



Commission Work Session Agenda

Tuesday, May 06, 2025 at 6:30 PM

Hybrid Meeting

3820 40th Avenue Cottage City, Maryland 20722

This meeting will be hosted Hybrid: Town Hall & Zoom

<https://us02web.zoom.us/j/89670225884?pwd=eklVZW03UElvNW03TzJFcjBOTmR2Zz09>

Phone: 301-715-8592 | Meeting ID: 896 7022 5884 | Passcode: 922160

Call to Order and Roll Call

Review of Agenda

Public Hearing:

For the taxable year beginning July 1, 2025, the Commission of the Town of Cottage City of Prince George's County proposed to increase commercial real property tax rates from \$.6735 per 100 of assessment to \$.72 per 100 of assessment.

Anyone seeking to speak must sign in prior to the end of the Public Hearing. There is a 3-minute time limit. When you come up to speak, you will need to state your name, address, what organization that you represent.

Business

- 1.** New Website & SeeClickFix Introduction (Civic Plus Team)
- 2.** Port Towns Joint Resolution 2025-01: Form A Community Development Corporation (CDC) (Commission Discussion)
- 3.** Port Town Composting (Commission Discussion)
- 4.** America In Bloom Tour Date: July 21 to July 25 (Commission Discussion)
- 5.** Cottage City Resident Stickers (Commission Discussion)
- 6.** 43rd Avenue Stormwater Maintenance RFP (Commission Discussion)
- 7.** 1st Reading: Ordinance 2025-02: Adopt Budget & Levy Property Taxes FY 2025-2026 (Commission Discussion)

Public Comments

Anyone seeking to speak under Public Comments must sign in prior to the end of the Board Work Session. There is a 3-minute time limit. When you come up to speak, you will need to state your name, address, what organization that you represent and your topic of concern(s).

Updates

Motion To Go Into A Closed Session:

This meeting will be closed under General Provisions Art. § 3-305(b) only: (1)____“To discuss the appointment, employment, assignment, promotion, discipline, demotion, compensation, removal,

resignation, or performance evaluation of appointees, employees, or officials over whom this public body has jurisdiction; any other personnel matter that affects one or more specific individuals".

The Commission plans to go into a closed session to conduct interviews for the Skilled Public Works Laborer Position.

Open Session Following Closed Session

Adjournment

All meetings are subject to closure pursuant to the Maryland Open Meetings Act: Pursuant to the Annotated Code of Maryland, State Government Article Section 10-508(a), the Council by majority vote may retire to executive or closed session at any time during the meeting. Should the Commission retire to executive or closed session the Chair will announce the reasons and a report will be issued at a future meeting disclosing the reasons for such closed session.



Bladensburg Colmar Manor Cottage City Edmonston

Joint Resolution No. 2025-01

A JOINT RESOLUTION OF THE MAYORS AND COMMISSION CHAIR, COUNCILS, AND COMMISSION OF THE PORT TOWNS OF BLADENSBURG, COLMAR MANOR, COTTAGE CITY, AND EDMONSTON TO FORM A COMMUNITY DEVELOPMENT CORPORATION (CDC) AND ESTABLISH A GOVERNANCE STRUCTURE

WHEREAS, the Towns of Bladensburg, Colmar Manor, Cottage City, and Edmonston (hereinafter referred to as the "Port Towns") recognize the importance of regional collaboration to drive economic development, infrastructure investment, and community enhancement; and

WHEREAS, the Port Towns seek to establish a Community Development Corporation (CDC) to enhance economic growth, cooperatively build infrastructure, preserve cultural and historical character, promote environmental sustainability, and improve the quality of life for all residents within the Port Towns communities; and

WHEREAS, the Port Towns have previously resolved to work jointly on the formation of a CDC, and the final trade name of the organization will be determined by a vote of the governing board upon establishment; and

NOW, THEREFORE, BE IT RESOLVED THAT the Towns of Bladensburg, Colmar Manor, Cottage City, and Edmonston formally support the creation of a new Community Development Corporation and agree to the following governance structure and key operational principles:

Board Membership and Governance Structure:

1. **Membership:** The initial Board of Directors shall consist of nine (9) members. Each Town shall appoint two (2) representatives to the Board, with at least one elected official from the respective Council or Commission. Appointments shall be submitted in writing to the Board Chair.
2. **At-Large Member:** One (1) at-large member shall be appointed on a rotating basis for a two-year term. This individual shall represent a local business or business association and be selected by a majority vote of the Board.
3. **Ex-Officio Members:** The Town Administrators and/or Town Managers shall serve as ex-officio officers, providing advisory and operational support.

4. **Board Chair:** The Board of Directors shall select a Chair by majority vote to serve a two-year term. The position may rotate, or the Board may determine an alternate process.
5. **Attendance Requirements:** Members must attend at least 50% of the meetings annually. If a Board member exceeds 50% unexcused absences, the Board shall consult with the appointing Town regarding reappointment.

Committee Structure:

The Board shall establish committees composed of Board members and appointed community stakeholders to focus on key development areas. The core committees shall include:

- **Economic Development and Redevelopment**
 - **Infrastructure and Sustainability**
 - **Community Engagement and Quality of Life**
 - **Tourism, Historic Sites, and Community Assets**
- The Board may create additional special committees as needed through a majority vote.

Meetings and Reporting:

- The Board shall convene at least four (4) times yearly.
- An end-of-year report, summarizing accomplishments, financial status, and strategic updates, shall be submitted to each Town by March 30th of the following calendar year.

Funding and Financial Support:

1. **Town Contributions:** Each participating Town shall contribute at least 20% of the total annual expenses or an equal share of the organization's operational costs.
2. **Grants and External Funding:** The CDC shall serve as a collaborative entity to pursue grant funding and leverage financial resources for community capacity-building and infrastructure improvements.

Strategic Development and Economic Growth Initiatives:

- The CDC shall actively promote economic development opportunities across the Port Towns region.
- To foster business growth and community revitalization.
- The organization shall seek partnerships with economic development entities, such as Main Street programs and Business Improvement Districts (BIDs).

Bylaws Development:

- The Board shall draft and adopt formal bylaws within 180 days of the CDC's formation.
- Finalized bylaws shall be distributed to all member Towns upon adoption.

BE IT FURTHER RESOLVED that the Port Towns of Bladensburg, Colmar Manor, Cottage City, and Edmonston are committed to fostering economic prosperity, sustainable development,

and enhanced community collaboration through the formation of this Community Development Corporation.

PASSED AND APPROVED this [XX] day of [Month], 2025, by the Mayors, Chair of the Commission, Councils and Commission of the Port Towns.

WITNESS:

ATTEST

Town Clerk, Town of Bladensburg

Takisha James, Mayor
Town of Bladensburg

Town Clerk, Town of Colmar Manor

Monica Casanas, Mayor
Town of Colmar Manor

Town Manager, Town of Cottage City

Wanda Wheatley, Commissioner Chair
Town of Cottage City

Town Clerk, Town of Edmonston

Tracy R. Gant, Mayor
Town of Edmonston



Join the Compost Crew!

The Port Towns and the Town of Cheverly, along with Eco City Farms and Compost Crew, have joined forces to introduce composting. Simply deposit your food scraps in the Compost Crew bin during the week, leave it at the curb the night before pick-up, and Compost Crew will collect your food scraps weekly. Repeat the process for sustainable, nutrient-rich soil.

WHAT TO COMPOST



WHAT NOT TO COMPOST



SIGN-UP TODAY!



www.edmonstonmd.gov



¡Únase al Equipo de Compostaje!



Las Ciudades Portuarias y la Ciudad de Cheverly, junto con Eco City Farms y Compost Crew, han unido fuerzas para introducir el compostaje. Simplemente deposite sus restos de comida en el contenedor de Compost Crew durante la semana, déjelos en la acera la noche anterior a la recogida y Compost Crew recogerá sus restos de comida semanalmente. Repita el proceso para obtener un suelo sostenible y rico en nutrientes.

Regístrate Hoy!



www.edmonstonmd.gov

QUE COMPOSTAR



QUÉ NO COMPOSTAR



One of the most unique and popular features of America in Bloom is the guided tour the community provides for the visiting Advisors. The purpose of the tour is to give the Advisors an on-site, thorough understanding of the efforts of the municipality, businesses, and residents in the seven criteria. Here are some tips to help you prepare for the tour to best showcase your community.

Preparing for the Tour

Some communities have a lead tour guide, while others have different guides who handle different tour segments. Either way works fine.

Have one to three people tour with the Advisors at any given time to limit social distractions so everyone can focus.

The sites you visit should pertain to the criteria. The tour should provide a good representation of all areas of your community. Plan for refreshment and washroom breaks.

The Advisor's tour is your time to shine, and you will want to share as much information about your community as possible. Just the same, the Advisors want to gain a complete overview of all the wonderful aspects of your community and will ask questions, engage in thoughtful conversations, and take photographs along the way. To have a successful tour it is recommended that you begin each day on or around 8 a.m. At 3 p.m. the Advisors should be returned to their lodging where they will work on the evaluation while details are still fresh and prepare for the evening event if one is scheduled. It is recommended that you discuss your tour plans with your Advisors if adjustments to these times need to be made.

Use meals as an opportunity for Advisors to meet knowledgeable people. Have Advisors sit apart at meals so they can interact with more people. Provide for the dietary restrictions of the Advisors.

At the start of the tour, provide a brief review of the itinerary and description of the events that will occur during the visit. A local map with the route highlighted helps orient the Advisors.

Introduce everyone, including their titles or positions. Name tags with this information are very helpful. Provide the Advisors with a complete list of the people they will meet, including name, title/position, and email. If possible, do a dry run of the tour and remember to allow extra time for questions and discussion. Please remember, the tour takes longer than you anticipate it will. Build some buffer time into your tour.

Prioritize tour stops. Be prepared to delete lower priority stops if the tour runs late.

During the Tour

While driving between stops, tell the Advisors about the next stop and who they will meet.

If you have participated in past years, mention changes made since the previous visit. Making a list for the Advisors is helpful for you and for them. This information should also be highlighted in your Community Profile.

Resource people can ride with the Advisors or be met at different stops. It is important to include resource people involved in the seven criteria, such as a parks department employee, arborist, historian, volunteers, etc.

People on the tour should be able to answer questions or find answers.

Be sure the Advisors can see out the windows. It is better to allow one Advisor to sit in the front seat. Make sure both Advisors can hear the conversation. A van or SUV is better than a sedan.

The tour should remain within the city limits unless a site is maintained by the city, such as a recycling center, or is considered by most residents as being a part of the city, such as ball fields or a conference center. State parks outside city limits, maintained by the state, should not be part of the tour.

Inform the Advisors if an event is a social event or a venue where presentations will be given. The Advisors are glad to speak to large or small groups.

If possible, have a local newspaper reporter or other media rep join the tour for a short time. Take some photos and submit an article to the local paper during or after the tour.

A short wrap-up session at the end of the tour is helpful to allow the Advisors to ask any remaining questions.

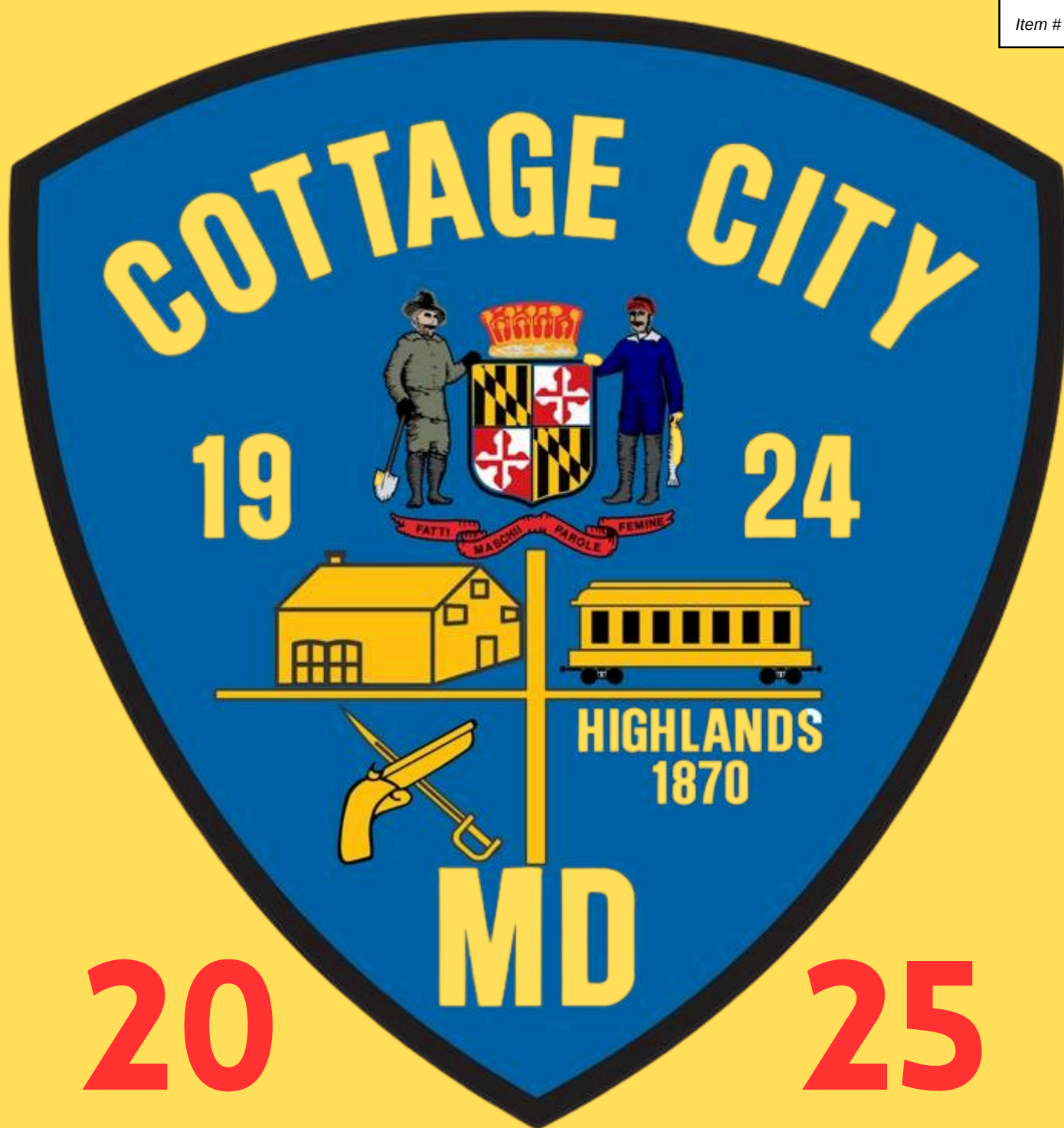
Inform the Advisors if a stop on the tour requires specific footwear or clothing (i.e., hiking up a hill, walking in or near sand or water).

COTTAGE CITY

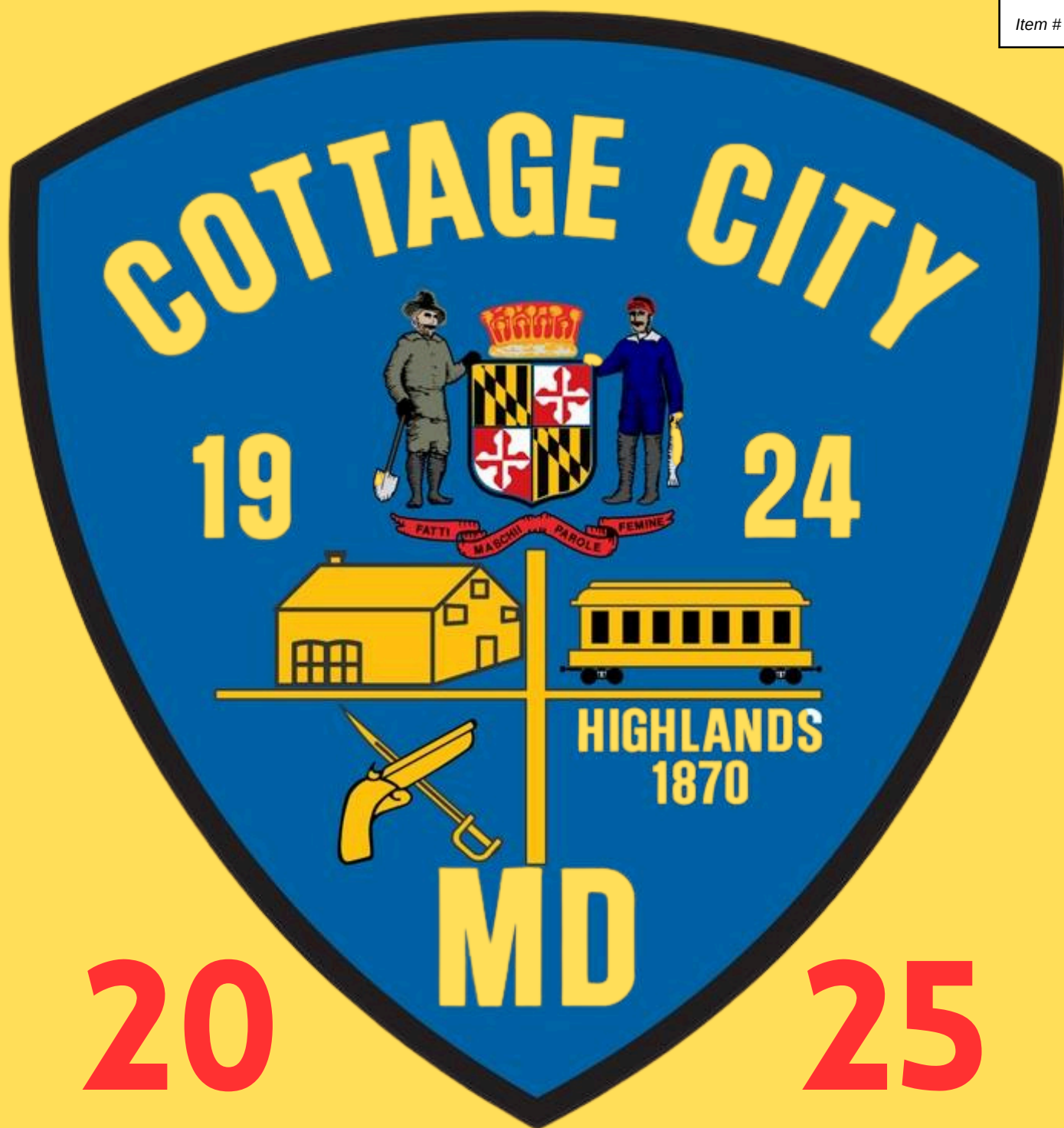
United In Diversity



RESIDENT



VISITOR



20

25

LOCAL ROAD
USE PERMIT



001

RESIDENT



001

VISITOR



RFP # CC-2025-01

**TOWN OF COTTAGE CITY
43RD AVENUE MAINTENANCE PROJECT,
FISCAL YEAR 2025**

**Town of Cottage City
3820 40th Avenue
Cottage City, Maryland 20722**



Request for Proposals Town of Cottage City Stormwater Management RFP # CC-2025-01

Project Overview: The Town of Cottage City invites the submittal of responses to this Request for Proposals (RFP) from qualified Contractor(s) interested in providing bids for a maintenance project.

Scope of Project: This RFP is for a 3-month contract for a maintenance project within the Town of Cottage City. This project must be completed by **September 30, 2025**, due to funding deadlines. Town Elected Officials will participate in the process of selecting the appropriate contractor. (See document (Specifications Ver. 3.0 (March 2020) and bid sheet) prepared by CPJ, Civil Engineers)

Confidentiality: Vendors must treat any designated documents and information provided by the Town as confidential. The Town will treat all proposals received and the information contained therein as confidential until a negotiated contract is executed, or all proposals are rejected.

Public Statement: No vendor shall make any public statement about this RFP without prior written consent from the Town.

General Conditions: The following general conditions apply:

- The Town may not necessarily accept the lowest cost proposal but will strive to select the best and most responsive proposal.
- The Town may cancel this RFP or amend its contents at any time before acceptance of a proposal.
- If no proposal is acceptable, then the Town may either re-issue the request for proposal or negotiate with one or more vendors for a satisfactory offer.
- The award of a proposal shall not be deemed final unless and until a contract is successfully negotiated and approved by Town.



- The project is funded with CDBG dollars and the contract will be subject to applicable Federal requirements and County environmental review.
- This project is subject to Davis-Bacon wage requirements.

Compensation: Each applicant must state the compensation that will be required for the services of the applicant and must specify the minimum time increments for billing. Itemized bills, including the subject matter, date, time, and description of service shall be submitted monthly. Billing for services shall be explained in detail, including all support services and costs incurred.

Submission Requirements: Each bidder will provide a title page (project title, proposer's contact information, & total costs of proposal) and Engineer's Cost Estimate for: Cottage City 43rd Avenue Maintenance Project - Bid Sheet.

Insurance: The bidder must obtain at its own cost and expense and keep in force and effect during the term of the contract, including all extensions and renewals, the insurance specified below, with an insurance company licensed or qualified to do business in the state of Maryland. A certificate of insurance must be submitted to the Town prior to the commencement of any work under the contract and prior to any contract modification extending the term of the contract as evidence of compliance with this provision. The Town of Cottage City must be named as an additional insured on all liability policies. A minimum of thirty (30) days written notice to the Town of cancellation or material change in any of the policies is required. In no event may the insurance coverage be less than that shown below, unless the requirements of this section are waived, in whole or in part, in writing by the Town Manager.

Coverage Amount or Limits: Workers Compensation: Bodily injury by Accident (each) \$100,000, Disease (policy limits) \$500,000, Disease (each employee), \$100,000. Commercial General Liability: \$500,000 (Minimum combined single limit for bodily injury and property damage per occurrence, including contractual liability, premises and operations, and independent contractors.) Minimum



Automobile Liability (Including owned, hired, and non-owned automobiles): Bodily injury, each person \$250,000, Bodily injury, each occurrence \$500,000, Property damage, each occurrence \$300,000. Professional Liability: \$1,000,000 for errors, omissions, and negligent acts, per claim and Aggregate, Professional Liability (for professional services contracts): \$1,000,000.00 (For errors, omission, and negligent acts, per claim and Aggregate, with one-year discovery period and a maximum deductible of \$25,000).

Traffic & Pedestrian Safety: The Contractor will provide barriers, warnings signs and alternative pedestrian access around active work zones where applicable.

Client References: Each bidder-applicant and each subcontractor (if applicable) shall have performed similar work for a minimum period of five (5) years. Each applicant and each subcontractor (if applicable) must provide a minimum of three (3) clients and references that can substantiate past work performance and experience in the type of work required for this contract. For each reference provide company name, contact name, email addresses, phone numbers, and description of work performed. The Town may make such investigations as it deems necessary to determine the ability of the bidder to perform the work.

Rejection of Submissions: The Town reserves the right to do the following: reject any or all submissions, waive informalities and irregularities in the submissions received, and accept any portion of any submission if deemed in the best interest of the Town.

Incurring Cost: The Town will not be liable for any cost incurred by entities or proposers prior to executing a contract or purchase order.

Anti-Lobbying Provision: Vendors must indicate through written promise within the proposal cover letter that Proposer's officers, employees, agents, consultants, or lobbyists will not attempt to lobby or influence a vote or recommendation



related to the Vendor's proposal submitted in response to this RFP; directly or indirectly, through any contact with Town Commissioner or other Town officials between the date that the request is sent out and the date the contract resulting here from is awarded by the Board of Town Commissioners. Such behavior may be an immediate cause for rejection of the Vendor's proposal.

Point of Contact: John Hoatson, Town Manager, can be reached at 240-544-8725 or Email: Townmanager@cottagecitymd.gov with any questions.

Question Deadline: If you have questions, please submit them by **May 23, 2025**

Submission Deadline: Responses to this RFP are to be submitted **NO LATER THAN Friday, June 13, 2025**, at 5 p.m.

By Mail: Town of Cottage City, 3820 40th Avenue Cottage City, Maryland 20722

By Email: townmanager@cottagecitymd.gov

In-Person: Cottage City Town Hall, 3820 40th Avenue Cottage City, Maryland 20722

Selection Process and Criteria: Town Elected Officials will participate in the process of selecting the appropriate firm.

Thank you for your interest in this Request for Proposals for the Town of Cottage City.

TABLE OF CONTENTS

CATEGORY 000 – GENERAL REQUIREMENTS, REFERENCES, AND SPECIFICATIONS

- A. SUMMARY DESCRIPTION OF WORK
- B. REFERENCED STANDARDS AND SPECIFICATIONS
- C. SPECIFICATIONS/SCOPE OF WORK

CATEGORY 100 – PRELIMINARY (MSHA-BASED)

SECTIONS:

- 101 CLEARING AND GRUBBING
- 104 MAINTENANCE OF TRAFFIC
- 107 CONSTRUCTION STAKEOUT
- 108 MOBILIZATION
- 109 CRITICAL PATH METHOD PROJECT SCHEDULE
- 121 MAINTENANCE OF REDLINED CONSTRUCTION DRAWINGS
- 122 CONTRACTOR KEY PERSONNEL REQUIREMENTS

CATEGORY 200 – GRADING (MSHA-BASED)

SECTIONS:

- 203 BORROW EXCAVATION
- 206 REMOVAL OF EXISTING PAVEMENT, SIDEWALK, PAVED DITCHES, CURB, OR COMBINATION CURB AND GUTTER
- 208 SUBGRADE PREPARATION

CATEGORY 300 – DRAINAGE (MSHA-BASED)

SECTIONS:

- 305 MISCELLANEOUS STRUCTURES
- 306 UNDERDRAINS, SUBGRADE DRAINS, AND SPRING CONTROL
- 308 EROSION AND SEDIMENT CONTROL

CATEGORY 400 – STRUCTURES (MSHA-BASED)

SECTIONS:

- 421 REINFORCEMENT FOR STEEL

CATEGORY 500 – PAVING (MSHA-BASED)

SECTIONS:

- 501 AGGREGATE BASE COURSES
- 504 HOT MIX ASPHALT PAVEMENT
- 508 MILLING EXISTING HOT MIX ASPHALT PAVEMENT
- 508A PROTECTIVE NON-WOVEN MEMBRANE FOR PREVENTION OF REFLECTIVE CRACKING AND SEALING
- 520 PLAIN AND REINFORCED PORTLAND CEMENT CONCRETE PAVEMENTS
- 549 PAVEMENT MARKINGS

CATEGORY 600 – SHOULDERS (MSHA-BASED)

SECTIONS:

- 602 CURB, COMBINATION CURB AND GUTTER, AND MONOLITHIC MEDIAN
- 603 SIDEWALKS
- 611 DETECTABLE WARNING SURFACE

CATEGORY 700 – LANDSCAPING (MSHA-BASED)

SECTIONS:

- 705 TURFGRASS ESTABLISHMENT

CATEGORY 900 – MATERIALS (MSHA-BASED)

AMENDED SECTIONS:

- 901 AGGREGATES

CATEGORY 1000 – GENERAL (NON MSHA-BASED)

SECTIONS:

- 1000 UTILITIES
- 1007 CERTIFIED TESTING AND INSPECTION SERVICES
- 1012 GRAVEL FILTER MEDIA
- 1024 SITE ACCESS CONTROL

CATEGORY 2000 – ALLOWANCES

SECTIONS:

- 2001 GENERAL ALLOWANCE

CATEGORY 000 – GENERAL REQUIREMENTS, REFERENCES, AND SPECIFICATIONS

A. SUMMARY DESCRIPTION OF WORK

Prince George's County intends to enter into a Unit Price Project with a qualified firm to provide construction and construction-related services including but not limited to the construction, repair, retrofit, alteration and modernization for:

43th Avenue Maintenance: The project consists of the maintenance repair of 43rd Avenue and the existing 15' alley off 43th Avenue. Work includes but is not limited to mill and overlay of the existing street, replacing commercial entrance and sidewalk, removing and replacing existing asphalt alley with asphalt and concrete, removing and installing curb, and installing trench drain and connection to existing storm drain, and installing concrete driveway entrances. The limits of work are outlined on the construction plan.

The Contractor must provide the Work in accordance with all permits, and their requirements, provided by the Owner for the Projects in the Project; the permits are part of the Project Documents. The Contractor must obtain, and provide the Work in accordance with, all other permits required by law as necessary to complete the Work. The Contractor must schedule all required meetings and inspections with, and obtain required approvals from, the Regulatory Agencies administering each permit.

The Work is not considered complete until the Prince George's DPIE Right-of-Way Inspector has released the Right-of-Way permit (as applicable).

Additionally, the Contractor must obtain required approval signatures, as the inspections are completed, on any Construction Inspection Check-off List provided in the Project Documents. See Section 308 for additional Contractor responsibilities related to the Erosion and Sediment Control permit(s).

The Contractor shall ensure the quality of work by employing qualified, experienced personnel, trained in environmental restoration and sediment control measures. The contractor will provide all necessary management, supervision, personnel, labor, tools, materials, and equipment for each of the Unit Prices bid. This is the means of payment, and is intended to be the price inclusive of all Contractor costs.

B. REFERENCED STANDARDS AND SPECIFICATIONS

The following specifications and standards, including addenda, amendments and errata, form a part of this specification to the extent required by the references thereto. The Contractor must adhere to any newer versions of the referenced standards and specifications. The list below is the most frequently used standards that are referenced but other references may be referenced in the standard specifications.

American Association of State Highway and Transportation Officials (AASHTO). Washington D.C. <<http://www.transportation.org/>>. Referenced as "AASHTO".

American Concrete Institute (ACI), Farmington Hills, Michigan. <<http://www.concrete.org/general/home.asp>>. Referenced as "ACI".

- ACI-318-11 – "Building Code Requirements for Reinforced Concrete".
- ACI-350-06 – "Code Requirements for Environmental Engineering Concrete Structures and Commentary".
- ACI SP-66-04 – "ACI Detailing Manual". This standard replaced ACI 315-92.

American National Standards Institute (ANSI), Washington D.C.

- A300 – "American National Standard for Pruning", 2017.
- Z60.1 – "American Standard for Nursery Stock", 2014.

American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), "Standard Methods for the Examination of Water and Wastewater". Washington D.C. 2017, 23rd Edition. <<http://www.standardmethods.org/>>. Referenced as "Standard Methods for the Examination of Water and Wastewater".

American Society of Testing and Materials International, Standards Worldwide. West Conshohocken, PA. <<http://www.astm.org/Standard/index.shtml>>, Referenced as "ASTM".

Concrete Reinforcing Steel Institute (CRSI). Schaumburg, Illinois. <<http://www.crsi.org/>>. Referenced as "CRSI"

- CRSI "Manual of Standard Practice 2018", 29th edition.
- CRSI "Placing Reinforcing Bars 2019", 10th edition,

International Code Council (ICC), International Building Code (IBC) as adopted by Prince George's County. Washington D.C. <<http://www.iccsafe.org/>>. Referenced as "International Building Code"

Maryland Department of the Environment (MDE), Water Management Administration in association with Soil Conservation Service and State Soil Conservation Committee, "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control". Baltimore, Maryland. 2011. Referenced as "MDE Specifications for Soil Erosion and Sediment Control".

Maryland Department of Environment, Water Resources Administration, "Maryland's Guidelines to Waterway Construction", Baltimore, Maryland. November 2000 revision. Referenced as "MDE Construction Guidelines".

Maryland Department of Transportation (MDOT), State Highway Administration (MSHA), Hanover, Maryland. <<http://www.roads.maryland.gov/home.aspx>>. As revised on MSHA website. Referenced as "MSHA".

- "Book of Standards for Highway and Incidental Structures". Referenced as "MSHA Standard Details".

- “Standard Specifications for Construction and Materials”, July, 2024. Referenced as “MSHA Standard Specifications” or “MSHA”.

Prince George’s County Department of Public Works and Transportation (DPW&T) and Department of Permitting, inspections and Enforcement (DPIE), Largo, Maryland.

- “Specifications and Standards for Roadways and Bridges”; < https://dev.princegeorgescountymd.gov/sites/default/files/media-document/dcv4789_dpwt-specifications-and-standards-for-roadways-and-bridges-pdf.pdf>
- “Applicable Codes”, < <https://www.princegeorgescountymd.gov/departments-offices/permitting-inspections-and-enforcement/plan-review/siteroad-plan-review/applicable-codes>>.
- Maryland Manual on Uniform Traffic Control Devices (MD-MUTCD), 2011.

Prince George’s County Government, Noise Level and Noise Disturbance Standards for Construction Ordinance.

https://library.municode.com/md/prince_george's_county/codes/code_of_ordinances?nodeId=PTIITI17PULOLAPRGECOMA_SUBTITLE_19PO_DIV2NOCO_S19-122.01NOLENODISTCO

National Asphalt Pavement Association (NAPA), Greenbelt, Maryland.

<<http://www.asphaltpavement.org/>>.

