSED DETECTABLE WARNING SURFACE
- REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING TREE
- LIMIT OF DISTURBANCE
- REMOVE AND REPLACE PUSH BUTTON
- EXISTING LIGHT POLE TO BE RELOCATED
- RELOCATED LIGHT POLE
- 2 - 4 INCH SCHEDULE 40 PVC CONDUITS
- 2 INCH SCHEDULE 40 PVC CONDUIT
- ELECTRICAL MANHOLE
- PROPOSED COMBINATION INLET PROTECTION
- PROPOSED INLET
- 8 INCH TRENCH DRAIN
- 6" PVC PIPE
- DOUBLE/ SINGLE PARKING METER

WALLACE MONTGOMERY
 ENGINEERS
 1100 W. WASHINGTON ST., SUITE 200
 ROCKVILLE, MD 20854
 (301) 581-1100
 WWW.WALLACEMONTGOMERY.COM



DEPARTMENT OF PUBLIC WORKS
 CITY OF ROCKVILLE
 111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED: _____
 DRAFTED: _____
 CHECKED: _____

DESIGN PLAN APPROVAL
 Craig L. Simoneau
 2022.04.19
 17:31:35-04'00"

AS BUILT PLAN APPROVAL

STORM DRAIN AND PAVING PLAN

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

DATE SUBMITTED: APRIL 2022
 SCALE: 1"=20'
 SHEET NO. 11 OF 37
 FILE # _____

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

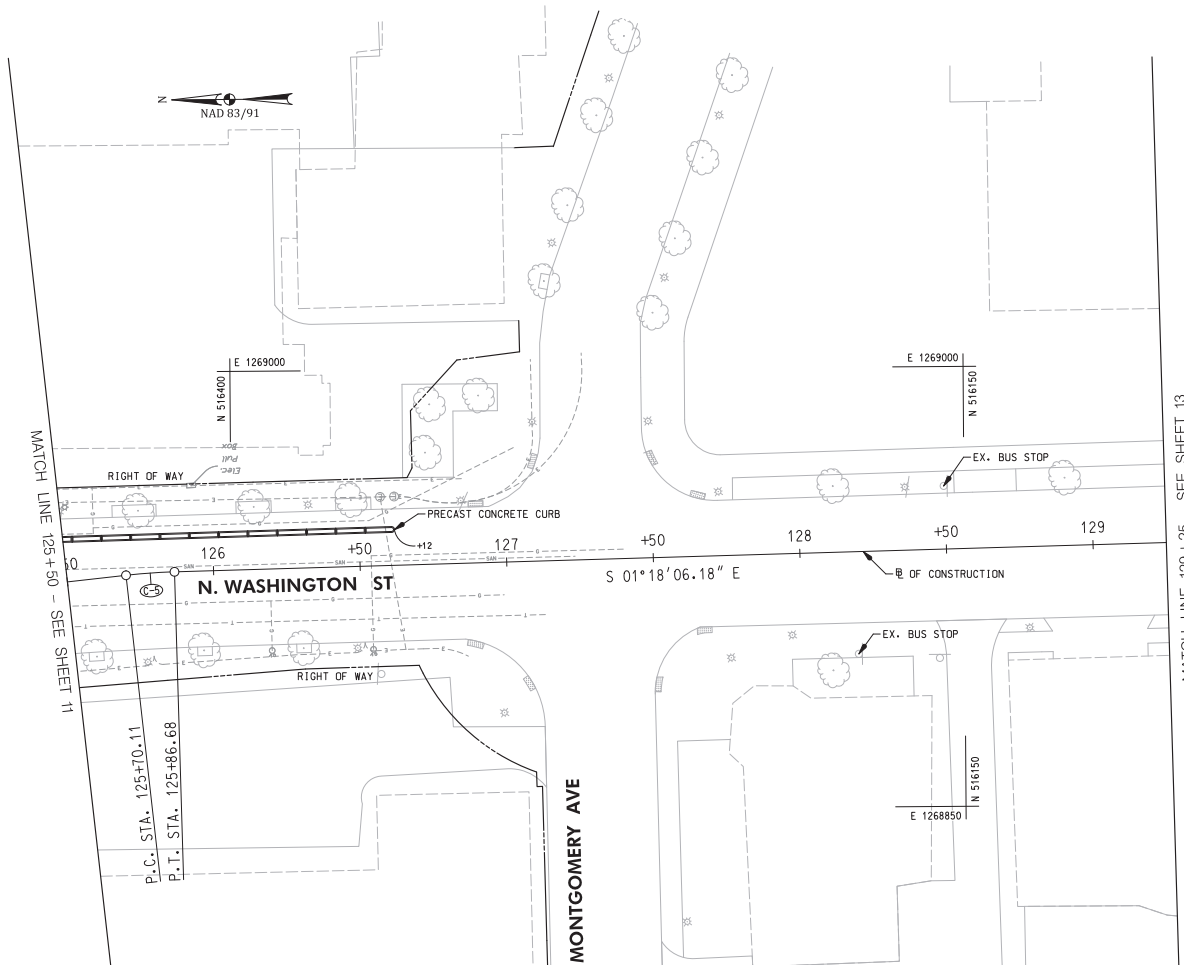
DATE: 04-13-2022

DATE SUBMITTED: APRIL 2022
 SCALE: 1"=20'
 SHEET NO. 11 OF 37
 FILE # _____

(C-5)
CURVE DATA
DELTA = 04°44'53.0" RT.
Dc = 28°38'52.4"
R = 200.00'
T = 8.29'
L = 16.57'
CH = 16.57'
E = 0.17'

CURB AND GUTTER	
16.5 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB

- NOTES:
- CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. SEE SHEET 6 FOR OWNER INFORMATION. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
 - N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.

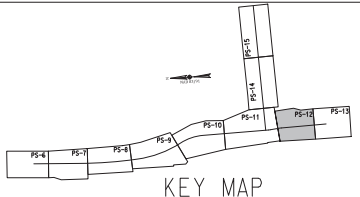


LEGEND

- PROPOSED PLAIN CONCRETE SIDEWALK
- PROPOSED FULL DEPTH RECONSTRUCTION
- COMMERCIAL/MIXED-USE DRIVEWAY APRON
- PROPOSED DETECTABLE WARNING SURFACE
- REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING TREE
- LIMIT OF DISTURBANCE
- REMOVE AND REPLACE PUSH BUTTON
- EXISTING LIGHT POLE TO BE RELOCATED
- RELOCATED LIGHT POLE
- 2 - 4 INCH SCHEDULE 40 PVC CONDUITS
- 2 INCH SCHEDULE 40 PVC CONDUIT
- ELECTRICAL MANHOLE
- PROPOSED COMBINATION INLET PROTECTION
- PROPOSED INLET
- 8 INCH TRENCH DRAIN
- 6" PVC PIPE
- DOUBLE/ SINGLE PARKING METER

WALLACE MONTGOMERY
CONSULTANTS
1100 N. GREENSBORO RD.
SUITE 100
ROCKVILLE, MD 20850
TEL: 301-981-1100
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-257-7777 FOR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION.



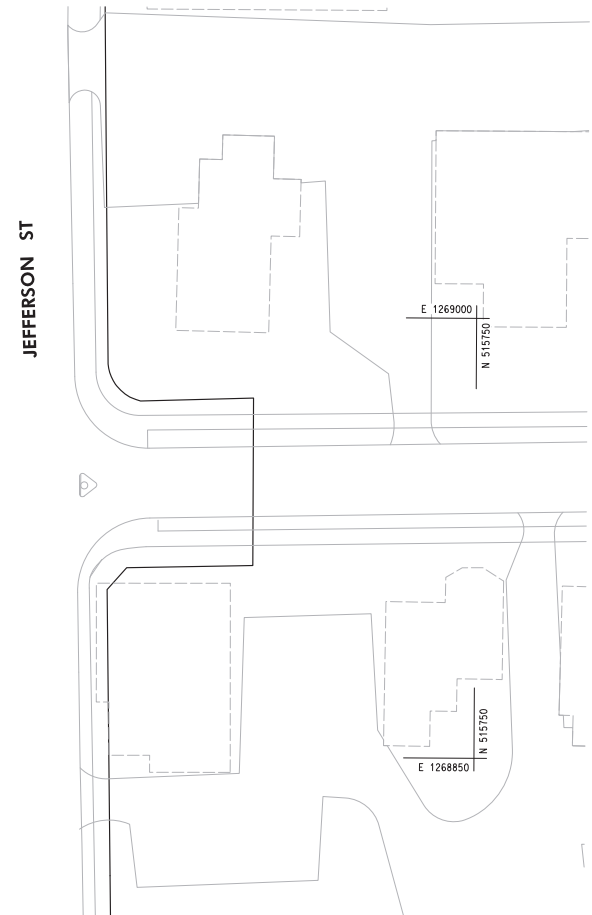
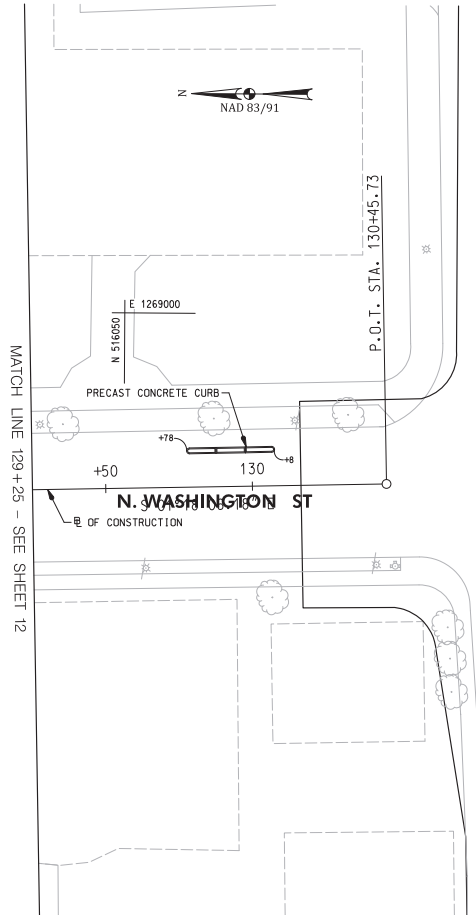
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED: _____ DRAFTED: _____ CHECKED: _____	DESIGN PLAN APPROVAL _____ Craig L. Simoneau 2022.04.19 17:31:30-04:00'	AS BUILT PLAN APPROVAL _____ _____ _____	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 IFB	SCALE: 1"=20' SHEET NO. 12 OF 37	FILE #
	DIRECTOR OF PUBLIC WORKS APPROVAL DATE	SMP# _____ REVIEWED BY _____ _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	PM# _____ SCP# _____	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

CURB AND GUTTER	
3 EA.	FURNISH AND INSTALL PRECAST CONCRETE CURB

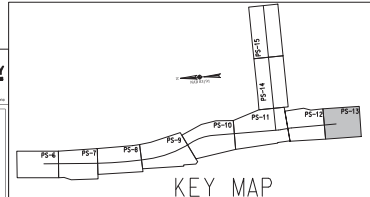
NOTES:

1. CONTRACTOR TO COORDINATE HANDBOX ADJUSTMENTS WITH UTILITY OWNER. SEE SHEET 6 FOR OWNER INFORMATION. LEVELING HANDBOXES IS INCIDENTAL TO SIDEWALK WORK.
7. N WASHINGTON STREET AND E MIDDLE LANE WITHIN THE PROJECT LIMITS WILL BE RESURFACED BY OTHERS.



LEGEND

	PROPOSED PLAIN CONCRETE SIDEWALK
	PROPOSED FULL DEPTH RECONSTRUCTION
	COMMERCIAL/MIXED-USE DRIVEWAY APRON
	PROPOSED DETECTABLE WARNING SURFACE
	REMOVAL OF PAVEMENT WITHOUT REPLACEMENT
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING TREE
	LIMIT OF DISTURBANCE
	REMOVE AND REPLACE PUSH BUTTON
	EXISTING LIGHT POLE TO BE RELOCATED
	RELOCATED LIGHT POLE
	2 - 4 INCH SCHEDULE 40 PVC CONDUITS
	2 INCH SCHEDULE 40 PVC CONDUIT
	ELECTRICAL MANHOLE
	PROPOSED COMBINATION INLET PROTECTION
	PROPOSED INLET
	8 INCH TRENCH DRAIN
	6" PVC PIPE
	DOUBLE/ SINGLE PARKING METER



WALLACE MONTGOMERY
CONSULTANTS
1100 N. GREENSBORO RD.
SUITE 200
ROCKVILLE, MD 20850
TEL: 301-981-9800
WWW.WALLACEMONTGOMERY.COM

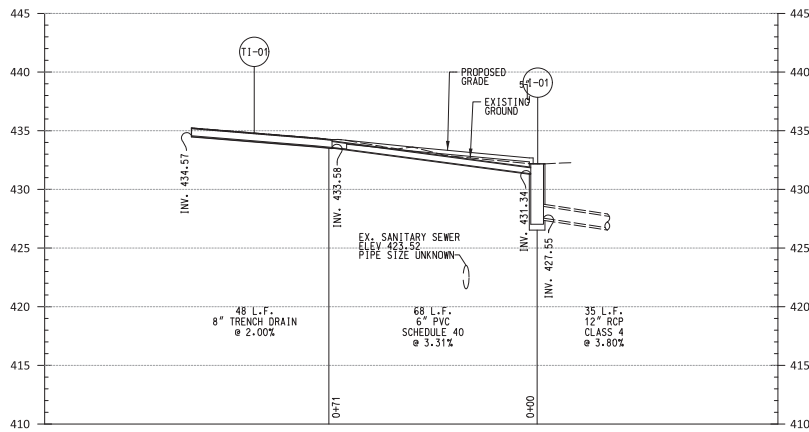
BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL _____ Craig L. Simmons 2022.04.19 17:31:36-04'00" SMP# _____ DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL _____ _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	STORM DRAIN AND PAVING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 DATE: 04-13-2022	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																										SCALE: 1"=20' SHEET NO. 13 OF 37	FILE #
	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																		
APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	DATE SUBMITTED: APRIL 2022 DATE: 04-13-2022	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL IFB																														

STORM DRAIN AND PAVING NOTES: (NOV 2016)

1. ALL STORM DRAIN AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST GENERAL SPECIFICATIONS AND STANDARD DETAILS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE CITY OF ROCKVILLE UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE SPECIFIED, ALL STORM DRAIN PIPES SHALL BE INSTALLED WITH MONTGOMERY COUNTY STANDARD "C" SHAPED SUBGRADE BEDDING OR BETTER.
3. ALL PUBLIC STORM DRAIN SHALL BE A MINIMUM CLASS IV RUBBER GASKET REINFORCED CONCRETE PIPE IN ACCORDANCE WITH THE LATEST VERSIONS OF ASTM C-76 AND ASTM C-443.
4. IF SPRINGHEADS ARE ENCOUNTERED IN ANY PHASE DURING CONSTRUCTION, CONSTRUCTION MUST BE STOPPED UNTIL THEY ARE CAPPED AND PIPED TO A STORM DRAIN OR STREAM AS DIRECTED BY THE CITY.
5. PROVIDE POSITIVE DRAINAGE OF ALL AREAS DISTURBED BY CONSTRUCTION. MINIMUM SLOPE IN PAVED AREAS IS ONE PERCENT. MINIMUM SLOPE OF GRADED AREAS IS TWO PERCENT. MAXIMUM SLOPE ON EARTH BANKS IS 3:1.
6. WHEN TYING INTO EXISTING PAVEMENT, SAW CUT EXISTING PAVING EDGE TO PROVIDE A CLEAN, STRAIGHT, AND VERTICAL JOINT. WHEN REMOVING EXISTING CURB OR SIDEWALK, REMOVE TO THE NEAREST JOINT.
7. PAVING CONTRACTOR IS RESPONSIBLE FOR ADJUSTING UTILITY TOPS TO FINISHED GRADE.
8. APPLICANT IS RESPONSIBLE FOR INSTALLING ALL PAVEMENT MARKINGS AND SIGNAGE IN ACCORDANCE WITH THE FINAL PAVEMENT MARKING AND SIGNAGE PLAN, WHICH IS APPROVED BY THE CHIEF OF TRAFFIC AND TRANSPORTATION.
9. FOR PAVEMENT SECTIONS OF PRIVATE DRIVEWAYS AND PARKING LOTS, REFER TO ZONING AND PLANNING ORDINANCE, 25-16.06.D. - PARKING DESIGN STANDARDS - PAVING SPECIFICATIONS



TRENCH DRAIN TO I-01

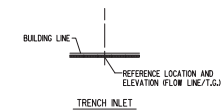
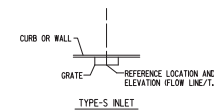
SCALE: HOR. 1"=20'
VERT. 1"=5'

STRUCTURE SCHEDULE									
PLAN SHEET	NUMBER	STATION	OFFSET	TYPE	ELEVATION		STANDARD	VERTICAL DEPTH	COMMENTS
					TOP	INVERT			
PS-14	T1-01	E MIDDLE LN 302+69.11	31.8' RT.	DUCTILE IRON TRENCH DRAIN GRATE BY SWIFTDRAIN	434.76	435.58	N/A	N/A	
PS-14	I-01	E MIDDLE LN 303+64.5	15.7' RT.	TYPE S COMBINATION INLET DOUBLE GRATE TANDEM	432.17	431.34	MD 374.71	0.00	

NOTES:

1. 8 INCH WIDE DUCTILE IRON TRENCH DRAIN KIT BY SWIFT DRAIN OR AN APPROVED EQUAL.

PIPE SCHEDULE					
PLAN SHEET	STR 1	STR 2	SIZE	TYPE	LENGTH
PS-14	T1-01	I-01	6"	PVC SCHEDULE 40	68'



WALLACE MONTGOMERY
CONSULTANTS
1100 N. GREENSBORO BLVD.
SUITE 200
ROCKVILLE, MD 20850
TEL: 301-983-9300
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-257-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO EXCAVATION.