- “Design, Construction and Maintenance Guide for Porous Asphalt Pavements for Stormwater Management,” Information Series No. 131, 2008.
- “Design, Construction, and Maintenance of Open-Graded Friction Courses”, Information Series 115, 2002.

NSF International, “NSF/ANSI Standard 61-2019” (NSF 61). Ann Arbor, Michigan.

<<http://www.nsf.org/>>.

United States Department of Agriculture, Natural Resources Conservation Service (NRCS), Maryland, “Conservation Practice Standard, Pond, Code 378”, January 2000. Washington D.C. Referenced as “NRCS MD-378”.

United States Department of Agriculture (USDA), United States Composting Council (USCC),

“Test Methods for the Examination of Composting and Composts (TMECC)”. Washington D.C. 2002.

United States Department of Justice (USDJ), American Disabilities Act (ADA), “ADA Standards for Accessible Design”. Washington D.C. 2010. <<http://www.ada.gov/>>

United States General Services Administration, “Index of Federal Specifications, Standards and Commercial Item Descriptions (FMR 102-27)”. Washington D.C.

<<http://apps.fas.gsa.gov/pub/fedspecs/>>. Referenced as “Federal Specifications”

United States Occupational Safety and Health Administration (OSHA), “Confined Spaces Standard, 2015”. Washington D.C. <<http://www.osha.gov/>>.

Washington Suburban Sanitary Commission (WSSC). Laurel, Maryland. <http://www.wsscwater.com/>

- “General Conditions and Standard Specifications”, 2019. Referenced as “WSSC General Conditions and Standard Specifications”.
- “Standard Details for Construction”, 2016. Referenced as “WSSC Standard Details”.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

C. SPECIFICATIONS/SCOPE OF WORK: NOTE: The specification sections are organized as per Bid Items listed in the Schedule of Unit Prices (listed in Section C).

Where applicable, items are cross-referenced to, and incorporate, information and requirements provided in the Part III – Technical Requirements of the Maryland State Highway Administration (MSHA) July 2024 Standard Specifications for Construction and Materials and the MSHA Book of Standards, latest revision.

The link to the Specifications is:

https://roads.maryland.gov/ohd2/2024_Standard_Specifications_for_Construction_and_Materials.pdf

Note: The General Provisions and Terms and Conditions of the MSHA Standard Specifications for Construction and Materials **DO NOT APPLY** to, and are not incorporated into, this Contract or Project. Refer to the terms and conditions of this Contract or Project including the General Conditions of Construction Contract.

Any references in the Specifications to the “Administration” shall be interpreted as referring to “Prince George’s County, Maryland”.

Any references in the Specifications shall be interpreted as referring to the “Contract Administrator” as defined in the Contract.

Any references in the Specifications to the “MDE” shall be interpreted as referring to the “MDE and Prince George’s County DPIE” as applicable. However, any such changing shall not be to the exclusion of any required MDE reviews.

Any references in the Specifications to material testing by the Engineer shall be deemed to be the Contractor’s responsibility. Contractor must utilize the services of accredited material testing laboratories that are acceptable to the Contract Administrator. All field and laboratory testing required by the Contract must be performed by qualified professionals who are licensed to perform such tests. The results of all material tests must be submitted to the Contract Administrator promptly and before requesting payment for the Work being tested for compliance.

Any reference to “Contract Documents” in the Specifications shall be interpreted as referring to “Project Documents and/or Contract Documents”.

CATEGORY 100 – PRELIMINARY (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Contract Documents. In case of conflict between MSHA specifications and other Contract Documents, the requirements of the other Contract Documents shall apply.

SECTION 101 – CLEARING AND GRUBBING**Line Item 101-01: Clearing and Grubbing (LS)****DESCRIPTION:**

Comply with Subsection 101.01 of MSHA unless noted otherwise on Project Documents. This work consists of clearing and grubbing within the limits specified in the Project Documents. Clearing includes removing and disposing of all trees, brush, shrubs, vegetation, rotten wood, rubbish, fences and structures in construction area for removal and disposal, and trimming and disposal of tree limbs that interfere with performance of the Work. Grubbing covers removal and disposal of all stumps, roots, stubs, brush and debris within Limits of Disturbances specified in the Project Documents.

Provide protection for trees designated to be protected on the Project Documents. If any tree, greater than 6 inches in diameter, is not explicitly shown to be removed in the Project Documents, Owner approval must be obtained prior to the removal of that tree.

MATERIALS:

Not applicable.

CONSTRUCTION:

Comply with Subsection 101.03 of MSHA unless noted otherwise on Contract Documents.

1. For all sites that are subject to an approved Forest Conservation Plan, the Contractor must schedule an inspection by, and obtain approval from, M-NCPPC prior to any land disturbing activities (including clearing, stripping, and grading). Notice must be provided at least 2 business days prior to the start of any such activities.
2. Erosion and sediment control measures and tree protection devices must be in place prior to mass clearing and grubbing operations.
3. Vegetation: The Contractor must mark (do not use paint) the clearing limits including any trees, shrubbery, and plants that are to be removed, as well as those that are to remain and be protected, prior to work. The Owner and other appropriate regulatory agencies must review and approve the clearing limits. The Contractor must protect the marked items from any damage. Branches and exposed roots of trees overhanging and interfering with the Work must not be cut without the Owner's prior approval. All trimming must be done under the field supervision of a tree expert furnished by the Contractor and licensed by the State of Maryland, including trimming of trees by the Contractor for any other reason. Trimming, and/or repair of cuts and scars must be properly bandaged (Referenced Standards: American National Standard Institute (ANSI), "American National Standard for Pruning.")
4. If any tree is specifically indicated to be felled on the Project Drawings, that tree shall be felled and compensated in accordance with Section 714 of MSHA.

5. If the Contractor determines that any tree (not designated to be felled on the Project Documents) needs to be felled due to exceptional size and/or requiring technical removal, due to risk to nearby infrastructure or personal property, the Contractor must submit a written request to the Owner with the recommendations of a Maryland Registered Tree Expert that tree should be felled. Upon Owner approval, that tree shall be felled and compensated in accordance with Section 714 of MSHA.
6. Grubbing:
 - a. All embedded stumps and roots must be removed to a depth of not less than 3 feet below the subgrade or slope surfaces. Depressions made below the subgrade or slope surfaces by removal of stumps must be refilled with soil or as specified on Project Documents.
 - b. In the area of a dam embankment, all embedded stumps and roots must be completely removed on the embankment or beneath the embankment subgrade. Depressions made below the subgrade or embankment surfaces by removal of stumps must be refilled with materials suitable for dam embankment construction, and compacted in accordance with USDA, Natural Resources Conservation Services, "Code MD-378" requirements, hereinafter referenced as MD-378. The embankment material must be overlaid with 6" of top soil, seeded, and mulched. The final grade must match the adjacent grades.
 - c. Disposal: Unless designated for reuse on the Contract Documents, material and debris collected as a result of the clearing and grubbing operation is the property of the Contractor and must be disposed of in accordance with the local and state regulations. No burning will be permitted within the Work Site or on County properties. Disposal of wood to the general public can be made so long as the wood piles do not interfere with the Work.
7. Fallen and storm-damaged trees: Removal of all fallen and/or storm-damaged trees, regardless of size, shall be cleared and removed per this Clearing and Grubbing Section.

MEASUREMENT AND PAYMENT:

Comply with Subsection 101.04 of MSHA unless noted otherwise on Project Documents.

Clearing and Grubbing will not be measured but will be paid for at the Project lump sum price. The payment will be full compensation for all Clearing and Grubbing including tree and brush removal, the removal and disposal of fences, selective tree trimming and scar repair, repair or replacement of damaged trees, restoration measures for damaged or destroyed protected resources, repair to other damaged properties, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

SECTION 104 – MAINTENANCE OF TRAFFIC

- Comply with MSHA Subsection 104.00 unless noted otherwise on Contract Documents.

Line Item 104-01: Maintenance of Traffic (LS)

The work involved in the construction of this Contract shall be handled in a manner which will cause the minimum interruption to pedestrian and vehicular traffic through the areas of the proposed work in accordance with Section 104, and the MUTCD, latest edition. All Maintenance of Traffic will be a subsidiary obligation of this Contract. The Contractor shall maintain lights and barricades at each location of work until such time as the concrete has cured and is ready to be used, or the hazard otherwise marked has been removed.

The Engineer may, whenever traffic conditions make it possible, permit the Contractor to close the roads or portions thereof to traffic.

Where traffic conditions make it impossible to close the road to traffic, the Contractor shall provide at least two (2) competent, courteous and neat flagmen for use at all times. These flagmen shall be equipped with safety vests. Additional flagmen shall be provided by the Contractor at intersections and other points where traffic conditions, in the opinion of the Engineer, makes flagmen necessary.

The Contractor shall provide and erect all necessary barricades, arrow boards, lights and warning signs, all in accordance with the latest edition of the "Manual on Uniform Traffic Control Devices."

On streets and roads where there is on-street parking, the Contractor shall post notices forty eight (48) hours in advance that the streets are to be surfaced or that the concrete will be replaced and parking will be prohibited. The signs, to serve as advance notices, will be furnished by the Engineer at no cost to the Contractor. Removal of vehicles in the way of the Contractor's work operation will be the responsibility of the Contractor.

On arterial, collector, or other roads as directed by the Engineer, the Contractor shall suspend operations during the morning rush hours of 6:00 AM to 9:00 AM, and the evening rush hours of 3:00 PM to 6:30 PM.

Except for the bid items specified and provided for elsewhere in this proposal, the cost of maintaining traffic, as noted above, shall be considered a subsidiary obligation of the Contract for which no additional payment will be made.

DESCRIPTION:

Comply with MSHA Subsections listed above unless noted otherwise on Contract Documents. Work shall be performed in accordance with MSHA and/or PG-DPW&T requirements; whichever is applicable.

MATERIALS:

Comply with MSHA Subsections listed above unless noted otherwise on Contract Documents.

CONSTRUCTION:

Comply with MSHA Subsections listed above unless noted otherwise on Contract Documents.

MEASUREMENT AND PAYMENT:

Maintenance of Traffic will not be measured but will be paid for at the Project lump sum price.

SECTION 107 – CONSTRUCTION STAKEOUT**Line Item 107-01: Construction Stakeout (LS)****DESCRIPTION:**

Comply with Subsection 107.01 of MSHA unless noted otherwise on Contract Documents. This work consists of providing a construction layout (stakeout) performed by a licensed surveyor currently registered in the State of Maryland. Also see Article 5.6.2, Construction Stakeout, in the General Conditions of Construction Contract.

Note: In addition to the items listed below to be provided by a licensed surveyor, the Contractor must provide construction stakeout as incidental to all related construction work. The Contractor must use competent personnel and appropriate equipment for all work required to set and maintain the elevations and dimensions as specified in the Contract Documents. This stakeout must be installed to the satisfaction of all appropriate permit inspectors before any operation commences. If any discrepancies between plan and field conditions are found, the Contractor must resolve any needed field adjustments with the Owner before starting construction.

MATERIALS:

Comply with Subsection 107.02 of MSHA unless noted otherwise on Contract Documents. The surveyor must use marker materials that can be maintained by the Contractor during the course of construction.

CONSTRUCTION:

Comply with Subsection 107.03 of MSHA unless noted otherwise on Contract Documents.

The Contractor must have the licensed surveyor provide the following:

1. Project Layout: The Contractor's surveyor shall accurately locate the Work horizontally and vertically – to ensure that the Work is performed in accordance with the Contract and Project Documents.
2. Baseline Stakeout
 - a. A licensed surveyor must stakeout all construction baselines with the maximum spacing of stations (stakes, nails, crosses, etc.) of 100 feet unless closer stakeouts are specified in the Project Documents.
3. Site Stakeout
 - a. Right-of-Way and Easement Lines: Where required by the Contract Documents, the Contractor must have a surveyor define right-of-way and easement lines of the project for adjacent property owners.
 - b. The Contractor must perform a surveyed stake out of any alignment centerlines (e.g., embankments or stream) and structure locations.
4. As-built survey
 - a. An as-built survey of the completed Work shall be performed and shall include but not limited to: horizontal dimensions, grading limits, elevations, slopes, types/length/height of

restoration features, and any new pipes, structures, profiles or typical details. The as-built survey shall include a final as-built topographic survey for all grading and stream measures; a final as-built survey of all storm drain and sewer structures must also be performed for inverts and distances.

- b. See Section 121 for submission of as-built survey information with red-lined drawings.
5. Equipment and Personnel: Where a licensed surveyor is required, the surveyor must be currently registered in the State of Maryland.
6. Control Markers: The Contractor must preserve the center line and bench marks set by the surveyor. When the center line and bench marks are disturbed or destroyed, they must be replaced by the Contractor at no additional cost to the County.
7. Control Stakes: For construction baselines, the surveyor must furnish and set stakes at each station as shown on the Contract Documents or offset along one side of the project as site conditions require and per the County's approval. As applicable, each of these stakes must be marked with its offset distance from the center line along with key reference elevation(s) needed for proper construction. Maintenance of surveyor stakes and additional stakes needed for the horizontal and vertical controls necessary for the correct layout of the work must be provided by the Contractor at no additional cost to the County.
8. Utilities: When applicable, the Contractor must furnish to the utility companies or agencies working within the limits of the project, reference information related to control points, alignment and grade data. These must be furnished promptly upon request, so that the utility companies may properly locate and coordinate their work related to the project.

MEASUREMENT AND PAYMENT:

Comply with Subsection 107.04 of MSHA unless noted otherwise on Contract Documents.

All other stakeout maintenance and flagging of clearing limits, wetlands, etc., shall be incidental to, and included in this line item.

SECTION 108 – MOBILIZATION AND DEMOBILIZATION**Line Item 108-01: Mobilization and Demobilization (LS)****DESCRIPTION:**

Comply with Subsection 108.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 108.02 of MSHA unless noted otherwise on Contract Documents.

CONSTRUCTION:

Comply with Subsection 108.03 of MSHA unless noted otherwise on Contract Documents.

MEASUREMENT AND PAYMENT:

Comply with Subsection 108.04 of MSHA unless noted otherwise on Contract Documents.

SECTION 109 – CPM PROJECT SCHEDULE**Line Item 109-01: Critical Path Method Project Schedule (LS)****DESCRIPTION:**

Comply with Subsection 109.01 of MSHA unless noted otherwise on Contract Documents. Comply with Article 11 of the General Conditions of Construction Contract. In case of conflict, the General Conditions' requirements shall control.

MATERIALS:

Not applicable.

CONSTRUCTION:

Comply with Subsection 109.03 of MSHA unless noted otherwise on Contract Documents.

MEASUREMENT AND PAYMENT:

Comply with Subsection 109.04 of MSHA unless noted otherwise on Contract Documents.

SECTION 121 – REDLINED CONSTRUCTION DRAWINGS**DESCRIPTION:**

This work consists of the Contractor's maintenance and submission of a set of a full-size, redlined Construction Drawings to record any changes to the Work that have occurred during construction. The redlined drawings must be kept on-site and must be available to the Engineer and Owner throughout Project implementation. The drawings must be updated, at a minimum, for each bi-weekly construction progress meeting.

MATERIALS:

At minimum, a full-size set of Construction Drawings with legible redlined edits indicating any modifications or in-field adjustments made to the Project by the Contractor during construction. Redlined drawings must be provided to the Engineer at the time of Project Substantial Completion.

METHODS:

The Contractor shall provide redlined edits to Construction Drawings to reflect any modifications to the plans. Any proposed plan modifications must receive prior approval by the Owner before construction and subsequent redline edits. One set of redlined Construction Drawings must be maintained and kept on-site at all times. Any deviations from approved plans must be marked, in red, on the redlined Construction Drawings.

Redlined information for the project shall consist of any deviation to the approved plan including but not limited to: grading limits, elevations, slopes, types/length/height of restoration features, and any modifications to pipes, structures, profiles or typical details. Redlined Construction Drawings require a final as-built topographic survey for all grading and stream measures; a final as-built survey of all storm drain and sewer structures must also be performed for inverts and distances.

The Contractor is required to maintain current "as-built" (red-lined) Record Drawings throughout the life of the Project. At each dimension on each Record Drawing, the Contractor shall either check (✓) the design dimension as an actual dimension, or cross out the design dimension and provide the actual dimension. Marks shall be made using red pencil or pen.

Redlined drawings also include as-built planting plans required by Category 700.

At Substantial Completion of the Work, the Contractor must submit legible redlined Construction Drawings, including results of the final as-built survey, to the Engineer for approval. Any missing, erroneous, or incomplete information shall be re-surveyed within 72 hours of Engineer's request at no additional cost. Retainage shall not be released until redlined Construction Drawings, including the final survey, are approved. The costs for stakeout, survey and maintenance of redlined information shall be considered incidental to the work and no specific payments will be made.

MEASUREMENT AND PAYMENT:

Cost is incidental to other cost line items and Sections.

SECTION 122 – CONTRACTOR KEY PERSONNEL REQUIREMENTS**DESCRIPTION:**

This Section provides minimum requirements for the Contractor's key personnel on the Project – the Project Manager and Superintendent. The full requirements for the Project Manager and Superintendent shall be to provide adequate management and supervision to ensure performance of the Work in accordance with the Contract and/or Project.

SUBMITTALS:

Within ten (10) days of Notice to Proceed, the Contractor must submit resumes of its Project Manager and Superintendent to the Owner and Engineering Consultant for approval in accordance with Subsections 5.4.2 and 9.1.2.4 of the General Conditions of Construction Contract. The resumes must be current and must reflect experience relevant to the Work.

REQUIREMENTS:

The Project Manager:

- Is an experienced and knowledgeable person designated as such by the Contractor, and approved by the Owner, having authority to act on behalf of the Contractor with respect to all aspects of the Project and to whom the Superintendent reports;
- Must attend all bi-weekly progress meetings at the site;
- Must attend other meetings scheduled by the Owner or Engineering Consultant needed to progress the work;
- Must submit the Contractor's Requests for Substantial and Final Completion in accordance with Article 14 of the General Conditions of Construction Contract;
- Must be fluent in written and spoken English;
- Must respond, on behalf of the Contractor, to all Project correspondence from the Owner and/or Engineering Consultant;
- Must coordinate with the Superintendent regularly in order to adequately progressing the Work;
- Must coordinate the Contractor's approval, record keeping, and timely processing of Shop Drawings, Product Data, Samples, and other Submittals;
- Must submit Project Schedules on behalf of the Contractor;
- Must approve Requisitions for Payments on behalf of the Contractor, prior to submittal; and
- Must process Change Proposals and Change Documents in an accurate and timely manner.

The Superintendent:

- Is an experienced and knowledgeable person designated as such by the Contractor, and approved by the Owner, who serves as the Contractor's representative at the Site with overall responsibility for direction, execution and quality of the Work (including any Subcontractor's, Sub-subcontractor's or Supplier's work) and, unless otherwise designated by the Contractor, for the protection of persons and property at and adjacent to the Site and compliance with all applicable Laws and Regulations;
- Must be in attendance and performing his/her duties at the Site at all times during the performance of the Work or any other operations by the Contractor (including any operations by Subcontractors, Sub-subcontractors or Suppliers) until issuance of the Certificate of Substantial

Completion and for such additional time thereafter as necessary for completion of Punch List work.

- Unless approved otherwise by the Owner, must serve as the Safety Officer and must have completed, as a minimum, the OSHA 30-hour Construction Training program;
- As Safety officer, must maintain a full-time presence on the Site and must: ensure conformance to OSHA and MOSH requirements, facilitate the prevention of accidents, and must maintain safety programs, precautions and procedures;
- Must have a Certificate of Attendance at a Maryland Department of the Environment approved training program for the control of sediment and erosion. The Owner may request proof of this Certification at any time;
- Must oversee the work of all Subcontractors, Sub-subcontractors and Suppliers at the Site;
- Must oversee the quality of all installed work to ensure that it is in compliance with the Project Documents and approved Shop Drawings; this includes but is not limited to: approving material tickets for material delivered to the site, ensuring that testing and inspections occurs when required, and reviewing quality of installed work;
- Must attend all bi-weekly progress meetings at the Site;
- Must attend all Pre-Construction meetings;
- Must provide full Site access and assistance to agents of regulatory agencies;
- Must coordinate with Utilities as necessary for completion of the Work;
- Must attend other meetings scheduled by the Owner or Engineering Consultant needed to progress the work;
- Must be fluent in written and spoken English;
- Must maintain Daily Records of Work performed by the Contractor at the Site, on a form approved by the Owner, and submit these Daily reports regularly to the Owner (each week or more frequently);
- Must perform all Work measurements and related activities including bookkeeping, and coordinate same with the Owner's representative, to ensure true and accurate quantities for billing purposes;
- Must maintain current copies of all Project Documents at the Site;
- Must maintain approved copies of all Shop Drawings, Product Data, Samples, and other Submittals at the Site; and
- Must maintain redlined drawings in accordance with Section 121.

MEASUREMENT AND PAYMENT:

Cost is incidental to other cost line items and Sections.

CATEGORY 200 – GRADING (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Contract Documents. In case of conflict between MSHA specifications and other Contract Documents, the requirements of the other Contract Documents shall apply.

General Description: Work consists of all labor, materials, equipment, dewatering, sheeting and shoring, and services necessary for and incidental to the execution and completion of Grading (Earthwork), as indicated on the Contract Documents and specified herein. The extent of excavation, filling, and grading is shown in the Contract Documents. Preparation of subgrade for slabs and pavements is part of this Work. Backfilling required to establish proposed grade around facilities such as structures, curbs, pavements etc. is included as part of this Work.

All borrow sites and off-site disposal sites utilized by the Contractor to perform work under this Contract must have all necessary State and County permits. The Contractor must identify these sites and provide a copy of appropriate permit(s) to the Owner prior to starting work.

Note: Excavation and backfilling of native material incidental to the installation of in-stream structures and concrete structures should be included as incidental to the Unit Costs for those items provided in these specifications.

Existing Utilities:

1. Notify "Miss Utility" a minimum of 48 hours prior to performing earthwork by calling 1-800-257-7777. Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protection during earthwork operations. The Contractor must repair any Contractor damage to utilities shown on the Drawings or identified in the field. All utility work must be done in accordance with specific utility requirements including the use of utility-approved contractors and/or inspectors as appropriate; all costs for utility requirements shall be borne by the Contractor.
2. Should piping or other utilities (not shown on the Drawings) be encountered during excavation, stop work in that area and consult the Owner immediately for direction. Cooperate with the County and utility companies in keeping respective services and facilities in operation. Repair any Contractor-damaged utilities to satisfaction of utility company.
3. Do not interrupt existing utilities serving occupied facilities, except when permitted in writing by the Owner, and only after acceptable temporary utility services have been provided.

General Execution Requirements:

1. Use of Explosives: The use of explosives is prohibited unless authorized in writing by the Owner.
2. Protection:
 - a. Safety: Provide protective measures necessary for the safety of the workers, public, and adjacent property. Prevent cave-ins, collapse of walls, structures and slopes, both on and adjacent to the site.
 - b. Standards: Comply with regulations of local authorities having jurisdiction, including all applicable OSHA and MOSH requirements.

- c. Repair: Remove damaged materials and replace with new materials (as required by the Contract Documents) where such materials are affected by settlement or other damage caused by improper earthwork.

SECTION 203 – BORROW (FILL)

Line Item 203-01: Earth Fill (Contingency) (LS)

DESCRIPTION:

Comply with Subsection 203.01 of MSHA unless noted otherwise on Contract Documents.

The work consists of the provision and placement of earth fill material. Fill is material, described below, placed above an existing or interim grade required by the Contract Documents. Backfill directly adjacent to in-stream restoration structures are incidental to those items.

MATERIALS:

Comply with Subsection 203.02 of MSHA unless noted otherwise on Contract Documents.

Fill material must conform to MSHA Section 916. Streambed material must consist of the coarser segment of streambed sands and gravels as identified in the field by the Owner. The Contractor must provide the proper care of excavated material including protection against contamination, moisture and other undesirable effects.

CONSTRUCTION:

Comply with Subsection 203.03 of MSHA unless noted otherwise on Contract Documents.

Placement must be in accordance with MSHA Section 204 for embankment and subgrade fills, and MSHA Section 210.03 for tamped fills. Fill materials must be placed in maximum lifts of 8" around structures and 12" for embankment and other fills unless specified otherwise in the Contract Documents. Compaction of fill materials must be to 95% of the laboratory density as determined by AASHTO method T-99 (Standard Proctor) unless specified otherwise in the Contract Documents.

Backfill adjacent to pipes and structures associated with pond embankments must be of the type and quality conforming to that for adjoining fill. The fill must be placed in horizontal layers not to exceed 4 inches in thickness and compacted by hand tampers. The fill material must fill completely all voids under and adjacent to pipes and structures. Equipment must not be driven over any part of concrete structure or pipe unless there is compacted fill of 24 inches or more over the structure or pipe.

Test Report Submittals:

Where the Contract Documents specify a subgrade to an embankment, pavement or structure, submit two copies of the following reports directly to the Engineering Consultant from the testing service, with a single copy to the Owner. Reports must be submitted at least every week.

1. Verification of each footing subgrade.
2. Field density test reports.
3. One optimum moisture-maximum density curve for each type of soil encountered.

4. Report of actual unconfined compressive strength and/or results of bearing tests of each stratum tested.

Minimum Requirements:

1. Cohesionless materials must be classified in accordance with AASHTO guidelines as either A-3 (sand) or A-2 (sand and fines), and the minimum dry unit weight must not be less than 110 PCF maximum dry density as determined by ASTM D-698 or ASTM D-4253.
2. Cohesive materials must be classified in accordance with AASHTO guidelines as either A-4 (silt), A-5 (silt), A-6 (clay) or A-7 (clay). The minimum dry unit weight must not be less than 105 PCF maximum dry density as determined by ASTM D-698.
3. Backfill and fill materials: Satisfactory soil materials approved by the Owner and free of rock or gravel larger than 2" in any dimension, debris, waste, frozen materials, organic and other deleterious matter.
4. Fills and Backfills:

Unpaved areas: Areas on which fill is to be placed must be stripped of all topsoil and then scarified prior to placement of fill. Fill material must be placed in 8" (maximum thickness before compaction) layers to be continuous and horizontal over the entire length of fill. Each layer of fill (cohesive soils) must be compacted by a power roller approved by the Owner.

For structural compaction as required by the Contract Documents, compaction must be carried out at optimum moisture content to a dry density of 95% of the maximum density (Standard Proctor density per ASTM D 698 and AASHTO method T-99). The moisture content of the compacted embankment layers must be as specified elsewhere.

For vegetative compaction as required by the Contract Documents, compaction must be carried out at a less than optimum moisture content (e.g., at a water content of less than 13% on a soil having an optimum content of 15%) to a dry density of between 80% and 85% of the maximum density (Standard Proctor density per ASTM D 698).

In the event the fill is rocky, same must be used up to 9" below elevation of proposed sub-grade. The remaining fill must be suitable earth fill, free from stones that will be retained on a sieve with 2" square openings, and compacted as specified above.

- a. Appropriate proof-rolling and compaction equipment must meet the requirements as per ASTM. Soft spots identified by the Owner during proof-rolling must be undercut and backfilled. Payment for undercutting and backfilling to eliminate soft spots must be made in accordance with the Contract provisions affecting the work.
- b. Paved surfaces and slab backfill: Compact after proof-rolling, each layer of backfill or fill materials to 95% maximum dry density.
- c. Footings and Foundations: When permitted to be placed by the Owner, select fill under footings and foundations must be compacted to not less than 95% maximum density.
- d. Walkways: Compact top 6" of sub-grade and each layer of backfill or fill material at 95% maximum density for cohesionless soil material.

- e. Pavements: Compact top 12" of sub-grade and each layer of backfill or fill material at 95% maximum density for cohesionless and cohesive soil material.
 - f. Moisture Control: The soils used in fill and backfill must be moistened or aerated to within 2% of the optimum at no additional cost to the Owner. Where the soil layer is too dry, the Contractor must apply water uniformly using Owner-approved equipment to increase the moisture content to within 2% of the optimum. Where the soil layer is too wet, the Contractor must dry the soils by plowing or discing to aerate the soil and reduce the moisture content to within 2% of the optimum.
5. Prohibited Backfill: Soils classified as A-6 or A-7 (per AASHTO classification) or CL or CH (per ASTM classification) must not be used under pavements, slabs, footing/foundations or walkways due to expansive nature of the soils.

MEASUREMENT AND PAYMENT:

Comply with Subsection 203.04 of MSHA unless noted otherwise on Contract Documents.

Payment will be at the unit shown on the Schedule of Unit Prices for all borrow materials. This will be full payment for providing fill material, hauling/delivery, labor, tools, equipment, compaction, geotechnical testing, and incidentals necessary to complete the work.

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

Line Item 206-01: Removal of Existing Curb and Gutter; any type (LF)

Line Item 206-02: Removal of Existing Concrete Sidewalk (CY)

Line Item 206-03: Removal of Existing Asphalt Pavement, Full Depth (CY)

Line Item 206-04: Removal of Existing Concrete Pavement (CY)

DESCRIPTION:

Comply with Subsection 206.01 of MSHA unless noted otherwise on Contract Documents.

Materials must be removed down to subgrade or bedding. Material and debris collected as a result of the removal and disposal operation become the property of the Contractor and must be disposed of in accordance with local and state regulations.

MATERIALS:

Comply with Subsection 206.02 of MSHA unless noted otherwise on Contract Documents.

Any saws shall be specifically designed to perform this type of work.

CONSTRUCTION:

Comply with Subsection 206.03 of MSHA unless noted otherwise on Contract Documents.

The Contractor must submit a report to the Owner any time waste materials resulting from repair or maintenance of a storm water facility have been disposed of off-site. The report must be submitted within 24 hours after disposing the materials, and include the following information along with a copy of the receipt from the disposal facility where the materials are deposited:

1. Date the material was removed;
2. Name, address, and phone number of the person transporting the materials;
3. Types of structures and location from which the materials were removed;
4. Amount and types of waste materials removed;
5. Location of the facility to which the materials were delivered for disposal.

MEASUREMENT AND PAYMENT:

Comply with Subsections 206.04 and 206.04.02 of MSHA unless noted otherwise on Contract Documents.

All required saw cutting is considered incidental to this line item.

SECTION 208 – SUBGRADE PREPARATION**DESCRIPTION:**

Comply with Subsection 208.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 208.02 of MSHA unless noted otherwise on Contract Documents.

CONSTRUCTION:

Comply with Subsection 208.03 of MSHA unless noted otherwise on Contract Documents.

MEASUREMENT AND PAYMENT:

Cost is incidental to other cost line items.

CATEGORY 300 – DRAINAGE (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Contract Documents. In case of conflict between MSHA specifications and other Contract Documents, the requirements of the other Contract Documents shall apply.

SECTION 306 – UNDERDRAINS, SUBGRADE DRAINS, AND SPRING CONTROL

Line Item 306-01: 6" Solid PVC Schedule 40 (LF)

Line Item 306-02: 4" Perforated PVC Schedule 40 Pipe (LF)

Line Item 306-03: 4" Solid Schedule 40 Pipe (LF)

Line Item 306-04: Miscellaneous Polyvinyl Chloride (P.V.C.) Fittings (LS)

Line Item 306-05: Trench Drain System – Materials & Installation - (LF)

DESCRIPTION:

Comply with Subsection 306.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 306.02 of MSHA unless noted otherwise on Contract Documents. Polyvinyl Chloride (PVC) plastic pipe, drainpipe, and perforated underdrain must meet the requirements of MSHA Section 905, material specification M278 or M278 (a).

PVC plastic pipe to be used as sanitary sewer pipe must be minimum Schedule 40 solid and must meet the applicable requirements of WSSC Standard Specifications Section 02530.

Unless noted otherwise, the perforated pipes used for underdrains or observation wells must have 3/8" inch diameter perforations spaced at 4 inches on center every 90 degrees around the pipe.

For slotted pipe used for underdrains or observation wells, the slot width must be 1/8 inch, slot length 1.9 inches, 4 slots per row, and 4 slots per linear foot.

Observation well caps must be water tight screw type lid. The pipe must have a plastic collar with ribs to prevent rotation when removing cap. The screw top lid must be a "Panella" type (or Owner-approved equal) as per the detail provided on [the Project drawings](#).

CONSTRUCTION:

Comply with Subsection 306.03 of MSHA unless noted otherwise on Contract Documents.

Stormdrain/underdrain installation must meet the requirements of MSHA Section 303. Sanitary Sewer installation of sewer pipe must meet the requirements of WSSC Standard Specifications Section 02530. All backfill within the public right-of-way, in dam embankments, near structures and in other critical areas identified on the Drawings must be compacted to 95% of the maximum density as determined by AASHTO T-99.

MEASUREMENT AND PAYMENT:

Comply with Subsection 306.04 of MSHA unless noted otherwise on Contract Documents.

Delete MSHA subsection 306-04-04. All fitting Tees, elbows, etc. will be paid under the Miscellaneous Polyvinyl Chloride (P.V.C.) Fittings line item.

Trench drain layout and subgrade preparation, including excavation if required, will be incidental to the trench drain unit price.

SECTION 308 – EROSION AND SEDIMENT CONTROL**Line Item 308-01: Overall Sediment Control (LS)****GENERAL DESCRIPTION:**

This Work consists of the provision and installation of all Sediment Control Devices as indicated in the Contract Documents. Control Devices must comply with the latest version of the Maryland Department of the Environment (MDE) “2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control” and “Maryland’s Guidelines to Waterway Construction” and all Prince George’s County Department of Permitting, Inspections and Enforcement (DPIE) standards. **If case of any conflict between standards, the Prince George’s DPIE standards control.**

Work includes measures to prevent erosion and run-off of earth and silt, methods to prevent the transport of sediment off-site by construction vehicles, dust control, and contact and coordination with DPIE Stormwater Management/Sediment Control Inspection staff and any other involved regulatory agencies throughout the project.

The Contractor shall assume all Erosion and Sediment Control obligations and responsibilities placed on the Owner (Cottage City) per the approved Erosion and Sediment Documents. The Contractor shall perform all layout, construction, scheduling, bookkeeping, notification, review and maintenance assigned to the Owner as the Erosion and Sediment Control permittee.

DESCRIPTION:

Comply with Subsection 308.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 308.02 of MSHA unless noted otherwise on Contract Documents.

All materials must be in accordance to MDE specifications for Soil Erosion and Sediment Control, MDE Construction Guidelines, and County (PGDPIE) standards unless otherwise specified in the Contract Documents.

Geotextile fabrics must conform to Section H of the MDE “2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control”.

Straw mats (bales) with any type of plastic netting will not be accepted. The Straw/Single Jute Mat must be East Coast Erosion Blanket ECS-1B, Straw Biodegradable Single Net Blanket or County-approved equal and must provide biodegradable ground cover for seeding purposes with an estimated field life of less than 12 months.

Any Soil Reinforcement Matting must be biodegradable and must be installed per manufacturer’s specifications.

Sand Bags: Sand bags must be made of UV resistant material, resistant to tear and puncture and woven tightly to prevent leakage of the sand. The sand bag must be at least 14" x 26" in size and hold a minimum of 50 pounds of sand.

Temporary HDPE pipe shall be flexible corrugated pipe.

The dewatering bag must be made of non-woven geotextile with a minimum surface area of 225 square feet per side. All structural seams must be sewn with double stitch using a double needle machine with high strength thread. The seam strength must withstand 100 lb/in using ASTM D-4884 test method. The dewatering bag must have a nozzle large enough to accommodate a 4 inch discharge hose. The geotextile fabric must be a nonwoven fabric with the following properties:

Weight:	ASTM D-3776	12oz/yd
Grab Tensile	ASTM D-4632	300 lbs
Puncture	ASTM D-4833	180 lbs
Flow Rate	ASTM D-4491	75 gal/min/sq ft
Permittivity	ASTM D-4491	1/1 sec
UV Resistance	ASTM D-4355	70%
AOS	ASTM D-4751	100

CONSTRUCTION:

Comply with Subsection 308.03 of MSHA unless noted otherwise on Contract Documents. Exclude sections 308.03.06, and 308.03.07.

1. The Contractor must employ, and identify to the Owner, a responsible person involved in the Project who has a Certificate of Attendance at a Maryland Department of the Environment approved training program for the control of sediment and erosion as the Superintendent/Supervisor. At any time, the Owner may request proof of this Certification.
2. Upon issuance of the Notice to Proceed, the Contractor shall layout the Limits of Disturbance and mark utilities via Miss Utility interaction. After these activities are completed, the Contractor shall schedule a pre-construction meeting with: Owner, Prince George's DPIE Sediment Control Inspection staff, the Contractor, M-NCPPC staff, MDE staff, and other appropriate permit inspection staff. The Contractor must not access the Project Site for any reason other than visual observation and surveying prior to this meeting; no land disturbance activities are permitted prior to this pre-construction meeting.
3. The phone number for Prince George's DPIE Sediment Control Inspection requests is (301) 883-3820. In addition, the DPIE Sediment Control Inspectors may be reached at their individual phones, or a message may be left on their "voice mailbox".
4. The Contractor will be provided with a copy of the Sediment Control Permit and all other required permits at the pre-construction meeting (or earlier), and must keep a copy of each permit on the Project Site at all times.

5. Installation of sediment control devices must begin only after the DPIE Sediment Control Inspector has granted approval, and must include any modifications to the approved Sediment Control Plan that the DPIE Sediment Control Inspector has required. The DPIE Sediment Control Inspector has the authority to make field modifications to the approved Sediment Control Plan. The Contractor must notify, and receive approval from, the Engineer before making any changes as directed by the Inspector. Upon approval by the Engineer, revised work shall be provided as required. The contractor is eligible for compensation for revised work in accordance with the Contract Documents.
6. All Sediment Control features must be constructed and installed in accordance with the Contract Documents or, if not indicated in the Contract Documents, then in accordance with the appropriate detail as specified in the MDE Specifications for Soil Erosion and Sediment Control and MDE Construction Guidelines. All proprietary sediment control devices must be installed per manufacturer's instructions.
7. All notifications for inspection and coordination with the DPIE Sediment Control Inspector are the responsibility of the Contractor.
8. Events requiring Sediment Control inspection and approval include, but may not be limited to: start of land disturbance activities, compliance with warning notices, lifting of stop work orders for violations, start of temporary or permanent stabilization, removal of Sediment Control facilities, and any other pertinent events noted in the Contract Documents.
9. Grading must be accomplished such that existing surface drainage is not impaired, a potential hazard is not created, hazardous erosion will not occur, or sediment will not collect in existing drainage systems.
10. All sediment control devices must be maintained, inspected and repaired as necessary at the end of each working day and after each rain event. If sediment leaves the construction area, it must be removed immediately and the area must be cleaned to the satisfaction of the County. Inspections must be documented on the MDE Construction Activity Inspection Form as required by permit. Completed inspection forms are required to be kept at the site in a notebook should an MDE representative wish to review them. Temporary stabilization must be provided.

The Contractor shall assume any Owner requirements identified on State or County Erosion and Sediment Control permit for the project. The Contractor must complete and comply with any formal transfer of permit responsibilities including completion and compliance with the MDE NPDES Transfer Form for individual and general permits, which must be filed with MDE by the Contractor. Once the NPDES permit conditions have been met, and the permit is ready to be closed, the MDE Notice of Termination must be filed for individual and general permits.

11. Removal of sediment control devices:

Once the Project has been completed, and all disturbed areas have been restored (seeded, sodded, paved, constructed, etc.) as called for in the Contract Documents and there is a good stand of grass in the seeded/sodded areas, the Contractor must contact the DPIE Sediment Control Inspector (with concurrent notification to the Owner and Engineer) for approval to remove the sediment control devices. The sediment control

devices must be removed within 14 days from the date of the DPIE Sediment Control Inspector's approval.

12. As permitted, after removal of all sediment control devices, the Contractor must re-grade affected areas to proposed designed grades and seed/or sod them as required for stabilization. **The Work is not considered complete until all temporary sediment control devices have been removed and all regrading and seeding/sodding is completed and the DPIE Sediment Control Inspector has released the Sediment Control permit.**
13. Dust Control: The Contractor must provide water as necessary to reduce airborne dust when directed by the Owner, at no additional cost to the County.
14. Dewatering: Prevent surface water and subsurface or groundwater from flowing into excavations and from flooding Project Site and surrounding area. Do not allow water to accumulate in excavations or other areas of the Site. Remove water to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to stability of sub-grades and foundations. Provide and maintain pumps, sumps, suction and discharge lines, and other dewatering system components necessary to convey water from excavations. Convey water removed from excavations and rainwater to collecting or run-off structures. Provide and maintain temporary drainage ditches and other diversions outside excavations limits for each structure. Do not use trench excavations as temporary drainage ditches. Dewatering activities must be performed at no additional cost to the County unless a separate pay line item has been provided. Any repair to foundations which results from deficient dewatering is the sole responsibility and cost of the Contractor.

Dewatering (Filter) bags: Water encountered within the Site must be pumped through a dewatering (filter) bag before it is allowed to drain away from the Site. Dewatering setup must be made in accordance with the Contract Documents; if not shown; the filter bag must be placed so that the incoming water flowing into the bag will pass through the system and then off site without creating erosion. The neck of the system must be tied off tightly to stop water from flowing out of the system without passing through the walls of the bag. The filter bag must be placed over a wood chip (mulch) bed to allow the water to flow in all directions. The filter bag must be placed on level or gently sloping grade and secured in place by wooden stakes spaced at 5 feet on center.

Contractor shall provide adequate pump(s) for all dewatering. All dewatering installations must be inspected by appropriate permit inspectors and the Owner prior to being placed into operation.

Install standard Stabilized Construction Entrances (SCEs) in accordance with Contract Documents and MSHA 308 and applicable State and County guidelines. The price must include off-site removal of all related materials upon project completion.

Temporary curb inlet protection must be installed around all storm drain curb inlets to control sedimentation into the storm drainage system.

Maintenance of Stream Flow (Stream Diversion):

Any stream diversion (maintenance of stream flow) must be set up and operated in accordance with the Project Documents and MDE Construction Guidelines Section 1.2 unless otherwise directed by the Owner. The Contractor must notify all applicable inspectors as well as Cottage City 48 hours before initiating pump-around. If required, Cottage City will advise on fish removal requirements. All pumps must be maintained in proper working condition. All stream diversion outfalls must utilize a velocity reduction device to prevent erosion. Pipes must be checked regularly for leaks and repaired as necessary. Any piping that crosses paved trails must have a wooden ramp at a slope of 1:20 (vertical: horizontal) for pedestrian and bike passage. A warning sign must be placed in advance of the pipe crossing. Pump inlets must have a screen (mesh size <1 inch) over opening. If pump operations occur between 5pm and 7am, the Contractor must have an employee on site at all times to monitor pumping operations. Pumps utilized in the stream diversion must be in compliance with the County Noise Ordinance and if necessary the Contractor must construct devices to muffle pump noise at no additional compensation.

The Contractor must properly anchor and support all diversion piping to prevent failure. If the event of any failure, the Contractor must, at its sole expense, immediately repair the diversion piping to properly convey the diversion water.

MEASUREMENT AND PAYMENT:

Comply with Subsection 308.04 of MSHA unless noted otherwise on Contract Documents.

The maintenance, repair, removal and resetting, and final removal of erosion and sediment control measures will not be measured, but the cost will be incidental to the Contract price to construct the device. Each sediment control will be paid for once. Any rework, repair or re-installation of sediment control devices shall be performed at the Contractor's expense.

Sand bags will be paid per each based as size as specified above. Smaller bags will be prorated by size or weight for payment.

Geotextile material will not be paid separately but shall be incidental to, and included in, other line item costs.

Orange Safety Fencing will not be paid separately but shall be incidental to, and included in, other line item costs.

CATEGORY 400 – STRUCTURES (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Contract Documents. In case of conflict between MSHA specifications and other Contract Documents, the requirements of the other Contract Documents shall apply.

SECTION 421 – REINFORCEMENT STEEL

DESCRIPTION:

Comply with Subsection 421.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 421.02 of MSHA unless noted otherwise on Contract Documents.

Required Submittals

1. Shop Drawings:
 - a. Detail reinforcing in accordance with ACI Detailing Manual.
 - b. Bar lists showing the individual weight of each bar, total weight of each bar size and total weight of bars on list. Base calculated weights on theoretical unit weights show in ASTM A615, Table 1.

CONSTRUCTION:

Comply with Subsection 421.03 of MSHA unless noted otherwise on Contract Documents.

Reinforcement Product Delivery, Storage, and Handling:

1. Ship reinforcing steel in bundles limited to one size and length.
2. Tag each bundle at mill with waterproof tag showing name of mill, heat number, grade and size of bars and identifying number.
3. Protect reinforcing steel and wire fabric from damage; foreign matter such as dirt, oil and grease; and rust causing conditions.

Reinforcement Materials Installation:

1. All reinforcement steel must be new billet steel to conform to ASTM A615 Grade 60, and MSHA Standard Specifications Section 421.02 to 421.03 except as modified herein.
2. Concrete Protection for Reinforcement: Reinforcement must be protected by the thickness of the concrete indicated in the Contract Documents. Where not otherwise shown, the thickness of concrete over the reinforcement must be as follows:

- a. Where concrete is deposited against the ground without the use of forms, the Contractor must provide not less than 3 inch of concrete cover.
- b. Where concrete is exposed to weather or ground but placed in forms, the Contractor must provide 2 inch of concrete cover over all reinforcing steel.
3. Inspection: Reinforcing must be inspected in the forms and approved by the Owner before any concrete is placed. Water stops are to be installed as specified, and inspected prior to concrete placement.
4. Steel Reinforcing: All steel reinforcing must be new billet steel to confirm to ASTM A 615 Grade 60.
5. Concrete Joints: Where required, concrete joints, including water stops, must be installed to ensure watertight structure. Submittals indicating specific type and size of the water stops and accommodations for nearby reinforcement must be approved by the Owner prior to installation.

Allowable Tolerances: Cut and bend reinforcing steel to conform to dimensions shown within the following tolerances:

1. Sheared length: Plus or minus one inch
2. All other bends: Plus or minus one inch

MEASUREMENT AND PAYMENT:

Cost of reinforcing steel base shall be incidental to other line items.

CATEGORY 500 – PAVING (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Contract Documents. In case of conflict between MSHA specifications and other Contract Documents, the requirements of the other Contract Documents shall apply.

All work performed in the County Right of Way must be coordinated with, and inspected by, the Prince George's DPIE Inspector. Any defective work rejected by the Right-of-Way Inspector must be re-done at no additional cost to the County.

Unless otherwise described in each Line Item, in general, work performed under this Division is subject to inspection and acceptance by the Owner prior to payment. Any work not accepted must be re-done at no additional cost to the County.

SECTION 501 – AGGREGATE BASE COURSES**DESCRIPTION:**

Comply with Subsection 501.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 501.02 of MSHA unless noted otherwise on Contract Documents.

CONSTRUCTION:

Comply with Subsection 501.03 of MSHA unless noted otherwise on Contract Documents.

MEASUREMENT AND PAYMENT:

Comply with Subsection 501.04 of MSHA unless noted otherwise on Contract Documents.

SECTION 504 – HOT MIX ASPHALT PAVEMENT

Line Item 504-01: Hot Mix Asphalt Superpave 9.5MM for Surface, PG 64-22, 1.5 inch in depth, (SY)

Line Item 504-02: Hot Mix Asphalt Superpave 19.0MM for Surface, PG 64-22, 3 inch of depth (SY)

Line Item 504-04: Hot Mix Asphalt Superpave 9.5MM for Base; PG 70-22, 2 inch of depth (SY)

DESCRIPTION:

Refer to Sections 504.01 of the MSHA Standards and Specifications and Special Provisions Insert provided herein.

MATERIALS:

Refer to Section 504.02 of the MSHA Standards and Specifications and Special Provisions Insert provided herein. Contrary to Asphalt Content Percentage shown in Table 904A

CONSTRUCTION:

Refer to Section 504.03 of the MSHA Standards and Specifications, Special Provisions Insert provided herein, and its amendment found in the Chapter II of Prince George's County Department of Public Works and Transportation's "Specifications and Standards for Roadways and Bridges". The work involves placement of Hot Mix Asphalt pavement as per the standard details and according to the quality control plan submitted by the contractor and approved by the Engineer.

The Contractor must protect the pavement against damage from all causes. Any part of the pavement that is damaged during construction must be repaired or replaced by, and at the expense of, the Contractor.

HMA pavement must be installed using the methods and equipment as specified in MSHA Section 504.03.01 unless noted otherwise.

1. Base Course

- a. HMA Base Mix must be spread on the stone sub-base as specified, by mechanical self-powered paver, true to line, grade, and cross-section. Screeding must follow to required level. Immediately after the screeding and before compaction, the surface must be checked, any irregularities adjusted, all accumulation from the screed removed by rake, and all flat spots replaced with satisfactory material.
- b. Compaction must be effected, while the mixture is still hot, by 10-ton tandem power roller. Rolling must start at the extreme lower elevation and proceed toward the higher elevation. Each successive trip of the roller must overlap $\frac{1}{2}$ the side of the rear wheel of the roller. The surface must then be subjected to rolling at right angles to the first rolling direction. Rolling must be continued until all roller marks are eliminated, and 94% of the maximum theoretical density has been achieved.
- c. Any irregularities in the surface in excess of $\frac{1}{4}$ inch from the design grade when checked against the benchmark must be corrected. Should any irregularities remain after final compaction, the full depth of bituminous material will be removed and new material laid and

compacted to form a true and even surface by the Contractor at no additional cost to the County.

2. Surface Course

- a. HMA Surface Mix must be spread on the asphalt concrete base course by mechanical pavers after making sure that: a) the base course surface is clean; b) the base course surface is dry; c) the temperature is above 40 degrees F; d) the base course surface meets the stipulated tolerance and thickness; and e) the base course was tacked before applying surface material.
- b. After spreading and screeding, compaction must commence with a steel wheel tandem roller weighing between 2 and 6 tons. The roller faces must be kept continually wet while rolling. The roller must not be operated at a speed exceeding 3 miles per hour. Rolling must be done in two directions, one at right angles to the other, until all roller marks are removed.
- c. The following tolerances must be met by the surface course:
 - i. The surface must not vary more than 1/8 inch from a planar surface when measure with a 10 foot straight in any direction.
 - ii. The surface must not vary more than 1/4 inch from the proposed finish elevations at any location when checked against the benchmark.
 - iii. The finished slope must not vary more than 0.25% from the proposed slope in any direction.
- d. HMA Compaction: Compaction must be carried out in accordance with MSHA Standards and Specifications (2008), Section 504.03.06.
- e. Joints: Must be in accordance with MSHA Standard Specifications Section 504.03.07.
- f. Sampling and Testing: must be in accordance with MSHA Standard Specifications Section 504.03.10.

MEASUREMENT AND PAYMENT:

Refer to Section 504.04 of the MSHA Standards and Specifications, Special Provisions Insert provided herein and its amendment in Prince George's County Technical Specifications. SUPERPAVE Hot Mix Asphalt Pavement will be measured and paid for at the Contract unit price per ton in place and accepted. The payment will be full compensation for furnishing, mixing, hauling, placing all materials, tack coat, finishing and compacting, control strip, setting of lines and grades where specified or as directed, pavement profiling (arterials and major collector roads) as required, and for all materials, labor, supervision, equipment, tools, maintenance of traffic and incidentals necessary to complete the work. Any variation in the price of asphalt during the life of the project will be adjusted using the MSHA price adjustment formula. Adjustment of any existing visible manholes, valve boxes, inlets or other utility structures will be incidental to this pay item. Any compaction incentive is not allowed in any of the asphalt related bid item.

THE FOLLOWING IS SUPPLEMENTAL TO THE FOLLOWING SPECIAL PROVISIONS INSERT FOR 504- HOT MIX ASPHALT PAVEMENT BELOW:

The contractor shall be responsible for posting streets 48-hours prior to the beginning of work and the repositioning and restoring all motor vehicles obstructing the work area. The posting of streets prior to work, the repositioning and restoring all motor vehicles obstructing the work area shall not be measured or compensated for under any stipulated pay item, but the cost will be incidental to the Hot Mix Asphalt item.

Prince George's County DPW&T Standards 100.07



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum
1 of 12

452 **DELETE:** SECTION 504 — HOT MIX ASPHALT PAVEMENT in its entirety.

INSERT: The following.

SECTION 504 — HOT MIX ASPHALT PAVEMENT

504.01 DESCRIPTION. This work shall consist of constructing hot mix asphalt (HMA) pavement as specified in the Contract Documents.

504.02 MATERIALS.

Performance Graded Asphalt Binders	904.02
Tack Coat	904.03
Hot Mix Asphalt Mixes	904.04
Crack Filler	911.01
Production Plant	915

504.03 CONSTRUCTION.

Quality Control Plan. At least 30 days prior to the placement of any HMA pavement, the Contractor shall submit in writing a plant Quality Control Plan to the Team Leader of the Asphalt Team and a field Quality Control Plan to the Engineer for approval. The Quality Control Plans shall contain a statistically based procedure of random sampling and shall show how the Contractor proposes to control the equipment, materials, production, and paving operations to ensure conformance with these Specifications. A master plant and field Quality Control Plan may be submitted for this prior approval. When a master plant Quality Control Plan is submitted and approved, an addendum shall be submitted for each specific Contract.

The plan shall contain:

- (a) Production plants, location of plants with respect to the project site, personnel qualifications, inspection and record keeping methods, and minimum frequencies of sampling and testing as specified in MSMT 735, Table 2.
- (b) Detail when and how corrective action will be taken for unsatisfactory construction practices and deviations from the material Specifications.
- (c) Quality Control Plan for the plant, which addresses all elements necessary for quality control.

Plan Administrator and Certified Technicians. The Quality Control Plan shall designate a Plan Administrator. The Plan Administrator shall have full authority to institute any action necessary for the successful operation of the Plan. The Plan Administrator may supervise the Quality Control Plan on more than one project if that person can be in contact with the job site within one hour after being notified of a problem.



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

2 of 12

The Quality Control Plan shall also designate a Certified Plant Control Technician, Field Control Technician, and Certified Materials Tester, if used, as specified in MSMT 731. A minimum of one certified plant technician shall be physically present at the plant during production of HMA for the Administration and shall perform the process control sampling, testing and documentation in conformance with the approved quality control plan and standards. The certified plant technician shall be physically present at the plant while material is shipped and shall perform the process control sampling, testing, and documentation in conformance with the approved quality control plan if it was not completed during the production.

A minimum of one certified field technician shall be physically present at the job site unless otherwise approved in the Contract quality control plan. The certified technician shall perform required field control testing in conformance with the approved quality control plan and standards.

The plant and field certified technicians shall perform all required sampling and testing in conformance with the approved quality control plan and standards. Any deviation from the approved quality control plan not approved by the Engineer shall be cause for immediate suspension of the production and paving operations. The Engineer's approval will be required prior to resuming production and paving operations for the Administration.

The Contractor's technician certified by the Administration, shall perform quality control, acceptance, and verification sampling and quality control testing. Quality control test results shall be submitted to the Engineer when requested. When a certified technician becomes deficient in their duties as defined in MSMT 731 and Mid-Atlantic Region Technician Certification Program policy manual, the technician's certification will be rescinded. The Contractor shall replace the deficient technician with another certified technician before resuming production and paving operations for the Administration.

Records. The Contractor shall maintain and make available to the Engineer upon request complete records of sampling, testing, actions taken to correct problems, and quality control inspection results. Copies of the reports shall be provided when requested by the Engineer.

The Contractor shall maintain linear control charts or may elect to use other types of control charts such as standard deviation, range, etc. Control charts may be maintained by production, by mix, or by mix per project. Current control charts shall be maintained in the quality control laboratory in a manner satisfactory to the Engineer. As a minimum, the control charts shall identify the mix design number, each test result, and the upper and lower Specification limits applicable to each test.

Acceptance. The Administration will provide acceptance by conducting independent acceptance sampling and testing separate from the Contractor and Producer from behind the paver. In addition, the Engineer may perform one or more of the following to aid in the acceptance decision:

- (a) Periodically observing tests performed by the producer.
- (b) Monitoring required control charts.
- (c) Directing the producer to take additional samples at any time and location.

- (d) Monitoring the Contractor's conformance with the quality control plan.
- (e) Evaluating quality control sampling and testing by an independent assurance program.



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

3 of 12

The Contractor shall protect the pavement against damage from all causes. Any part of the pavement that is damaged shall be repaired or replaced by the Contractor at no additional cost to the Administration.

504.03.01 Equipment. All equipment including the production plant and paving equipment shall be subject to approval by the Engineer. The plant shall be ready for inspection by the Engineer at least 48 hours prior to the start of construction operations.

(a) Hauling Units. Refer to 915.02(f).

(b) Pavers. The Engineer's inspection and approval of pavers will be based upon the manufacturer's specification manual (copy to be provided by the Contractor). The paver shall be a self-contained, self-propelled unit capable of spreading the mixture true to line, grade, and cross slope. The paver shall be equipped with a screed or strike off assembly that will produce a finished surface of the required smoothness and texture without tearing, shoving, or gouging the mixture. The paver shall be operated with both screed end gates in the down position. When screed extensions are used, auger extensions shall be used with a distance no greater than 18 in. from the end of the auger to the end gate. The paver shall have automatic controls for transverse slope and grade. Controls shall be capable of sensing grade from an outside reference line or ski, and sensing the transverse slope of the screed to maintain the required grade and transverse slope within plus or minus 0.1 of the required slope percentage.

Manual operation will be permitted in the construction of irregularly shaped and minor areas, or where directed by the Engineer.

Whenever a breakdown or malfunction of any automatic control occurs, the equipment may be operated manually for the remainder of the workday as directed by the Engineer.

Reference lines or other suitable markings to control the horizontal alignment shall be provided by the Contractor, subject to the approval of the Engineer.

(c) Rollers. All rollers shall be inspected by the Contractor and approved by the Engineer before use in conformity with the manufacturer's recommendations. Rollers shall be self-propelled, reversible, and steel wheeled or pneumatic tired. Rollers may be vibratory or nonvibratory, and they may be operated in the vibratory mode as long as the Engineer determines that the roller is not cracking or damaging the aggregate in the mix. Rollers shall not be used in the vibratory mode on bridge decks. Pneumatic tire rollers shall have multiple tires of equal size with smooth tread. Wheels shall be arranged to oscillate in pairs, or they may be individually sprung. Tires shall be uniformly inflated at the operating pressure approved by the Engineer. The Contractor shall furnish the Engineer a manufacturer's table showing this data. The difference in tire pressure between any two tires shall not be greater than 5 psi. The Contractor shall provide a means for checking the tire pressure on the job at all times.

504.03.02 Weather Restrictions. HMA mixtures shall only be placed on roadway surfaces when the ambient air and surface temperature is at least 40 F and rising for surface mixes, at least 32 F and rising

for base mixes, and at least 50 F and rising for polymer-modified surface mixes. The pavement surfaces shall be clean, dry, and approved by the Engineer before HMA paving begins. Placing HMA material on a frozen graded aggregate base is prohibited. When weather conditions differ from these limits, material en route from the plant to the job site may be used at the Contractor's risk.



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT**504 — HOT MIX ASPHALT PAVEMENT**

CONTRACT NO. ContNum

4 of 12

When placement of the material is stopped by the Engineer, all material en route shall be wasted at no additional cost to the Administration.

504.03.03 Foundation Preparation. Prior to placement of paving material, the foundation shall be constructed as specified in the Contract Documents and approved by the Engineer. When paving over existing pavement, all excess crack filling or patch material shall be removed and all spalls and potholes shall be cleaned, tack coated, filled with HMA, and tamped before placement of paving material. Manholes, valve boxes, inlets, and other appurtenances within the area to be paved shall be adjusted to grade as directed by the Engineer.

504.03.04 Tack Coat. Prior to application of the tack coat, the surface shall be cleaned of all loose and foreign materials. The tack coat shall be uniformly applied to the surface by full circulation spray bars that are laterally and vertically adjustable and provide triple fanning and overlapping action so that the resulting coating shall be residual asphalt applied at a rate of 0.01 to 0.05 gal/yd² as directed by the Engineer.

504.03.05 Hot Mix Asphalt Placement. Delivery of the mixture by the hauling units and placement shall be continuous. The temperature of the mixture shall be a minimum of 225 F at the time of placement. HMA shall be placed by the paver; broadcasting of loose mixture over the new surface is prohibited.

504.03.06 Compaction. Immediately following placement of the HMA, the mixture shall be compacted by rolling to an in-place density in conformance with 504.03.10. In-place compaction shall be completed before the mixture cools below 185 F as determined by a probe type surface thermometer supplied by the Contractor and approved by the Engineer. Price adjustment due to noncompliance with the required density will be as specified in 504.04.02. The probe type surface thermometer shall remain the property of the Contractor at the completion of the project.

Rolling shall consist of six separate operations in the following sequence:

- (a) Transverse joint.
- (b) Longitudinal joint.
- (c) Edges.
- (d) Initial breakdown rolling.
- (e) Second or intermediate rolling.
- (f) Finish rolling.

Steel wheel rollers shall be used for the first rolling of all joints and edges, the initial breakdown rolling, and the finish rolling.

Rollers shall start at the sides and proceed longitudinally toward the center of the pavement, except on superelevated curves the rolling shall begin at the low side and progress toward the high side. Successive trips of the roller shall overlap by at least half the width of the roller, and alternate trips shall not end at the same point. When base widening is too narrow to permit the use of conventional rollers, a power driven trench roller shall be used. When the trench must be excavated wider than the proposed width of the widening, an earth berm or shoulder shall be formed against the loose



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT**504 — HOT MIX ASPHALT PAVEMENT**

CONTRACT NO. ContNum

5 of 12

HMA as soon as it is placed. The two materials shall be rolled and compacted simultaneously. Roller marks shall not be visible after rolling operations.

After rolling is completed, no traffic of any kind will be permitted on the pavement until the pavement has cooled to less than 140 F or as directed by the Engineer.

504.03.07 Joints. Both longitudinal and transverse joints in successive courses shall be staggered so that one is not above the other. Transverse joints shall be staggered by the length of the paver. Longitudinal joints shall be staggered a minimum of 6 in. and shall be arranged so that the longitudinal joint in the top course shall be within 6 in. of the line dividing the traffic lanes.

Joints shall be constructed to provide a continuous bond between the old and new surfaces.

Joints shall be coated with tack coat as directed by the Engineer. When placing a surface course, the edge of the existing pavement shall be cut back for its full depth at transverse joints to expose a fresh surface which shall be coated with tack coat material as directed by the Engineer. Before placing the mixture against curbs, gutters, headers, manholes, etc., all contact surfaces shall be coated with tack coat.

504.03.08 Edge Drop-off. Where HMA paving is being applied to highways carrying traffic, all pavement courses exceeding 2-1/2 in. in depth shall be matched with the abutting lane or shoulder on the same working day. Where pavement courses of 2-1/2 in. or less are placed, the Contractor shall have the option of paving the abutting lane or shoulder on alternate days. The abutting lane or shoulder shall be paved regardless of the depth of pavement course prior to weekends and temporary shutdowns. When uneven pavement joints exist, the Contractor shall provide advance warning traffic control devices in conformance with the Contract Documents.

504.03.09 Tie-In. Where HMA paving is being applied to the traveled way carrying traffic, the Contractor shall construct a temporary tie-in a minimum of 4 ft in length for each 1 in. of pavement depth before traffic is allowed to cross the transverse joint.

The final tie-in shall include the removal of a transverse portion of the existing pavement to a depth so the design thickness of the final surface course is maintained. The length of the final tie-in shall be equal to the posted speed per 1 in. depth of the design thickness of the final course with a minimum length of 25 ft per 1 in. depth and a maximum length of 50 ft per 1 in. depth.

504.03.10 Sampling and Testing for Density and Mixture. Mixture sampling shall be performed before the mat is compacted. Density testing shall be performed before allowing traffic or construction equipment on the placed mat and before the placement of the next lift.

An HMA mixture compaction lot size shall equal one paving day's production per mix. A lot shall be divided into a minimum of five equal sublots. A sublot shall not be greater than 500 tons. When a paving day's production per mix is greater than 2500 tons, then each sublot size shall be 500 tons or fraction thereof.

- (a) **Compaction for Quality Control.** For compaction quality control the Contractor shall select one of the following options and indicate that selected option in their Quality Control Plan. For either option the Contractor may use a density gauge to perform additional Quality Control checks. The Contractor when using a density gauge shall perform daily validations and standard counts as recommended by the manufacturer. A log of these validations and counts shall be with the gauge at all times.



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

6 of 12

- (1) **Option A.** With this option the Contractor shall perform quality control for density of HMA mixtures by the core method. The Administration will take one random core per subplot for acceptance. The Contractor shall take one random core per subplot: this core density data shall be used in the acceptance decision based on the analysis of MSMT 733. When Contractor's core density data does not compare with the Administration's density data, only Administration's single subplot values and lot average value shall be used in the acceptance decision. The Contractor shall make quality control test data available to the Engineer no later than the beginning of the next paving day.
- (2) **Option B.** With this option the Administration will take two random cores per subplot by the core method for acceptance. No comparison will be made with the Contractor's density gauge data and only Administration's data will be used in determining subplot average densities and lot average density for the acceptance decision.
- (b) **Mixture Sampling for Quality Control.** The Contractor shall perform quality control testing for HMA mixtures. Samples shall be obtained from hauling trucks at the plant or from the mat behind the paver. Since the evaluation criteria are based on in-place measurements, it is recommended that quality control testing be completed on samples obtained from behind the paver. Acceptance testing will be performed on behind the paver samples. If quality control testing is based on truck samples taken at the HMA plant, the Contractor shall develop appropriate correlation factors acceptable by the Engineer.
- (c) **Acceptance Testing.** For acceptance testing, both density and the mixture sampling shall be completed.
- (1) **Core method.** For the core method for acceptance, the Engineer will select at random the core sampling locations (one for Option A and two for Option B) for each subplot in conformance with MSMT 459. The Contractor shall take the cores in conformance with MSMT 458 as witnessed by the Engineer. For Option A, a minimum of five cores per day's paving per mix or one per 500 tons of paving per mix, whichever yields the higher frequency of cores, shall be taken. For Option B, a minimum of 10 cores per day's paving per mix or two per 500 tons of paving per mix, whichever yields the higher frequency of cores, shall be taken. The diameter of the cores shall be 6 in. except that a 4 in. core may be used for mixes smaller than 25 mm. The Engineer will take immediate possession of the cores after taken and deliver the cores to the Laboratory for testing.