DATE	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED: _____ DRAFTED: _____ CHECKED: _____	DESIGN PLAN APPROVAL Craig L. Simonseau 2022.04.19 17:21:39:04:00 SMP# _____ DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL _____ REVIEWED BY _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	DRAINAGE PROFILE	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 SCALE N.T.S. SHEET NO. 16 OF 37	FILE #
	BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-257-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO EXCAVATION.	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

TEMPORARY TRAFFIC CONTROL REQUIREMENTS

- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE LATEST MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD), STATE HIGHWAY ADMINISTRATION'S STANDARDS, SPECIFICATIONS AND GUIDELINES.
- THE CONTRACTOR SHALL NOTIFY UPCOMING CONSTRUCTION TO THE CITY'S COMMUNITY ENGAGEMENT COORDINATOR (TEL: 240-314-8344); CITY POLICE (240-314-8500); COUNTY POLICE (301-279-8000) AND IMPACTING BUSINESSES AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.
- IF BUS STOPS AND ROUTES WOULD BE IMPACTED BY THE PROPOSED TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL NOTIFY UPCOMING CONSTRUCTION TO APPROPRIATE AGENCIES AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION (MMAT 202-962-6085; & COUNTY RIDE-ON 240-771-5800).
- THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 1-800-257-7777, 5 (FIVE) WORKING DAYS BEFORE WORK.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN CIRCULATIONS DURING THE CONSTRUCTION FOR SIDEWALK CLOSURE. THE CONTRACTOR SHALL SET UP APPLICABLE DETOUR SIGNS AND BARRICADES BASED ON THE MD SHA STANDARDS NO. 104.06-09A, 104.06-09B, 104.06-09C OR 104.06-09D.
- THE CONTRACTOR SHALL ONLY PERFORM AS MUCH WORK CAN BE COMPLETED DURING EACH WORKING DAY.
- AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SIGNS THAT ARE NOT APPLICABLE.
- IN CASE OF NIGHT TIME WORKS, SAFETY AND LIGHTING DEVICES SHALL PROPERLY BE INSTALLED TO PREVENT ANY WORK ZONE RELATED CRASHES. FOR ANY NIGHTTIME WORK, IF APPLICABLE, THE CONTRACTOR SHALL OBTAIN A NOISE WAIVER FROM MONTGOMERY COUNTY IN ADVANCE.
- ACCESS TO RESIDENTIAL PROPERTIES AND DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES.
- PERMANENT SIGNS IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL, SET UPS SHALL BE COVERED OR REMOVED AND SHALL BE RETURNED TO THE ORIGINAL PLACES AFTER THE COMPLETION OF THE CONSTRUCTION.
- ADDITIONAL CONSTRUCTION WARNING SIGNS SHALL BE PLACED AS NEEDED WHEN DIRECTED BY THE CITY ENGINEER OR INSPECTOR.
- ANY PAVEMENT MARKING, SIGNS, OR OTHER TRAFFIC CONTROL DEVICES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- FOR ANY ROADWAY CLOSURE, THE CONTRACTOR SHALL PROVIDE PROPER VARIABLE MESSAGE SIGNS TO INFORM OF UPCOMING CLOSURE ON BOTH DIRECTIONS OF THE ROADWAY FOR AT LEAST 48 HOURS BEFORE THE CLOSURE.
- THE CONTRACTOR SHALL USE CERTIFIED FLAGGERS DURING FLAGGING OPERATIONS.
- IF THE PROPOSED TRAFFIC CONTROL PLANS REQUIRE PARKING RESTRICTIONS ALONG THE CITY ROADWAYS, THE CONTRACTOR SHALL POST PROPER SIGNS TO INDICATE TEMPORARY PARKING RESTRICTIONS AT LEAST 48 HOURS BEFORE THE CONSTRUCTION. AFTER COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE THE TEMPORARY SIGNS.
- FOR SIGNAL DETECTION AND TIMING ADJUSTMENT, CONTACT MONTGOMERY COUNTY TMC AT 240-777-2100 AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT SAFETY OF THE PUBLIC AND THE WORK CREW IS MAINTAINED AT ALL TIMES THROUGHOUT THE TERM OF THE CONTRACT. THE MOTORIST SHALL BE GUIDED IN A CLEAR AND POSITIVE MANNER WHILE APPROACHING AND PASSING THROUGH CONSTRUCTION WORK AND EQUIPMENT AREAS.
- THE CONTRACTOR SHALL INSTALL (PRIOR TO BEGINNING CONSTRUCTION) AND MAINTAIN DURING CONSTRUCTION ALL NECESSARY TRAFFIC CONTROL DEVICES DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS OF TRAFFIC CONTROL SHOWN ON THESE DRAWINGS, THE SPECIFICATIONS, AND THE NOTICED. THE WORK HOURS ARE SUBJECT TO COMPLIANCE WITH MUTCD SPECIFICATIONS.
- THE CONTRACTOR AND INSPECTORS SHALL NOT PARK VEHICLES OR WORK BEHIND DRUMS WITHIN THE TAPER OR BUFFER AREAS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10' TRAVEL LANES.
- STAGING OR STOCKPILING OF MATERIAL ON-SITE SHALL BE PROHIBITED.

CONTACT INFORMATION

- CONTACT THE CITY OF ROCKVILLE DEPARTMENT OF PUBLIC WORKS AT 240-314-8500 PW@ROCKVILLE.MD.GOV AT LEAST TWO WEEKS IN ADVANCE TO COORDINATE ALL TEMPORARY TRAFFIC CONTROL (TTC), ESPECIALLY IN THE VICINITY OF ANY TRAFFIC SIGNALS.

MISCELLANEOUS

- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS/HER OPERATIONS.
- ALL TTC DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.

TRAFFIC CONTROL - SEQUENCE OF CONSTRUCTION

INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION (SEE EROSION AND SEDIMENT CONTROL PLANS).

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD LEFT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.04-04, PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.04-06 OR PART-TIME STANDARD SHOULDER WORK IN ACCORDANCE WITH STANDARD NO. MD 104.04-02 AS NEEDED ALONG EASTBOUND AND WESTBOUND E. MIDDLE LN.

CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
-INSTALLATION OF FINAL PAVEMENT SURFACE, SIGNING, AND PAVEMENT MARKING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING DETAIL TEMPORARY TRAFFIC CONTROL PLANS UTILIZING THE SUGGESTED SEQUENCE OF CONSTRUCTION.

STAGE 1 (N. WASHINGTON ST GORE ISLAND CONSTRUCTION):

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-06 AS NEEDED ALONG SOUTHBOUND N. WASHINGTON ST.

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD ROADWAY CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.06-06 AS NEEDED ALONG N. WASHINGTON ST. SPUR.

SEE SHEET 18 FOR PEDESTRIAN DETOUR PLANS DURING THE CONSTRUCTION TO MINIMIZE IMPACTS BY UTILIZING STANDARD NOS. MD 104.06-09A, 09B, 09C AND 09D.

VEHICLES TRAVELLING ALONG NORTHBOUND N. WASHINGTON ST. SPUR TO ACCESS SOUTHBOUND N. WASHINGTON ST. CAN BE DETOURED SOUTHBOUND ALONG N. WASHINGTON ST. SPUR TO UTILIZE EASTBOUND BEALL AVENUE FOR ACCESS TO SOUTHBOUND N. WASHINGTON ST. VEHICLES TRAVELLING ALONG SOUTHBOUND N. WASHINGTON ST. INTENDING TO ACCESS SOUTHBOUND N. WASHINGTON ST. SPUR CAN BE DETOURED ALONG SOUTHBOUND N. WASHINGTON ST. TO UTILIZE WESTBOUND BEALL AVE FOR ACCESS.

THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSSING ACROSS THE N. WASHINGTON ST. SPUR DURING CONSTRUCTION OF THE GORE AREA FOR PEDESTRIAN MOVEMENTS.

DURING CONSTRUCTION OF THE RAMP ALONG N. WASHINGTON ST. SPUR PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR A PART-TIME PEDESTRIAN DETOUR IN ACCORDANCE WITH STANDARD NO. MD 104.06-09C UTILIZING THE CROSSING OF N. WASHINGTON ST SOUTHERN LEG AND PROCEEDING TO BEALL AVE.

CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
-INSTALLATION OF PROPOSED CONCRETE ISLAND AT THE INTERSECTION OF N. WASHINGTON ST. AND N. WASHINGTON ST. SPUR.
-MODIFICATION AND INSTALLATION OF EXISTING AND PROPOSED ADA RAMPS AT THE INTERSECTION OF N. WASHINGTON ST. AND N. WASHINGTON ST. SPUR.

STAGE 2 (BEALL AVENUE):

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD LEFT LANE CLOSURES IN ACCORDANCE WITH STANDARD NO. MD 104.03-04 AS NEEDED ALONG EASTBOUND AND WESTBOUND BEALL AVE. EAST OF N. WASHINGTON ST.

THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSSING ACROSS BEALL AVE. DURING CONSTRUCTION OF THE MEDIAN NOSE FOR PEDESTRIAN MOVEMENTS.

CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
-MODIFICATION OF THE EXISTING MEDIAN NOSE ALONG THE WESTBOUND APPROACH OF BEALL AVE. AT N. WASHINGTON ST.

STAGE 3 (E. MIDDLE LANE SIDEWALK):

SEE SHEET 18 FOR PEDESTRIAN DETOUR PLANS DURING THE CONSTRUCTION TO MINIMIZE IMPACTS BY UTILIZING STANDARD NOS. MD 104.06-09A, 09B, 09C AND 09D.

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-06 AS NEEDED ALONG EASTBOUND E. MIDDLE LANE BETWEEN N. WASHINGTON ST AND MARYLAND AVE. PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-06 AS NEEDED ALONG NORTHBOUND N. WASHINGTON ST. BETWEEN COURTHOUSE SQ. AND E. MIDDLE LANE.

CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
-INSTALLATION OF WIDENED SIDEWALK ALONG E. MIDDLE LANE.
-MODIFICATIONS TO THE EXISTING ADA RAMPS IN THE SOUTHEAST CORNER OF E. MIDDLE LANE AND N. WASHINGTON ST.

STAGE 4 (MILLING, OVERLAY AND TEMPORARY MARKINGS):

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD LEFT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-04 AS NEEDED ALONG NORTHBOUND AND SOUTHBOUND N. WASHINGTON ST.

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-06 AS NEEDED ALONG NORTHBOUND AND SOUTHBOUND N. WASHINGTON ST.

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD LEFT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.04-04 AS NEEDED ALONG EASTBOUND AND WESTBOUND E. MIDDLE LN.

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.04-06 AS NEEDED ALONG EASTBOUND AND WESTBOUND E. MIDDLE LN.

CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
-MILLING OF PAVEMENT ALONG N. WASHINGTON ST. AND E. MIDDLE LANE.
-INSTALLATION OF TEMPORARY PAVEMENT MARKING TAPE IN LAYOUT OF PROPOSED PAVEMENT MARKINGS.

STAGE 5 (CONCRETE CURBS AND BUFFERS):

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD SHOULDER WORK IN ACCORDANCE WITH STANDARD NO. MD 104.03-02 ALONG NORTHBOUND AND SOUTHBOUND N. WASHINGTON ST.

PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD SHOULDER WORK IN ACCORDANCE WITH STANDARD NO. MD 104.04-02 ALONG EASTBOUND AND WESTBOUND E. MIDDLE LN.

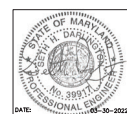
CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
-INSTALLATION OF PROPOSED PRECAST CONCRETE CURBS IN BIKE LANE BUFFER AREA ALONG N. WASHINGTON ST. AND E. MIDDLE LN.

STAGE 6 (FINAL SURFACE, PAVEMENT MARKINGS, SIGNING AND PAVEMENT MARKINGS):


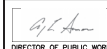
PLACE TEMPORARY TRAFFIC CONTROL DEVICES FOR PART-TIME STANDARD LEFT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-04, PART-TIME STANDARD RIGHT LANE CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.03-06 OR PART-TIME STANDARD SHOULDER WORK IN ACCORDANCE WITH STANDARD NO. MD 104.03-02 AS NEEDED ALONG NORTHBOUND AND SOUTHBOUND N. WASHINGTON ST.

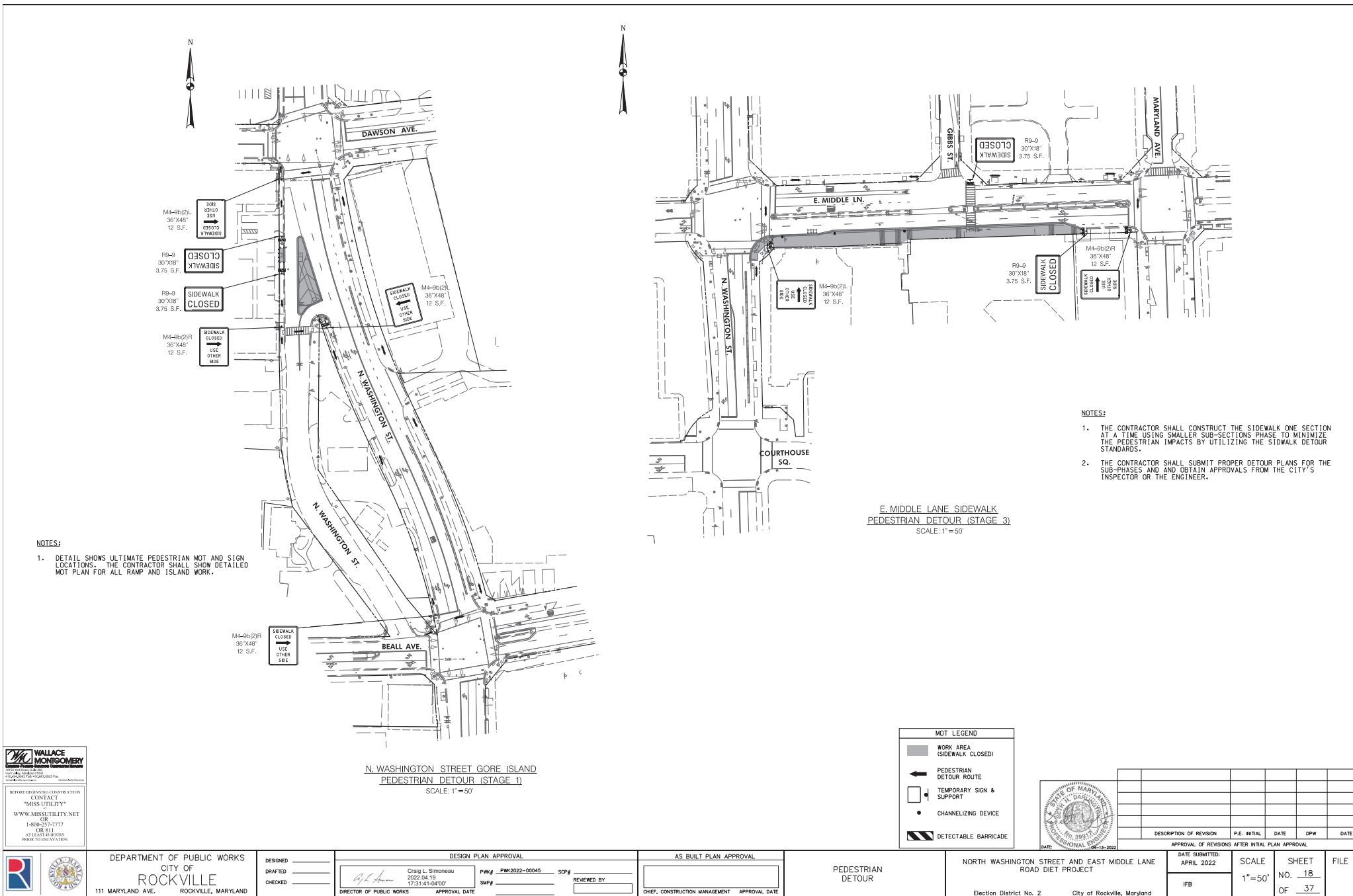


BEFORE BEGINNING OPERATION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-257-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

 <p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL  Craig L. Simoneau 2022.04.19 17:21:40-04'00" DPW# _____ SMP# _____ DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL REVIEWED BY _____ _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	MAINTENANCE OF TRAFFIC NOTES	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: MARCH 2022 DATE: 03-30-2022	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL SCALE: IFB SHEET NO. 17 OF 37	FILE #
---	--	--	--	------------------------------	---	--	---	--------



NOTES:
1. DETAIL SHOWS ULTIMATE PEDESTRIAN MOT AND SIGN LOCATIONS. THE CONTRACTOR SHALL SHOW DETAILED MOT PLAN FOR ALL RAMP AND ISLAND WORK.

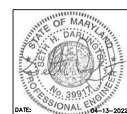
NOTES:
1. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK ONE SECTION AT A TIME USING SMALLER SUB-SECTIONS PHASE TO MINIMIZE THE PEDESTRIAN IMPACTS BY UTILIZING THE SIDEWALK DETOUR STANDARDS.
2. THE CONTRACTOR SHALL SUBMIT PROPER DETOUR PLANS FOR THE SUB-PHASES AND OBTAIN APPROVALS FROM THE CITY'S INSPECTOR OR THE ENGINEER.