The Engineer will note any density waivers on the daily field density forms with remarks for the waivers.

The Laboratory will test core samples in conformance with MSMT 452. The specific gravity of the core samples will be expressed as a percentage of the maximum specific gravity determined for mixture for each day's placement. When more than one mixture sample is obtained per day's placement, an average of all maximum specific gravity tests for the day will be used for the determination of percent compaction of each core sample. The Laboratory will

make results of individual days paving available to the Engineer and the Contractor no later than five working days.

Option A Acceptance. For this option each HMA mixture compaction lot will be evaluated for compaction compliance (density) using the Engineer's acceptance test data and the Contractor's quality control data based on the core method. The Contractor's quality control test data for compaction for core method will be used in determining subplot



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

7 of 12

average density based on the analysis in conformance with MSMT 733 (F test and t test method). When Contractor's quality control data is used in determining average subplot density, each subplot average test data for a given lot shall be within 91.0 and 97.0 percent of maximum theoretical density with the lot average density within 92.0 to 97.0 percent of maximum theoretical density to receive 100 percent pay. When contractor's quality control data is not used in determining subplot average density based on the analysis of MSMT 733, Administration's individual subplot value will be used in determining acceptance for density. In this instance all test data for a given lot shall be within 91.0 and 97.0 percent of maximum theoretical density with the lot average density within 92.0 to 97.0 percent of maximum theoretical density to receive 100 percent pay. Pay reduction or incentive for pavement compaction lot will be in conformance with 504.04.02. The process for determining statistical outliers will be in conformance with MSMT 734.

Option B Acceptance. For this option each HMA mixture compaction lot will be evaluated for compaction compliance (density) using the Engineer's acceptance test data. Each subplot average test data for a given lot shall be within 91.0 and 97.0 percent of maximum theoretical density with the lot average density within 92.0 to 97.0 percent of maximum theoretical density to receive 100 percent pay. Pay reduction or incentive for pavement compaction lot will be in conformance with 504.04.02. The process for determining statistical outliers will be in conformance with MSMT 734.

(2) Thin Lifts. On projects when a lift thickness is less than 3/4 in., the lift shall be tested by a density gauge only and payment for this lift will be based upon the Contractor's quality control test data. The Engineer will select test location for the density gauge in conformance with MSMT 459 and witness the Contractor's testing. The Engineer will verify the Contractor's data by testing with an Administration density gauge at random locations.

(3) Mixture Sampling and Testing. An HMA mixture lot size is approximately equal to 6000 tons of a mix per project. A mix lot ends on the day when 6000 tons is reached. A mixture subplot size shall not exceed 1000 tons. A subplot size up to 200 tons can be combined with the previous 1000 ton subplot placed on the same day. A mix lot constitutes all sublots of a mix created during the production of required tonnage for a lot as defined herein. A new lot number for a mix will be given when there is a change in the approved job mix formula.

Mixture sampling shall be completed in conformance with MSMT 457, Sampling HMA Prior to Compaction. The samples shall be done randomly. The Contractor shall sample the mixture as witnessed by the Engineer. A minimum of one mixture sample per paving day per mix or one per 1000 tons of paving per mix, whichever yields a higher frequency, shall be obtained. The Engineer will take possession of the mixture sample after taken and deliver the samples to the Laboratory for testing.

The Engineer will test a minimum of three mixture samples in conformance with MSMT 735 for asphalt content, gradation, and volumetrics. The Engineer may accept quality control test data without comparing them with acceptance data based on the Contractor's past quality control and performance history.

Acceptance testing of these mixture samples will be in conformance with MSMT 735, Table 2.
Mixture acceptance will be based on a composite percent within Specification limits
(CMPWSL) of the lot based on asphalt content, voids total mix (VTM), percent passing No 4,



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

8 of 12

No. 8, and No. 200 sieve material for dense mixes and gap-graded mixes. The CMPWSL will be used to determine mixture pay factor in conformance with 504.04.02.

For acceptance of the HMA mixture lot, the Administration's acceptance test data for the lot will be compared with the Contractor's independent process control test data based on the analysis in conformance with MSMT 733 (F test and t test method). If the analysis indicates there is no reason to believe the results came from different populations, then the Contractor's process control and the Administration's test data will be combined for the determination of a pay factor in conformance with 504.04.02. When the analysis indicates there is a reason to believe the results came from different populations, only the Administration's acceptance test data will be used for the determination of a pay factor in accordance with 504.04.02.

504.03.11 Control Strip. The Contractor may opt to construct a control strip for guidance in determining roller patterns to achieve optimum density. When a control strip is constructed, it shall be placed on the first workday in which HMA is placed and shall be between 400 and 500 ft in length. Based on the Contractor's evaluation of the initial control strip, paving may continue at the Contractor's risk.

The Contractor will not be assessed a density pay adjustment for the amount of material required for construction of the control strips. Should the removal of any control strip be necessary, the Contractor shall remove it at no additional cost to the Administration.

The Engineer may require the Contractor to construct a control strip any time during placement of HMA based on the evaluation of compaction results.

504.03.12 Pavement Surface Checks. The Contractor shall have available, at all times, a 10 ft straightedge approved by the Engineer. After final compaction of each course, the surface of each pavement course shall be true to the established line and grade and shall be sufficiently smooth so that when tested with a 10 ft straightedge placed upon the surface parallel with the center line, the surface shall not deviate more than 1/8 in. The transverse slope of the finished surface of each course when tested with a 10 ft straightedge placed perpendicular to the center line, shall not deviate more than 3/16 in.

Transverse joints on each course shall be checked with a 10 ft straightedge immediately after the initial rolling. When the surface of each course varies more than 1/8 in. from true, the Contractor shall make immediate corrections acceptable to the Engineer so that the finished joint surface shall comply.

504.03.13 Curbs, Gutters, Etc. Where permanent curbs, gutters, edges, and other supports are planned, they shall be constructed and backfilled prior to placing the HMA, which shall then be placed and compacted against them.

504.03.14 Shoulders. Shoulders abutting the HMA surface course of any two-lane pavement that is being used by traffic shall be completed as soon as possible after completion of the surface course on that lane. Shoulder construction shall be as specified in the applicable portions of the Specifications and the Contract Documents.

504.03.15 Pavement Profile. Refer to the Pavement Surface Profile requirements specified in the Contract Documents.



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

9 of 12

504.04 MEASUREMENT AND PAYMENT. Hot Mix Asphalt Pavement will be measured and paid for at the Contract unit price per ton. The payment will be full compensation for furnishing, hauling, placing all materials including antistripping 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 hot mix asphalt is being applied to the traveled way carrying traffic will not be measured but the cost will be incidental to the pertinent Hot Mix Asphalt item.

Removal of the existing pavement or structure for the final tie-in will be measured and paid for at the Contract unit price for the pertinent items used. The hot mix asphalt for the final tie-in will be measured and paid for at the Contract unit price for the pertinent Hot Mix 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 Hot Mix Asphalt item.

Adjustment of existing manholes, valve boxes, inlets, or other structures that are encountered below the existing grade will be considered for payment in conformance with GP-4.07.

Removal of Existing Raised/Recessed Pavement Markers. Removal of existing raised/recessed pavement markers will not be measured but the cost will be incidental to the Hot Mix Asphalt item.

Removal of existing raised/recessed pavement markers that are encountered below the existing pavement will be considered for payment in conformance with GP-4.07.

504.04.01 Price Adjustment for Asphalt Binder. An adjustment will be made to the final Contract unit price for Hot Mix Asphalt if the price of asphalt binder fluctuates significantly from the prevailing price as quoted in the Contract Documents to the date of placement. This includes HMA patching material converted to tons. The Contract unit price will be adjusted by the amount of fluctuation above 5 percent for Contracts scheduled to be paved during more than one construction season or having an estimated mix quantity of 10 000 tons or more. For Contracts completed within one construction season and having an estimated mix quantity of less than 10 000 tons, the adjustment will be based upon the amount of fluctuation above 15 percent. Only the differential percent change beyond the above noted 5 and 15 percent will be used.

For the purpose of making these calculations, a monthly price index will be maintained by the Administration. This index will be the average F.O.B. selling price of asphalt binder at the supplier's terminal in the State of Maryland.

The adjusted Contract unit price for Hot Mix Asphalt will be computed monthly by using the following formula:

$$F = (PP - Pb) / Pb \times 100$$

where:

- F = Percent price increase/decrease of asphalt binder.
- PP = Index price of asphalt binder per ton at placement date.
- Pb = Prevailing index price of asphalt binder per ton as specified in the Invitation for Bids.

Adjusted Contract unit price due Contractor when price of asphalt binder increases:



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

10 of 12

$$A = B + (D \times T \times Pb)$$

Adjusted Contract unit price due Administration when price of asphalt binder decreases:

$$A = B - (D \times T \times Pb)$$

where:

- A = Adjusted Contract unit price per ton of Hot Mix Asphalt.
- B = Contract unit price per ton of Hot Mix Asphalt.
- D = Differential percentage expressed as a decimal (F – 5 percent or F – 15 percent as defined above).
- T = Design target asphalt content expressed as a decimal.
- Pb = Prevailing index price of asphalt binder per ton as specified in the Invitation for Bids.

504.04.02 Price Adjustment for Hot Mix Asphalt Mixture and Pavement Density. A price adjustment will be made as specified in GP-5.02 when the hot mix asphalt properties or pavement density does not conform to Specifications. The Contract unit price will be adjusted for noncompliance with HMA properties and pavement density in conformance with these procedures. A pay reduction and incentive payment adjustment for pavement density will be based on individual core test data for a given lot and the lot average density as specified in this section.

Pay adjustment due to noncompliance with the density requirements and incentive pay adjustment will be made against the adjusted Contract unit price for Hot Mix Asphalt in conformance with Table 504. Price adjustment will be waived for that portion of the pavement where the Engineer determines that inadequate density is due to a poor foundation.

TABLE 504

DENSE GRADED HOT MIX ASPHALT MIXES PERCENT OF MAXIMUM DENSITY		
LOT AVERAGE	NO INDIVIDUAL SUBLOT BELOW*	PAY FACTOR %
94.0 — 97.0	94.0	105
94.0 — 97.0	93.0	104
93.0 — 97.0	93.0	103
93.0 — 97.0	92.0	102
92.0 — 97.0	92.0	101
92.0 — 97.0	91.0	100
91.0 — 97.0	90.0	95
90.0 — 97.0	90.0	90
89.0 — 97.0	89.0	85

Less than 89.0	88.0	75.0 or rejected per Engineer
----------------	------	----------------------------------



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT

504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. ContNum

11 of 12

- Note 1: When any test data is above 97.0, additional pay reduction or reject per the Engineer.
- Note 2: Pay incentive will not be paid for wedge and leveling courses and courses with thickness less than 3/4 in.
- *Note 3: Option A - When the Contractor's core density data does not compare with the Administration's density data, only the Administration's single subplot values and lot average value will be used in acceptance decision.
- *Note 4: Option B - The average subplot values and the lot average will be used in acceptance decision.

Acceptance of a mixture lot will be in conformance with Sections 904, 915, and MSMT 735. A composite pay factor (CPF) for asphalt content, gradation, and mixture will be based on the total estimated percent of the lot that is within Specification limits as computed using the quality level analysis in conformance with MSMT 735.

The Lot payment for in-place density will be computed using the following formula:

$$LP_{ipd} = (CP) \times (DF) \times (TL)$$

where:

- LP_{ipd} = Lot payment in-place density
 CP = Contract unit price
 DF = Density pay factor from Table 504.04
 TL = Tonnage per lot.

The Lot payment for asphalt content and gradation will be computed using the following formula:

$$LP_{md} = (CP) \times (MF) \times (TL)$$

where:

- LP_{md} = Lot payment for mix design
 CP = Contract unit price
 TL = Tonnage per lot
 MF = Mixture pay factor (refer to MSMT 735 for CMPWSL):
 when CMPWSL is less than 90 %, MF = 55 + 0.5 CMPWSL
 when CMPWSL is greater than or equal to 90 %, MF = 100

An in-place density lot containing material with a pay factor of less than 1.0 may be accepted at the reduced pay factor, provided the pay factor for density is at least 0.85 and there are no isolated defects identified by the Engineer.

A mixture lot containing material with a pay factor of less than 1.0 may be accepted at the reduced pay factor, provided the composite pay factor for asphalt content and grading is at least 0.75 and there are no isolated defects identified by the Engineer.

An in-place density lot containing nonconforming material that fails to obtain at least a 0.85 pay factor and a mixture lot containing nonconforming material that fails to obtain at least 0.75 pay factor for asphalt content and gradation, will be evaluated by the Engineer to determine its acceptance. When the Engineer determines to reject a lot, the lot shall be replaced at no additional cost to the Administration.



Maryland Department of Transportation
State Highway Administration

SPECIAL PROVISIONS INSERT**504 — HOT MIX ASPHALT PAVEMENT**

CONTRACT NO. ContNum

12 of 12

When less than five acceptance samples per in-place density lot have been obtained, the lot will not be evaluated for incentive payment.

When less than three mix samples have been obtained at the time of the acceptance sampling or at the time a lot is terminated, the Engineer will determine if the material in a shortened lot will be considered a part of a the previous lot, or will be accepted based on the individual test data.

504.04.03 Control Strip Price Adjustment. The cost of the control strip, if constructed, will not be measured but the cost will be incidental to the pertinent Hot Mix Asphalt item.

504.04.04 Dispute Resolution. Refer to 915.02.01, Responsibilities of the Administration, (e).

504.04.05 Asphalt Cement Price Index. The prevailing base price of PG 64-22 Asphalt Cement during the month of Advertisement for this project as determined by the SHA is \$640 per ton. When a grade other than PG-22 is specified by the Contract Documents, the cost differential, if any, must be reflected in the price bid per ton for Hot Mix Asphalt

SECTION 508 – MILLING EXISTING HOT MIX ASPHALT PAVEMENT**Line Item 508-01: Milling Existing Hot Mix Asphalt Pavement, 2 inch in depth (SY)****DESCRIPTION:**

Comply with Subsection 508.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Refer to Section 508.02 of the MSHA Specifications. Milled asphalt materials shall remain the property of the County.

CONSTRUCTION:

Refer to section 508.03 of the MSHA Specifications and its amendment found in the Chapter II of Prince George's County Department of Public Works and Transportation's "Specifications and Standards for Roadways and Bridges".

MEASUREMENT AND PAYMENT:

Refer to Section 508.04 of the MSHA Specifications. The milling of asphalt pavement shall be paid for at the Contract unit bid price per square yard. The payment shall be full compensation for furnishing all materials, labor, equipment and trucks, tools, maintenance of traffic and incidentals necessary to complete the work including the removal and the hauling of the milled material, sweeping of the milled roadway and adjacent gutter pan, if any; and to remove all debris and related milled residue resulting from the milling operations.

The milled material shall be hauled from the site to any of the designated Department of Public Works and Transportation facilities at Glendale, D'Arcy Road or Brandywine, as directed by the Engineer. The cost of such hauling shall be incidental to the milling bid price.

SECTION 508A - PROTECTIVE NON-WOVEN MEMBRANE FOR PREVENTION OF REFLECTIVE CRACKING AND SEALING**DESCRIPTION:**

This item provides for sealing and crack protection in Hot Mix Asphalt overlay. The membrane shall be a non-woven polypropylene fabric (AMOCO's Petromat Style No. 4597) as manufactured by Amoco Fabric and Fibers Corp., 75 Parkway, Atlanta, Georgia 30339, telephone number 1-800-445-7732. Other manufacturers material may be submitted for approval. The fabric shall be installed at the locations directed by the Town Engineer.

CONSTRUCTION:

The fabric shall be non-woven polypropylene fabric weighing 4.6 ounces per square yard as manufactured by Amoco Fabric and Fiber Corporation (ASTM D-3776) typical. The fabric shall also meet the following physical properties:

Thickness 40 mills ASTM-D-177 typical,
Tensile strength 120 pounds ADTM D-4632 typical,
Elongation 50% ASTM D-4632 typical,
Puncture strength 75 pounds ASTM D-4833 typical,
Mullen burst strength 230 PSI, ASTM D-3786 typical, and
Asphalt retention 0.25 gal/sq. yd. typical.

The asphalt sealant shall be asphalt cement grade by viscosity at 60 degrees centigrade (original asphalt) AC-10 for temperatures below 55 degrees Fahrenheit. (Liquid asphalt ASTM-D-946-76). Emulsified asphalt will not be permitted.

The contractor shall be responsible for posting streets 48-hours prior to the beginning of work and repositioning and restoring all motor vehicles obstructing the work area.

1. Site Preparation

The surface on which the fabric is to be placed shall be clean, dry and free of dirt, water and vegetation, cracks between 1/4 inch and wider shall be cleaned out and filled with an asphalt emulsion slurry, a light grade of emulsified asphalt mixed with fine sand or repaired by any other method approved by the Engineer. Large cracks and potholes shall be filled to their depth with hot mix.

2. Tack Coat

Prior to the installation of the fabric a liquid asphalt must be applied to the prepared surface. The rate of tack coat will depend on porosity of the existing pavement. The normal range for the fabric will be from 0.20 gallons/sq-yard of residual asphalt. For this work either AC-10 or AC-20 or equal must be used (depending upon the temperature).

To maintain the specified tack rate, a calibrated distributor truck will be required for all areas where a truck is usable. For areas inaccessible to a truck a hand spray will be permitted. The application temperature for tack must be high enough to assure uniform distribution (300 F to 352 F for grade AC-20). The width of the distribution should be 6-inches wider than the width of the fabric being placed.

NOTE: On streets in this project the fabric will be placed on small areas as well as very large and continuous areas.

Installation of Petromat Fabric

For small areas (1500 linear feet or less) hand held fabric installation units consisting of adjustable disc-type fabric tensions may be used. The unit may be mounted on the front bucket of a tractor or backhoe.

NOTE: Distributors and/or fabric installation units for both large and small jobs are readily available from various manufacturers.

Pavement brush pressure should be light without bending the bristles excessively. The brushes need only touch the pavement at the middle of the unit and be elevated 1/4-inch on the ends. Driving the vehicles straight with as few steering deviations as possible will assure a vertically wrinkle-free installation. Turns should be made gradually. Hand brooming will eliminate any small wrinkles. For large wrinkles, those having a length of one (1) inch or greater, the fabric should be cut and overlapped in the direction of the paving operation. The transverse fabric joints should be overlapped 4" to 6". Longitudinal joints should be overlapped two (2) inches to four (4) inches. Additional tack coat must be applied to the joints to assure proper bonding. Standard pavement operations should immediately follow the fabric installation.

Improper lay-down and installation creating severe wrinkling of the material must be repaired prior to the construction of the overlay, failure to take precautions and repair the affected areas shall be due cause for rejection of the areas in question. No measurement or payment will be made for improperly installed materials.

Fabric installation shall be coordinated with the asphalt operation so that all fabric shall be covered at the end of each working day. The flow of vehicular traffic on installed membrane shall be held to an absolute minimum.

3. Storage

Rolls of fabric should be stored in a dry place. When outdoor storage is required, the rolls should be elevated with a tarp. If exposed to moisture a roll of fabric can absorb three (3) times its dry weight.

HOT MIX OVERLAY

Placement of the hot mix overlay shall immediately follow fabric installation. In the event that the sealant bleeds through the fabric before the hot mix is placed, it may be necessary to blot the sealant by spreading sand or hot mix over the affected areas. This will prevent any tendency for construction equipment to pick up the fabric when driving over it.

Most satisfactory lay down of the hot mix can be accomplished at temperatures below 300 degrees Fahrenheit. Turning of asphalt trucks, vehicles and the paver should be gradual to avoid movement or damage to the membrane.

MEASUREMENT AND PAVEMENT:

Cost of protective non-woven membrane for prevention of reflective cracking and sealing is considered incidental to other line items.

SECTION 520 – PLAIN AND REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT**Line Item 520-01: Reinforced 8" Concrete MSHA Mix No. 9 (Air-Entrained Concrete Paving) (SY)****DESCRIPTION:**

Comply with Subsection 520.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 520.02 of MSHA unless noted otherwise on Contract Documents.

Unless noted otherwise on the Contract Documents, sidewalks must be a minimum of 5 inches thick and constructed in accordance with MSHA Standard Specifications Section 603. Handicap ramp installation (new or replacement) must be in accordance with MSHA Standard 655.11/12.

Weather Restrictions:

- (a) Temperature and Surface Conditions. Begin concrete placement when the ambient air and surface temperatures are at least 40 F and rising. Discontinue placement whenever the temperature falls below 40 F. These requirements may be waived for incidental concrete construction. Do not place concrete on a frozen base. (b) Precipitation. Have sufficient approved material on hand to cover freshly placed concrete as protection against precipitation. (c) Wind. Cease placement when the Engineer determines that wind conditions may have a detrimental effect on the work. When weather conditions differ from these limits, placement of material enroute is at the Contractor's risk.

CONSTRUCTION:

Comply with Subsection 520.03 of MSHA unless noted otherwise on Contract Documents.

MEASUREMENT AND PAYMENT:

Comply with Subsection 520.04 of MSHA unless noted otherwise on Contract Documents except delete Subsections 520.04.01 and 520.04.02.

SECTION 549 – PAVEMENT MARKINGS

Line Item 549-01: 5" Wide Double Yellow Pavement Markings – (Non-Thermoplastic and Non-Toxic) (LF)

Line Item 549-02: Yellow Pavement Markings (For Curb) – (Non-Thermoplastic and Non-Toxic) (LF)

Line Item 549-03: 12" Wide Solid White Pavement Marking for Crosswalk Yellow – (Thermoplastic) (LF)

Line Item 549-04: 24" Wide Solid White Pavement Marking for Stop Bar – (Thermoplastic) (LF)

DESCRIPTION:

Comply with Subsection 549.01 of MSHA unless noted otherwise on Contract Documents.

Provide pavement markings for following work as indicated on Contract Documents: vehicular parking spaces and ADA symbols, direction arrows and/or stop bars, striping for a vehicular lane, and permanent on-street markings (signs).

MATERIALS:

Comply with Subsection 549.02 of MSHA unless noted otherwise on Contract Documents.

Material shall be nontoxic lead-free waterborne pavement markings.

CONSTRUCTION:

Comply with Subsection 549.03 of MSHA unless noted otherwise on Contract Documents. Delete Subsection 549.03.01.

MEASUREMENT AND PAYMENT:

Comply with Subsection 549.04 of MSHA unless noted otherwise on Contract Documents.

CATEGORY 600 – SHOULDERS (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Contract Documents. In case of conflict between MSHA specifications and other Contract Documents, the requirements of the other Contract Documents shall apply.

Unless otherwise described in each specification section, in general, work performed under this Division is subject to inspection and acceptance by the Owner prior to payment. Any defective work not accepted must be re-done at no additional cost to the County.

SECTION 602 – CURB, COMBINATION CURB AND GUTTER AND MONOLITHIC MEDIAN**Line Item 602-01: Standard Concrete Curb and Gutter, any type (LF)****DESCRIPTION:**

Comply with Subsection 602.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 602.02 of MSHA unless noted otherwise on Contract Documents.

CONSTRUCTION:

Comply with Subsection 602.03 of MSHA unless noted otherwise on Contract Documents.

In addition to meeting the requirements of MSHA Standard Specifications Section 602 concrete curb and gutters must meet the following requirements (unless noted otherwise):

1. Unless noted otherwise, replacement curb and gutter must match the configuration of the curb and gutter that was removed.
2. Curb and gutter must meet the latest DPW&T Standard Concrete Curb and Gutter (STD. 300.01) or MSHA Standard Type "A" (620.02) unless noted otherwise in the Contract Documents.
3. All curb transitions, nose downs and depressed curb (gutter sections) through sidewalk ramps and driveways are included in the work.
4. In the course of work, the Contractor must take care to protect existing curb and gutter, driveway apron or other structures as required in the Contract Documents. Any Contractor-caused damage must be reported to the Owner and must be repaired to the satisfaction of the Owner at no additional cost to the County.
5. Slope requirements for sidewalk ramp curb openings must be in accordance with the American Disabilities Act (ADA).
6. Formwork for curb and gutter work shall be approved by the Right-of-Way Inspector prior to concrete placement.
7. All construction waste and debris must be swept and removed from the Site. **Construction waster and debris must not be swept or washed into the inlets or storm sewer system.**

In addition to meeting the requirements for asphalt in specification section 504 above, asphalt curb (with related sections) must be in accordance with PG-DPW&T's standard detail STD.300.03 in addition to the following requirements:

1. Unless noted otherwise, replacement curb and gutter must match the configuration of the curb and gutter that was removed.
2. Curb and gutter must meet the latest Prince George's County or MSHA Standard Details for curb and gutter.
3. Included in the Work are all curb transitions, nose downs and depressed curb (gutter sections) through sidewalk ramps and driveways.
4. In the course of the Work, the Contractor must take care to protect existing curb and gutter, driveway apron or other structures as required in the Contract Documents. Any Contractor-caused damage must be reported to the Owner and must be repaired to the satisfaction of the Owner at no additional cost to the County.
5. Slope requirements for sidewalk ramp curb openings must be in accordance with the American Disabilities Act (ADA).

MEASUREMENT AND PAYMENT:

Comply with Subsection 602.04 of MSHA unless noted otherwise on Contract Documents.

SECTION 603 – SIDEWALKS

Line Item 603-01: Commercial Driveway Entrance (per PG DPWT Std. 200.03) (CY)
Line Item 603-02: Concrete Driveway Strips in Alleyway (MSHA Mix No. 3) (CY)
Line Item 603-03: 5 Inch Concrete Sidewalk (SF)

DESCRIPTION:

Comply with Subsection 603.01 of MSHA unless noted otherwise on Contract Documents.

MATERIALS:

Comply with Subsection 603.02 of MSHA unless noted otherwise on Contract Documents.

CONSTRUCTION:

Comply with Subsection 603.03 of MSHA unless noted otherwise on Contract Documents.

Unless noted otherwise on the Contract Documents, sidewalks must be a minimum of 6 inches thick and constructed in accordance with MSHA Standard Specifications Section 603 (and related sections) and PG DPWT Category 100.

Concrete Driveway Aprons must meet requirements provided on applicable PG DPWT Standard 200.01, 200.03 and related details in addition to meeting the requirements of MSHA Standard Specifications Sections 602 and 603.

Formwork for sidewalks and driveway entrances shall be approved by the Right-of-Way Inspector prior to concrete placement.

MEASUREMENT AND PAYMENT:

Comply with Subsection 603.04 of MSHA unless noted otherwise on Contract Documents.

Ramps and sidewalks installed as part driveway entrances are considered incidental to the driveway installation.

CATEGORY 700 – LANDSCAPING (MSHA-BASED)

GENERAL NOTE: The referenced MSHA Sections and Subsections apply unless noted otherwise elsewhere in the Task Order Documents. In case of conflict between MSHA specifications and other Contract or Task Order Documents, the requirements of the other Contract or Task Order Documents shall apply.

Unless specifically specified otherwise in the individual Specification Sections below, the following minimum acceptance and maintenance requirements apply to all plant and seeding installations:

Initial Watering: The Contractor must provide at least one initial watering after planting, sodding or seeding. All watering must be accomplished using a hose with nozzle end breaker or a sprinkler. Water must be applied in sufficient quantities to maintain moist soil to a depth of at least 4 inches. Water must be applied at low water pressure directly to each plant, allowing water to be absorbed into the planting area until saturated, but without runoff. The Contractor must avoid the application of too much water.

The Contractor must water plantings as necessary until Initial Acceptance.

Contractor must be able to supply the required water from a water truck or from a nearby hydrant. When a hydrant is used, the Contractor is responsible for all regulations, permits or expenses necessary to use the public water supply.

Final Cleanup: Prior to Initial Acceptance, the Contractor must remove all trash and materials incidental to the project and dispose of it off-site. All rejected materials must be immediately removed from the site.

Inspection and Initial Acceptance: The Contractor must notify the Owner in writing that the Plantings, sod and/or seeds are installed in accordance with these specifications. The Contractor must request an inspection by the Owner. The inspection shall be performed by the Owner and Contractor within two weeks of written notification from the Contractor. If the installation and plantings are satisfactory, the Owner will provide a Certificate of Initial Acceptance to the Contractor. The Warranty period will begin from the date of the Certificate.

WARRANTY (ESTABLISHMENT AND MAINTENANCE) PERIOD WORK

After Initial Acceptance of any Planting work, and before receiving complete payment for any planting installations, the Contractor must provide a written Warranty to the Owner for the planting work. The Warranty must be provided using the Owner's form or other form acceptable to the Owner. The Warranty must acknowledge the Contractor's responsibility to: establish and maintain all plantings, sodding, and/or seeding, and to replace all deficient work at the Contractor's sole cost. The length of the warranty will vary depending on the nature of the work; see the individual Specification Sections for information on Warranty length. Work to be performed during the Warranty period shall include, but not be limited to:

Maintenance Watering: The Contractor must provide sufficient watering as necessary to maintain the plantings, sodding, and/or seeding in good health throughout the Warranty period. This maintenance watering of planted trees, shrubs, herbaceous plants, sod, and/or seeded areas shall be as required for proper growth and health of the plantings. Water used on plants must be free of any substance harmful to the plants.

During the Warranty period, the Contractor must monitor the water needs of all plant material at least once per month between March 31 and October 31. Additionally, the Contractor shall perform more frequently water monitoring visits in periods of low rain (defined as any two-week period with less than an inch of rain at the Site). When the Contractor identifies the need for watering, the Contractor must notify the Owner of the timing of the Contractor's planned watering. After Owner notification, the Contractor shall proceed with its planned watering – whether the Owner attends the watering or not.

While the Owner has no obligation to monitor watering, the Owner may notify the Contractor if the Owner feels that the Contractor has failed to properly water plantings. If so notified, the Contractor must start watering within 24 hours of that notification. The Contractor must provide watering until all plant material has been properly watered as approved by the Owner. All required watering must be completed within five calendar days of Owner notification.

Contractor must be able to supply the required water from a water truck or from a nearby hydrant. When a hydrant is used, the Contractor is responsible for all regulations, permits or expenses necessary to use the public water supply.

Maintenance: The Contractor shall be responsible for all maintenance during the Warranty period including but not limited to: watering, invasive plant control, fence maintenance, stake and guy maintenance, and mowing (as applicable). See individual Sections for additional requirements.

Final Inspection: The Contractor will conduct a Final Inspection with the Owner at the end of each Warranty period. It will be the Contractor's responsibility to notify the Owner at least two weeks before the anticipated meeting. Any planting installation that does not meet the Task Order Documents and/or the Warranty must be corrected or replaced by the Contractor at its own expense.

Replacements and Conditions: The Contractor must meet the required Warranties for replacement of deficient plantings. During the Warranty period, the Contractor will not be responsible for plant material that has been damaged due to vandalism, fire, relocation or other activities beyond the Contractor's control as determined by the Owner. The Contractor is responsible for maintaining adequate protection against deer (and other animal) damage, as specified in the specifications, during the Warranty period.

The cost of the Planting Warranty work (including watering, maintenance, care and replacement) will not be paid for directly. Cost is incidental to other cost Line Items and Sections. If the Contractor fails to perform any Warranty work, the Owner has the right to perform the work and back-charge the Contractor.

SECTION 705 – TURFGRASS ESTABLISHMENT (BY SEEDING)**Line Item 705-01: Permanent Stabilization By Seed & Mulch (LS)****DESCRIPTION:**

Comply with Subsection 705.01 of MSHA unless noted otherwise on Task Order Documents.

This section specifies the establishment of turf by seeding as specified in the Task Order Documents. The work includes soil preparation, seeding, fertilizing, liming as required, mulching, overseeding and re-fertilizing of all areas designated for turf establishment.

MATERIALS:

Comply with Subsection 705.02 of MSHA unless noted otherwise on Task Order Documents.

Submittals:

1. At least one month prior to proposed seeding date, the Contractor must submit: proposed seeding schedule, manufacturer's certificates of seed purity and guarantees of germination in accordance with Maryland Seed Law, and soil test results to the Owner for review and approval. Proposed seed must be approved by the Owner prior to installation.
2. Before the seed is applied to the site, the Contractor must provide the Owner the seed tickets and manufacturer's invoice for the seed to be installed. The seed tickets and seed mixture being installed must match the mixture approved by the Owner.
3. Warranty: After the Contractor receives a Certificate of Initial Acceptance from the Owner, the Contractor must submit a written Warranty covering the establishment and maintenance of turfgrass installation. The Warranty period shall begin from the date of the Certificate of Initial Acceptance.

Seed and other Materials:

1. Seed must be fresh, clean, new seed crop composed of the following varieties mixed in the proportion shown and tested to the following minimum percentages of purity and germination.

Minimum standards for percent purity and percent germination of turfgrass:

Turfgrass species	% Purity	% Germination
Kentucky bluegrass	90	80
Perennial ryegrass	95	85
Tall fescue	95	80
Fine fescues	95	80

APPROVED BLUEGRASS		APPROVED PERENNIAL RYE		APPROVED TALL FESCUE	
Merit	Limosine	Opni	Greenland	Amigo	Hounddog
Fairfax	Liberty	Bright Star	Prizm	Apache	Jaguar
Blacksburg	Julia	Cutter	Assure	Bonanza	Mesa
Preakness	Midnight	Repell II	Affinity	Chieftain	Mustang
Cynthia	Penn Pro	Prelude II	Seville	Finelawn I	I Olympic
Eclipse	Touchdown	APM	Rivera II	Finelawn 5GL	Rebel II
Georgetown	Dawn	Palmer II	Advent	Guardian	Shenandoah Tribute

2. Limestone applications must be determined by the soil test results and recommendations as approved by the Owner. Pulverized limestone must contain 50% calcium oxide equivalent (CaO or Ca Mg O) and ground to such fineness that at least 50% will pass through a 100 mesh sieve and 90% will pass through a 20 mesh sieve.
3. Fertilizer applications must be determined by soil test results and recommendations as approved by the Owner. Fertilizer must be 100 percent organic-based fertilizer and meet the following specifications:
 - a. Organic Fertilizer (5-3-4) – The organic fertilizer must be 100% organic based fertilizer (free of synthetic materials). The fertilizer may be derived of fish by-products, cottonseed meal, alfalfa meal, feather meal, rock phosphate, kelp meal, cocoa meal, blood meal, dried whey, natural nitrate of soda, natural sulfate of potash, and magnesium sulfate, and must meet the following chemical requirements:

Total Nitrogen (N)	5.00%
Water Soluble Nitrogen	1.50%
Water Insoluble Nitrogen	3.50%
Available Phosphate (P ₂ O ₅)	3.00%
Soluble Potash (K ₂ O)	4.00%

4. Mulch
 - a. Straw: Straw must meet the requirements of MSHA Section 920.04.01.
 - b. Wood Cellulose Fiber: Wood cellulose fiber must meet the requirements of MSHA Section 920.04.02.
5. Straw Mulch Binder must be bound with a suitable binder or straw must be rolled thoroughly with a crimping roller in several directions to prevent erosion of the soil and/or mulch.
6. Any erosion control blanket, installed to facilitate soil stabilization and grass growth, must be comprised of natural, biodegradable (in less than 9 months), material. Acceptable materials include: 1) straw matting with jute netting and 2) wood fiber matting with no netting (example: Curlex). The use of plastic, polypropylene or nylon netting is not acceptable.

CONSTRUCTION:

Comply with Subsection 705.03 of MSHA unless noted otherwise on Task Order Documents.

1. All areas disturbed by construction must be seeded unless noted otherwise in the Task Order Documents and as directed by the Owner. Areas that are not disturbed must NOT be seeded.
2. Soil must be tested by an accredited soil testing laboratory for acidity (pH), phosphorous (P_2O_5), potassium (K_2O), soluble salts concentrations and organic matter.
3. All areas to be seeded must conform to the finished grades as specified on the Task Order Documents and be free of all weeds, trash, debris, brush, clods, stones and other foreign materials larger than 3 inches in diameter or length that would interfere with seeding, or future grass maintenance. All gullies, washes or disturbed areas that develop subsequent to final dressing must be repaired prior to seeding.
4. Seeding must be performed from March 1 through May 15 or August 1 through October 20 unless otherwise approved by the Owner.
5. Seeding must not be performed on frozen ground or when the temperature is 32°F (0°C) or lower.
6. Before seeding, all soils must be loosened with rototillers, disk harrows, chisel plows, or other Owner-approved equipment, to a minimum depth of 4 inches. All stones over $\frac{3}{4}$ inch in any dimension must be removed from the top 4 inches of soil by use of a "Rock Hound" or other means. Fertilizer and limestone application may be accomplished at this time according to the results of the soil test. Fertilizer and limestone must be evenly distributed on the seed bed areas and worked into ground to a depth of 3 inches.
7. All seeding equipment must be calibrated before application to the satisfaction of the Owner so that the materials are applied accurately and evenly to avoid misses and overlaps. Seed installed by a broadcast spreader capable of placing seed at the specified rate. The minimum seed application rate is 250 pounds per acre.

Hydroseeding applications must meet MSHA Section 705.

8. Seed must be applied within the top $\frac{1}{4}$ inches of the soil in two different directions. The Contractor must maximize the seed/soil contact by firming soil around the seed with a cultipacker or other similar equipment.
9. Initial Watering must be provided as described in Category 700.
10. The Contractor must mulch and tack all seeded areas within 24 hours after seeding in accordance with MSHA Sections 705.03.09 and 705.03.10.

Initial Acceptance: After the Contractor has completed its initial seeding (including soil preparation, seeding, fertilizing, liming as required, mulching and initial watering), the Contractor shall submit a request for Initial Acceptance. An Owner Inspection will be conducted to verify completion. If complete, an Initial Acceptance Certificate will be issued by the Owner at that time.

Warranty:

1. The Contractor must provide a written establishment, maintenance, and replacement Warranty on all permanent turf seeding. The length of the Warranty shall be the longer of: a) one year or b) until adequate grass coverage is obtained. The Warranty must guarantee a 95% survival rate per 1000 square foot area.

2. The Warranty period shall begin upon the date of the Initial Acceptance Certificate.
3. As necessary, the Contractor must reseed all areas experiencing a less than an ninety-five percent (95%) survival rate at its sole cost. As practicable, reseeding shall be performed prior to May 15 of the year following Initial Acceptance.
4. If Soil Stabilization matting is used (per Section 709), it shall be included as part of the turfgrass seeding Warranty. See Section 709 for further information.

Establishment and Maintenance of Newly Seeded Areas:

1. Establishment and Maintenance of grass areas requires fertilizing, watering, mowing, weeding, and re-seeding as necessary to obtain an Owner-approved stand of grass. It must continue until the end of the Warranty period. Until Final Acceptance, the Contractor shall refertilize all of the grassed areas during each seeding seasons. The actual timing and rate of application of the refertilization shall be decided by the Owner, consistent with MSHA 705.03.16. Proper maintenance of the turf will continue until the project is finally accepted.
2. Flooded, washed-out, rilled or otherwise damaged or defective areas of seeding, mulch, grade, swales or berms must be reconstructed and all grades re-established in accordance with the grade plans or other specifications.
3. The Contractor is responsible for all mowing until Final Acceptance. Mowing must not remove more than one-half of the grass blade length. Heavy mowing, resulting in grass piles, must be "double mowed" or piles must be removed by the Contractor. Height of the grass must be maintained at 3 inches, unless otherwise specified by the Owner.
4. The following are examples of deficiencies that will result in the Owner's non-acceptance of the work:
 - a. Improper Grades:
 - Low or high spots on flat ball field-type areas.
 - Improper drainage such as swales, low areas, rip-rapped outlets and paved areas.
 - Washed out or rilled areas.
 - Exposed rock and log debris
 - b. Turf Grass Conditions:
 - Poor or thin stand; improper application of seed, dead grass; use of seed mixtures other than specified in the specifications.
 - Improper fertilizer application – Uneven spreading, insufficient amounts, or failure to re-fertilize during extended acceptance.
 - Persistent weeds established in turf areas.

Final Acceptance: When: 1) the Contractor has established adequate (at least 95%) turfgrass establishment, and 2) a minimum of 11 months has elapsed since the date of the Initial Acceptance Certificate, the Contractor shall submit a request for Final Acceptance. Owner and/or Regulatory Inspections will be conducted to verify completion. If complete, a Final Acceptance Certificate will be issued by the Owner at that time.

If Establishment is not complete at the time of the Inspection, the Contractor shall take immediate steps to establish adequate coverage during the next planting season. Re-inspections will occur until Final Acceptance.

MEASUREMENT AND PAYMENT:

Turfgrass establishment shall be measured and paid for at the Task Order Unit Price shown on the Schedule of Unit Prices. Payment must be full compensation for furnishing and incorporating seed including all, materials, labor, equipment, tools, maintenance and Warranty and incidentals necessary to complete the work as specified in the Task Order Documents.

Turfgrass Establishment including preparing soil, preparing seed bed, applying fertilizer, seed mixes, seed additives, overseeding, reseeding, mulching, securing mulch, and repairing unacceptable areas will be measured and paid for at the Task Order unit price per square yard.

The Contractor shall be paid 100% of the Unit Price after Initial Acceptance and the County's receipt of the Contractor's written Warranty.

The cost of all Warranty work is incidental to the Unit Price; the Contractor shall perform all Warranty work at no additional cost. **If the Contractor fails to perform any Warranty work, the Owner has the right to perform the work and back-charge the Contractor.**

SECTION 715 – TREE ROOT PRUNING**Line Item 715-01: Tree Root Pruning (LF)****DESCRIPTION:**

Comply with Subsection 715.01 of MSHA unless noted otherwise on Contract Documents.

This work consists of tree root pruning which is necessary to preserve the life of existing trees within the limits of disturbance as indicated on the Contract Documents.

MATERIALS:

Comply with Subsection 715.02 of MSHA unless noted otherwise on Contract Documents.

All tools and work must be in accordance with accepted arboricultural practices and as approved by the Owner.

CONSTRUCTION:

Comply with Subsection 715.03 of MSHA unless noted otherwise on Contract Documents.

This work must be field supervised by a Maryland Licensed Tree Expert. Carefully identify and flag the exact location of the root pruning trench as specified on the Contract Documents. Before root pruning, all tree protection measures must be in place according to Maryland National Park and Planning Commission Forest Conservation Law. No roots must be cut within a minimum of **three** trunk diameters (measured **at DBH**) without expressed approval by the Owner. Roots less than 1.5 inches diameter can be cleanly pruned using handsaws, pruners, loppers or sharp vibratory knife. Roots of 1.5 inches diameter or larger must be cleanly pruned by hand with handsaws, pruners, loppers, or other specifically designed root pruning equipment as soon as the root is encountered. Root pruning must be performed to the depth of excavation or 24 inches, whichever is less. All blades must be cleaned before each cut when working with trees or roots that have visible signs of defects or decay. During root pruning, the roots must be cleanly severed and excavation must not cause tearing or ripping of tree roots. The tree roots must not remain exposed to air during pruning activities. All exposed roots and cut ends must be kept moist with damp burlap or covered with an Owner-approved soil until final grade is established. Root pruning must not be undertaken when the soil on site is wet and when more than the top 1 inch of soil is frozen. The Contractor must follow the American National Standard for Pruning, ANSI A300-2008 or most recent version. Debris will generally be reused onsite; if it cannot be onsite, the Contractor must dispose of debris offsite at no additional compensation. A standard detail for root pruning is provided in the Contract Documents.

MEASUREMENT AND PAYMENT:

Comply with Subsection 715.04 of MSHA unless noted otherwise on Contract Documents.

The Unit Price payment per the Schedule of Unit Prices will be full compensation for all material, labor, equipment, tools, and incidentals (including any required coordination with utility companies, and the services of the Maryland Registered Tree Care Expert) necessary to complete the work. The work includes removal of debris and/or stockpiling of debris on site for reuse.

CATEGORY 900 – MATERIALS (MSHA-BASED)

GENERAL NOTE: The material specifications of MSHA Category 900 shall apply as referenced in other Specification Sections. The material specifications of MSHA Category 900 are not repeated below. Following are only modifications to the referenced MSHA material specifications:

SECTION 901 – AGGREGATES

1. In addition to conformance with MSHA Section 901 (Tables 901 A and B), aggregate must conform to the following ASTM/AASHTO gradation table (M 43). Washed aggregate and river rock/gravel must also conform to ASTM C-33.

SIZES OF COARSE AGGREGATE, (AASHTO M 43) (inches)																
Size number	Nominal size square openings ⁽¹⁾	Amounts finer than each laboratory sieve (square openings), percentage by weight														
		4	3-½	3	2-½	2	1-½	1	¾	½	3/8	No. 4	No. 8	No. 18	No. 50	No. 100
1	3-½ to 1-½.	100	90 to 100		25 to 60		0 to 15		0 to 5							
2	2-½ to 1-½.			100	90 to 100	35 to 70	0 to 15		0 to 5							
24	3-½ to ¾.			100	90 to 100		25 to 60		0 to 10	0 to 5						
3	2 to 1.				100	90 to 100	35 to 70	0 to 15		0 to 5						
35	2 to No. 4.				100	95 to 100		35 to 70		10 to 30		0 to 5				
4	1-½ to ¾.					100	90 to 100	20 to 55	0 to 15		0 to 5					
46	1-½ to No. 4.					100	95 to 100		35 to 70		10 to 30	0 to 5				
5	1 to ½.						100	90 to 100	20 to 55	0 to 10	0 to 5					
56	1 to 3/8.						100	90 to 100	40 to 75	15 to 35	0 to 15	0 to 5				
57	1 to No. 4.						100	95 to 100		25 to 60		0 to 10	0 to 5			
6	¾ to 3/8.							100	90 to 100	20 to 55	0 to 15	0 to 5				
67	¾ to No. 4.							100	90 to 100		20 to 55	0 to 10	0 to 5			
68	¾ to No. 8.							100	90 to 100		30 to 65	5 to 25	0 to 10	0 to 5		
7	½ to No. 4.								100	90 to 100	40 to 70	0 to 15	0 to 5			
78	½ to No. 8.								100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5		
8	3/8 to No. 8.									100	85 to 100	10 to 30	0 to 10	0 to 5		
89	3/8 to No. 16.									100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	
9	No. 4 to No. 16.										100	85 to 100	10 to 40	0 to 10	0 to 5	
10	No. 4 to 0 ⁽²⁾ .										100	85 to 100				10 to 30

(1) In inches, except where otherwise indicated. Numbered sieves are those of the United States Standard Sieve Series.

(2) Screenings. Where standard sizes of coarse aggregate designated by two or three digit numbers are specified, the specified gradation may be obtained by combining the appropriate single digit standard size aggregates by a suitable proportioning device which has a separate compartment for each coarse aggregate combined. Blending must be done as directed by the Laboratory.

2. **SUBMITTALS:** The Contractor must submit, for Owner approval, sample aggregate material a minimum of thirty days prior to starting work.
3. **Sand (Fine Aggregate):** In addition to conformance with MSHA Section 901 (Tables 901 A and B), sand for bioretention facilities and other applicable infiltration facilities must be double-washed and otherwise conform to ASTM Standard C33 for fine aggregate.

SECTION 919– GEOTEXTILES

1. Geotextile Filter Fabric (Non-Woven): In addition to conformance with MSHA Subsection 919, Non-Woven geotextile filter fabric must conform to Table H.1 in the MDE “2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.” The fabric must have minimum grab strength of 200 pounds and minimum puncture strength of 450 pounds. Note: This item will not be paid when fabric is incidental to other work (e.g., riprap).

CATEGORY 1000 – GENERAL (NON MSHA-BASED)

GENERAL NOTE: The specification sections in this Category are not based on the MSHA.

SECTION 1000 - UTILITIES

Attention of the Contractor is directed to the presence of water, sewer, gas mains, electrical wires conduit, communications cables, poles and house service connections in the street, highway or shoulder areas (both overhead and underground) in which the project is to be performed. The Contractor shall exercise special care and extreme caution to protect and avoid damage to utility company facilities as described in the preceding sentence. The Contractor shall take into consideration the adjustments and installations by public utilities in the areas within the limits of this Contract. In the event of a water or sewer main break, the Contractor shall immediately notify the WSSC and the County's Project Engineer.

Prior to ordering any storm drain or water/sewer main materials, the Contractor shall locate and test pit (as approved by the County's Project Engineer) any underground facilities that appear to be in conflict in order to determine if conflicts exist. In the event that conflicts may be possible, this information shall immediately be forwarded to Cottage City's representative for review and resolution. Material ordered prior to obtaining test pit information will not be considered in any request from the Contractor for any equitable adjustments due to existing utility conflicts.

At least seventy two (72) hours prior to the placement of any new traffic signal related equipment being installed near existing or proposed utility lines (foundations, poles, etc.), the Contractor shall contact the various utility companies, the Project Engineer, the County's Traffic Signal Engineer, and representatives of the appropriate MSHA agencies to arrange a field meeting to discuss the proposed construction.

The Contractor shall locate all existing utilities and be responsible for their safety. Should any existing utilities be damaged or destroyed due to the operations of the Contractor, the damaged or destroyed components shall be immediately replaced or repaired as necessary to restore the utility to a satisfactory operating condition. These repairs or replacements shall be at no additional expense to Cottage City or the owner of the utility.

The existing utilities requiring relocation or adjustments shall be relocated or adjusted by the agency responsible for their maintenance or by the owner of the utility unless otherwise indicated in the Contract Documents.

The Contractor shall notify all utilities involved, including but not limited to the Washington Suburban Sanitary Commission, the Washington Gas Light Company, the Potomac Electric Power Company, Southern Maryland Electric Power Company, Baltimore Gas and Electric Company and Verizon Maryland, Inc., at least one (1) week prior to starting work on the streets in which there are water, electric, and telephone services so that these organizations may have their representatives present. The Contractor shall assist the utility companies as necessary by providing line and grade for structure adjustments.

Except when otherwise directed by the Engineer, all necessary adjustments to Washington Gas Light Company surface structures will be made using adjustment rings manufactured by Bingham & Taylor. The Contractor shall be responsible for obtaining these items from the utility companies at no cost and will install them at the direction of the Engineer, at no cost to the County.

All surface adjustments to WSSC facilities, such as water and sewer manholes, water valve boxes, etc., must be physical adjustments in accordance with these Special Provisions. The use of rite height adjustment rings on WSSC facilities is not allowed.

The primary supervision and inspection of the adjustment, construction, and/or relocation will be performed by the Engineer in cooperation with the Systems Inspection Group of the Commission. The materials required for the work on the WSSC facilities shall include, but not be limited to: pipe, pipe fittings, manhole frames and covers, tapping assemblies, valves, copper pipe, concrete and backfill material. All materials shall comply with and be constructed in accordance with the WSSC General Conditions and Specifications. (NOTE: Manhole frames and covers and water valve boxes that are in need of replacement shall be provided by the WSSC. Manhole frames and covers and water valve boxes damaged by the Contractor shall be his responsibility to replace.)

Prior to the start of construction, the Contractor shall arrange a meeting with the WSSC representative to walk the project to determine which manhole frames and covers and water valve boxes are damaged and are to be replaced.

The Contractor shall have no claims for any delay that may occur in changing or relocating any of the services. The County will charge any expense to which it may be put by the operations of the Contractor to him and will deduct the same from any monies due or to become due to him. The Contractor will be responsible for any adjustment of utility structures required by the normal prosecution of the work and shall bear the cost thereof.

The Contractor shall also call "Miss Utility" on 1-800-257-7777 at least forty eight (48) hours in advance of construction, between the hours of 7:00 am and 5:00 pm, Monday through Friday.

Working around or protecting existing aerial and underground utilities, regardless of ownership (State, County, public or private); removal of temporary materials from the adjusted utilities prior to the placement of hot mix asphalt; installation of temporary utility service connections; cooperation with the owners of the utilities and with other Contractors will not be measured for payment and the cost will be incidental to the items specified in the proposal.

SECTION 1007 – CERTIFIED TESTING AND INSPECTION SERVICES**DESCRIPTION:**

The Contractor must provide Certified Inspection and Testing services as required to determine all material compliance with Contract and Project Document requirements including testing and inspection services required by Project permits. These services include but are not limited to: allowable soil bearing pressures, compaction tests, verification of adequacy of fill material, and concrete material testing as specified on the Contract and Project Documents.

MATERIALS: NA**CONSTRUCTION:**

The provider(s) of all inspection and testing services, including geotechnical and/or structural inspection and testing services, must be approved by the Owner prior to commencement of the Work. All inspection and testing reports, including geotechnical and material reports must be clearly produced and submitted by the Contractor to the Owner and Engineering Consultant as part of the construction Record Documents.

The Contractor must provide compaction and geotechnical analysis of fill material placed under this Contract.

This Section requires the services of a Certified Engineer registered in the State of Maryland as well as the technical staff under the supervision of the Certified Engineer conducting soil tests in accordance with the requirements of the Contract Documents.

MEASUREMENT AND PAYMENT:

Certified Testing and Inspection Services will not be paid for separately; they shall be included in the unit costs for related line items requiring inspection(s) and/or testing.

Payment for related line items may be withheld by the Owner pending receipt of certified inspection/testing reports indicating compliance with Contract and Project Documents.

SECTION 1012 – GRAVEL FILTER MEDIA**Line Item 1012-01: MSHA Washed No. 57 Stone (CY)****DESCRIPTION:**

This work consists of providing and installing washed gravel filter media in Sand Filters, Bioretention and other filtration stormwater facilities.

MATERIAL:

Unless otherwise noted, the gravel surrounding underdrain pipes must meet MSHA size #57 stone (MSHA 901) as specified on Contract Documents. Gravel must be washed prior to installation.

CONSTRUCTION:

Installation must provide a minimum of 6 inches of cover around underdrain pipes and must be in accordance with the requirements stated in the Contract Documents and other Sections of these specifications.

PAYMENT:

Gravel Filter media shall be paid at the Unit Price shown on the Schedule of Unit Prices. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to satisfactorily complete the work.

CATEGORY 2000 – ALLOWANCES

Delete this note before finalizing specifications.

SECTION 2001 – GENERAL ALLOWANCE

Line Item 2001-01: General Allowance (LS)

DESCRIPTION: This Section provides administrative and procedural requirements for a General Allowance (in the amount of \$115,000.00) for additional work within the general scope of the Work.

An Allowance is a monetary contingency amount established in the Project Documents and included in the Project Sum to compensate the Contractor for its performance of additional Unit Price Work, if any, consistent with the Project Documents, upon written direction from the Contract Administrator.

An Allowance shall only be used for Work already defined by Unit Prices in the Project. Reference the Contract for other Change Work.

EXECUTION: Additional work, utilizing the General Allowance, must be approved in writing by the Contract Administrator prior to the performance of any additional work.

The General Allowance shall be adjusted (reduced) based on the increase of line item quantities, above the Project quantity, multiplied by pre-determined Unit Prices in the Contract.

The Contractor, upon its discovery of an overrun in the quantities of any line item(s) in the Project Sum must notify the Contract Administrator of its discovery and must, upon request, provide all supporting documentation justifying the overrun. The work covered by an Allowance must be purchased on the basis of the Unit Price(s) specified in the Contract Documents. Upon the County's verification and approval of the overrun and overrun amount, the County will direct the Contractor, in writing, to reduce the Allowance by the amount of the overrun. **All invoices submitted after such written direction must indicate the reduction in the Allowance and the change (increase) in referenced line item quantities.**

The Contractor must submit all invoices and/or delivery slips to justify actual quantities of line item work.

All time required for the performance of work covered by the General Allowance is conclusively presumed to be included in the Contract (or Project) Time. For other Change Work, the Contractor must demonstrate a Delay and request an extension of time in writing in accordance with the Contract.

At the end of the Contract, the Contract Sum must be reduced by an appropriate Contract Modification to reflect the deletion of any remaining value in the Allowance.

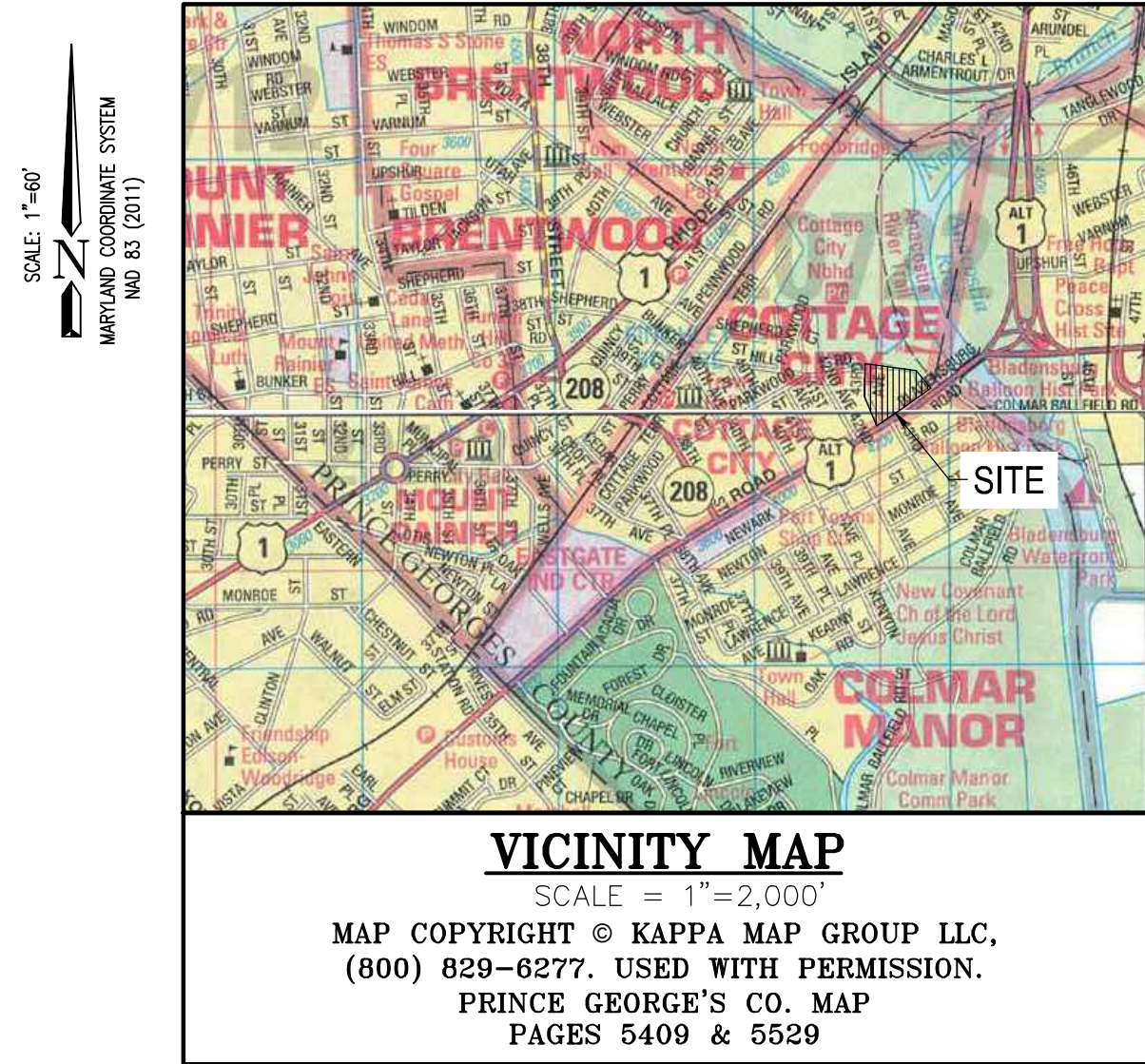
Use any contingency allowance only as directed in writing by the Contract Administrator.

COTTAGE CITY 43rd AVE

43rd AVENUE MAINTENANCE PLAN

COTTAGE CITY (2nd) ELECTION DISTRICT

PRINCE GEORGE'S COUNTY, MARYLAND



SHEET LIST TABLE

SHEET NO.	DRAWING NAME	SHEET TITLE
1	CV-01	COVER SHEET
2	ML-01	MASTER LEGEND
3	SN-01	STANDARD NOTES
4	EC-01	EXISTING CONDITIONS & DEMOLITION PLAN
5	SD-01	PROPOSED MAINTENANCE PLAN
6	SD-02	TRENCH DRAIN PLAN
7	SD-03	PAVING DETAILS
8	SD-04	TRENCH DRAIN DETAILS
9	SC-02	SEDIMENT CONTROL SITE DESIGN NOTES
10	SC-03	SEDIMENT CONTROL SITE DESIGN DETAILS

GENERAL NOTES:

- ONLY APPROVED PLANS THAT HAVE BEEN SIGNED BY THE ENGINEER OF RECORD SHALL BE USED FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE DRAWINGS. AUTOCAD FILES OR OTHER ELECTRONIC FILES ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- THE EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED USING INFORMATION AVAILABLE AT THE TIME THIS PLAN WAS PREPARED. PRIOR TO DIGGING, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN AND CONFIRM THAT NO CONFLICTS EXIST. ANY CONFLICTS MUST BE BROUGHT TO THE ATTENTION OF CPJ AND THE OWNER PRIOR TO STARTING CONSTRUCTION.
- THIS PLAN SHALL ONLY BE USED FOR THE CONSTRUCTION OF STORM DRAIN AND PAVING AND ASSOCIATED STORM DRAIN AND PAVING IMPROVEMENTS AS SHOWN. THIS PLAN SHALL NOT BE USED FOR ANY OTHER CONSTRUCTION PURPOSE.
- THESE PLANS DO NOT INCLUDE THE NECESSARY PRECAUTIONS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING, OR RECONSTRUCTING EXISTING SITE FEATURES (E.G. CURB AND GUTTER, SIDEWALK, FENCING, SOIL, UTILITIES, ETC.) DAMAGED AS A RESULT OF PROJECT WORK.
- ALL CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 2010 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
- "MILL AND OVERLAY AS PER STANDARD F4 OF THE POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE". PLEASE BE SURE TO REFERENCE THE POLICY AND SPECIFICATIONS FOR UTILITY INSTALLATION AND MAINTENANCE TO MAKE SURE THE LIMITS OF MILL AND OVERLAY ARE CORRECT.
- CONTRACTOR SHALL COORDINATE ANY CLOSURES WITH TOWN OR ENGINEER TO PROVIDE ADEQUATE NOTICE TO HOMEOWNERS OF ANY NECESSARY CLOSURES.
- TO REOPEN PAVEMENT TO TRAFFIC AS SOON AS POSSIBLE, CONTRACTOR MAY SUBMIT A HIGH EARLY STRENGTH CONCRETE MIX FOR ACCEPTANCE. THE ULTIMATE CONCRETE STRENGTH MUST BE EQUAL TO OR GREATER THAN THE CONCRETE MIX SPECIFIED PER PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE. CONTRACTOR SHALL INSTALL APPROPRIATE SEDIMENT CONTROL MEASURES AS NECESSARY. STANDARD SEDIMENT CONTROL NOTES AND SOME DETAILS ARE PROVIDED ON SHEETS 9 AND 10. REFER TO THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL DETAILS AND PRACTICES AS NEEDED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE AND FLAGGERS TO MAINTAIN SAFE PASSAGE OF VEHICLES AND PEDESTRIANS AROUND WORK ZONE.

MISS UTILITY

Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work. The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation.

STABILIZATION NOTE

STABILIZATION PRACTICES ON ALL PROJECTS MUST BE IN COMPLIANCE WITH THE REQUIREMENTS OF COMAR 26.17.1.08 G REGULATIONS BY JANUARY 9, 2013, REGARDLESS OF WHEN AN EROSION SEDIMENT CONTROL PLAN WAS APPROVED. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN THREE (3) CALENDAR DAY AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAY AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

COVER SHEET
43rd AVENUE CONCEPT PLAN

COTTAGE CITY 43rd AVENUE
COTTAGE CITY (2ND) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

CPJ Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
1751 Elton Rd., Ste. 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394
www.cpja.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Fairfax, VA



CLIENT: TOWN OF COTTAGE CITY 3820 40TH AVENUE COTTAGE CITY, MD 20722 ATTN: CAROL RICHARDSON, TOWN MANAGER	TAX MAP/WSSC N/A	SITE PLAN NO. N/A
DESIGN BMF	DATE MAR., 2024	SHEET 1 OF 10
DRAFT JMN	SCALE AS SHOWN	FILE NO.: 2020-3050
COPYRIGHT © LATEST DATE HEREON CHARLES P. JOHNSON & ASSOCIATES, INC. ALL RIGHTS RESERVED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.		