E. MIDDLE LANE SIDEWALK PEDESTRIAN DETOUR (STAGE 3)
SCALE: 1" = 50'

N. WASHINGTON STREET GORE ISLAND PEDESTRIAN DETOUR (STAGE 1)
SCALE: 1" = 50'

MOT LEGEND

- WORK AREA (SIDEWALK CLOSED)
- ← PEDESTRIAN DETOUR ROUTE
- TEMPORARY SIGN & SUPPORT
- CHANNELIZING DEVICE
- ▨ DETECTABLE BARRICADE

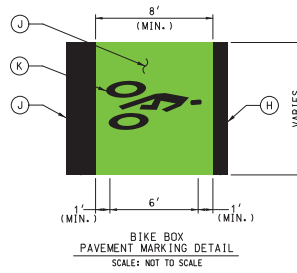
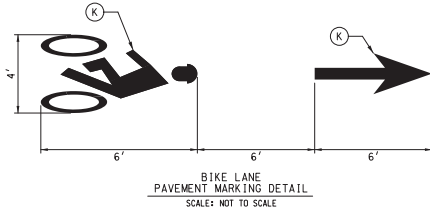
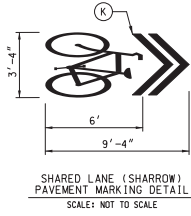


DESCRIPTION OF REVISION	P.E. INITIAL	DATE	CPW	DATE

WALLACE MONTGOMERY
Professional Engineer
State of Maryland
License No. 39971
04-13-2022

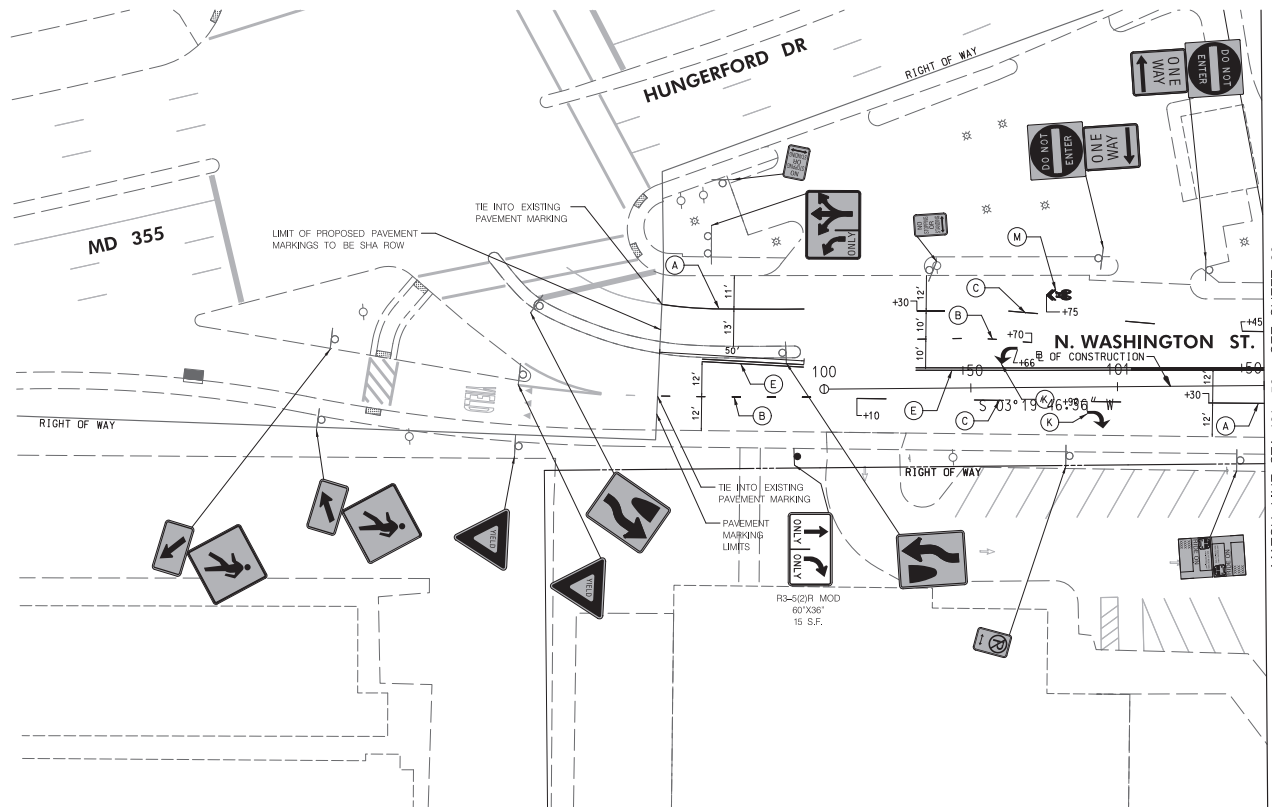
BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 USE BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:31:41+04'00'	AS BUILT PLAN APPROVAL _____	PEDESTRIAN DETOUR	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022	SCALE 1" = 50'	SHEET NO. 18 OF 37	FILE #
	DIRECTOR OF PUBLIC WORKS	APPROVAL DATE	CHIEF, CONSTRUCTION MANAGEMENT	APPROVAL DATE	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL DATE: APRIL 2022	IFB	IFB	IFB	IFB



CITY OF ROCKVILLE SIGNING AND MARKING NOTES:

1. ALL SIGNING AND MARKING SHALL BE DONE IN ACCORDANCE WITH THE LATEST MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), MARYLAND STATE HIGHWAY ADMINISTRATION'S BOOK OF STANDARDS, SPECIFICATIONS AND GUIDELINES.
2. THE CONTRACTOR SHALL USE DIAMOND GRADE REFLECTIVE SHEETING FOR ALL SIGNS.
3. CROSSWALK MARKING SHALL BE DONE USING 12 INCH WIDE WHITE HEAT APPLIED PERFORMED THERMOPLASTIC.
4. STOP LINE SHALL BE 24 INCH WIDE HEAT APPLIED PERFORMED THERMOPLASTIC. THE SPACING BETWEEN THE STOP LINE AND THE CROSSWALK MARKING SHALL BE 4 FEET AT A MINIMUM.
5. WHEN SIGNS ARE INSTALLED IN CONCRETE OR WITHIN THE SIDEWALK, A PVC SLEEVE SHALL BE PROVIDED USING 40 SCHEDULE PVC (4 INCH DIAMETER).
6. NO PARKING AND OTHER PARKING SIGNS SHALL BE INSTALLED AT A 45 DEGREE ANGLE.
7. PEDESTRIAN CROSSING SIGNS SHOULD BE INSTALLED AT MARKED CROSSWALKS AND THE BACKGROUND COLOR OF THE SIGNS SHOULD BE FLUORESCENT YELLOW GREEN (FYG).
8. SIGN HEIGHT SHALL BE MINIMUM 7 FEET HIGH FROM THE BOTTOM OF THE SIGN FACE TO THE GROUND.



MATCH LINE STA. 101+50 - SEE SHEET 20

LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	12' SOLID WHITE HEAT APPLIED PERMANENT REFLECTIVE PAVEMENT MARKING
	24' SOLID WHITE HEAT APPLIED PERMANENT REFLECTIVE PAVEMENT MARKING
	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
	BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING
	BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING
	BIKE LANE YELLOW THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON ST.
ROCKVILLE, MD 20854
TEL: 301-581-1000
WWW.WMCONSULTANTS.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 24 HOURS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED: _____
DRAFTED: _____
CHECKED: _____

DESIGN PLAN APPROVAL
Craig L. Simoneau
2022.04.19
17:31:42+04'00'

AS BUILT PLAN APPROVAL

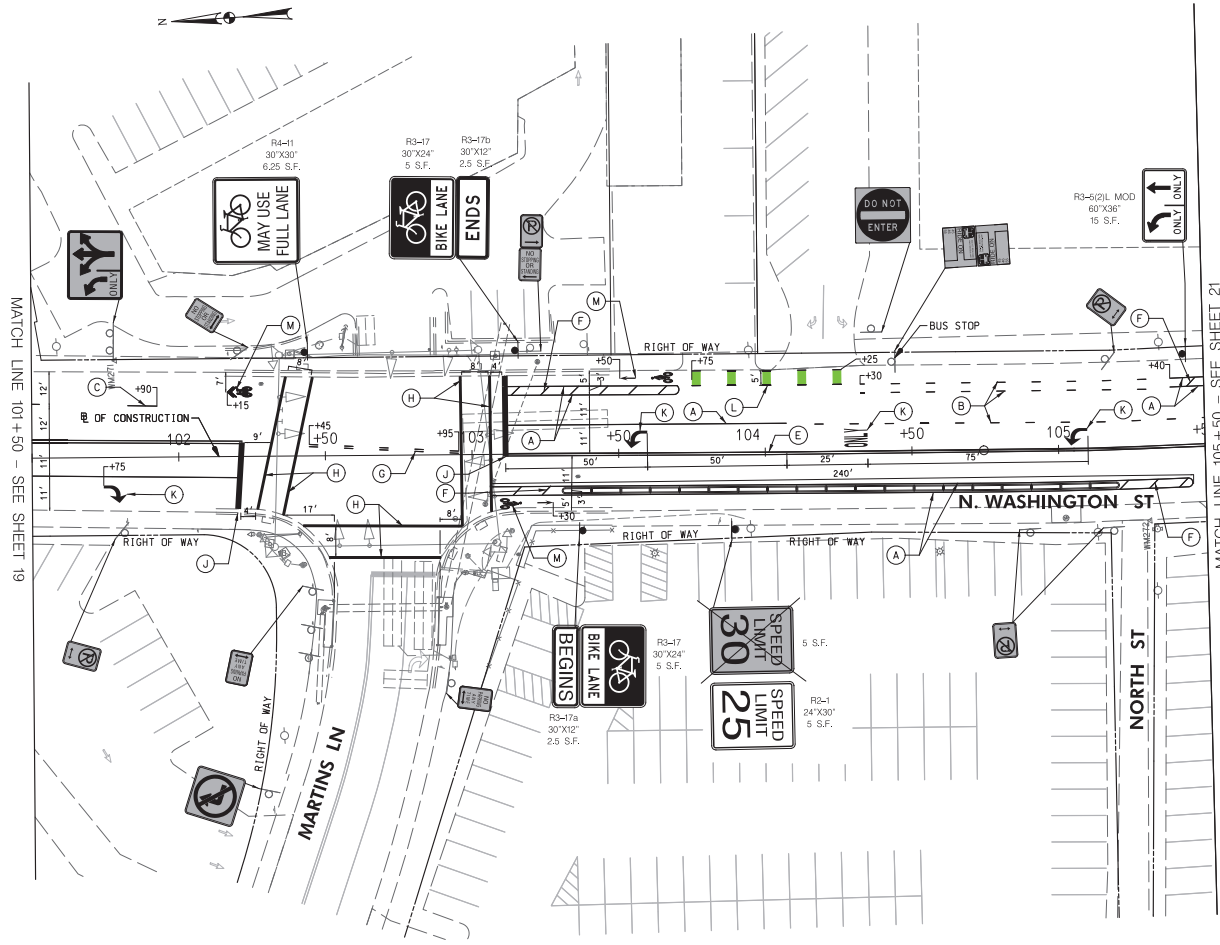
SIGNING AND PAVEMENT MARKING PLAN

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT
Election District No. 2 City of Rockville, Maryland

DATE SUBMITTED: APRIL 2022
SCALE: 1"=20'
SHEET NO. 19 OF 37
FILE #



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE



LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)
	5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	12' SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	24' SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 19)
	10' SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING CHEVRON (SPACED 25' AT 45°)

WALLACE MONTGOMERY
CONSULTANTS
1100 North Rockville Road
Rockville, MD 20850
Tel: 301-251-7777
Fax: 301-251-7777
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 24 HOURS PRIOR TO CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED: _____
DRAFTED: _____
CHECKED: _____

DESIGN PLAN APPROVAL
Craig L. Simonseau
2022.04.19
17:31:43.04'00"

AS BUILT PLAN APPROVAL
DATE SUBMITTED: MARCH 2022

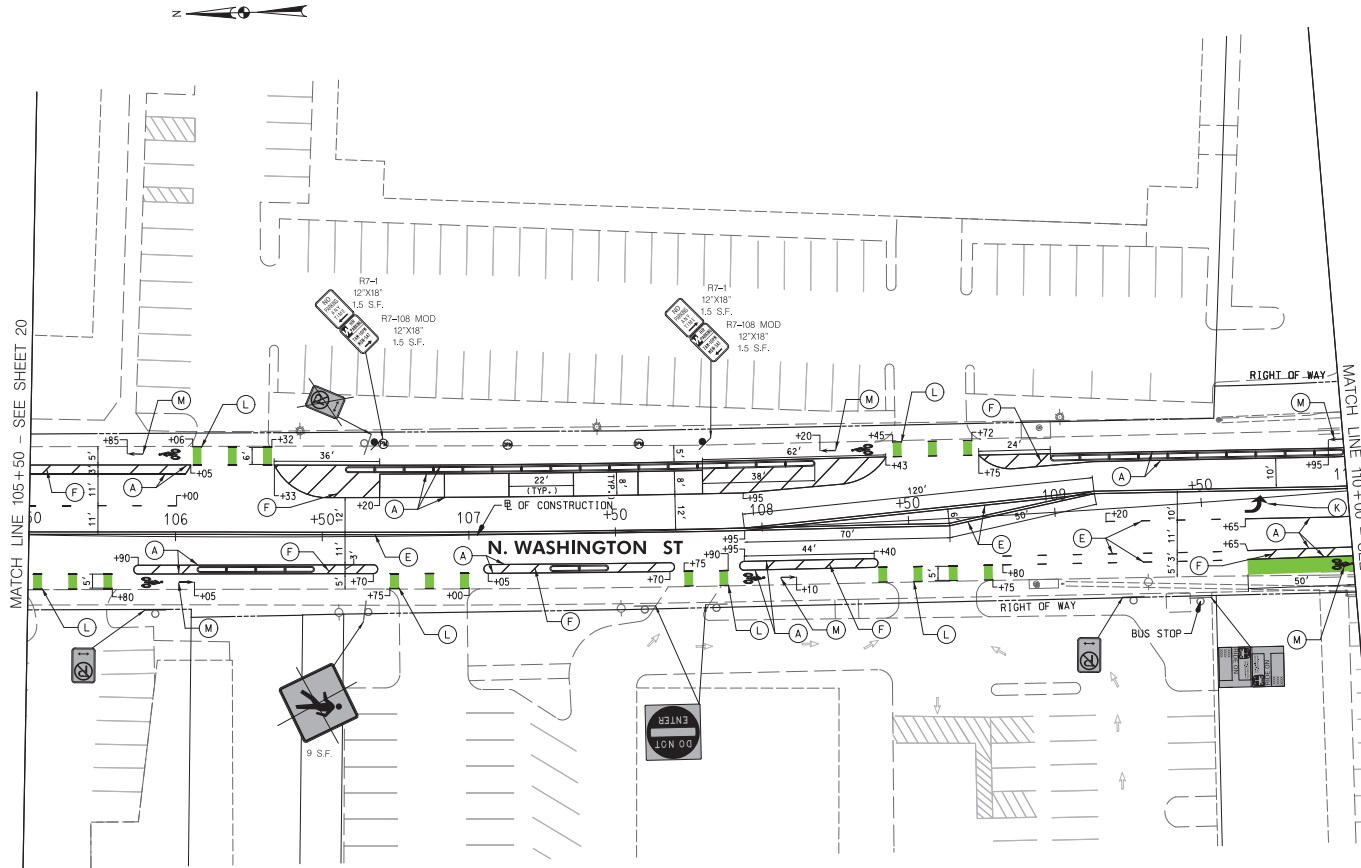
SIGNING AND PAVEMENT MARKING PLAN

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT
Election District No. 2 City of Rockville, Maryland

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

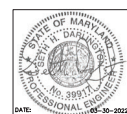
SCALE: 1"=20'
SHEET NO. 20 OF 37
FILE #



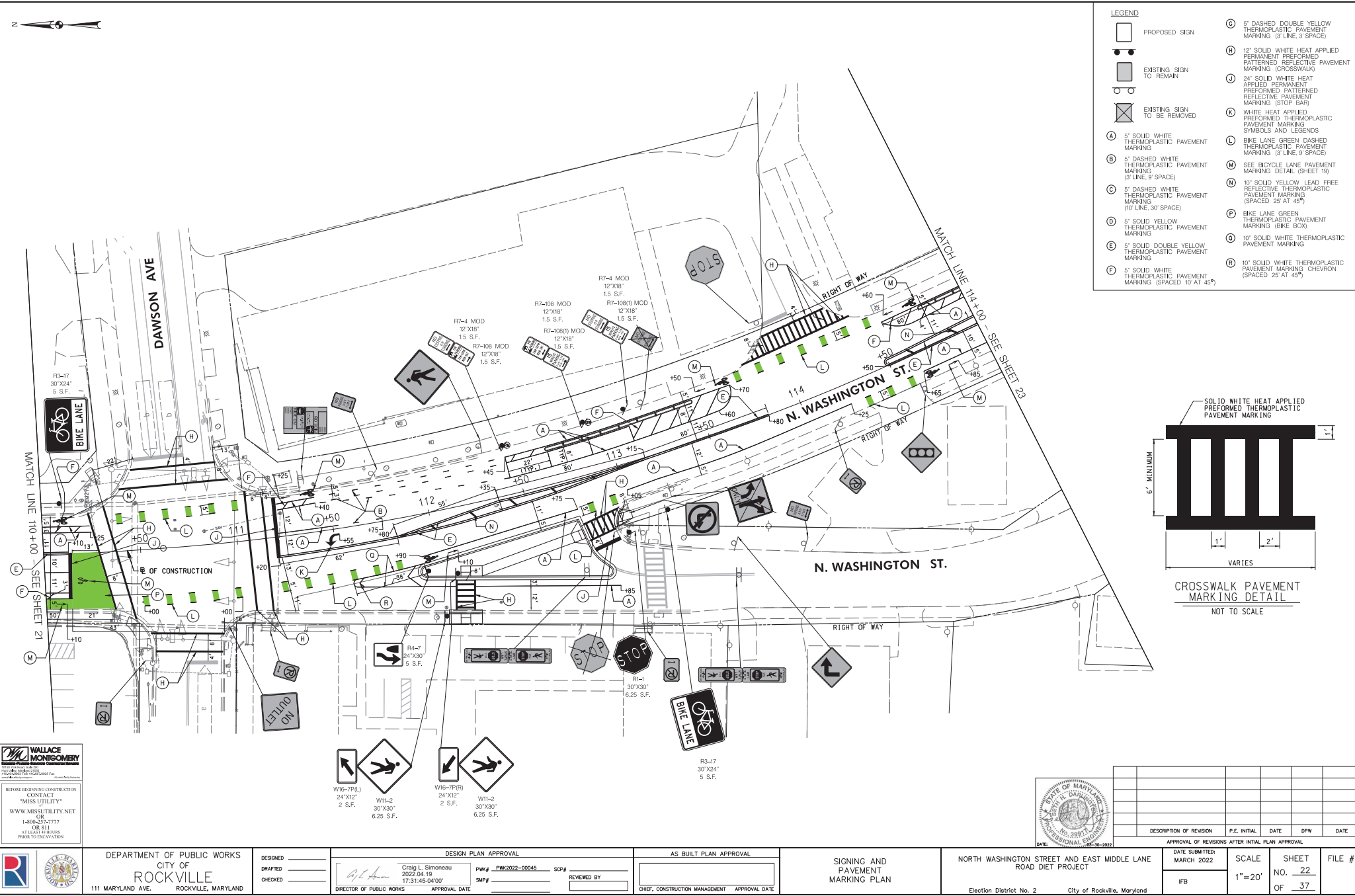
LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)
	5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	12" SOLID WHITE HEAT APPLIED PERMANENT PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	24" SOLID WHITE HEAT APPLIED PERMANENT PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 39)
	10" SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	10" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING CHEVRON (SPACED 25' AT 45°)