ABBREVIATIONS

Ac.	ACRE(S)
ACI	American Concrete Institute
ASTM	American Society for Testing Materials
AHD	Ahead
APPROX.	Approximate
P or B/L	Baseline
BK	Back / Book
BIT.	Bituminous
B.C.	Bituminous Concrete
B.M.	Bench Mark
BOT.	Bottom
C/C	Center-to-Center
CF	Cubic Feet
cfs	Cubit Feet per Second
CPv	Channel Protection Volume
D	Depth
D50	50th Percentile of Diameter
D.I.P.	Ductile Iron Pipe
C.C.	Center of Curve
CAP	Corrugated Aluminum Pipe
CAPA	Corrugated Aluminum Pipe Arch
CATV	Cable Television
N or C/L	Centerline
CL.	Class
CLF	Chainlink Fence
CMP	Corrugated Metal Pipe
C.O.	Cleanout
COMB.	Combination
CONC.	Concrete
CONSTR.	Construction
COR.	Corner
CORR.	Correction
CPP-S	Corrugated Polyethylene Pipe - Type 'S'
CSP	Corrugated Steel Pipe - Aluminized Type 2
CSPA	Corrugated Steel Pipe Arch - Aluminized Type 2
DC	Degree of Curve
D.H.V.	Design Hourly Volume
D.I.	Drop Inlet
DIA.	Diameter
D.O.	Double Opening
E	East
E	Electric
EA	Each
ELEV	Elevation
ES	End Section
EX or EXIST	Existing
f.p.s.	Feet Per Second
FT	Feet
F or FL	Flowline
F.B.D.	Flat Bottom Ditch
F.H.	Fire Hydrant
FWD.	Forward
G	Gas
GALV.	Galvanized
G.V.	Gas Valve
H.B.	Handbox
H.D.P.E.	High Density Polyethylene
HDWL.	Headwall
HGL	Hydraulic Grade Line
HSG	Hydrologic Soil Group
HERCP	Horizontal Elliptical Reinforced Concrete Pipe
HP	High Point
IN	Inch
I.S.T	Inlet Sediment Trap
INV.	Invert
J.B.	Junction Box
K	K Inlet
L	Length
LF	Linear Feet
L.L.	Liquid Limit
LP	Low Point
L.P.	Light Pole
LT.	Left
MAC.	Macadam
MAX.	Maximum
MOD.	Modified
MIN.	Minimum
MCDPS	Montgomery County Department of Permitting Services
MDE	Maryland Department of the Environment
MH	Manhole
MNCPCC	Maryland National Capital Park and Planning Commission
MSHA	Maryland State Highway Administration
NTS	Not To Scale
N	North
NB	Northbound
NE	Northeast
N.P.	Non-Plastic
O.C.	On Center
OW	Overhead Electric

PAV'T.	Pavement
PC	Point of Curvature
PCC	Point of Compound Curvature
P/C	Point of Crown
P/GE	Profile Grade Elevation
P.G.E.	Profile Ground Elevation
P.G.L.	Profile Grade Line
P/GL	Profile Ground Line
P.I.	Plasticity Index
PI	Point of Intersection
POC	Point On Curve
POT	Point On Tangent
PPWP	Polyvinyl Chloride Profile Wall Pipe
PROP	Proposed
PRC	Point of Reverse Curve
PT	Point
PT	Point of Tangency
PVC	Polyvinyl Chloride
R	Radius
R.F.	Rock Fragments
RT	Right
Right of Way	Right of Way
R.C.P.	Reinforced Concrete Pipe
RCPP	Reinforced Concrete Pressure Pipe
R.Q.D.	Rock Quality Designation
R.M.	Rootmat
S	South
SAN.	Sanitary Sewer
SB OR S/B	Southbound
S.D.	Storm Drain
S.D.D.	Surface Drain Ditch
SF	Silt Fence
SF	Square Feet
SHT.	Sheet
S.P.T.	Standard Penetration Testing
SRPA	Steel Spiral Rib Pipe - Aluminized Type 2
SSF	Steel Spiral Rib Pipe arch - Aluminized Type 2
S.S.	Super Silt Fence
STD.	Side Slope
STANDARD	Standard
STA.	Station
SO.	Single Opening
SY	Square Yards
SWM	Stormwater Management
T	Tangent
T	Telephone
T.C.	Top of Cover
T.G.	Top of Grate
T OR TL	Traverse Line
T.M.	Top of Manhole
TRAV.	Traverse
TS	Temporary Swale
T.S.	Top of Slab
T.S.	Topsail
TYP.	Typical
U.D.	Under Drain
U.G.	Underground
U.P.	Utility Pole
USDA	United States Department of Agriculture
v	Velocity
W	Water
W	West
WB	Westbound
WB	Wetland Buffer
W.M.	Water Meter
W.S.	Wrapped Steel
WSE	Water Surface Elevation
WUS	Waters of the United States
W.V.	Water Valve
WQv	Water Quality Volume
Ø	Diameter

LEGEND

	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED THALWEG
	WATER SURFACE
	EXISTING 100 YEAR FLOODPLAIN
	EXISTING 100 YEAR FLOODPLAIN BUFFER
	PROPOSED 100 YEAR FLOODPLAIN
	PROPOSED 100 YEAR FLOODPLAIN BUFFER
	FEMA 100 YEAR FLOODPLAIN
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	ROOT PRUNE
	TREE
	TREE REMOVAL (ALL TREES TAKES ARE TO BE FLUSH CUTS, UNLESS OTHERWISE INDICATED)
	TREE REMOVAL (COMPLETE REMOVALS - TO BE USED FOR ROOTWADS)
	TREE TRUNK PROTECTION (TREE PLANKING)
	DRAINAGE DIVIDE
	DRAINAGE FLOWPATH POINT
	FLOWPATH
	TIME OF CONCENTRATION POINT
	EXISTING SOIL DIVIDE
	SOIL TYPE LABEL
	SOIL BORING
	WETLAND SAMPLE PLOT
	LIMIT OF DISTURBANCE
	PROPOSED CONC. SIDEWALK
	PROPOSED RIPRAP
	EXISTING STORM DRAIN
	EXISTING CURB & GUTTER
	PROPOSED CURB & GUTTER
	PROPOSED DETECTABLE WARNING SURFACE
	ADA RAMP
	EXISTING TO BE REMOVED
	MILL & OVERLAY
	FULL DEPTH PAVING
	PROPOSED 100 YR FLOW PATH
	LONGITUDINALLY SLOTTED DRAIN

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING WATER SUPPLY
	EXISTING ELECTRIC
	EXISTING GAS
	EXISTING COMMUNICATIONS
	EXISTING OVERHEAD WIRE
	TREELINE
	PROPERTY LINE
	CHAIN-LINK FENCE
	WOOD FENCE
	BENCHMARK
	TRAVERSE POINT
	TRAFFIC POLE
	ELECTRIC JUNCTION BOX
	STORMDRAIN MANHOLE
	GAS METER
	GAS VALVE
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SEWER MANHOLE
	SEWER CLEAN OUT
	TELCO MANHOLE
	TELCO RISER
	SIGN
	LIGHT POLE
	UTILITY POLE
	GUY WIRE
	ELECTRIC MANHOLE
	TRANSFORMER



MASTER LEGEND
43rd AVENUE CONCEPT PLAN

COTTAGE CITY 43rd AVENUE
COTTAGE CITY (2ND) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

CPJ

Charles P. Johnson & Associates, Inc.

Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors

1751 Elton Rd., Ste. 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394

www.cpja.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Fairfax, VA

CLIENT : TOWN OF COTTAGE CITY
3820 40TH AVENUE
COTTAGE CITY, MD 20722
ATTN: CAROL RICHARDSON, TOWN MANAGER

TAX MAP/WSSC
N/A

DESIGN
BMF

DRAFT
JMN

DATE
MAR., 2024

SCALE
AS SHOWN

SITE PLAN NO.
N/A

SHEET
2

OF
10

FILE NO :
2020-3050

COPYRIGHT © LATEST DATE HEREON CHARLES P. JOHNSON & ASSOCIATES, INC. ALL RIGHTS RESERVED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.

Last Saved 4/28/2025 Last Plotted 4/28/2025 5:59 PM Sheet P:\2020-3050\DWG\38-01_00

Printed: 4/28/2025 5:59 PM P:\2020-3050\DWG\38-01_00

GENERAL STORM DRAIN AND PAVING NOTES

- 1) INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND OR VACUUM, AT UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES TO WATER AND SEWER LINES ARE LESS THAN SHOWN ON THIS PLAN, OR LESS THAN TWELVE (12) INCHES, CONTACT THE DEPARTMENT OF PERMITTING INSPECTION AND ENFORCEMENT (DPiE) INSPECTOR BEFORE PROCEEDING WITH CONSTRUCTION.
- 2) ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER MANAGEMENT STANDARDS AND SPECIFICATIONS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION.
- 3) FOR TYPES OF STORM DRAIN STRUCTURES, REFER TO THE LATEST STANDARD DETAILS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, UNLESS OTHERWISE NOTED.
- 4) ALL ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: THE DPW&T SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES; THE PRINCE GEORGE'S COUNTY CODE, SUBTITLE 23, ROAD ORDINANCE; AND THE PRINCE GEORGE'S COUNTY POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE.
- 5) PRIOR TO DIGGING WITHIN THE PUBLIC RIGHT-OF-WAY, CALL "MISS UTILITY" TOLL FREE AT (800) 257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
- 6) PRIOR TO PERMIT ISSUANCE AND STARTING ANY WORK SHOWN ON THIS PLAN, THE PERMITTEE SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE DPiE INSPECTOR BY CALLING (301) 883-5730. AN INITIAL INSPECTION IS REQUIRED PRIOR TO FULL MASS GRADING OF THE SITE.
- 7) IN ACCORDANCE WITH SECTION 23-128, THE COUNTY'S ROAD ORDINANCE, A PROJECT SIGN SHALL BE POSTED PROMINENTLY DESCRIBING THE FOLLOWING:

- SUBDIVISION NAME (AS SHOWN ON PERMIT APPLICATION)

- OWNER/PERMITTEE NAME

- OWNER/PERMITTEE ADDRESS AND PHONE

- DPW&T PERMIT NUMBER
- 8) ALL ELEVATIONS SHOWN ON THIS PLAN ARE IN ACCORDANCE WITH THE FOLLOWING: HORIZONTAL--MARYLAND COORDINATE SYSTEM (STATE PLANE GRID) BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83); NATIONAL GEODOTIC VERTICAL DATUM OF 1929 (NG VD 29).
- 9) TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 10) IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO ARRANGE FOR THE ADJUSTMENT OR RELOCATION OF ALL UTILITIES.
- 11) ALL UNSUITABLE MATERIAL MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER, THE DPW&T INSPECTOR, AND/OR THE DEPARTMENT'S ENGINEER.
- 12) EXCAVATION AND PLACEMENT OF FILL MATERIAL SHALL BE PERFORMED UNDER THE SUPERVISION OF A MARYLAND-LICENSED ENGINEER.
- 13) THE PERMITTEE WILL BE REQUIRED TO FURNISH COMPACTION REPORTS CERTIFIED BY A MARYLAND-LICENSED ENGINEER ON EACH LAYER OF FILL MATERIAL PRIOR TO PLACING SUBSEQUENT LAYERS.
- 14) DURING THE PLACEMENT OF A STANDARD PAVEMENT SECTION, NO PAVEMENT COURSE OR STONE LIFT SHALL BE PLACED UNTIL THE UNDERLYING COURSE OR SUBGRADE IS APPROVED BY THE DPW&T INSPECTOR. THE APPROVAL SHALL EXPIRE IF TRAFFIC OR INCLEMENT WEATHER AFFECTS THE SITE PRIOR TO PAVING.
- 15) AS SOON AS THE ASPHALT BASE COURSE IS APPROVED, THE INTERMEDIATE ASPHALT COURSE SHALL BE PLACED IMMEDIATELY OVER IT TO FORM A PROTECTIVE SEAL.
- 16) TEMPORARY STREET NAME SIGN INSTALLATION AND MAINTENANCE IS THE OBLIGATION OF THE PERMITTEE ONCE BASE PAVING IS COMPLETED.
- 17) WHERE ROADWAY CONSTRUCTION IS ON OR IN THE VICINITY OF AN EXISTING ROAD, IN-KIND PAVEMENT MARKING AND STRIPING REPLACEMENT (E.G., THERMOPLASTIC, PAINTED, ETC.) ARE REQUIRED. ALSO, APPROPRIATE PAVEMENT MARKING AND STRIPING SHALL BE PROVIDED IN THE AREA OF PAVEMENT WIDENING AND/OR RECONSTRUCTION AND/OR OVERLAY OF AN EXISTING ROAD.
- 18) SAW CUT AND MILL A 2-INCH DEEP, 10-FOOT-WIDE NOTCH AT EXISTING EDGE OF PAVEMENT WHERE IT IS NECESSARY TO CONNECT TO OR TO EXTEND AN EXISTING ROAD. OVERLAY AT POINT OF TIE-IN TO ENSURE A SMOOTH TRANSITION AND POSITIVE DRAINAGE.
- 19) WHERE IT IS NECESSARY TO WIDEN AN EXISTING ROAD, AND MILLING AND OVERLAY REQUIREMENTS HAVE BEEN WAIVED OR REDUCED, THE WIDENING AND THE EDGE TREATMENT OF EXISTING ROAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARD NO. 300.20 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- 20) ALL RESIDENTIAL ROADWAY FILLET RADII SHALL BE AT LEAST 37 FEET, UNLESS OTHERWISE NOTED. ROADWAYS WITH HIGHER CLASSIFICATION REQUIRE 45 FEET AND/OR 50 FEET RADII.
- 21) AN UNDERDRAIN SYSTEM IS REQUIRED FOR THE FULL LENGTH OF ALL PROPOSED AND MODIFIED ROADWAYS, ON BOTH SIDES, AND TO THE LIMITS OF THE PERMIT SHOWN ON THIS PLAN.
- 22) ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARDS NO. 300.01 THROUGH 300.04 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- 23) BRICK CHANNELIZATION IS REQUIRED IN ALL PUBLIC DPW&T STORM DRAIN STRUCTURES. CONCRETE CHANNELIZATION IS NOT ALLOWED.
- 24) POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE AREA COVERED BY THIS PERMIT AND THROUGH ADJACENT PROPERTY FRONTAGES.
- 25) ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SODDED.
- 26) ALL SIDEWALK RAMPS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARDS 300.05 THROUGH 300.10 AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF THE AMERICANS WITH DISABILITIES ACT.

27) ALL SIDEWALKS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DPW&T STANDARDS AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF AMERICANS WITH DISABILITIES ACT.

28) ALL SIDEWALKS (EXCEPT AS NOTED HEREIN) ARE TO BE CONSTRUCTED BY THE SITE DEVELOPER.

29) SIDEWALKS ALONG FRONTAGES OF OPEN-SPACE PARCELS AND THOSE NOT COVERED BY A SINGLE-FAMILY BUILDING PERMIT SHALL BE CONSTRUCTED UNDER THIS STREET CONSTRUCTION PERMIT.

30) THE WIDTH OF A RESIDENTIAL DRIVEWAY APRON AT THE PROPERTY LINE SHALL NOT BE LESS THAN THE WIDTH OF THE ON-SITE PARKING PAD AT ITS WIDEST POINT, A MAXIMUM WIDTH OF 20 FEET, AND A MINIMUM WIDTH OF 10 FEET. A RESIDENTIAL DRIVEWAY APRON FLARE SHALL NOT BE CONSTRUCTED CLOSER THAN 3.5 FEET TO THE NEAREST ABUTTING PROPERTY LINE.

31) ALL DRIVEWAY APRONS ARE TO BE CONSTRUCTED BY THE SITE DEVELOPER.

32) ENSURE THAT STREET TREES ARE NO CLOSER THAN 1 FOOT TO THE RIGHT-OF-WAY LINE, IN AN OPEN SPACE SECTION CONFIGURATION, AND NO CLOSER THAN 15 FEET FROM STREET LIGHT OR POLE, AND OF APPROPRIATE HEIGHT SO AS NOT TO INTERFERE WITH EXISTING OR PROPOSED OVERHEAD UTILITY LINES. ALL STREETSCAPE PLANTING SHALL BE IN ACCORDANCE WITH DPW&T STANDARDS 600.01 THROUGH 600.20 UNLESS DIRECTED OTHERWISE BY THE DEPARTMENT.

33) PAVEMENT QUALITY CONTROL AND CORING WILL BE REQUIRED OF THE PERMITTEE FOR ALL PAVEMENT COURSES USING THE FOLLOWING PROCESS:

- a) PRIOR TO PAVING, PERMITTEE/PAVING CONTRACTOR SHALL ELECTRONICALLY NOTIFY INSPECTOR OF PAVING DATES (FAX CAN OCCASIONALLY BE ACCEPTED), AND PROVIDE INFORMATION NEEDED FOR CORE TESTING REQUEST (CTR FORM #1). DPW&T INSPECTOR FILLS OUT THE CTR FORM THEN SENDS IT TO THE MATERIALS LAB.
- b) CONTRACTORS, WHO ARE NEW TO THE MATERIALS LAB, SHALL ELECTRONICALLY SUBMIT QC PLANS TO IT, AND ARRANGE TO BE INITIATED BY IT PRIOR TO PAVING.
- c) THE PERMITTEE/PAVING CONTRACTOR MUST PROVIDE A MD-CERTIFIED FIELD TECHNICIAN FOR DAILY QUALITY CONTROL (QC) TESTING DURING THE ENTIRE PAVING OPERATION (NOT JUST ITS END). FIELD TECHNICIAN SHALL BE ADEQUATELY EQUIPPED WITH A PHONE, CALIBRATED THERMOMETER, AND A CALIBRATED THIN-LIFT DENSITY GAUGE FOR QC AND INSPECTOR-REQUESTED TESTING.
- d) HMA DENSITY GAUGES SHALL BE VALIDATED AND CALIBRATED DAILY (SHA 504.03.10. A.2), SO THEIR READINGS CAN BE ACCEPTED FOR COURSE PLACED WITH A TOTAL TONNAGE UNDER 200 TONS OR ACCEPTABLE THICKNESS UNDER 1.2' DUE TO PATCHING, WEDGE & LEVELING, BRIDGE DECKS, ... ETC.
- e) FIELD TECH. SHALL CALL THE MATERIALS LAB WITH DATE & TIME OF CORE CUTTING SO IT CAN BE WITNESSED, AND CORES & HMA SAMPLES CAN BE RECEIVED ON SITE BY A LAB INSPECTOR.
- f) INSPECTOR RANDOMLY SELECTS & MARKS CORE LOCATIONS IN THE FIELD. NOTES THEM DOWN ON THE CTR STATING STREET'S NAME AND ADDRESS, LOT #, STA #, OR DISTANCE FROM NEAREST INTERSECTION; THEN FAXES THE CTR AGAIN TO THE LAB, AND GIVES TO FIELD TECH BOXES FOR ONLY PR. GEORGE'S COUNTY HMA SAMPLES.
- g) FIELD TECH. SHALL CHECK DELIVERY TICKETS FOR COUNTY-REQUIRED INFO, COLLECT AT LEAST ONE BEHIND-THE-PAVER HMA SAMPLE/MIX/DAY, AND CUT AT LEAST 5 CORES/MIX/DAY BUT NO LESS THAN 2 CORES FROM EACH STREET, UNLESS OTHERWISE INSTRUCTED BY AN INSPECTOR; THEN HAND OVER THE SAMPLES TO DPW&T INSPECTOR NO LATER THAN ONE (1) BUSINESS DAY FROM THE PAVING.
- h) IF, AT THE LAB'S DISCRETION, THE CORES' CUTTING IS NOT WITNESSED, CORES SHALL BE RECEIVED IN THE LAB, IN ONE BUSINESS DAY FROM PAVING, AS LONG AS THEY ARE NUMBERED AND WELL IDENTIFIED ON FORM #2 BY: PROJECT NAME, STREET NAME, CORE LOCATION, PAVING DATE, CORING DATE, MIX CODE, ... ETC. IF NOT PROPERLY IDENTIFIED, CORES WILL NOT BE ACCEPTED.
- i) IF, AT THE LAB'S DISCRETION, A BEHIND-THE-PAVER HMA SAMPLE IS NOT RECEIVED ON SITE, IT SHALL BE RECEIVED IN THE LAB ALONG WITH CERTIFIED DELIVERY TICKETS, IN ONE (1) BUSINESS DAY, AND BE IDENTIFIED BY: PROJECT NAME, SAMPLING LOCATION, PAVING DATE, & STATE MIX DESIGNATION. IF NOT PROPERLY LABELED, HMA SAMPLES WILL NOT BE ACCEPTED.
- j) IF CORES ARE TESTED AT AN INDEPENDENT THIRD PARTY'S TESTING LAB, THAT LAB MUST BE AASHTO ACCREDITED FOR SPECIFIC TESTS, AND BE INITIATED BY THE MATERIALS LAB, WHICH SHALL BE NOTIFIED (FAX CAN OCCASIONALLY BE ACCEPTED), OF THE TESTING DATE & TIME SO IT MAY WITNESS THE 3RD PARTY TESTING.
- k) CORE RESULTS SHALL BE REPORTED ON CORE ANALYSIS (FORM #2), E-MAILED1 TO MATERIALS LAB & INSPECTOR NO LATER THAN ONE BUSINESS DAY FROM TESTING (ONE DAY FROM CUTTING FOR COMPANION CORES), AND MAILED OUT TO PERMITTEE.

l. FIELD TECHNICIANS AND THIRD PARTY TESTING LABS SHALL MAINTAIN A LOG OF THEIR TEST RESULTS; RECOMMENDATIONS, AND ACTIONS TAKEN TO CORRECT THE PROBLEMS, IF ANY. THE LOG SHALL BE AVAILABLE TO DPW&T FOR REVIEW UPON ANY DPW&T INSPECTOR'S REQUEST.

34) PERMITTEE SHALL SUBMIT PROPERTY CORNER CERTIFICATIONS AND UTILIZE METAL PROPERTY MARKERS PER PRINCE GEORGE'S COUNTY CODE, SECTION 24-120, PRIOR TO ACCEPTANCE OF STREETS.

35) WASHINGTON SUBURBAN SANITARY COMMISSION 200 FOOT SHEET NO.: 211NE05

36) DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION SITE CONCEPT APPROVAL NUMBER:

37) SEDIMENT CONTROL APPROVAL NUMBER: xxx-xx

38) PRELIMINARY PLAN APPROVAL NUMBER: N/A

39) RECORD PLAT RECORDING NUMBER: N/A

40) APPROVED STREET GRADE ESTABLISHMENT INFORMATION: N/A

ORIGINAL STREET NAMEAPPROVAL NUMBER

- 41) AT THE TIME OF PERMIT RELEASE, THE FOLLOWING MINIMUM SUBMITTAL REQUIREMENTS WHERE APPLICABLE SHALL APPLY:
- WASHINGTON SUBURBAN SANITARY COMMISSION PAVING CLEARANCE CERTIFICATION;
- BITUMINOUS CONCRETE CORE CERTIFICATIONS, ALL PAVEMENT COURSES;
- PROPERTY MARKER CERTIFICATION;
- DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION LETTER APPROVING STORM DRAIN AS-BUILT;

- TREE APPROVAL AND TREE BOND POSTED, IF NECESSARY;
- STREET LIGHT PROOF OF PAYMENT (MUST BE ACCOMPANIED BY A MEMORANDUM FROM DPW&T'S TRAFFIC SAFETY DIVISION ACCEPTING THE PROOF OF PAYMENT); AND
- PROOF/STATEMENT THAT ALL FINANCIAL MATTERS HAVE BEEN SETTLED.

42) THE PERMITTEE IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TRAFFIC SIGNS, TRAFFIC SIGNALS, AND ROADWAY MARKINGS FOR ROADWAY IMPROVEMENTS ON SUBDIVISION ACCESS ROADS WHICH INCLUDE ARTERIAL, COLLECTOR, INDUSTRIAL, AND ANY NECESSARY OFFSITE CONDITIONS WHICH REQUIRE ROADWAY IMPROVEMENTS. THE DESIGN AND/OR CONSTRUCTION DRAWINGS SHALL BE INCLUDED ALONG WITH THE PERMIT PLANS, AND SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT'S TRAFFIC SAFETY DIVISION PRIOR TO PERMIT ISSUANCE.

43) THE PERMITTEE IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TRAFFIC MARKINGS, TRAFFIC SIGNALS, IF REQUIRED, AND PAYMENT OF FEE FOR STREET NAME SIGNS ON INTERNAL SUBDIVISION STREETS. TRAFFIC SIGNS WILL BE FURNISHED AND INSTALLED BY THE COUNTY.

44) ALL CONCRETE PIPE SYSTEMS 48 INCHES OR LESS SHALL BE INSPECTED WITH A VIDEO CAMERA AS PART OF THE FINAL "AS BUILT" CONSTRUCTION REQUIREMENTS.

GENERAL STORM DRAIN AND PAVING NOTES (OTHER):

1. ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER STANDARDS AND SPECIFICATIONS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES, UNLESS OTHERWISE NOTED.
2. FOR TYPES OF STRUCTURES REFER TO THE LATEST STORMWATER MANAGEMENT STANDARD DETAILS, DER (SWMSD), UNLESS OTHERWISE NOTED.
3. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCE ARE LESS THAN SPECIFIED, CONTACT THE ENGINEER, AND THE OWNER OF OTHER INVOLVED UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL STORM DRAIN PIPES MUST HAVE A MINIMUM OF 1 FOOT COVER.
5. ALL INLETS TOP SLAB FRONT FACES SHALL BE PAINTED WITH THE FOLLOWING CHESAPEAKE BAY DRAINAGE, "DON'T DUMP" (STANDARD 82.0).
6. CONTRACTORS SHALL ADJUST ALL EXISTING UTILITIES AS NEEDED TO CONSTRUCT PROPOSED ROAD IMPROVEMENTS. ADJUSTMENTS MAY INCLUDE BUT NOT LIMITED TO MANHOLE COVERS, VALVES, FIRE HYDRANTS, STORM DRAIN INLETS, STREET LIGHTS, TRAFFIC SIGNALS STRUCTURES, UTILITY POLES, SIDEWALKS, BURIED UTILITY CONDUIT AND PIPES.

Special construction requirements for work performed in the vicinity of existing water meter and pipes

1. Construction vehicles generating a load greater than aashto h20 and vibratory compaction equipment are not permitted within 10 feet clear of the existing water mains, meter, and site utility system.
2. The contractor shall submit construction vehicle specifications for all vehicles to be used closer than 10 feet clear or crossing of the existing water meter and pipes to the wssc relocations unit for wssc approval prior to commencing work over the mains.
3. Stockpiling of soil or other material is not permitted within the existing wssc easement or within 10 feet clear of the water pipes and meter.
4. The contractor shall locate and stake out the meter and existing water pipes and maintain the markers during construction. The meter and all valves shall be kept accessible during construction.
5. The contractor shall use special care while performing work in the vicinity of the water meter and pipes as any damage that is required as a result of their work in the vicinity shall be the full responsibility of the contractor.

STANDARD NOTES
43rd AVENUE CONCEPT PLAN

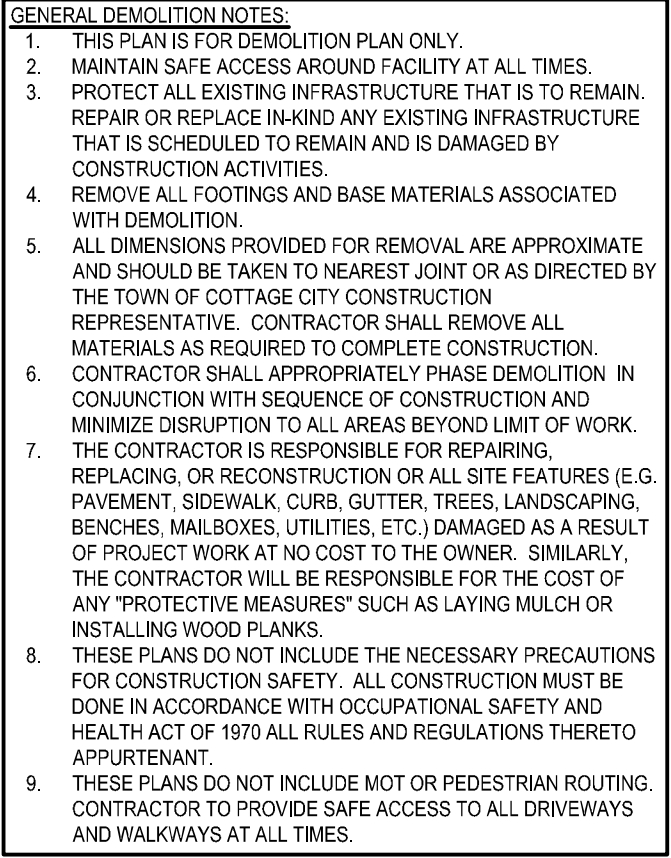
COTTAGE CITY 43rd AVENUE
COTTAGE CITY (2ND) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

CPJ Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
1751 Elton Rd., Ste. 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394
www.cpjia.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Fairfax, VA

CLIENT : TOWN OF COTTAGE CITY 3820 40TH AVENUE COTTAGE CITY, MD 20722 ATTN: CAROL RICHARDSON, TOWN MANAGER		TAX MAP/WSSC N/A		SITE PLAN NO: N/A	
DESIGN BMF		SHEET OF			
DRAFT JMN		3		10	
DATE MAR., 2024		FILE NO.:			
SCALE AS SHOWN		2020-3050			
COPYRIGHT © LATEST DATE HEREON CHARLES P. JOHNSON & ASSOCIATES, INC. ALL RIGHTS RESERVED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.					



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND THAT
I AM A FULLY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 4799
EXPIRATION DATE 4/19/2025



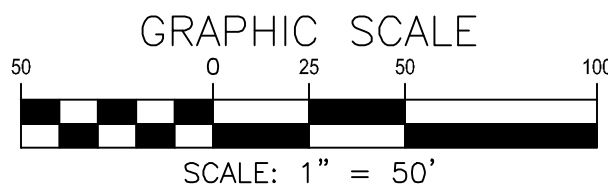
MISS UTILITY

Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work. The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation.

STATE OF MARYLAND
BRANDON M. FREEMAN
No. 38851
PROFESSIONAL ENGINEER
4/19

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.

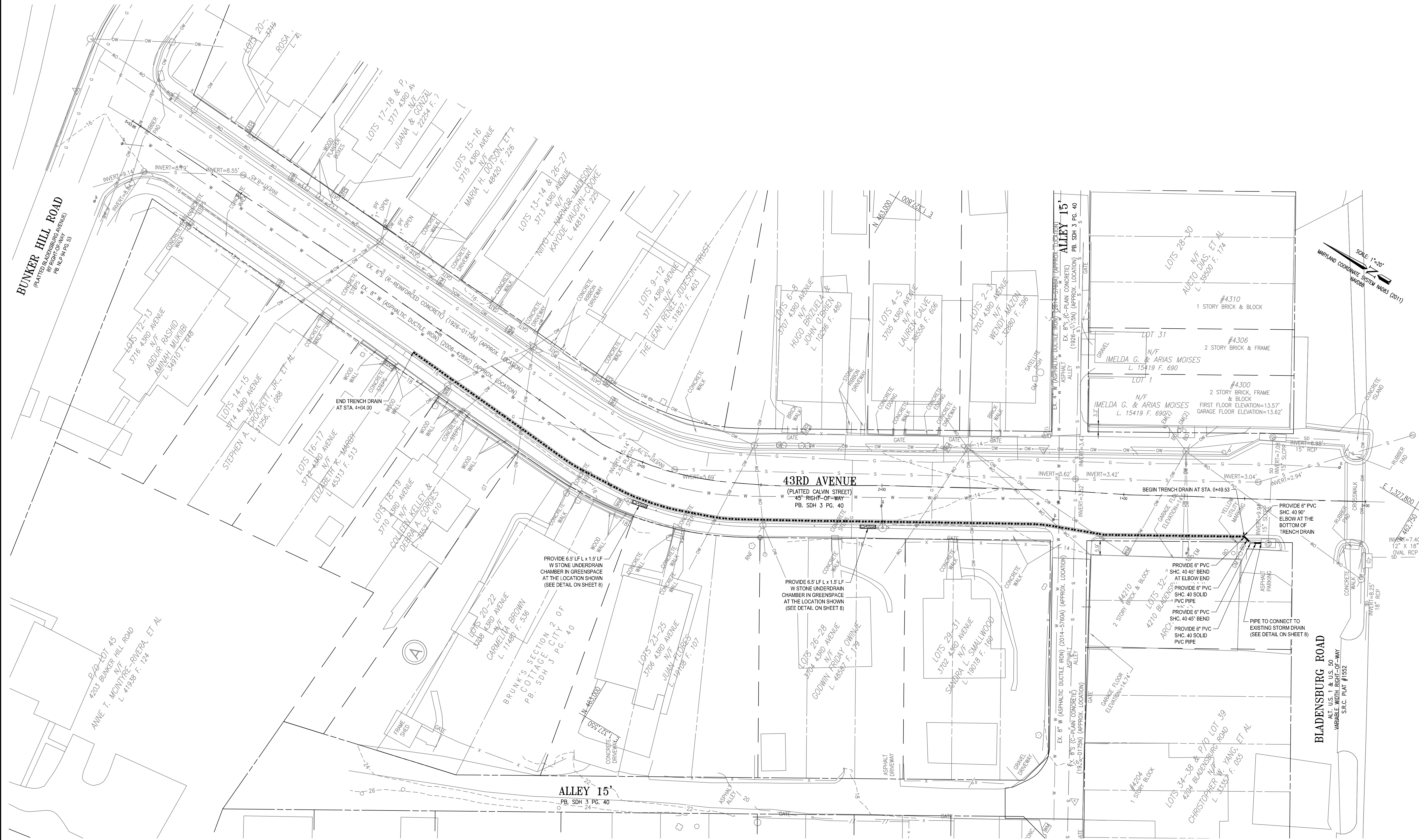
LICENSE # 38851
EXPIRATION DATE 12/31/2025



STATE OF MARYLAND
 BRANDON M. FREEMAN
 PROFESSIONAL ENGINEER
 No. 38851
 4/29/2025
 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 # 38851
 EXPIRATION DATE 12/31/2025

CPI Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
Associates
1751 Elton Rd., Ste. 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394
www.cpia.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Fairfax, VA

CLIENT : TOWN OF COTTAGE CITY 3820 40TH AVENUE COTTAGE CITY, MD 20722 ATTN: CAROL RICHARDSON, TOWN MANAGER	TAX MAP WSS/A		SITE PLAN NO:	
	N/A		N/A	
	DESIGN	BMF	SHEET	OF
	DRAFT	JMN	5	10
COPYRIGHT © LATEST DATE HEREON CHARLES P. JOHNSON & ASSOCIATES, INC. ALL RIGHTS RESERVED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.				
DATE		MAR., 2024		FILE NO:
SCALE		AS SHOWN		2020-3050



NOTES:

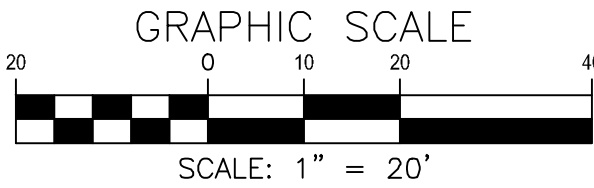
1. MATCH GRADE OF PROPOSED TRENCH DRAIN INSTALLATION WORK WITH EXISTING FEATURES, UNLESS MENTIONED OTHERWISE.
2. KEEP SIDEWALK ACCESSIBLE AND CLEAR OF TRIP HAZARDS.
3. CONTRACTOR TO PROTECT ROAD, CURB AND GUTTER, SIDEWALK AND DRIVEWAY APRON ADJACENT TO PROJECT SITE, OR REPLACE IN-KIND.

MISS UTILITY

Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work. The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation.

TRENCH DRAIN NOTES:

1. TRENCH DRAIN SHALL BE POLYDRAIN, MANUFACTURED BY ABT, INC OR APPROVED EQUAL (4" INTERNAL WIDTH). TRENCH SHALL CONSIST OF NON-SLOPING CHANNELS (ABT #091) AND SHALL BE INSTALLED SO THE TRENCH INVERT AND GRATE MATCHES THE TYPICAL LONGITUDINAL SLOPE OF THE ROAD TO PROVIDE A POSITIVE SLOPE TO THE DOWNSTREAM END.
2. TRENCH DRAIN SHALL HAVE A VERTICAL OUTLET ON THE DOWNSTREAM END WITH CONNECTION TO 6" PVC PIPE.
3. END PLATES SHALL BE PROVIDED AT UPSTREAM AND DOWNSTREAM END OF TRENCH DRAIN RUN. END OF TRENCH DRAIN RUN SHALL BE LOCATED A MINIMUM OF 4" FROM NEAREST JOINT IN CURB AND GUTTER.
4. TRENCH DRAIN SHALL INCLUDE DUCTILE IRON ANCHOR FRAME (ABT #2510AF & #2510MFAF).
5. TRENCH DRAIN GRATING SHALL BE DUCTILE IRON RATED FOR A MINIMUM OF H-20 LOADING AND SHALL BE OR LONGITUDINALLY SLOTTED (ABT #2504). GRATES SHALL SEAT INTO ANCHOR FRAME WITHOUT ROCKING AND SHALL BE LOCKED TO THE CHANNEL USING A ZINC PLATED STEEL 5/16-18 UNC BOLT AND ZINC PLATED STEEL TOGGLE BAR SYSTEM.
6. TRENCH DRAIN SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



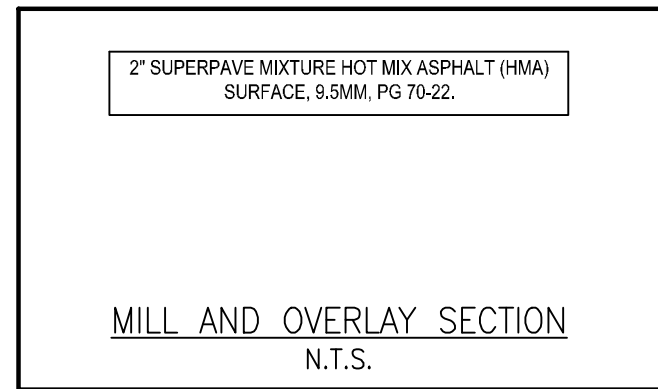
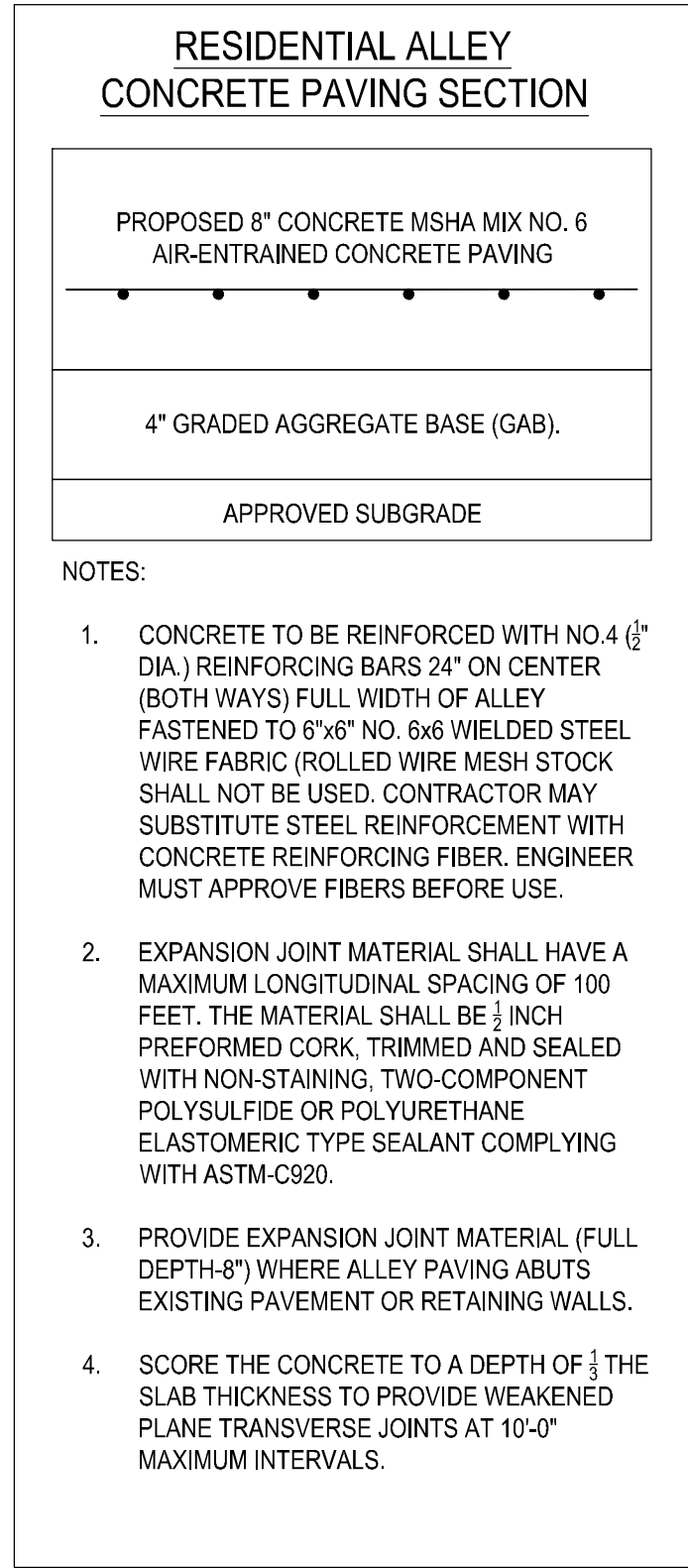
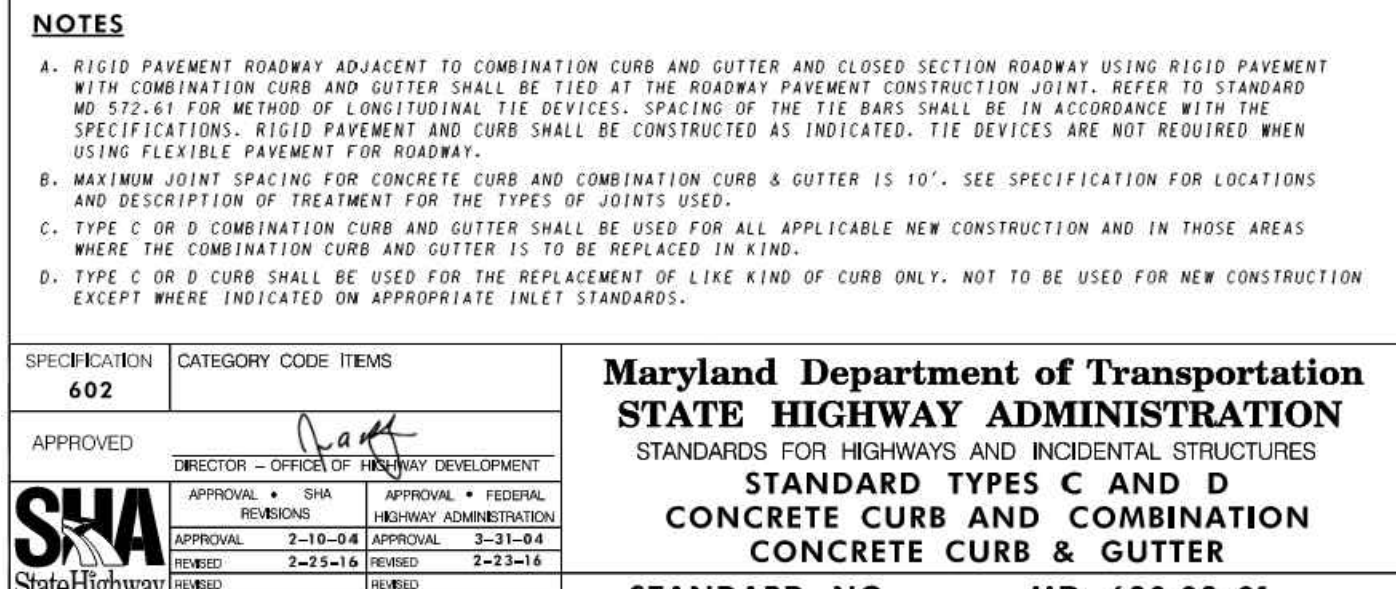
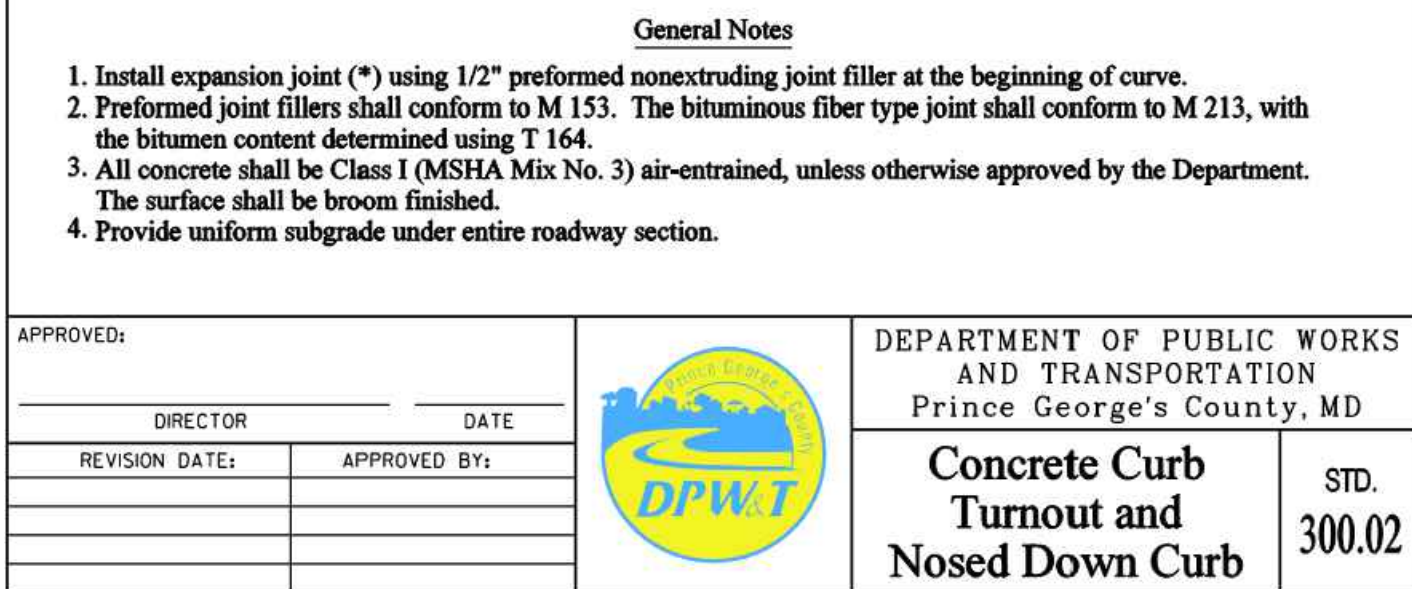
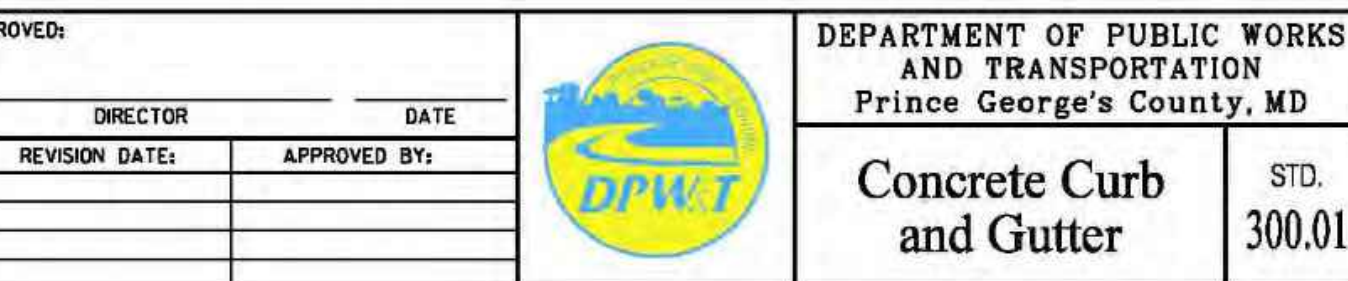
TRENCH DRAIN PLAN
43rd AVENUE CONCEPT PLAN

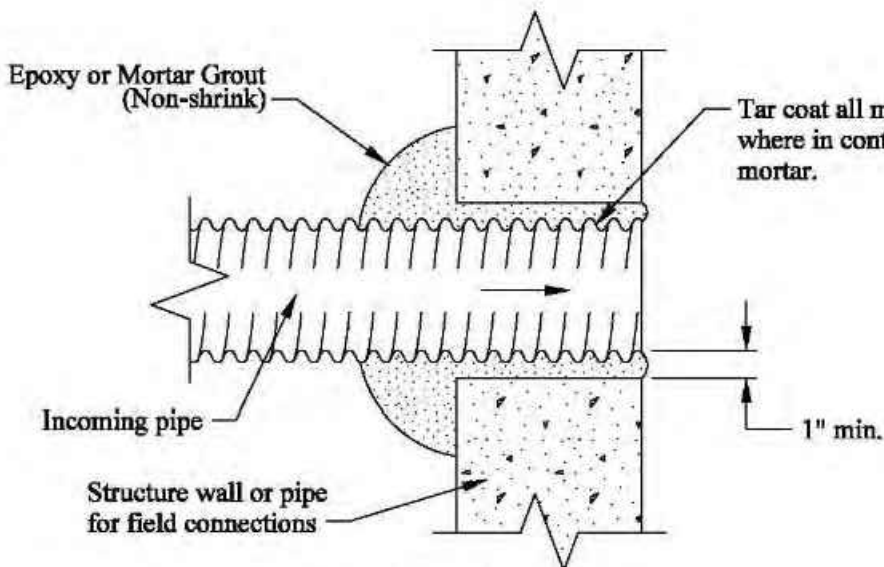
COTTAGE CITY 43rd AVENUE
COTTAGE CITY (2ND) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

CPJ Charles P. Johnson & Associates, Inc.
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors
1751 Elton Rd., Ste. 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394
www.cpja.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Fairfax, VA

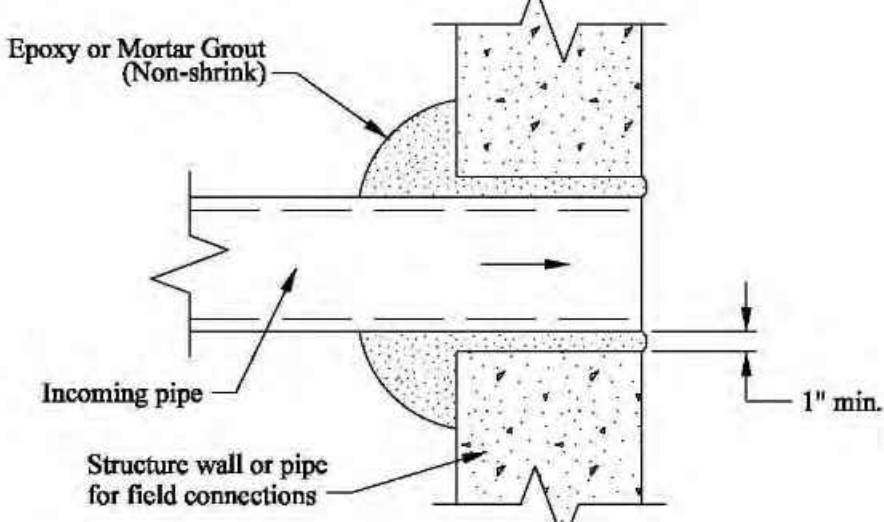
CLIENT : TOWN OF COTTAGE CITY 3830 40TH AVENUE COTTAGE CITY, MD 20722 ATTN: CAROL RICHARDSON, TOWN MANAGER		TAX MAP/WSSC N/A	SITE PLAN NO. N/A	
DESIGN BMF	SHEET 6 OF 10	DRAFT JMN	DATE MAR., 2024	FILE NO.:
SCALE AS SHOWN		SCALE AS SHOWN	2020-2050	

COPYRIGHT © LATEST DATE HERON CHARLES P. JOHNSON & ASSOCIATES, INC. ALL RIGHTS RESERVED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.





Corrugated Metal Pipe (CMP) Connection
(Minimum 6" diameter pipe)



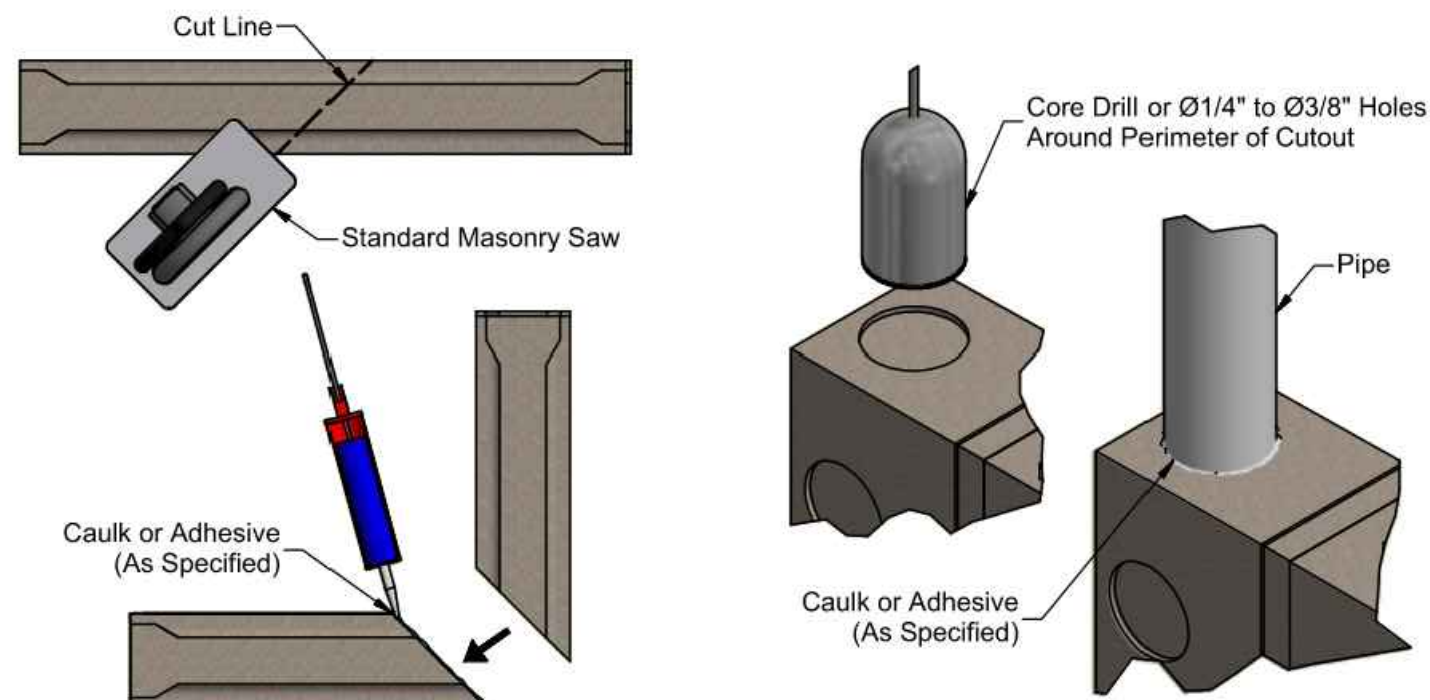
Rigid Plastic Pipe Connection
(Minimum 6" diameter pipe)

Notes:

1. Corrugated metal pipe (CMP) shall be used in roadway and shoulder area, and rigid plastic pipe outside of paved areas.
2. Grout shall be placed around pipe to form a tight fit.
3. Place bell against outside wall of storm drain pipe or structure and trim incoming pipe flush with inside wall or pipe.
4. All types of incoming pipe material must be approved by the Department.

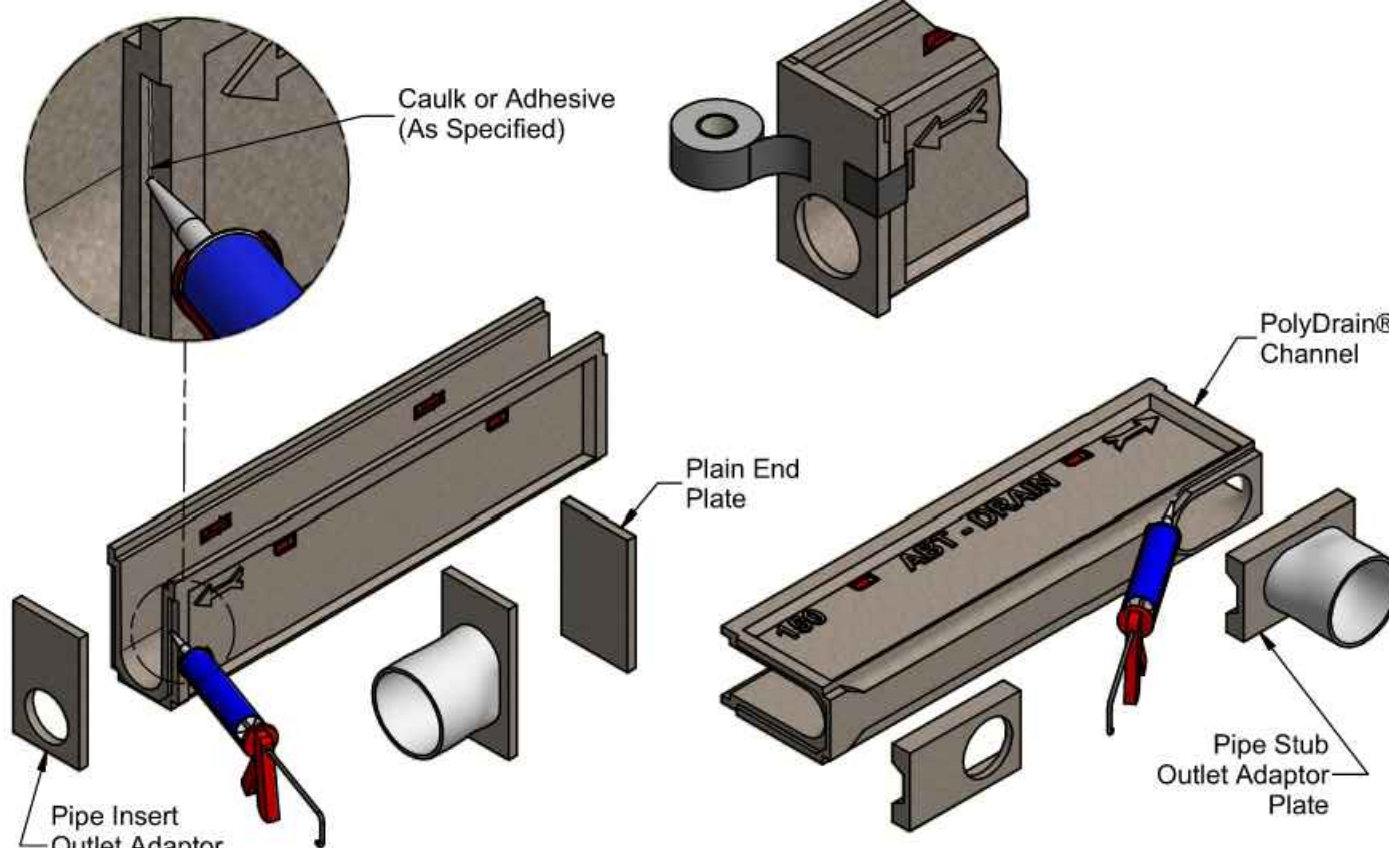
APPROVED:			DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION Prince George's County, MD	Underdrain or Yard Drain Connection to Storm Drain Structure	STD. 300.17
DIRECTOR	DATE				
REVISION DATE:	APPROVED BY:				

CHANNEL PREPARATION



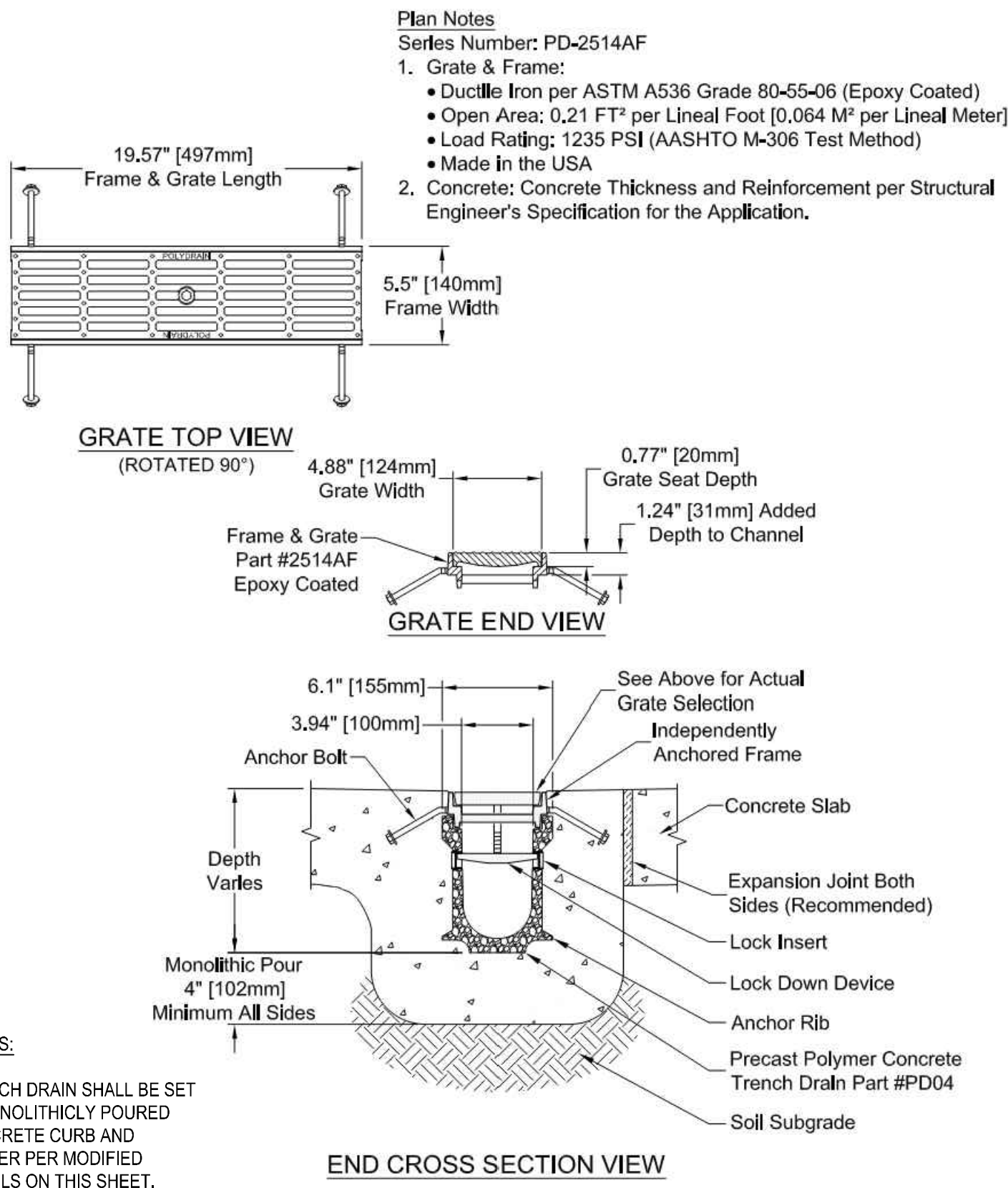
1. FORMING MITER JOINTS

2. PIPE CONNECTION / PREFORMED
CUTOUT REMOVAL



3. HORIZONTAL AND VERTICAL OUTLET/CLOSED END PLATES

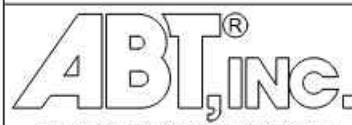
3

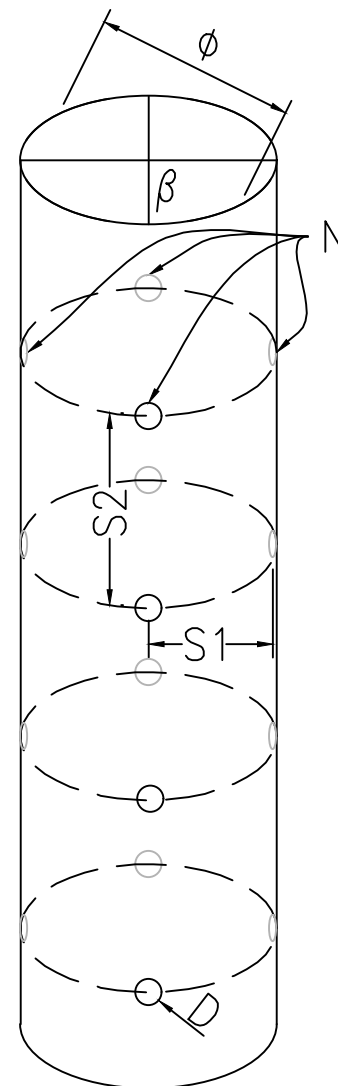


NOTES:

TRENCH DRAIN SHALL BE SET
IN MONOLITHICALLY POURED
CONCRETE CURB AND
GUTTER PER MODIFIED
DETAILS ON THIS SHEET.

Copyright © 2010 ABT, Inc.