WALLACE MONTGOMERY
CONSULTANTS
1100 Rockville Pike, Suite 200
Rockville, MD 20850
Tel: 301-761-1000
Fax: 301-761-1001
www.wallacemontgomery.com

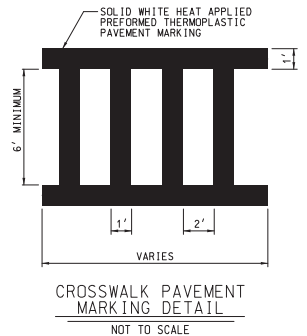
BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:21:44-04'00"	AS BUILT PLAN APPROVAL _____	SIGNING AND PAVEMENT MARKING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: MARCH 2022 IFB	SCALE: 1"=20' SHEET NO. 21 OF 37	FILE #																																																							
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																			APPROVAL DATE _____ DIRECTOR OF PUBLIC WORKS	APPROVAL DATE _____ CHIEF, CONSTRUCTION MANAGEMENT	APPROVAL DATE _____	APPROVAL DATE _____	APPROVAL DATE _____	APPROVAL DATE _____	APPROVAL DATE _____
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																											

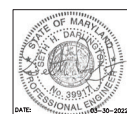


- LEGEND**
- PROPOSED SIGN
 - EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
 - 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
 - 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)
 - 5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING
 - 5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
 - 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)
 - 5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
 - 12' SOLID WHITE HEAT APPLIED PERMANENT PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
 - 24' SOLID WHITE HEAT APPLIED PERMANENT PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
 - WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
 - BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
 - SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 19)
 - 10' SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
 - BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
 - 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
 - 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)



WALLACE MONTGOMERY
CONSULTANTS
1100 Rockville Pike
Rockville, MD 20854
Tel: 301-460-1000
Fax: 301-460-1001
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-251-7777
FOR 811
AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED _____
DRAFTED _____
CHECKED _____

DESIGN PLAN APPROVAL

 Craig L. Simoneau
 2022.04.19
 17:31:45-04'00"
 DIRECTOR OF PUBLIC WORKS APPROVAL DATE

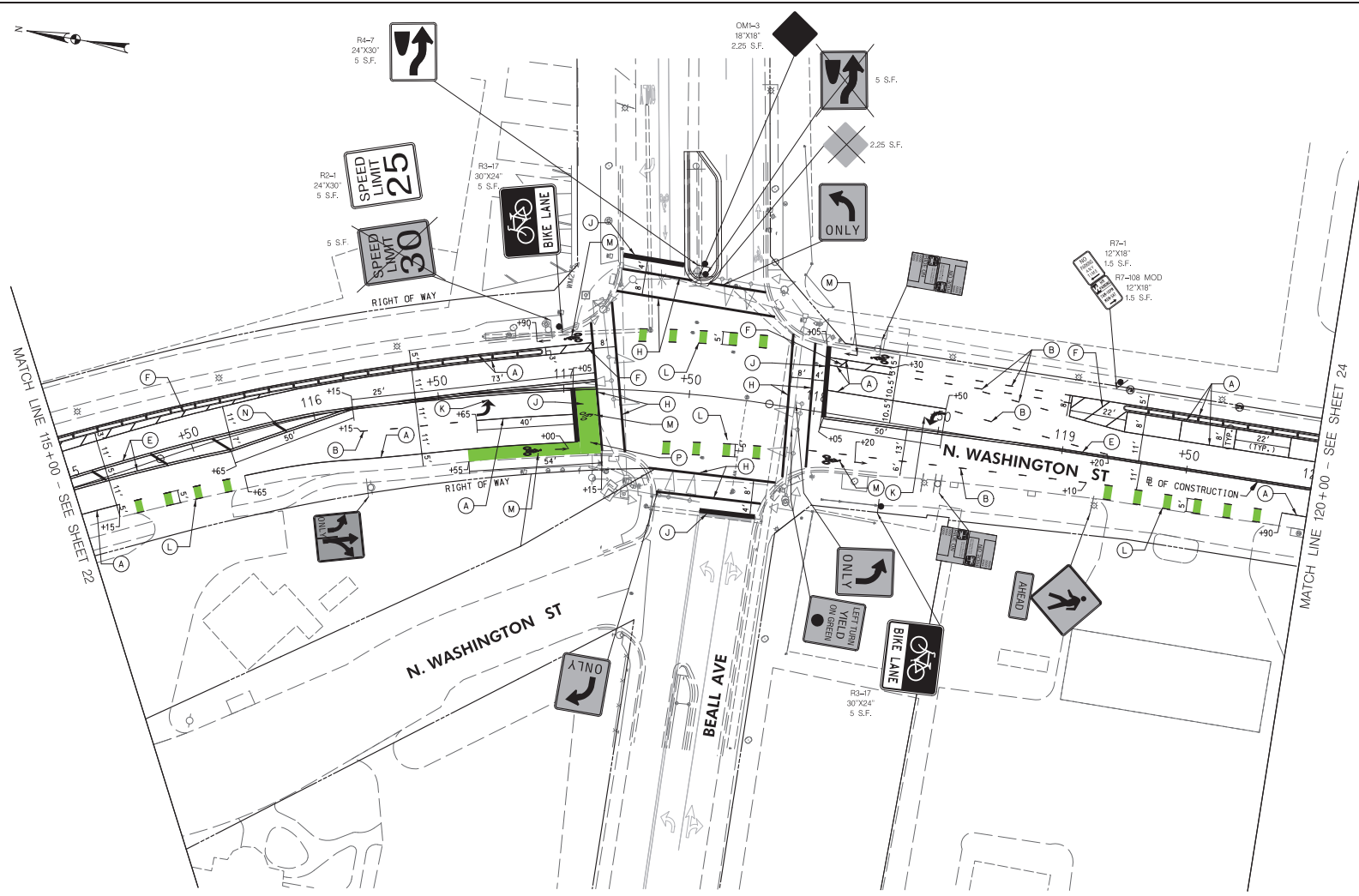
AS BUILT PLAN APPROVAL

 CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE

SIGNING AND PAVEMENT MARKING PLAN

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT
 Election District No. 2 City of Rockville, Maryland

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL
 DATE SUBMITTED: MARCH 2022
 SCALE: 1"=20'
 SHEET NO. 22 OF 37
 FILE #

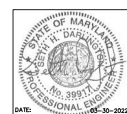


LEGEND

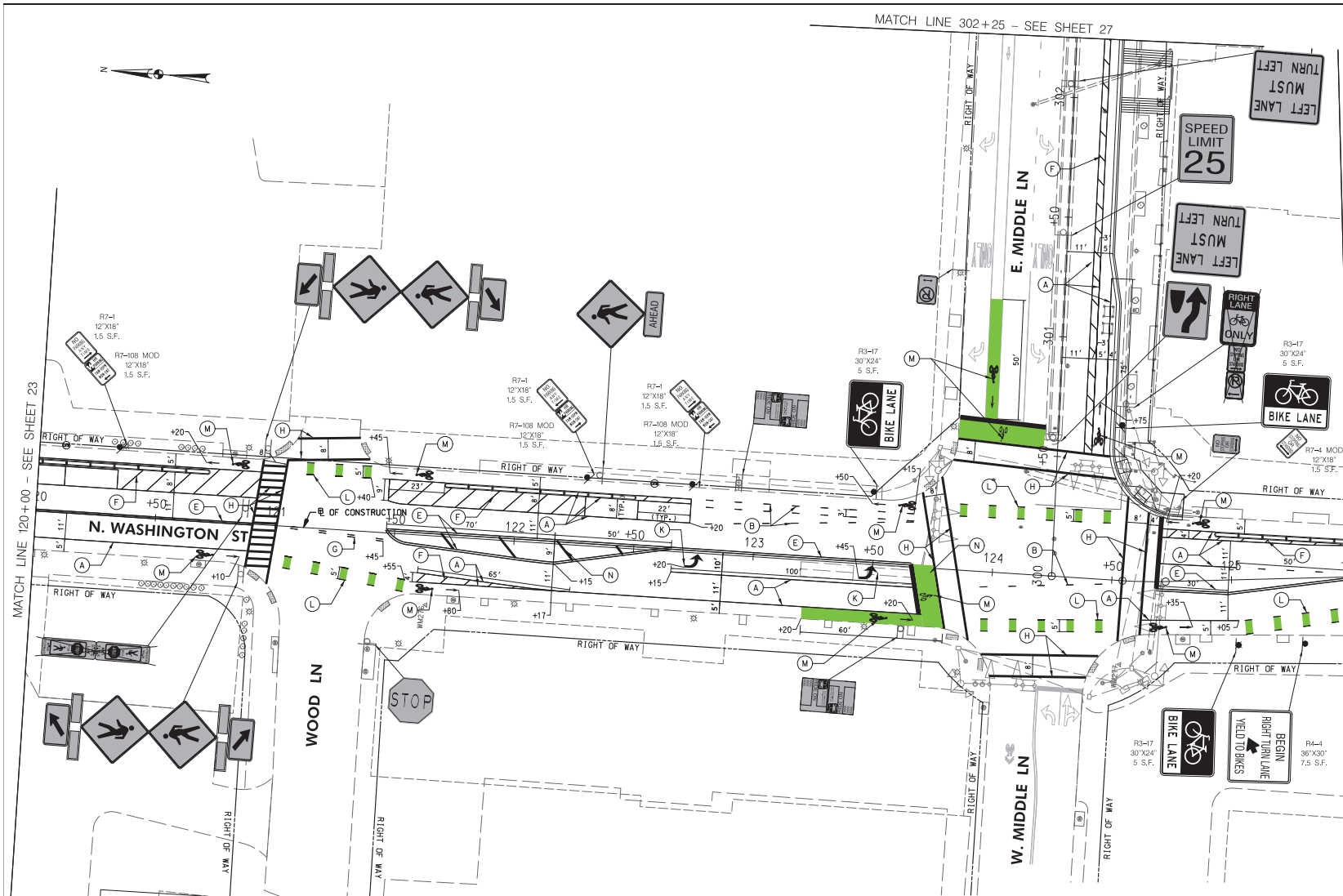
	PROPOSED SIGN		5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	EXISTING SIGN TO REMAIN		12' SOLID WHITE HEAT APPLIED PERMANENT PATTERNED PAVEMENT MARKING (CROSSWALK)
	EXISTING SIGN TO BE REMOVED		24' SOLID WHITE HEAT APPLIED PERMANENT PATTERNED PAVEMENT MARKING (STOP BAR)
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING		WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)		BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)		BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING		10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING		10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)		

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON ST.
ROCKVILLE, MD 20854
TEL: 301-981-9300
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simonau 2022.04.19 17:31:45-04:00 PPK# _____ SMP# _____ SCP# _____ APPROVAL DATE _____ REVIEWED BY _____	AS BUILT PLAN APPROVAL _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE _____	SIGNING AND PAVEMENT MARKING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: MARCH 2022 IFB	SCALE: 1"=20' SHEET NO. 23 OF 37	FILE # _____
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL				APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL			

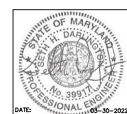


LEGEND

	PROPOSED SIGN		5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3 LINE, 3 SPACE)
	EXISTING SIGN TO REMAIN		12' SOLID WHITE HEAT APPLIED PERMANENT PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	EXISTING SIGN TO BE REMOVED		24' SOLID WHITE HEAT APPLIED PERMANENT PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING		WHITE HEAT APPLIED PERFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3 LINE, 9 SPACE)		BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3 LINE, 9 SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10 LINE, 30 SPACE)		SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 38)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING		10' SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25 AT 45°)
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING		BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10 AT 45°)		10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10 AT 45°)		10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 25 AT 45°)

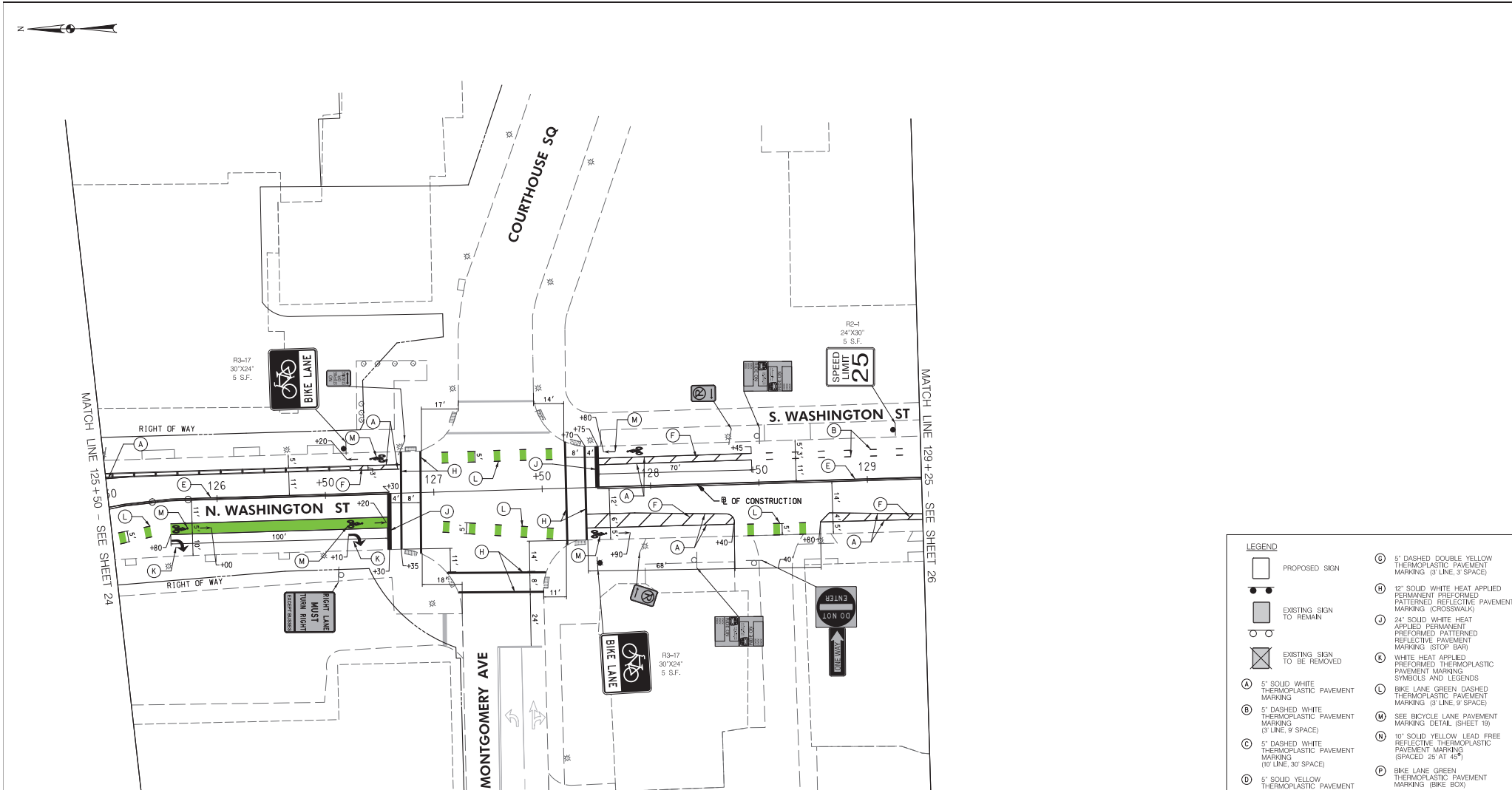
WALLACE MONTGOMERY
CONSULTANTS
1100 EAST WASHINGTON STREET
ROCKVILLE, MD 20850
TEL: 301-981-9800
WWW.WMCONSULTANTS.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

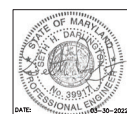
 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simmons 2022.04.19 17:31:46-04:00 SMP# _____ DIRECTOR OF PUBLIC WORKS	AS BUILT PLAN APPROVAL _____ CHEF, CONSTRUCTION MANAGEMENT	SIGNING AND PAVEMENT MARKING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: MARCH 2022 DATE: 03-30-2022	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL DATE SUBMITTED: MARCH 2022 IFB	SCALE: 1"=20' SHEET NO. 24 OF 37	FILE #
	DESIGN PLAN APPROVAL _____ APPROVAL DATE	AS BUILT PLAN APPROVAL _____ APPROVAL DATE	REVIEWED BY _____ _____ APPROVAL DATE	APPROVAL DATE	APPROVAL DATE	APPROVAL DATE	APPROVAL DATE	APPROVAL DATE	APPROVAL DATE



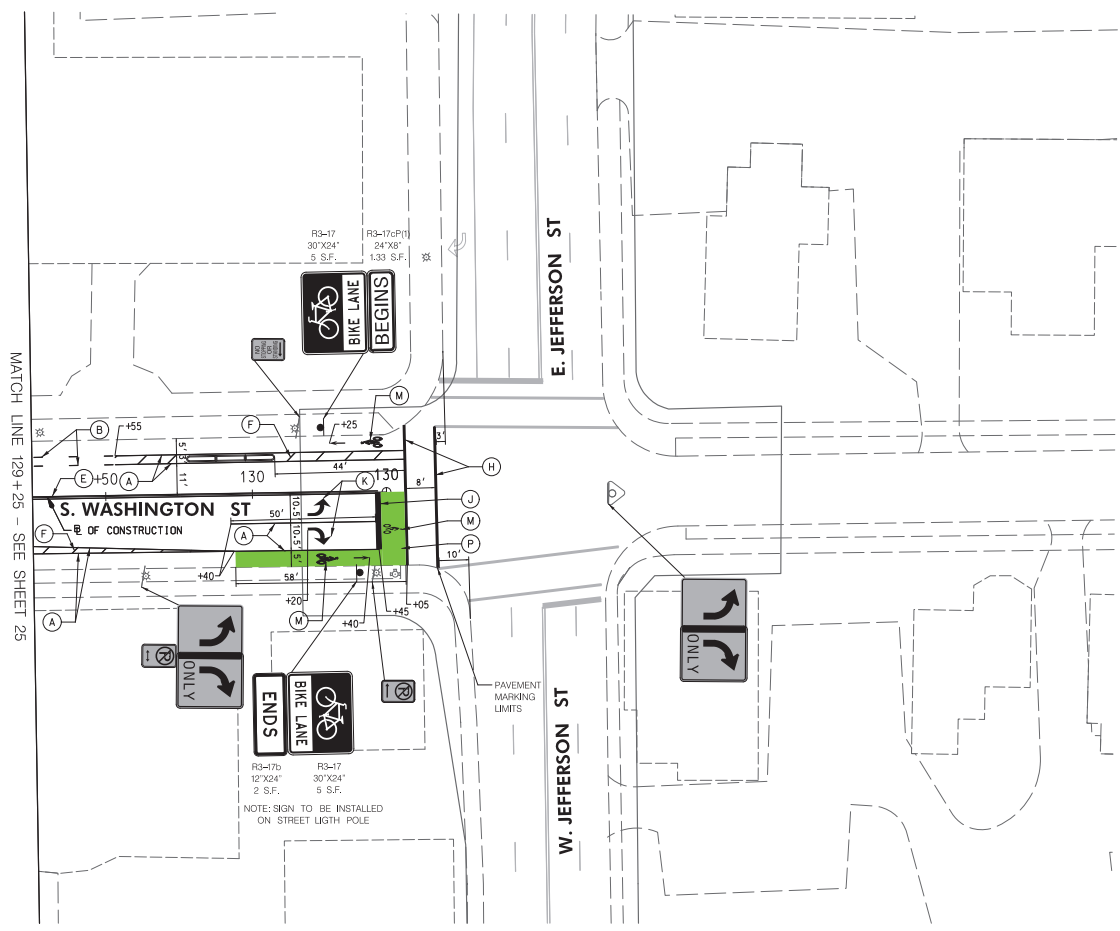
LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)
	5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	12' SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	24' SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING SYMBOLS AND LEGENDS
	BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)

WALLACE MONTGOMERY
 1100 North Rockville Road
 Rockville, MD 20850
 301-981-1000
 www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-255-7777 FOR 24 HOURS AT LEAST 48 HOURS PRIOR TO EXCAVATION.



 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED: _____ DRAFTED: _____ CHECKED: _____	DESIGN PLAN APPROVAL _____ Craig L. Simonescu 2022.04.19 17:31:47+0000'	AS BUILT PLAN APPROVAL _____ _____ _____	SIGNING AND PAVEMENT MARKING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: MARCH 2022 IFB	SCALE: 1"=20' SHEET NO. 25 OF 37	FILE #																																																			
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																			APPROVAL DATE: _____ DIRECTOR OF PUBLIC WORKS	REVIEWED BY: _____ _____ _____	APPROVAL DATE: _____ CHIEF, CONSTRUCTION MANAGEMENT
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																							

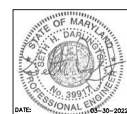


LEGEND

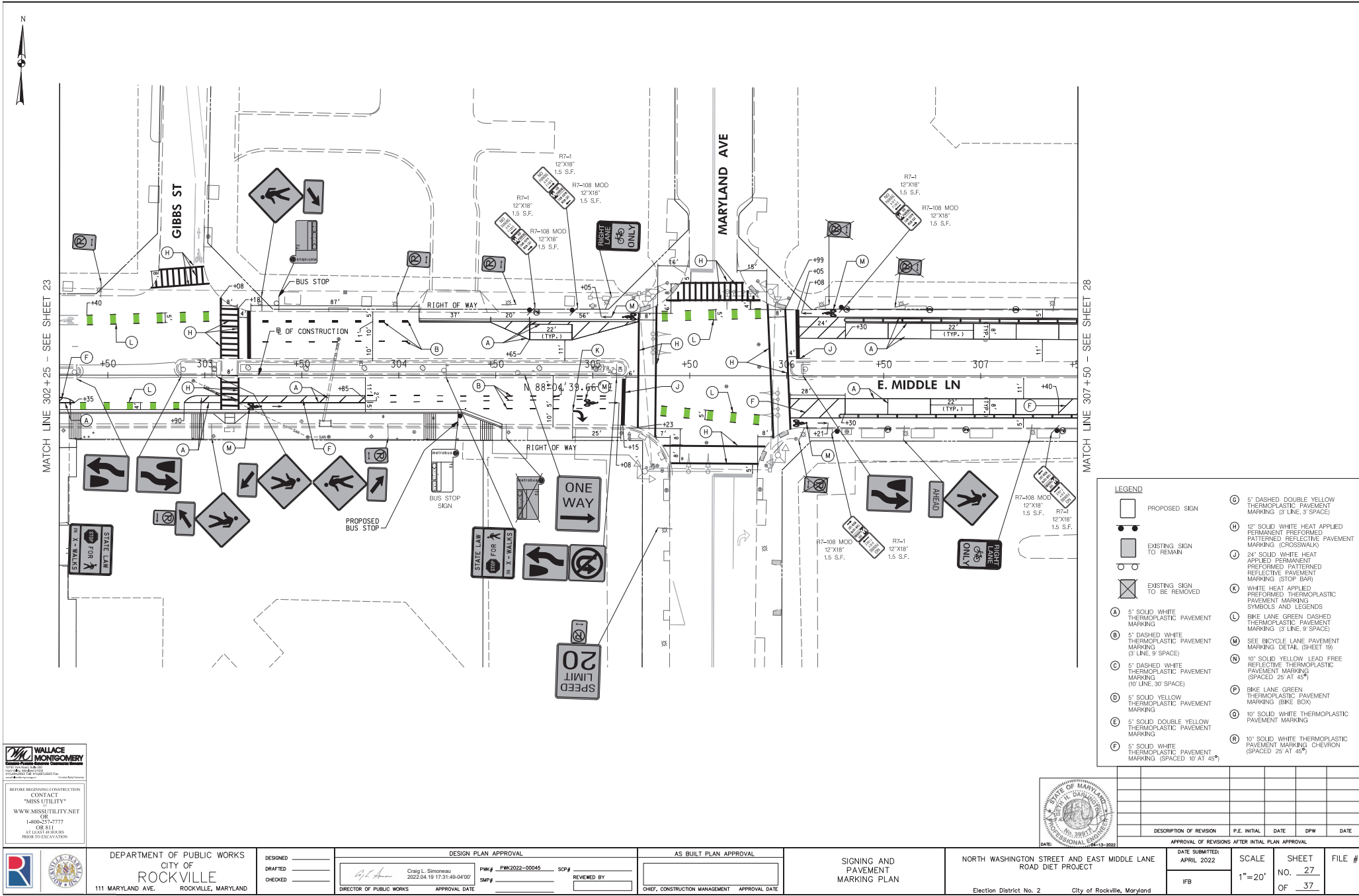
	PROPOSED SIGN		5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	EXISTING SIGN TO REMAIN		12" SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	EXISTING SIGN TO BE REMOVED		24" SOLID WHITE HEAT APPLIED PERMANENT REFLECTIVE PAVEMENT MARKING (STOP BAR)
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING		WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)		BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)		SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 39)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING		10" SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING		BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)		10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
			10" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING CHEVRON (SPACED 25' AT 45°)

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON BLVD. SUITE 200
ROCKVILLE, MD 20850
TEL: 301.981.1000 FAX: 301.981.1001
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO EXCAVATION.



 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:31:49:04:00	AS BUILT PLAN APPROVAL _____ _____	SIGNING AND PAVEMENT MARKING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: MARCH 2022 IFB	SCALE 1"=20'	SHEET NO. <u>26</u> OF <u>37</u>	FILE #																																														
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																														APPROVAL DATE _____ DIRECTOR OF PUBLIC WORKS	REVIEWED BY _____ _____ CHIEF, CONSTRUCTION MANAGEMENT	APPROVAL DATE _____ _____ APPROVAL	DATE: 03-30-2022
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																			



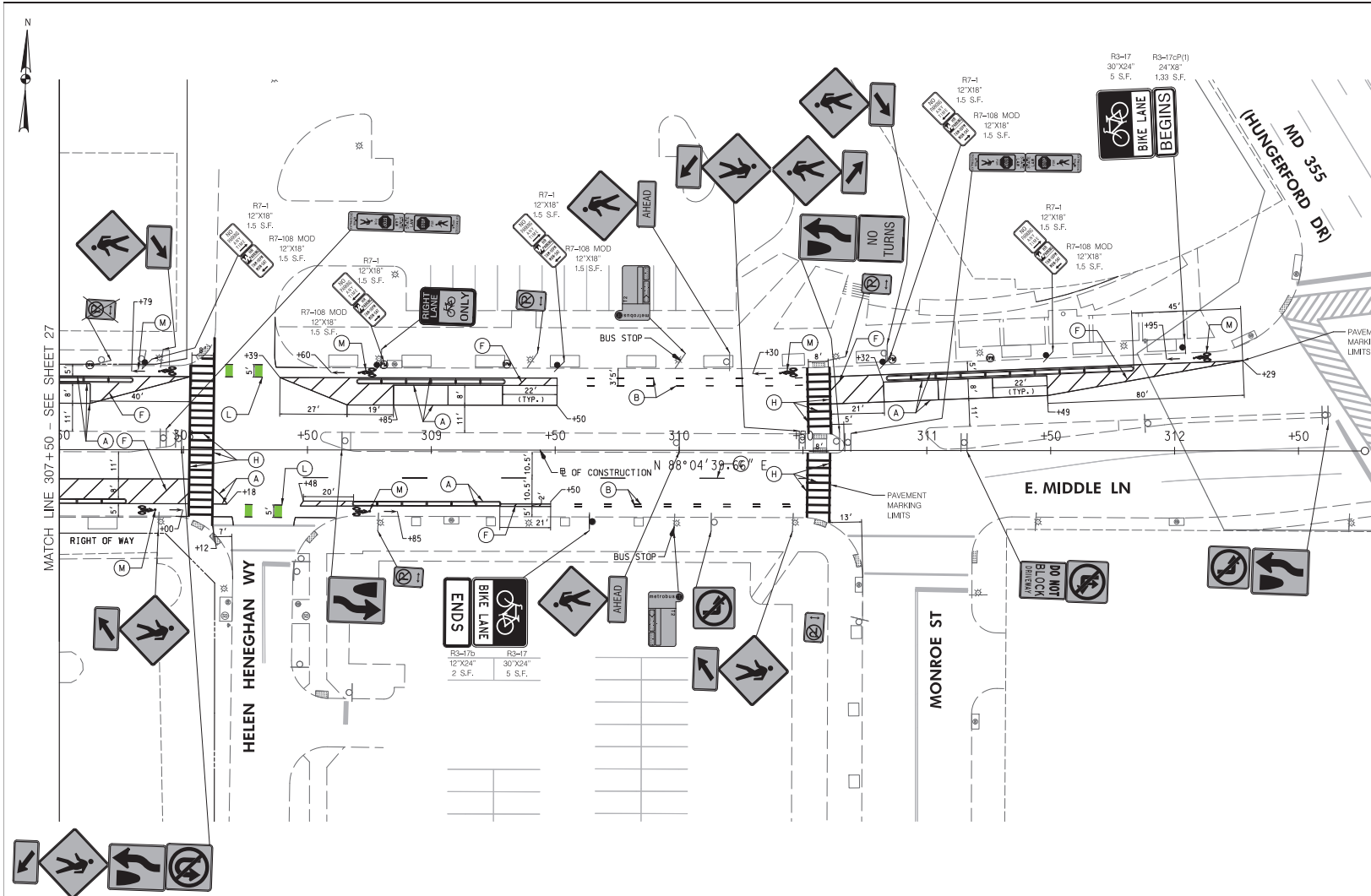
LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)
	5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	12' SOLID WHITE HEAT APPLIED PERMANENT REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	24' SOLID WHITE HEAT APPLIED PERMANENT REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE HEAT APPLIED PERMANENT REFLECTIVE PAVEMENT MARKING SYMBOLS AND LEGENDS
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 39)
	10' SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (CHEVRON) (SPACED 25' AT 45°)

WALLACE MONTGOMERY
CONSULTANTS
1100 North Rockville Road
Rockville, MD 20850
Tel: 301-251-7777
Fax: 301-251-7778
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simonau 2022.04.19 17:31:49-04'00" SMP# _____ DIRECTOR OF PUBLIC WORKS APPROVAL DATE _____	AS BUILT PLAN APPROVAL _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE _____	SIGNING AND PAVEMENT MARKING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 SCALE: 1"=20' SHEET NO. 27 OF 37 FILE # _____																										
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																									
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																												



LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (10' LINE, 30' SPACE)
	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING (SPACED 10' AT 45°)
	5' DASHED DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING (3' LINE, 3' SPACE)
	12' SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK)
	24' SOLID WHITE HEAT APPLIED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	BIKE LANE GREEN DASHED THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	SEE BICYCLE LANE PAVEMENT MARKING DETAIL (SHEET 39)
	10' SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	BIKE LANE GREEN THERMOPLASTIC PAVEMENT MARKING (BIKE BOX)
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING CHEVRON (SPACED 25' AT 45°)

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON ST., SUITE 200
ROCKVILLE, MD 20850
TEL: 301-981-9300
WWW.WALLACEMONTGOMERY.COM

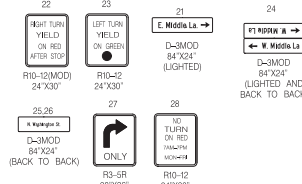
BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 24 HOURS PRIOR TO CONSTRUCTION.



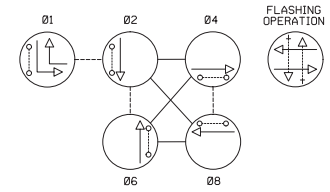
<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:21:51\42400'	AS BUILT PLAN APPROVAL _____ _____	SIGNING AND PAVEMENT MARKING PLAN _____ _____	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 DATE: 04-13-2022	SCALE: 1"=20' SHEET NO. 28 OF 37	FILE # _____																																																				
	DIRECTOR OF PUBLIC WORKS APPROVAL DATE _____	P.W.# P.M.2022-00045 SCP# _____ REVIEWED BY _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE _____	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																			DATE SUBMITTED: APRIL 2022 DATE: IFB	SCALE: 1"=20' SHEET NO. 28 OF 37
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																																																								

NOTE: WASHINGTON ST. IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNS TO REMAIN

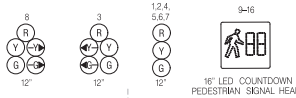


NEMA PHASING

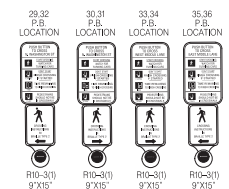


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

EXISTING SIGNALS TO REMAIN



EXISTING SIGNS TO BE REPLACED



W. MIDDLE LN

E. MIDDLE LN

CONSTRUCTION DETAILS

- A. INSTALL 6 FT BREAKAWAY DECORATIVE PEDESTAL AND FOUNDATION (STD. MD 801-01) WITH NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS EAST MIDDLE LANE." (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE CONDUIT ELBOW IN BASE).
- B. RECONSTRUCT EXISTING RAMP WITH A MODIFIED PERPENDICULAR ADA RAMP WITH CAST-IN-PLACE DETECTABLE WARNING SURFACE (SEE SHEET NO. 11).
- C. INSTALL 3 IN SCHEDULE 80 PVC CONDUIT - TRENCHED.
- D. REMOVE EXISTING PEDESTAL POLE, PUSHBUTTON SIGN, ALL RELATED EQUIPMENT AND FOUNDATION (1 FT BELOW GRADE).
- E. CONNECT NEW CONDUIT TO EXISTING HANDHOLE.
- F. UTILIZE EXISTING HANDHOLE.
- G. UTILIZE EXISTING CONDUIT.
- H. REMOVE EXISTING PUSHBUTTON AND REPLACE NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS NORTH WASHINGTON STREET."
- J. REMOVE EXISTING PUSHBUTTON AND REPLACE NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS EAST MIDDLE LANE."
- K. REMOVE EXISTING PUSHBUTTON AND REPLACE NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS WEST MIDDLE LANE."
- L. SAW CUT ROADWAY AND INSTALL NEW TRAFFIC LOOP VEHICLE DETECTOR (6'X30" LOOP QUADRUPLE). EXISTING LOOPS NOT SHOWN FOR CLARITY.

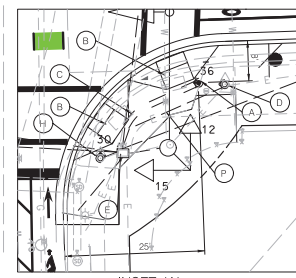
WALLACE MONTGOMERY
ENGINEERS, ARCHITECTS & PLANNERS
14000 25th Avenue, Rockville, MD 20850
Tel: 301-981-2000
Fax: 301-981-2001
www.wallacemontgomery.com

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-251-7777
FOR 811
AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION

GEOMETRIC LEGEND
--- EXISTING
--- PROPOSED

UTILITY LEGEND
--- STORM DRAIN
--- G --- GAS MAIN
--- W --- WATER MAIN
--- SAN --- SEWER MAIN
--- E --- ELEC. CABLES UG
--- E --- ELEC. CABLES OH
--- T --- TELE. CABLES UG
--- T --- TELE. CABLES OH
--- FO --- FIBER-OPTIC UG
--- FO --- FIBER-OPTIC OH

- M. INSTALL APS CONTROL UNIT IN EXISTING CONTROLLER CABINET.
- N. INSTALL 1 IN SCHEDULE 80 PVC CONDUIT - TRENCHED.
- P. CAP AND ABANDON CONDUIT.



INSET 'A'
SCALE: 1" = 10'

GENERAL NOTES

1. FOR LOCATION OF CITY WATER AND SEWER CALL "CITY UTILITIES SUPERINTENDENT" AT 240-314-9567 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
2. FOR LOCATION OF UTILITIES CALL 1-800-257-7777 OR LOG ON TO <http://www.missutility.net/111c/> 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY.
3. THE CONTRACTOR MUST SUBMIT CUT SHEET PROPOSALS FOR ALL FURNISHED ITEMS TO THE CITY OF ROCKVILLE FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT.
4. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
5. THE PAVEMENT MARKINGS SHOWN ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MDT SHA STANDARDS. SEE SIGNING AND PAVEMENT MARKING PLAN FOR DETAIL SHEET 241.
6. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL WORK, UNLESS OTHERWISE DIRECTED BY THE CITY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL STONED CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
8. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
9. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CUSSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 818-02, MD 818-01, MD 818-02, MD 818-04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A MINIMUM 48"X48" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
12. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND R10-4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED FROM THE CITY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL UNUSED CABLES FROM THE EXISTING CONDUITS AT NO CHARGE TO THE CITY.
14. GROUT ALL NEW CONDUITS THAT EXTEND INTO EXISTING HANDHOLES TO FILL GAP BETWEEN WALL OF HANDHOLE.
15. ALL NEW DETECTABLE WARNING SURFACES SHALL BE CAST-IN-PLACE CONCRETE PER STD. MD 655.40.
16. SEE SPECIAL PROVISIONS FOR MAINTENANCE OF TRAFFIC SPECIFICATIONS. ONE (1) PEDESTRIAN CROSSING ALONG EACH ROADWAY SHALL BE MAINTAINED AT ALL TIMES.
17. ALL DIMENSIONS TO PROPOSED SIGNAL POLES/PEDESTALS ARE FROM FACE OF CURB TO CENTER OF PROPOSED POLE/PEDESTAL.
18. CONTRACTOR SHALL REPLACE ANY REMOVED OR DAMAGED BRICKS. CONTRACTOR SHALL INVENTORY BRICK PATTERN AND ELEVATIONS PRIOR TO REMOVAL IN ORDER TO REBUILD IN-IND.

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:21:52-04'00"	AS BUILT PLAN APPROVAL _____ _____	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL DATE SUBMITTED: MARCH 2022 SCALE: 1" = 20' SHEET NO. 29 OF 37 FILE # _____
	DIRECTOR OF PUBLIC WORKS APPROVAL DATE _____	CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE _____	SIGNATURE OF PROJECT ENGINEER _____ _____	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL DATE _____ P.E. INITIAL _____ DATE _____ DFW _____ DATE _____

PROJECT DESCRIPTION

- I. GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF NEW APS SIGNALS AT ALL PEDESTRIAN CROSSINGS AT THE INTERSECTION OF NORTH WASHINGTON STREET AND EAST MIDDLE LANE, AND RECONSTRUCTION OF NEW PEDESTRIAN RAMPS WITH DETECTABLE WARNING SURFACES TO MEET FEDERAL ADA STANDARDS. NORTH WASHINGTON STREET IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.
- II. INTERSECTION OPERATION
A) THIS INTERSECTION IS TO CONTINUE TO OPERATE AS A SEMI-ACTUATED TRAFFIC SIGNAL WITH THE NORTH WASHINGTON STREET APPROACHES RUNNING CONCURRENTLY (PHASE 2 & 6), AND MINOR STREET APPROACHES SHALL RUN CONCURRENTLY (PHASE 4 & 8).
B) THE INSTALLED IN EXISTING BASE-MOUNTED CONTROLLER CABINET SHALL BE A NEW FULL-TRAFFIC-ACTUATED, EIGHT-PHASE ASC/3-2100 CONTROLLER, WITH AN UPS AND BBS INTERSECTION SYSTEM.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE CITY OF ROCKVILLE

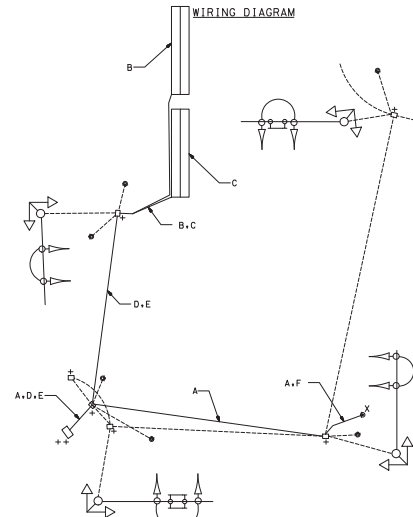
SPEC. NUMBER	DESCRIPTION	QUANTITY
	NONE	

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

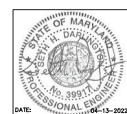
ITEM NUMBER	DESCRIPTION	QUANTITY
1003	MAINTENANCE OF TRAFFIC	1 LS
2001	TEST PIT EXCAVATION	1 CY
8001	FURNISH AND INSTALL CONCRETE FOR POLE FOUNDATION	1 CY
8005	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	25 LF
8006	FURNISH AND INSTALL 1 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	10 LF
8007	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	25 LF
8013	FURNISH AND INSTALL 6 FOOT DECORATIVE PEDESTAL POLE	1 EA
8014	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	5 EA
8015	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	190 LF
8016	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	140 LF
8017	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING	950 LF
8018	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	265 LF
8019	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	8 EA
8020	FURNISH AND INSTALL 2-WIRE APS CENTRAL CONTROL UNIT	1 EA
8021	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT	1 LS

PHASE CHART

	NORTHBOUND		SOUTHBOUND		EASTBOUND		WESTBOUND		WEST PED	EAST PED	NORTH PED	SOUTH PED	
	1	2	3	4	5	6	7	8	9 10	11 12	13 14	15 16	
PHASE 1 AND 6	R	R	+G- G	G	R	R	R	R	-G+	WK WK	DW DW	DW DW	DW DW
1 AND 6 CHANGE	R	R	+Y- Y	Y	R	R	R	R	-Y+	DW DW	DW DW	DW DW	DW DW
PHASE 2 AND 6	G	G	G	G	R	R	R	R	WK WK	WK WK	DW DW	DW DW	
PED CLEARANCE	G	G	G	G	R	R	R	R	FLDWFLOW	FLDWFLOW	DW DW	DW DW	
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW DW	DW DW	DW DW	DW DW	
PHASE 4 AND 8	R	R	R	R	G	G	G	G	DW DW	DW DW	DW DW	DW DW	
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW DW	DW DW	DW DW	DW DW	
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	DW DW	DW DW	WK WK	WK WK	
PED CLEARANCE	R	R	R	R	G	G	G	G	DW DW	DW DW	FLDWFLOW	FLDWFLOW	
4 AND 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	DW DW	DW DW	DW DW	DW DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK DARK	DARK DARK	DARK DARK	DARK DARK	



WIRING KEY	
A	- 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B,C	- LOOP WIRE
D,E	- 2-CONDUCTOR ALUMINUM-SHIELDED LEAD-IN CABLE
F	- STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
+	- GROUND ROD



WALLACE MONTGOMERY
CONSULTANTS
1100 N. GREENSBORO BLVD.
SUITE 200
ROCKVILLE, MD 20850
TEL: 301-581-1100
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION.

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:21:53-04'00"	AS BUILT PLAN APPROVAL _____ _____	GENERAL INFORMATION NORTH WASHINGTON STREET @ EAST MIDDLE LANE ELECTION DISTRICT NO. 4 CITY OF ROCKVILLE, MARYLAND	DATE SUBMITTED: APRIL 2022 DATE: 04-13-2022	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL <table border="1"> <thead> <tr> <th>DESCRIPTION OF REVISION</th> <th>P.E. INITIAL</th> <th>DATE</th> <th>DPW</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																					SCALE SEE ABOVE SHEET NO. 30 OF 37 FILE #
	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE																											
DIRECTOR OF PUBLIC WORKS APPROVAL DATE _____		REVIEWED BY _____ _____	CHEF, CONSTRUCTION MANAGEMENT APPROVAL DATE _____																													

THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN FOREIGN STRUCTURES AND CONDUIT SHALL BE AS FOLLOWS:

- TELEPHONE CONDUIT - 3" CONCRETE OR 12" EARTH.
- GAS AND OIL MAINS - 12" EARTH.
- GAS PIPES 16" OR LARGER REQUIRES 18" OF EARTH.
- WSSC WATER AND SEWER - 5' OUT TO OUT HORIZONTAL AND 1' VERTICAL (CROSSING).
- D.C. WATER AND SEWER - 4' OUT TO OUT HORIZONTAL AND 1' VERTICAL (CROSSING).
- STORM DRAINS - 5' OUT TO OUT HORIZONTAL AND 6" VERTICAL (CROSSING).

STREETLIGHT CONDUIT INSTALLATION CHECKLIST

2 (TWO) - 4" (FOUR) INCH, SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING EACH SPLICEBOX IN A CONTINUOUS RUN.

1 (ONE) - 2" (TWO) INCH, SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING SPLICEBOX TO THE STREETLIGHT FOOTING.

CONTRACTOR TO PROVIDE AND INSTALL PROTOCELLS FOR EACH STREETLIGHT LUMINAIRE

STREETLIGHT AND POST ERECTED BY THE CONTRACTOR ARE TO BE WIRED WITH #10 AWG (MIN) COPPER WITH A THREE-FOOT LOOP OF SLACK IN THE SPLICEBOX FOR ATTACHMENT BY PEPCO.

STREETLIGHT POSTS ARE TO HAVE A GROUNDING LUG ATTACHED TO THE BASE OF THE POST WITH A MINIMUM THREE FOOT LOOP OF SLACK IN THE SPLICEBOX OF #6 AWG BARE COPPER WIRE ATTACHED.

ALL SWEEPBENDS TO BE A MINIMUM OF 24 INCHES RADIUS

1/4" NYLON PULL-LINE IS TO BE INSTALLED IN EACH CONDUIT DUCT

CONTRACTOR TO INSTALL MARKING TAPE ONE FOOT (1') ABOVE EACH CONDUIT RUN.

NO MORE THAN 270 DEGREES OF BENDS IN A CONDUIT RUN.

CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM) COVER OVER IT.

INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL 301-670-8808 OR 301-670-8828 7:00 TO 9:00 AM OR 3:00 TO 4:00 PM TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.

ALL STREETLIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT. SEE TECHNICAL SPECIFICATIONS FOR STREETLIGHT SPECIFICATIONS.

ALL STREETLIGHTS SHALL BE INSTALLED 2'-6" BEHIND THE FACE OF CURB (UNLESS AS NOTED ON THE PLANS).

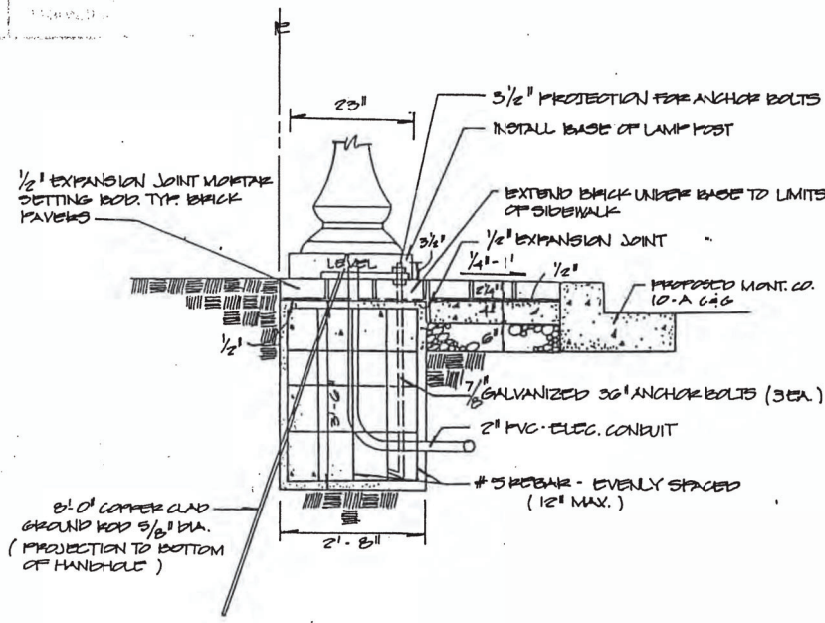
CONTRACTOR FURNISHED EQUIPMENT NOTES:

PEPCO TO PROVIDE ENERGY AND CABLING

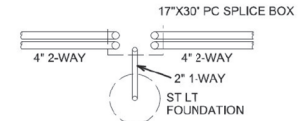
CONTRACTOR SHALL PROVIDE LUMINAIRES (RELOCATED FROM EXISTING), POLES (RELOCATED FROM EXISTING), PHOTOCELLS, FOOTINGS AND CONDUIT

CONTRACTOR TO PROVIDE CONDUIT AS REQUESTED BY PEPCO

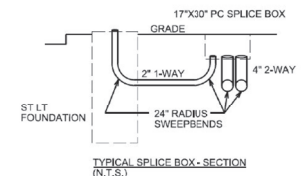
REFER TO CONDUIT CHECKLIST FOR ADDITIONAL INFORMATION.



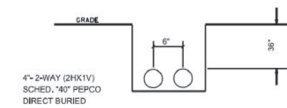
TYPICAL STREET LIGHT FOUNDATION
ROCKVILLE DETAIL 81



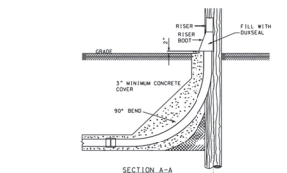
TYPICAL SPLICE BOX - PLAN/VIEW
(N.T.S.)



TYPICAL SPLICE BOX - SECTION
(N.T.S.)



MAINLINE TRENCH DETAIL
(TYP.) (N.T.S.)



- NOTES:
1. CONDUIT DEPARTMENT WILL PULL OUT IF RISER IS NOT INSTALLED IMMEDIATELY.
 2. GROUNDING AND SEPARATION REQUIREMENTS SHALL BE PER PEPCO.
 3. SEE PAGE 2 FOR ACCEPTABLE SWEEP BEND INSTALLATION.

WALLACE MONTGOMERY
1100 N. WASHINGTON BLVD.
ROCKVILLE, MD 20850
TEL: 301-981-1000
WWW.WALLACEMONTGOMERY.COM

BEFORE BEGINNING CONSTRUCTION CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-251-7777
OR 311
AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED _____
DRAFTED _____
CHECKED _____

DESIGN PLAN APPROVAL

 Craig L. Simonesu
 2022.04.19
 17:31:54+0000
 DIRECTOR OF PUBLIC WORKS APPROVAL DATE _____

AS BUILT PLAN APPROVAL

 REVIEWED BY _____

 CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE _____

LIGHTING DETAILS
AND NOTES

NORTH WASHINGTON STREET AND EAST MIDDLE LANE
ROAD DIET PROJECT
Election District No. 2 City of Rockville, Maryland

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

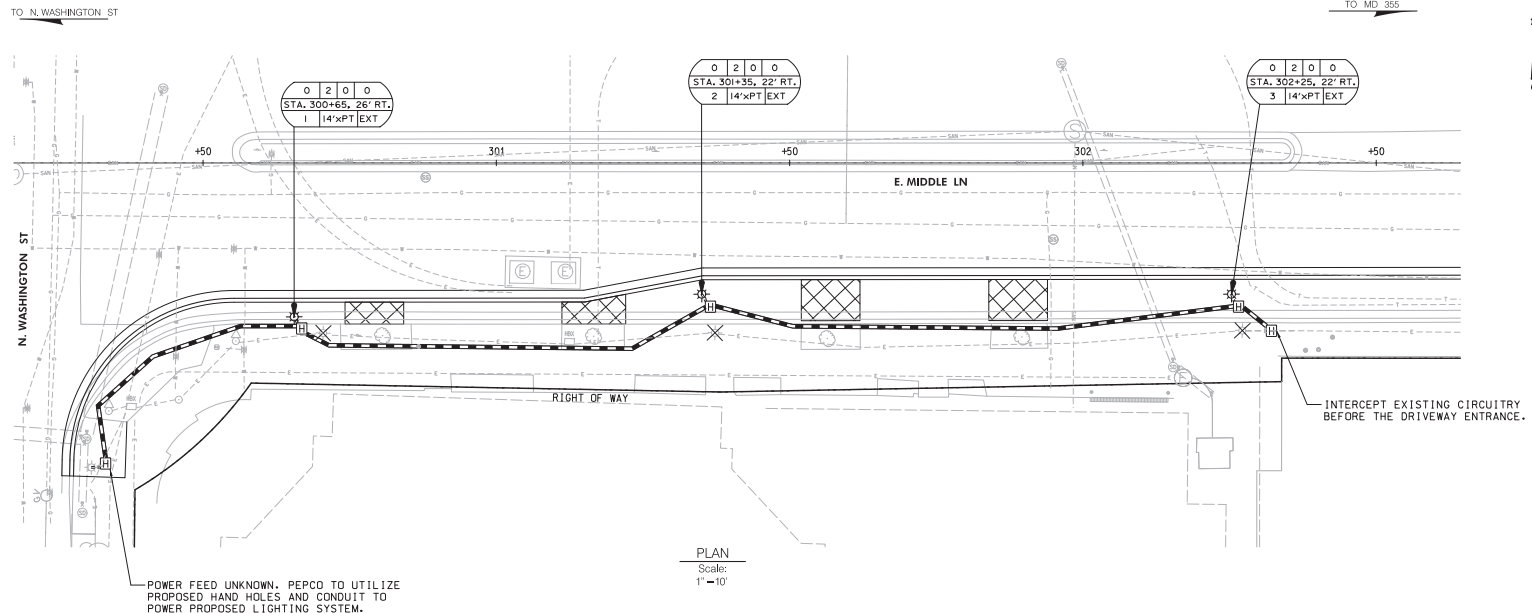
DATE SUBMITTED	SCALE	SHEET NO.	FILE #
APRIL 2022	NTS	31	
IFB		OF 37	

APPROVAL OF REVISIONS

DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

LIGHT POLE RELOCATION	
3 C.Y.	LIGHT POLE FOUNDATIONS
3 EA.	RELOCATE LIGHT POLE FOUNDATION
202 L.F.	2 1/2" PVC CONDUIT SCHEDULE 40
6 L.F.	2" PVC CONDUIT SCHEDULE 40
5 EA.	SPLICE BOX

- NOTES:
- ALL ELECTRICAL WIRING AND CONNECTIONS TO BE COMPLETED BY UTILITY PROVIDER. CONTRACTOR TO INSTALL CONDUIT, HANDHOLES, GROUND RODS AND FOUNDATIONS, AND RELOCATE LIGHT POLES.
 - FOR LIGHT POLE RELOCATION, SEE THE FOUNDATION DETAIL ON SHEET 31.
 - THE LIGHTING CIRCUITRY IS ASSUMED TO BE IN ONE CIRCUIT.



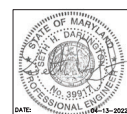
PLAN
Scale: 1"=10'

LEGEND

- EXISTING LIGHT POLE
- EXISTING LIGHT POLE TO BE RELOCATED
- RELOCATED LIGHT POLE
- 2 - 4 INCH SCHEDULE 40 PVC CONDUITS (TRENCHED)
- 2 INCH SCHEDULE 40 PVC CONDUIT (TRENCHED)
- ELECTRICAL MANHOLE (STD. NO. MD 811.04)
- SIGN & LIGHT POLE IDENTIFICATION TAG
- QUANTITY OF CONNECTOR KITS; TYPES I, II, III, IV
- STATION
- LOCATION OF POLE
- CIRCUIT NUMBERS AND PANEL
- POLE HEIGHT AND MAST ARM LENGTH
- POLE OR SIGN IDENTIFICATION NUMBER

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON ST., SUITE 200
ROCKVILLE, MD 20850
TEL: 301-983-9300
WWW.WMCONSULTANTS.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION.



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

<p>DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND</p>	DESIGNED _____ DRAFTED _____ CHECKED _____	DESIGN PLAN APPROVAL Craig L. Simoneau 2022.04.19 17:31:50-04:00' DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL _____ CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	LIGHTING PLAN	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 IFB	SCALE: 1"=10' SHEET NO. 32 OF 37	FILE #
	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL							

EROSION AND SEDIMENT CONTROL NOTES: (NOV 2016)

- THE APPLICANT MUST OBTAIN INSPECTION AND APPROVAL BY THE CITY OF ROCKVILLE DEPARTMENT OF PUBLIC WORKS (DPW) AT THE FOLLOWING POINTS:
 - AT THE REQUIRED PRECONSTRUCTION MEETINGS.
 - BEFORE INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITIES.
 - DURING THE CONSTRUCTION OF SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
 - PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL DEVICES.
 - PRIOR TO FINAL ACCEPTANCE.
- ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS AND THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- THE APPLICANT SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE. SHALL HAVE THEM INSPECTED AND APPROVED BY DPW PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES WITHOUT PRIOR PERMISSION FROM DPW.
- ANY REQUEST FOR CHANGES TO THE APPROVED SEDIMENT CONTROL PLAN OR SEQUENCE OF CONSTRUCTION MUST BE SUBMITTED TO THE DPW SEDIMENT CONTROL INSPECTOR AND APPROVED BEFORE IMPLEMENTING CHANGES. MAJOR CHANGES WILL REQUIRE A PLAN REVISION.
- THE APPLICANT SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVELING PUBLIC THROUGHFARES(1). ALL MATERIALS DEPOSITED ONTO PUBLIC THROUGHFARES(1) SHALL BE REMOVED IMMEDIATELY.
- THE APPLICANT SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DPW SEDIMENT CONTROL INSPECTOR.
- ALL SEDIMENT BASINS, TRAP EMBRANKMENTS, SLOES, PERMEABLE DIKES AND PERMANENT SLOES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOO, SEED AND ANCHORED STRAW MULCH OR OTHER APPROVED STABILIZATION MEASURES. WITHIN SEVEN CALENDAR DAYS OF ESTABLISHMENT, ALL AREAS DISTURBED OUTSIDE OF THE PERMEABLE SEDIMENT CONTROL DEVICES SHALL BE STABILIZED. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. RESTABILIZATION OR OVERSEEDING WILL BE REQUIRED, IF NECESSARY.
- THE APPLICANT SHALL APPLY SOO, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. OTHER ACTIVE CONSTRUCTION AREAS THAT ARE NOT BEING ACTIVELY GRADED (I.E., ROUTES FOR CONSTRUCTION VEHICLES) MAY BE TEMPORARILY STABILIZED AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR. STOCKPILES, WHICH HAVE NOT BEEN USED FOR SEVEN (7) CALENDAR DATES SHALL BE STABILIZED THROUGH THE APPLICATION OF SOO, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION METHODS.
- PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE APPLICANT SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREA USING SOO OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, STABILIZATION IS FOUND TO BE IMPRACTICAL. APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.
- THE SITE WORK MATERIALS, APPROVED SEDIMENT CONTROL AND STORMWATER MANAGEMENT PLANS, AND ANY REQUIRED TEST REPORTS SHALL BE AVAILABLE, AT THE SITE FOR INSPECTION BY AUTHORIZED OFFICIALS OF THE CITY OF ROCKVILLE.
- SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PERMEATING DRAINAGE FLOWS FROM TRAVELING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER CONCENTRATION WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
- PERMANENT SLOES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOO OR SEED WITH APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
- TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH PERMISSION OF DPW, WITHIN 30 CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. IF ESTABLISHMENT IS NOT FULL AND UNIFORM AS DETERMINED BY THE DPW SEDIMENT CONTROL INSPECTOR, OVERSEEDING WILL BE REQUIRED. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
- NO PERMANENT CUT OR FILL SLOPE WITH A GRAIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS, A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN AREAS THAT ARE NOT TO BE MAINTAINED PROVIDED THAT THESE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GRASS COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
- THE APPLICANT SHALL INSTALL A SLOSH BLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.
- ALL WATER PUMPED FROM AN EXCAVATION DURING CONSTRUCTION SHALL BE PUMPED EITHER TO SEDIMENT TANKS AND/OR SEDIMENT TRAPS. NO WATER WILL BE PUMPED TO THE STORM DRAIN SYSTEM OR SWALE. DE-WATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOR FINISHED GRADING, THE APPLICANT SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO: (1) PREVENT WATER FROM STANDING ON THE SURFACE OF LANS MORE THAN 24 HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS 48 HOURS AFTER THE END OF A RAINFALL, AND (2) PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS OR GRINIENS.
- SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20-FEET OF A SLOPE, WHICH EXISTS OR IS UNDER CONSTRUCTION. NO BUILDING MAY BE WITHIN 20-FEET OF A SEDIMENT TRAP OR BASIN.
- ALL INLET IN NON-SUMP AREAS SHALL HAVE ASHALL BERMS INSTALLED AT THE TIME OF BASE PAVING TO DIRECT RUNOFF TO INLETS.
- THE DPW SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.
- ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
- NO CONSTRUCTION VEHICLES SHALL BE DRIVEN WITHIN THE FOOTPRINT OF THE PERMEABLE PAVEMENT. CONTRACTOR TO STABILIZE PERMEABLE PAVEMENT AREAS AT THE END OF EACH WORK DAY.

- VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- TEMPORARY SEDIMENT TRAPS(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE-HALF (1/2) FEET DEPTH BETWEEN THE OUTLET CREST AND THE BOTTOM OF THE TRAP.
- SEDIMENT REMOVED FROM TRAPS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS IN SUCH A MANNER THAT IT DOES NOT FLOW EXISTING OR PROPOSED STORM DRAINAGE SYSTEMS OR AREAS ALREADY STABILIZED. SEDIMENT SHALL NOT BE PLACED ON TOP OF MULCH.
- SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42-INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN EIGHT-FEET, HAVE MESH OPENINGS NO GREATER THAN TWO-INCHES IN WIDTH AND FOUR-INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- OFF-SITE SPILL OR BROW AREAS MUST HAVE APPROVED SEDIMENT CONTROL PLANS.
- PROTECT ALL TREES TO BE PRESERVED DURING CONSTRUCTION IN ACCORDANCE WITH THE APPROVED FOREST CONSERVATION PLAN.
- THE APPLICANT IS RESPONSIBLE FOR ALL ACTIONS OF CONTRACTOR AND SUBCONTRACTORS, INCLUDING REPAIRING DAMAGE TO SEDIMENT CONTROL DEVICES AND EXISTING INFRASTRUCTURE.
- THE APPLICANT SHALL COMPLY WITH ALL PROVISIONS OF THE WPO'S CONSTRUCTION DISCHARGE PERMIT. A COPY OF THE PERMIT AND ALL REQUIRED REPORTS SHALL BE AVAILABLE ON SITE AT ALL TIMES.

GEOTECHNICAL NOTES: (NOV 2016)

- THE APPLICANT SHALL BE RESPONSIBLE FOR ALL SUBGRADE INSPECTION AND SOIL COMPACTION TESTING ASSOCIATED WITH ANY WORK WITHIN A CITY RIGHT-OF-WAY, PRIVATE PROPERTY SUBJECT TO A PUBLIC ACCESS EASEMENT, OR ANY PROPERTY SUBJECT TO A PUBLIC EASEMENT FOR PUBLIC UTILITIES IMPROVEMENTS AND/OR ANY WORK ASSOCIATED WITH A SEDIMENT CONTROL FACILITY, OR STORMWATER MANAGEMENT PRACTICE. THIS WORK SHALL BE COMPLETED BY OR UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND. FOR THE PURPOSES OF THESE STANDARDS AND SPECIFICATIONS, APPROVED SHALL BE REFERRED TO AS THE GEOTECHNICAL ENGINEER AND SHALL BE AN INDEPENDENT FIRM FROM THE APPLICANT.
- ANY PLANS SUBJECT TO NRC-50 POND CODE 378 STANDARDS/SPECIFICATIONS, AS SHOWN ON THE PLANS, SHALL SUPERSEDE THESE NOTES WHEN THESE NOTES ARE LESS STRINGENT OR IN CASE OF CONFLICT. ANY REFERENCE TO THE ENGINEER 378 STANDARDS/SPECIFICATIONS SHALL BE REFERRED TO THE DESIGN PLANS, ANY REFERENCE TO THE GEOTECHNICAL ENGINEER SHALL BE THE GEOTECHNICAL ENGINEER AS DEFINED ABOVE OR THE GEOTECHNICAL ENGINEER WHO COMPLETED CERTAIN ASPECTS OF THE POND DESIGN.
- ALL INSPECTIONS, TESTS, SUPPORTING DATA, REPORTS, AND CERTIFICATIONS SHALL BE PROVIDED TO THE CITY OF ROCKVILLE DEPARTMENT OF PUBLIC WORKS BY THE PROFESSIONAL ENGINEER WHO COMPLETED THE DESIGN, DAILY INSPECTION REPORTS, IF REQUESTED BY THE CITY, CAN BE PROVIDED WITHOUT BEING IMMEDIATELY SEALED BY THE GEOTECHNICAL ENGINEER. THESE REPORTS SHALL BE COMPILED, REVIEWED, SEALED AND THEN SUBMITTED TO DPW AT A LATER DATE AS AGREED UPON BY THE CITY.
- THE GEOTECHNICAL ENGINEER SHALL APPROVE ALL FILL MATERIALS THAT ARE USED FOR THE PROJECT. THE GEOTECHNICAL ENGINEER SHALL OBTAIN SAMPLES OF PROPOSED FILL MATERIALS AND PERFORM ALL REQUIRED TESTING TO DETERMINE THAT FILL MATERIALS ARE IN CONFORMANCE WITH THIS PLAN.
- THE GEOTECHNICAL ENGINEER SHALL PROVIDE A REPORT THAT CERTIFIES THE SUBGRADE PREPARATION AND BACKFILL PLACEMENT WITH THIS PLAN. THE CERTIFICATION APPLIES TO ALL FILL, BACKFILL, AND SUBGRADE OPERATIONS SUBJECT TO THIS PLAN AS DETAILED IN NOTE #1, INCLUDING UTILITY TRENCHES. WHEN CONSTRUCTING NEW ROADWAY PAVEMENT THIS CERTIFICATION REPORT SHALL BE PROVIDED PRIOR TO THE START OF GRADED AGGREGATE BASE (GAB). ALL OTHER CERTIFICATIONS SHALL BE PROVIDED AS REQUESTED BY THE CITY.
- ALL FILL AND/OR BACKFILL MATERIAL SHALL BE FREE FROM ORGANICS, FROZEN MATERIAL, ROCKS/STONES GREATER THAN ONE AND A HALF INCHES IN ANY DIMENSION, WASTE METAL PRODUCT, UNSORTED DEBRIS, TOXIC MATERIAL, OR OTHER MATERIALS SHOWN TO BE A HAZARD. THE MAXIMUM DRY DENSITY OF FILL SHALL BE THE MAXIMUM DRY DENSITY ACCORDING TO ASTM 1-180, METHOD C1, AND SHALL NOT HAVE A LIQUID LIMIT GREATER THAN 30 NOR A PLASTICITY INDEX GREATER THAN SIX ACCORDING TO ASTM D-4318. ALL OTHER MATERIALS SHALL MEET THE REQUIREMENTS STATED IN CATEGORY 300 OF THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
- COMPACT THE MATERIAL THAT IS ONE FOOT BELOW THE TOP OF SUBGRADE TO AT LEAST 92 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM 1-180, COMPACT THE TOP ONE FOOT TO AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY. WHEN NECESSARY, ADD WATER OR DRY THE LAYER IN ORDER TO COMPACT TO THE REQUIRED DENSITY. GENERALLY THE MATERIAL SHALL BE WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE CONTENT BUT MAY BE OUTSIDE OF THIS RANGE IF APPROVED BY THE GEOTECHNICAL ENGINEER.
- ALL BACK AND BACKFILL MATERIALS MUST COMPLETELY FILL ALL SPACES UNDER AND ADJACENT TO THE STRUCTURE OR PIPE. FOR STORMWATER MANAGEMENT EMBANKMENTS, THE APPLICANT SHALL SCARIFY EACH LIFT WITH A SHEEPSFOOT ROLLER OR PLAN TO MINIMUM DEPTH OF TWO-INCHES PRIOR TO PLACING THE NEXT LIFT. THE APPLICANT SHALL SCARIFY EMBANKMENTS PARALLEL WITH THE CENTERLINE OF THE DAM CORE AND PERPENDICULAR TO THE PERIPHERAL SPILLWAYS. BEDDING SHALL BE PROVIDED IN ACCORDANCE WITH DETAILS INDICATED ON THE CONSTRUCTION DRAWINGS. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVE EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR-FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE, UNDER NO CIRCUMSTANCES SHALL THE APPLICANT DRIVE EQUIPMENT OVER ANY PART OF A CORRUGATED METAL PIPE UNLESS THERE IS A COMPACTED FILL OF 24-INCHES OR GREATER OVER THE STRUCTURE OR PIPE.
- AT A MINIMUM, COMPACTION TESTS SHALL BE COMPLETED FOR EVERY LIFT OF FILL OR BACKFILL. THE TESTING FREQUENCY SHALL BE AT LEAST ONCE PER 150 LINEAR FEET OF TRENCH OR ONE PER 1,500 SQUARE FEET OF FILL. AT A MINIMUM, THERE SHALL BE AT LEAST ONE COMPACTION TEST PER LIFT AND AT LEAST TWO COMPACTION TESTS PER DAY. THE GEOTECHNICAL ENGINEER SHALL SUPPLY DPW WITH CERTIFIED COMPACTION TEST RESULTS, INCLUDING CERTIFICATION OF PIPE BEDDING SUBGRADE AND FILL SUBGRADE.
- PRIOR TO PLACING ANY ROADWAY FILL ON EXISTING GRADES (ORIGINAL GRADE AFTER TOPSOIL HAS BEEN STRIPPED, FILL PREPARED BY OTHERS OUTSIDE OF THIS PLAN OR FILL NOT PREPARED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER), SCARIFY THE MINIMUM TOP EIGHT-INCHES OF SOIL MATERIAL. COMPACT THIS LAYER TO THE COMPACTION REQUIREMENTS IN THESE NOTES. PROOF-ROLL THIS COMPACTED LAYER USING FULLY LOADED DUMP TRUCK (MINIMUM 20 TON PAYLOAD CAPACITY). THE GEOTECHNICAL ENGINEER SHALL INSPECT THE PROOF-ROLLING AND DETERMINE IF THE SUBGRADE IS ACCEPTABLE OR IF THERE ARE AREAS THAT REQUIRE REMEDIATION. SUBGRADE AREAS THAT FAIL PROOF-ROLLING SHALL BE REMEDIATED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER BY EITHER OF THE FOLLOWING METHODS:
 - SCARIFYING, MOISTURE CONDITIONING, AND RE-COMPACTION OF THE SUBGRADE MATERIALS.
 - UNDERCUTTING SOFT OF UNSUITABLE AREAS OF SUBGRADE AND BACKFILLING WITH COMPACTED SELECT BURROW (MSHA SECTION 916).
 - UNDERCUTTING OF SOFT OR UNSUITABLE AREAS OF SUBGRADE AND PLACING A LAYER OF GEOTEXTILE COVERED BY MSHA 51 COARSE AGGREGATE (TABLE 901A).
- DPW MAY APPROVE AN ALTERNATE APPROACH FOR SOIL REMEDIATION/IMPROVEMENT IF IT IS RECOMMENDED AND SEALED BY THE GEOTECHNICAL ENGINEER.
- EXCEPT WHEN SPECIFIED, DO NOT PLACE LAYERS EXCEEDING EIGHT-INCHES UN-COMPACTED DEPTH. PLACE THE MATERIAL IN HORIZONTAL LAYS ACROSS THE FULL WIDTH OF THE EMBANKMENT. PERFORM ALL ROLLING IN A LONGITUDINAL DIRECTION ALONG THE EMBANKMENT. BEGIN AT THE OUTER EDGES AND PROGRESS TOWARDS THE CENTER, VARY THE TRAVEL PATNS OF TRAFFIC AND EQUIPMENT OVER THE WIDTH OF THE EMBANKMENT TO AID IN OBTAINING UNIFORM COMPACTION.
- UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. GRADE AND PREPARE THE SUBGRADE SECTION TO THE LINES, GRADES, CROSS SECTIONS AND/OR ELEVATIONS SHOWN ON THE PLANS. AT ALL TIMES, MAINTAIN THE SUBGRADE SURFACE IN SUCH CONDITION AS TO READILY DRAIN.
- DO NOT PLACE BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MOODY, FROZEN, OR CONTAIN FROST OR ICE. VEHICULAR AND EQUIPMENT TRAFFIC SHALL BE DISTRIBUTED ACROSS THE PREPARED SURFACE IN SUCH A MANNER AS TO PREVENT DISTURBANCE. REPAIR ANY DAMAGE TO THE PREPARED SURFACE TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER MUST APPROVE THE STORAGE OR STOCKPILING OF HEAVY LOADS ON A ROADWAY SUBGRADE.

- UNSATURATED EXISTING FILL, SOFT OR LOOSE NATURAL SOILS, ORGANIC MATERIAL, AND RUBBLE SHALL BE STRIPPED TO APPROVED GRADES AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- PROTECT ALL STRUCTURES AND UTILITIES FROM ANY DAMAGE IN THE HANDLING, PROCESSING OR COMPACTING OF EMBANKMENT OR BACKFILL MATERIAL. EXERCISE CAUTION NEAR ADJACENT RETAINING WALLS, CULVERTS AND UTILITY TRENCHES TO PREVENT UNDESIRABLE STRAIN OR MOVEMENT. THE GEOTECHNICAL ENGINEER MAY REQUIRE THE USE OF SPECIALLY SELECTED MATERIAL ADJACENT TO STRUCTURES TO PROTECT AGAINST DAMAGE. DO NOT USE ROCK GREATER THAN ONE AND A HALF INCHES IN ANY DIMENSION ADJACENT TO STRUCTURES.
- WHEN PLACING AND COMPACTING EMBANKMENT ON HILLSIDES OR AGAINST EXISTING EMBANKMENT, CONTINUOUSLY BENCH THE SLOPES WHERE THE SLOPE IS STEEPER THAN 4:1 WHEN MEASURED AT RIGHT ANGLES TO THE ROADWAY OR EMBANKMENT CENTERLINE. PERFORM THE BENCHING OPERATION AS THE EMBANKMENT IS CONSTRUCTED IN LAYERS. MAINTAIN A BENCH WIDTH OF AT LEAST FIVE-FEET. CONTINUOUSLY CUT AND BACKFILL THE INTERSECTION OF THE ORIGINAL GRADE AND THE VERTICAL SIDES OF THE PREVIOUS CUT. IF THE MATERIAL CUT FROM THE BENCHES MEETS FILL REQUIREMENTS, COMPACT THIS MATERIAL ALONG WITH THE NEW EMBANKMENT MATERIAL.
- WHEN PLACING FILL OVER EXISTING PAVEMENT, THOROUGHLY BREAK UP, SCARIFY, OR REMOVE THE PAVEMENT AS SPECIFIED OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- PRIOR TO THE PLACEMENT OF ASPHALT PAVEMENT, PROOF-ROLL THE COMPACTED GRADED AGGREGATE BASE (GAB) LAYER USING A FULLY LOADED DUMP TRUCK (MINIMUM 20 TON PAYLOAD CAPACITY). THE GEOTECHNICAL ENGINEER SHALL INSPECT THE PROOF-ROLLING AND DETERMINE IF THE GAB IS ACCEPTABLE OR IF THERE ARE AREAS THAT REQUIRE REMEDIATION. GAB AREAS THAT FAIL PROOF-ROLLING SHALL BE REMEDIATED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER BY EITHER OF THE FOLLOWING METHODS:
 - SCARIFYING, MOISTURE CONDITIONING, AND RE-COMPACTION OF THE GAB MATERIALS.
 - UNDERCUTTING SORT OF UNSUITABLE AREAS OF GAB AND REPLACING WITH COMPACTED GAB.
- DPW MAY APPROVE AN ALTERNATE APPROACH FOR GAB REMEDIATION/IMPROVEMENT IF IT IS RECOMMENDED AND SEALED BY THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL PROVIDE A SEALED APPROVAL OF THE GAB PRIOR TO PLACEMENT OF ASPHALT. DPW MAY ACCEPT AN ORAL OR EMAIL APPROVAL WHILE THE FINAL APPROVAL AND REPORTS ARE BEING COMPILED AND COMPLETED.

OWNER/DEVELOPER CERTIFICATION

I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT, OR ALL OF THESE, WILL BE DONE PURSUANT TO THIS PLAN AND THAT RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING OF THE PROJECT AND THAT APPLICABLE SEDIMENT CONTROL CONDITIONS AND REQUIREMENTS OF THE CITY OF ROCKVILLE AND THE STATE OF MARYLAND AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN.

SIGNATURE: _____
PRINTED NAME AND TITLE: _____

DESIGN AND QUANTITIES CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND THE ORDINANCE OF THE ROCKVILLE CITY CODE. THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL HAS BEEN COMPUTED TO BE 0 CUBIC YARDS OF EXCAVATION AND 0 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 13,010 SQUARE FEET OF WHICH 13,010 IS ON-SITE PROPOSED DISTURBANCE RIGHT-OF-WAY. THE IMPERVIOUS AREA SUBJECT TO STORMWATER MANAGEMENT SHOWN ON THIS PLAN IS 0.25 ACRES OF WHICH 0.25 ACRES IS ON-SITE IMPERVIOUS AREA WITHIN THE RIGHT-OF-WAY.

SIGNATURE: _____
PRINTED NAME AND TITLE: SETH H. DARLINGTON, PE
DATE: MARCH 30, 2022
TITLE & LICENSE NUMBER: PROFESSIONAL ENGINEER 39917

STABILIZATION NOTE:

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION WILL BE COMPLETED WITHIN:
- THREE CALENDAR DAYS AS TO THE SURFACE OF ALL PERMEABLE CONTROL, DIKES, SLOAES, DITCHES, DITCHES, PERMEABLE SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1).
 - SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE DEVELOPMENT PROJECT NOT UNDER ACTIVE GRADING.
- MAINTENANCE WILL BE PERFORMED, AS NECESSARY, TO ENSURE THAT THE STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE CURRENT MOE AND CITY STANDARDS AND SPECIFICATIONS.

STANDARD SEQUENCE OF CONSTRUCTION:

- GENERAL NOTES:
- COMPLY WITH THE CITY OF ROCKVILLE'S STANDARD EROSION AND SEDIMENT CONTROL NOTES.
 - CITY INSPECTORS RESERVE THE RIGHT TO REQUEST ADDITIONAL MEASURES NOT INCLUDED ON THE PLANS.
 - CHANGES TO THE APPROVED PLANS REQUIRE WRITTEN APPROVAL FROM DPW ENGINEERING AND MAY REQUIRE AN APPROVED "REDLINED" PLAN REVISIONS BEFORE PROCEEDING.

- PRE-CONSTRUCTION MEETING:
- THE FOLLOWING ITEMS MUST BE COMPLETED PRIOR TO THE PRE-CONSTRUCTION MEETING:
- LIMITS OF DISTURBANCE (LOD) AND TREE PROTECTION MEASURES TO BE MARKED/ STAKED OUT IN THE FIELD
 - CONTACT MISS UTILITY AT 1-800-257-7177 OR 811 AND HAVE UTILITIES MARKED IN THE WORK AREA.
- A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE FOLLOWING REPRESENTATIVES:
- MINIMUM NOTICE OF 48 HOURS MUST BE PROVIDED PRIOR TO MEETING.
 - CITY OF ROCKVILLE SEDIMENT AND EROSION CONTROL INSPECTOR: ARTHUR SIMPSON AT 240-314-8879
 - CITY OF ROCKVILLE CONSTRUCTION INSPECTOR: RALPH McELMINEY AT 240-314-8553
 - CITY OF ROCKVILLE FORESTRY INSPECTOR: PAULA PEREZ AT 240-314-8706
 - ANY OF AGENCY ISSUING A PERMIT
 - PERMITEE, OWNER, OR OWNERS REPRESENTATIVE
 - GENERAL CONTRACTOR
 - SITE ENGINEER

- THE FOLLOWING ITEMS MUST BE DISCUSSED, AS NEEDED, DURING A PRE-CONSTRUCTION MEETING:
- HAUL ROUTES AND MAINTENANCE OF TRAFFIC
 - EXISTING SWM FACILITIES DOWNSTREAM OF PROJECT
 - SWM CONSTRUCTION INSPECTION AND AS-BUILT PROCESS (SEE SWM PLAN)
 - WATER SYSTEM SHUT DOWNS

SITE PREPARATION:

- WITH APPROVAL FROM CITY OF ROCKVILLE SEDIMENT CONTROL, CONSTRUCTION, AND FORESTRY INSPECTORS, INSTALL PERMEABLE CONTROLS, TREE PROTECTION MEASURES AND STABILIZED CONSTRUCTION ENTRANCE.
- WITH STEP 1 ABOVE COMPLETE, OBTAIN APPROVAL FROM THE CITY OF ROCKVILLE INSPECTORS TO BEGIN CLEARING AND GRADING AND SITE CONSTRUCTION.

PROJECT SEQUENCE OF CONSTRUCTION:

- BEGIN GRUBBING AND ROUGH GRADING. NO STAGING/ STOCKPILE AREA IS DESIGNATED. CONTRACTOR TO DESIGNATE STOCKPILE AREA IF NECESSARY AND OBTAIN ALL NECESSARY PERMITS FOR STAGING/ STOCKPILE AREA.
- BEGIN CONSTRUCTION, WITH APPROVAL FROM THE INSPECTOR, RELOCATE COOP TO PROPOSED INLET #1-01 AS SOON AS THE INLET IS CONSTRUCTED.
- FINE GRADE AND TOPSOIL PER STANDARDS AND SPECIFICATIONS FOR TOPSOILING ON THIS PLAN.
- COMPLY WITH ALL REQUIREMENTS OF THE FORESTRY PERMIT, AS APPLICABLE. ONCE THE SITE IS STABILIZED AND WITH THE CITY'S SO INSPECTOR'S PERMISSION, REMOVE THE SEDIMENT CONTROL MEASURES AND STABILIZE THE AREAS DISTURBED BY THEIR REMOVAL.
- OBTAIN FINAL INSPECTION AND SUBMIT AS-BUILT PLANS TO THE CITY OF ROCKVILLE FOR APPROVAL.

WALLACE MONTGOMERY
CONSULTANTS
INCORPORATED
1400 W. WASHINGTON STREET
SUITE 200
ROCKVILLE, MD 20854
TEL: 301-251-7777
WWW.MISSUTILITY.NET

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED: L.E.W.
DRAFTED: L.E.W.
CHECKED: C.Y.W.

DESIGN PLAN APPROVAL
Craig L. Simonneau
2022.04.19
17:21:56-0400

AS BUILT PLAN APPROVAL
REVIEWED BY: _____
DATE: _____

DIRECTOR OF PUBLIC WORKS APPROVAL DATE: _____
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE: _____

EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

NORTH WASHINGTON STREET AND EAST MIDDLE LANE
ROAD DIET PROJECT

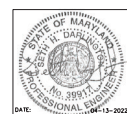
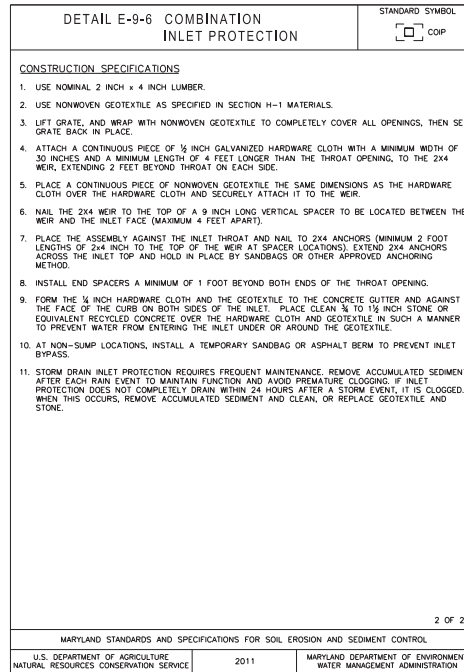
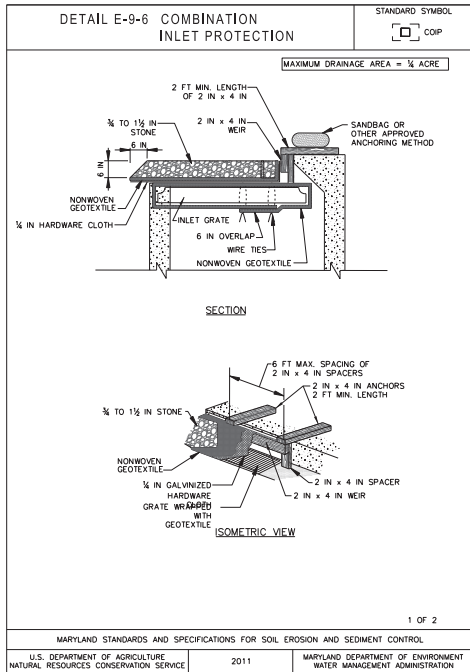
Election District No. 2 City of Rockville, Maryland






DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

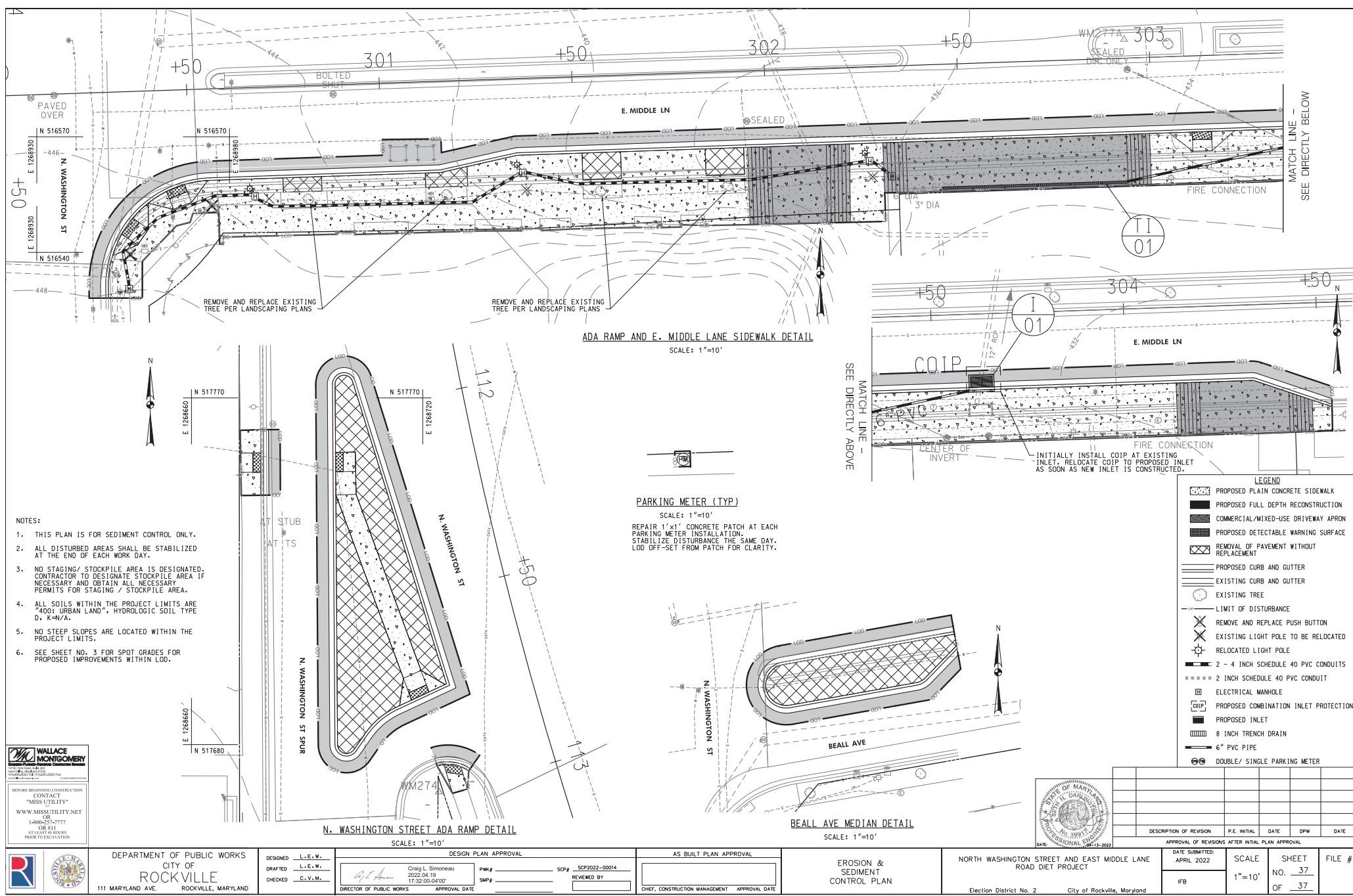
APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL

SCALE	SHEET	FILE #
N.T.S.	NO. 33	
IFB	OF 37	



DESCRIPTION OF REVISION	P.E. INITIAL	DATE	CPW	DATE

 DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DESIGNED <u>L. E. W.</u> DRAFTED <u>L. E. W.</u> CHECKED <u>C. Y. M.</u>	DESIGN PLAN APPROVAL  Craig L. Simmons 2022.04.19 17:31:59-04'00' DIRECTOR OF PUBLIC WORKS APPROVAL DATE	AS BUILT PLAN APPROVAL  CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT Election District No. 2 City of Rockville, Maryland	DATE SUBMITTED: APRIL 2022 IFB	APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL SCALE N.T.S.	SHEET NO. <u>36</u> OF <u>37</u>	FILE #
	BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-255-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.		WALLACE MONTGOMERY 10000 Rockville Pike, Rockville, MD 20850 www.wallacemontgomery.com		STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION DIVISION OF STATEWIDE OPERATIONS DATE: 04-13-2022		APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		SHEET NO. <u>36</u> OF <u>37</u>



- NOTES:
1. THIS PLAN IS FOR SEDIMENT CONTROL ONLY.
 2. ALL DISTURBED AREAS SHALL BE STABILIZED AT THE END OF EACH WORK DAY.
 3. NO STAGING/ STOCKPILE AREA IS DESIGNATED. CONTRACTOR TO DESIGNATE STOCKPILE AREA IF NECESSARY AND OBTAIN ALL NECESSARY PERMITS FOR STAGING / STOCKPILE AREA.
 4. ALL SOILS WITHIN THE PROJECT LIMITS ARE "400: URBAN LAND", HYDROLOGIC SOIL TYPE D, K-H/A.
 5. NO STEEP SLOPES ARE LOCATED WITHIN THE PROJECT LIMITS.
 6. SEE SHEET NO. 3 FOR SPOT GRADES FOR PROPOSED IMPROVEMENTS WITHIN LOD.

WALLACE MONTGOMERY
CONSULTANTS
1100 N. WASHINGTON ST.
ROCKVILLE, MD 20854
TEL: 301-983-9300
WWW.WMCONSULTANTS.COM

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" WWW.MISSUTILITY.NET OR 1-800-251-7777 FOR BILL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED L.E.W.
DRAFTED L.E.W.
CHECKED C.V.M.

DESIGN PLAN APPROVAL
Craig L. Simonsau
2022.04.19
17:32:00-04:00

AS BUILT PLAN APPROVAL

EROSION & SEDIMENT CONTROL PLAN

NORTH WASHINGTON STREET AND EAST MIDDLE LANE ROAD DIET PROJECT

Election District No. 2 City of Rockville, Maryland

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL		DATE SUBMITTED:	SCALE	SHEET	FILE #
DESCRIPTION OF REVISION	P.E. INITIAL	DATE	NO.	OF	
		APRIL 2022	1"=10'	37	
		IFB		37	