 PolyDrain - 4" [100mm] ID Precast Trench Drain with Ductile Iron Frame & Longitudinally Slotted Grate	
SERIES:	PD-2514AF
REV:	00
Proprietary rights of ABT, Inc. are included in the information disclosed herein. The recipient, by accepting this document, agrees that neither this document nor the information disclosed herein nor any part thereof shall be copied, reproduced or transferred to others for manufacturing or for any other purpose except as specifically authorized in writing by ABT, Inc.	
DISCLAIMER: The customer and the customer's architects, engineers, consultants and other professionals are completely responsible for the selection, installation, and maintenance of any product purchased from ABT, and EXCEPT AS EXPRESSLY PROVIDED IN ABT'S STANDARD WARRANTIES, ABT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT's standard warranties are available upon request.	



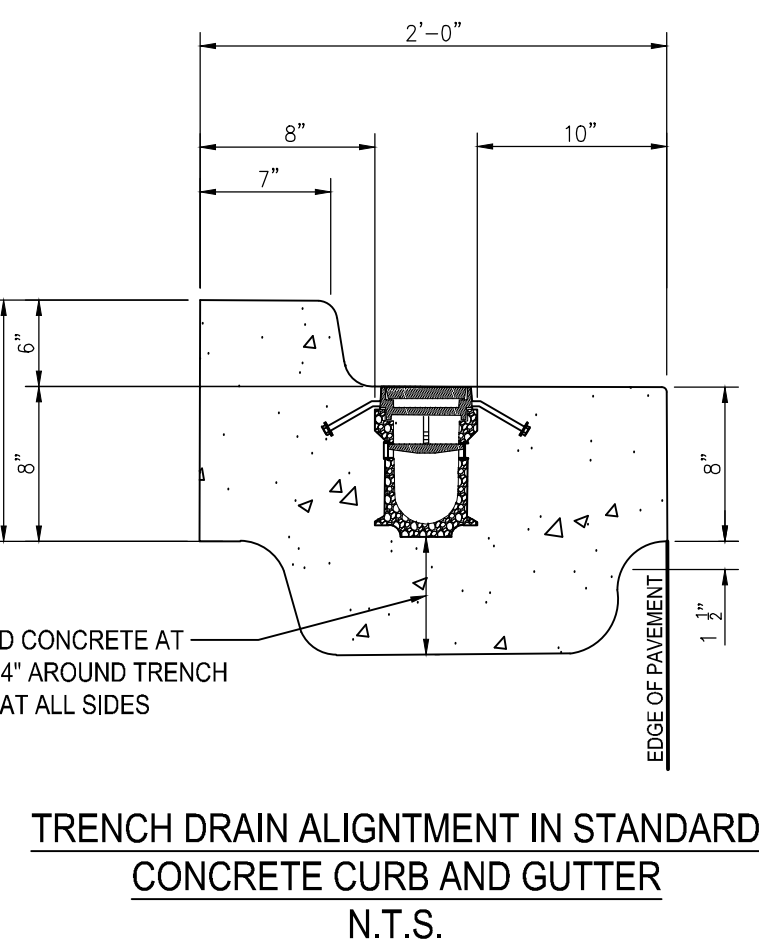
PERFORATION SCHEDULE

DIMENSION	VALUE	UNITS
N	4	EA
D	0.375	IN
S1	6.28	IN
S2	4	IN
φ	4	IN
β	90	DEGREES

PERFORATED PVC
DETAIL

PIPE SCHEDULE

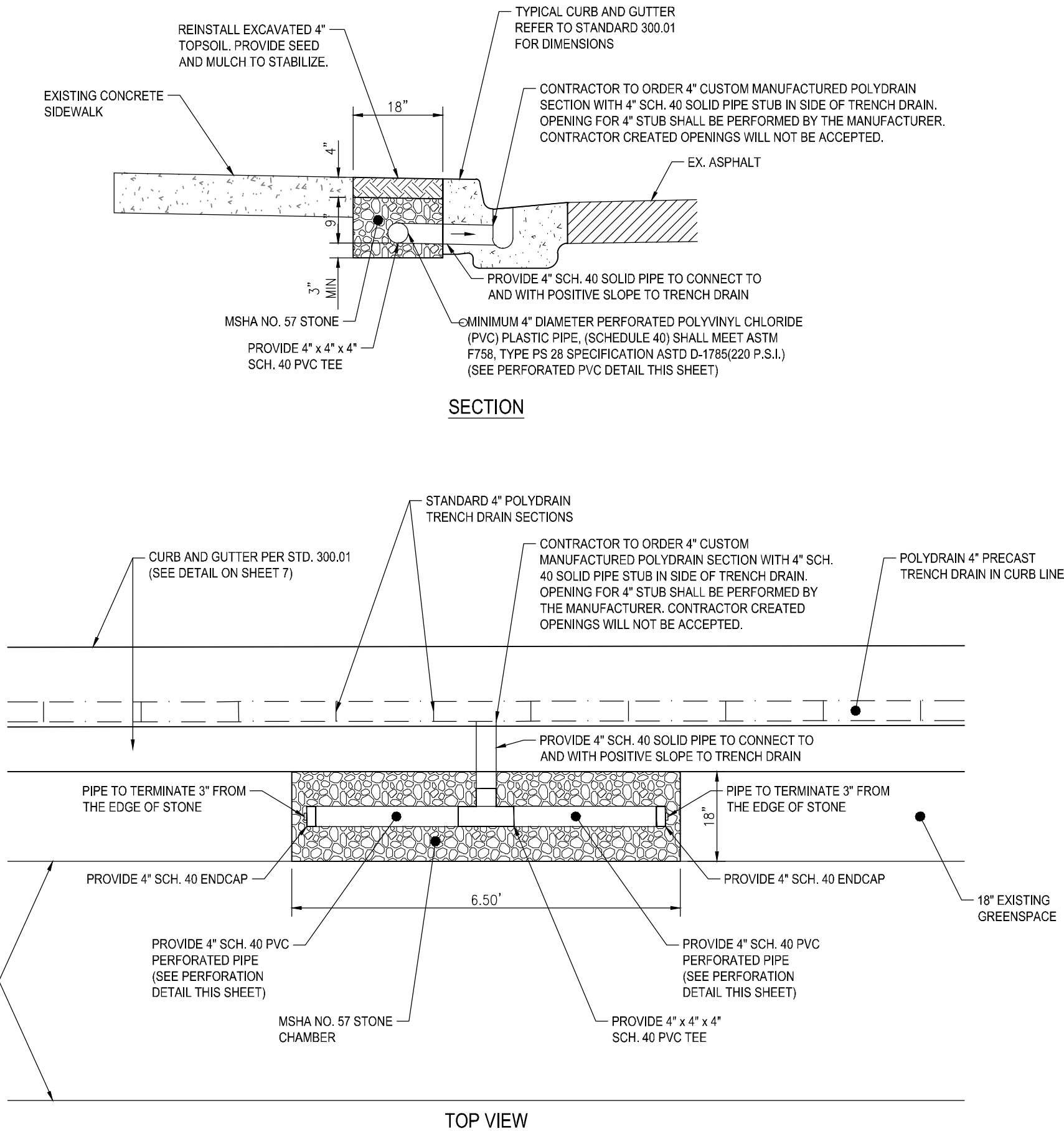
Size	Type	Length
4"	PERFORATED P.V.C. SCH.40	7
4"	SOLID P.V.C. SCH.40	2
6"	SOLID P.V.C. SCH.40	10
TOTAL=		19



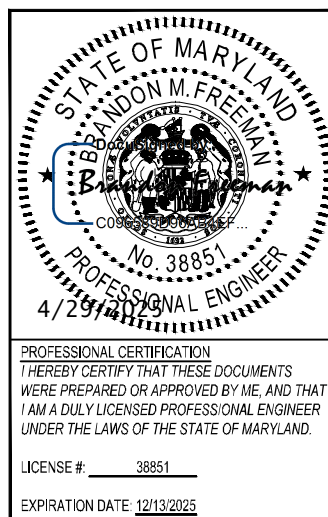
TRENCH DRAIN ALIGNMENT IN STANDARD
CONCRETE CURB AND GUTTER
N.T.S.

MISS UTILITY

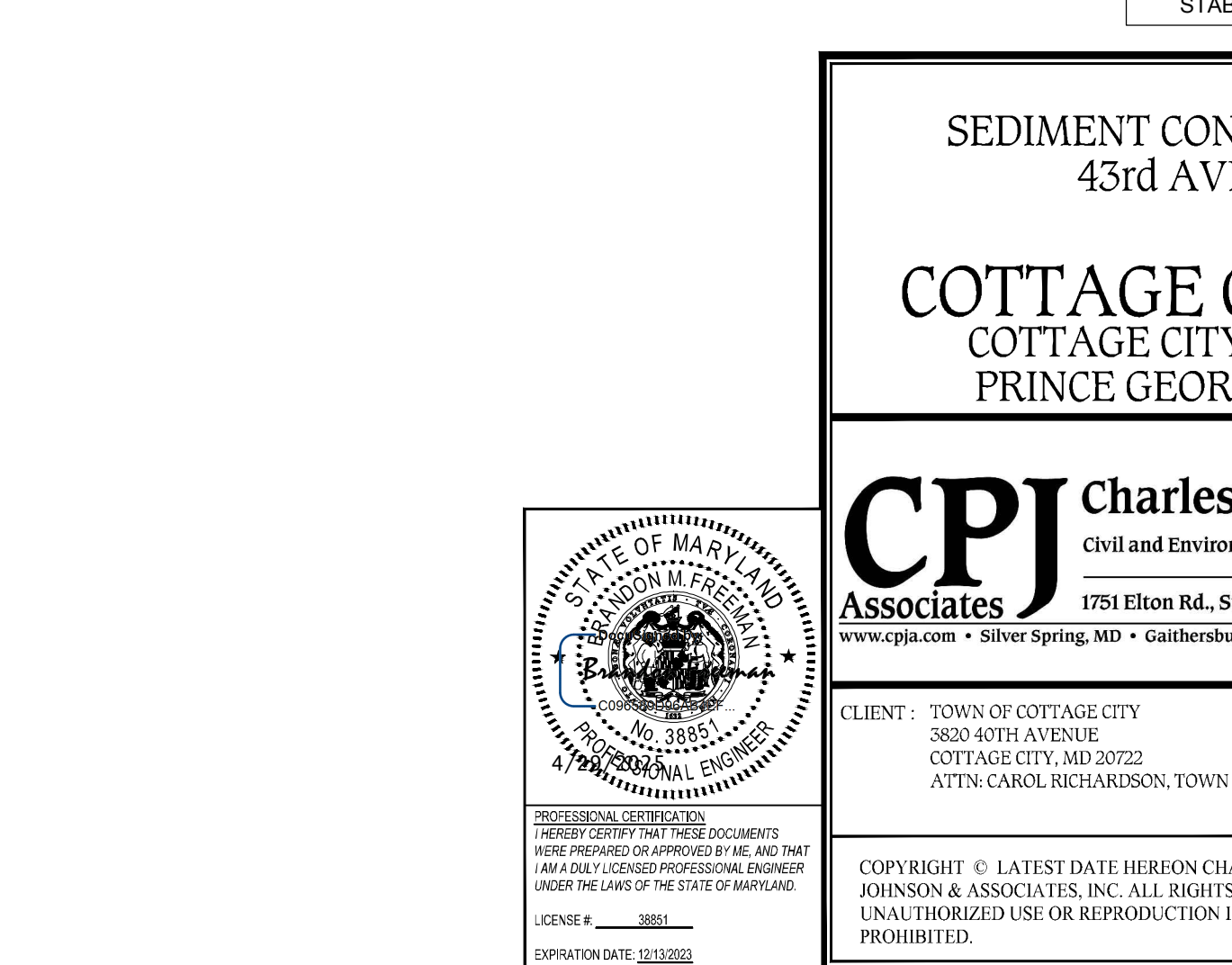
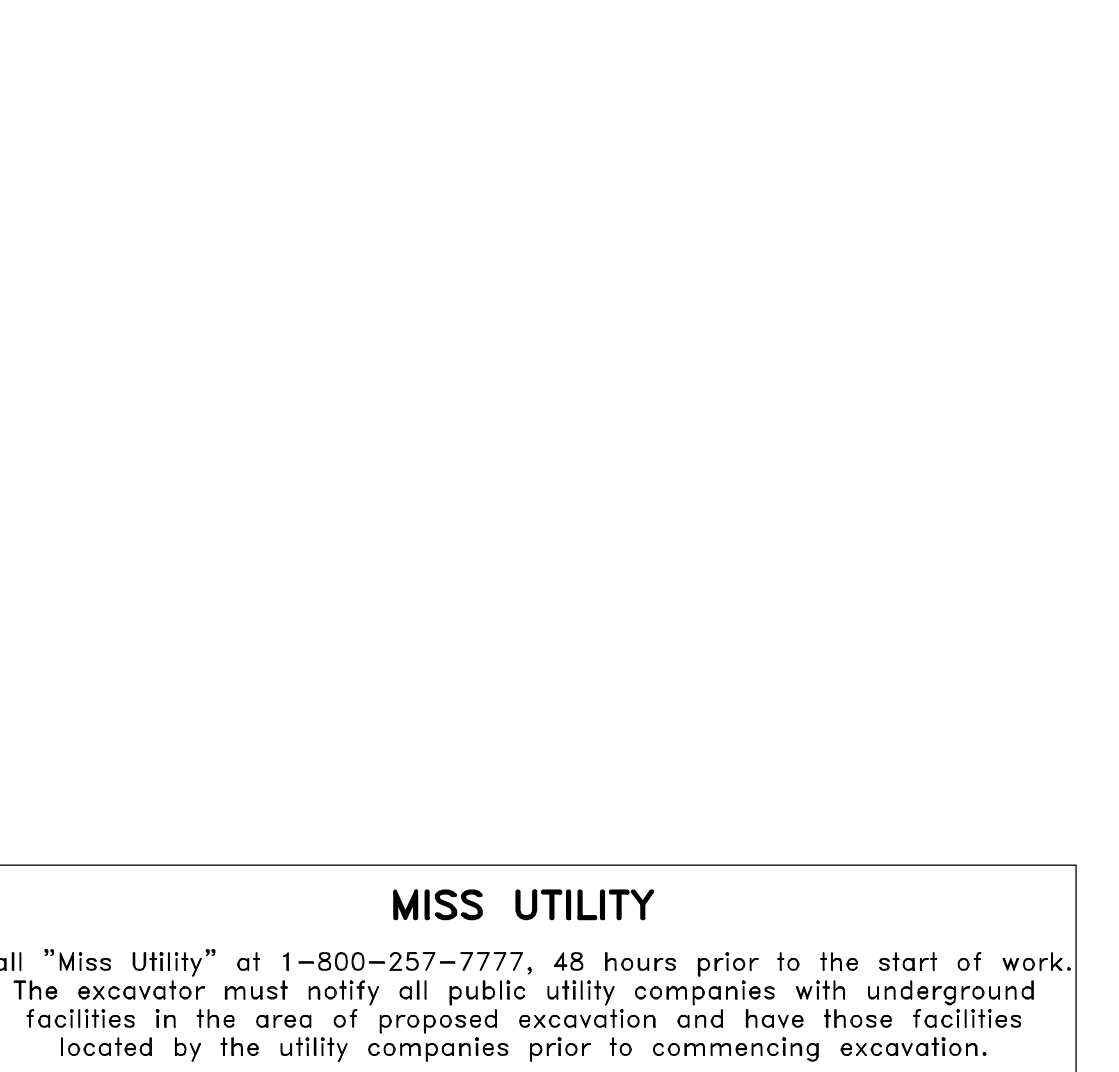
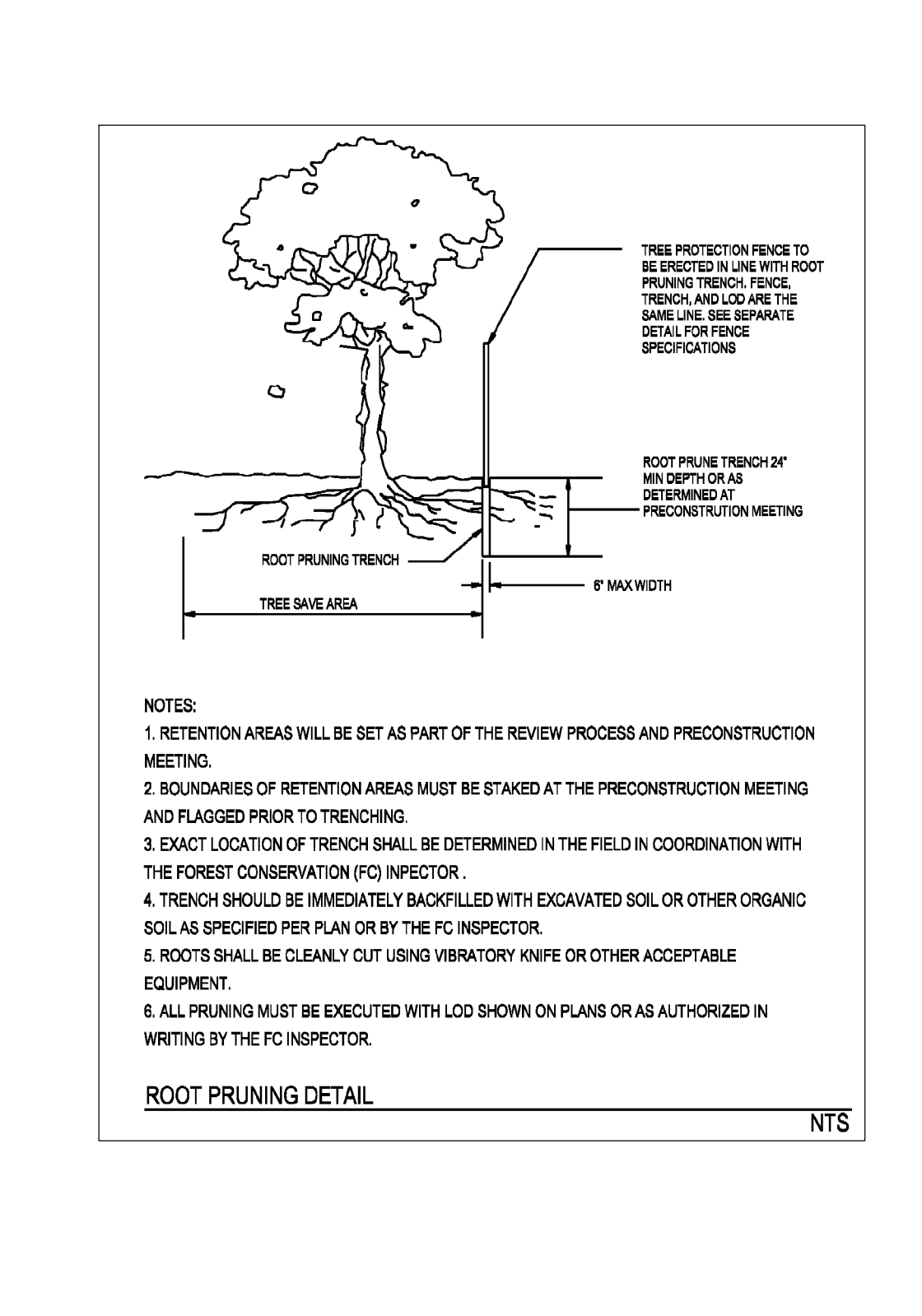
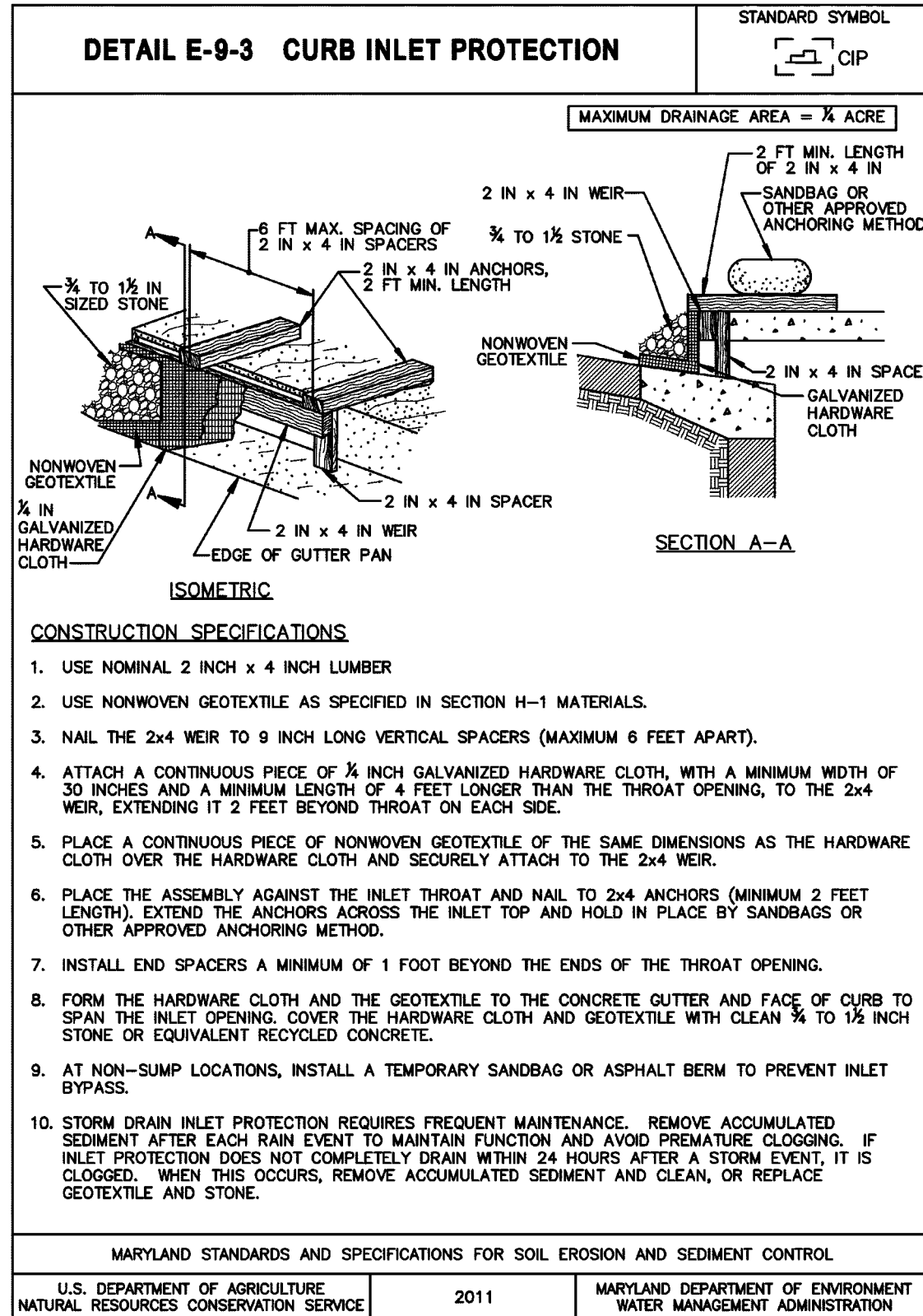
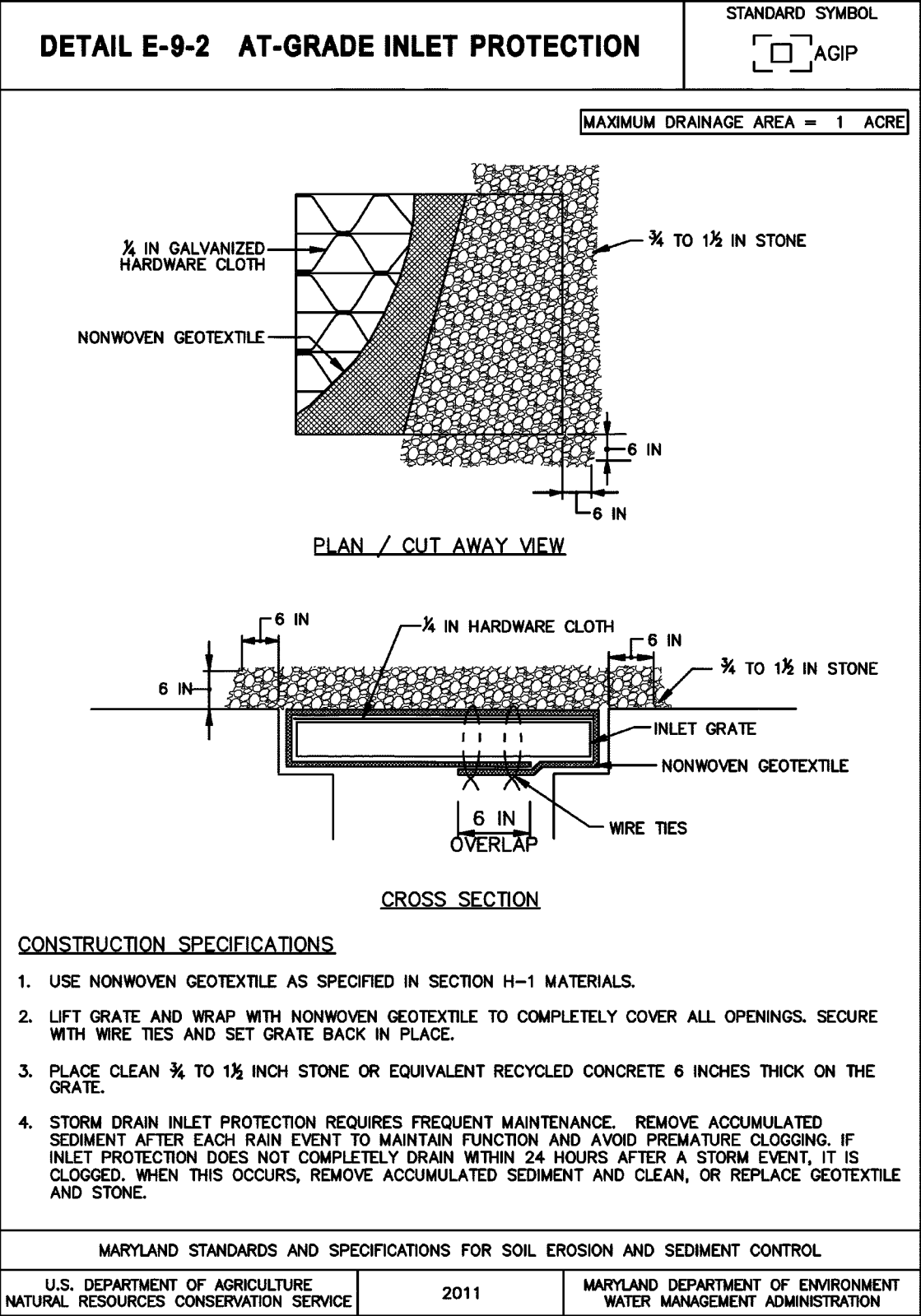
Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work.
The excavator must notify all public utility companies with underground
facilities in the area of proposed excavation and have those facilities
located by the utility companies prior to commencing excavation.



STONE CHAMBER DETAIL
N.T.S.



TRENCH DRAIN DETAILS 43rd AVENUE CONCEPT PLAN			
COTTAGE CITY 43rd AVENUE COTTAGE CITY (2ND) ELECTION DISTRICT PRINCE GEORGE'S COUNTY, MARYLAND			
 Charles P. Johnson & Associates, Inc. Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors 1751 Elton Rd., Ste. 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394 www.cpja.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Fairfax, VA			
CLIENT : TOWN OF COTTAGE CITY 3830 40TH AVENUE COTTAGE CITY, MD 20722 ATTN: CAROL RICHARDSON, TOWN MANAGER	TAX MAP/WSSC	SITE PLAN NO:	
	DESIGN	BMF	SHEET
	DRAFT	JMN	8
	DATE	MAR., 2024	FILE NO:
SCALE		AS SHOWN	2020-2050
COPYRIGHT © LATEST DATE HEREON CHARLES P. JOHNSON & ASSOCIATES, INC. ALL RIGHTS RESERVED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.			



	Description	Unit	Quantity	Unit Bid Price	Total Bid Price	Comments
Cottage City 43rd Avenue						
101-01	Clearing and Grubbing	LS	1	\$ 5,000.00	\$ 5,000.00	
104-01	Maintenance of Traffic	LS	1	\$ 25,000.00	\$ 25,000.00	
107-01	Construction Stakeout	LS	1	\$ 20,000.00	\$ 20,000.00	
108-01	Mobilization and Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00	
109-01	Critical Path Method Project Schedule	LS	1	\$ 2,000.00	\$ 2,000.00	
203-01	Earth Fill (Contingency)	LS	1	\$ 5,000.00	\$ 5,000.00	Fill to adjust alley for positive drainage.
206-01	Removal of Existing Curb and Gutter; any type	LF	1000	\$ 20.00	\$ 20,000.00	
206-02	Removal of Existing Concrete Sidewalk	CY	5	\$ 75.00	\$ 375.00	For Installation of Pipe into Existing Inlet
206-03	Removal of Existing Asphalt Pavement, Full Depth	CY	150	\$ 170.00	\$ 25,500.00	
206-04	Removal of Existing Concrete Pavement	CY	7	\$ 100.00	\$ 700.00	
306-01	6" Solid PVC Schedule 40	LF	10	\$ 16.00	\$ 160.00	
306-02	4" Perforated PVC Schedule 40	LF	10	\$ 20.00	\$ 200.00	
306-03	4" Solid PVC Schedule 40	LF	4	\$ 16.00	\$ 64.00	
306-04	Miscellaneous PVC Fittings	LS	1	\$ 2,000.00	\$ 2,000.00	
306-05	Trench Drain System - Materials & Installation	LF	365	\$ 300.00	\$ 109,500.00	
308-01	Overall Sediment Control	LS	1	\$ 5,000.00	\$ 5,000.00	inlet protection, prevent debris from leaving the site
501-01	4" Graded Aggregate Base	SY	740	\$ 5.00	\$ 3,700.00	
504-01	Hot Mix Asphalt Superpave 9.5MM for Surface; PG 64-22, 1.5 inch in depth	SY	710	\$ 8.00	\$ 5,680.00	Two Lifts
504-02	Hot Mix Asphalt Superpave 19.0 MM for Surface; PG 64-22, 3 inch in depth	SY	355	\$ 200.00	\$ 71,000.00	
504-03	Hot Mix Asphalt Superpave 9.5 MM for Base; PG 70-22, 2 inch in depth	SY	1800	\$ 200.00	\$ 360,000.00	
508-01	Milling Existing Hot Mix Asphalt Pavement and Disposal, 2 inch of depth	SY	1800	\$ 12.00	\$ 21,600.00	
520-01	Reinforced 8" Concrete MSHA Mix No. 9 (Air-Entrained Concrete Paving)	SY	385	\$ 160.00	\$ 61,600.00	Concrete Paving for 15' Alley
549-01	5" Wide Double Yellow Pavement Markings - (Non-Thermoplastic and Non-Toxic)	LF	60	\$ 3.00	\$ 180.00	
549-02	Yellow Pavement Markings (For Curb) - (Non-Thermoplastic and Non-Toxic)	LF	60	\$ 6.00	\$ 360.00	
549-03	12" Wide Solid White Pavement Marking for Crosswalk Yellow - (Thermoplastic)	LF	80	\$ 15.00	\$ 1,200.00	
549-04	24" Wide White Pavement Marking for Stop Bar - (Thermoplastic)	LF	10	\$ 23.00	\$ 230.00	
602-01	Standard Concrete Curb and Gutter, any type	LF	1360	\$ 60.00	\$ 81,600.00	
603-01	Commercial Driveway Entrance (per PG DPWT Std. 200.03)	SF	8	\$ 10.00	\$ 80.00	
603-02	Concrete Driveways Strips in Alleyway (MSHA Mix No. 3)	CY	15	\$ 160.00	\$ 2,400.00	
603-03	5 Inch Concrete Sidewalk	SF	25	\$ 10.00	\$ 250.00	
705-01	Permanent Stabilization By Seed and Mulch	LS	1	\$ 500.00	\$ 500.00	
715-01	Tree Root Pruning	LF	30	\$ 350.00	\$ 10,500.00	
1012-01	MSHA Washed No. 57 Stone	CY	2	\$ 66.00	\$ 132.00	Underdrain Chamber 5'x1.5'x0.75' Greenspace
	Cottage City 43rd Avenue SubTotal			\$ 851,511.00		
2001-01	General Allowance (10%)	LS	1	\$ 115,000.00	\$ 115,000.00	
	Grand Total			\$ 966,511.00		
This estimate is prepared as a guide only, is based upon preliminary information, and is subject to possible change. Charles P. Johnson & Associates makes no warranty, either express or implied, that actual quantities and costs will not vary from the amounts indicated and assumes no liability for such variances.						

**Cottage City - 43rd
Maintenance Project
PROJECT BID FORM**

Contractor Name: _____

	Description	Unit	Quantity	Unit Bid Price	Total Bid Price
Cottage City 43rd Avenue					
101-01	Clearing and Grubbing	LS	1		\$ -
104-01	Maintenance of Traffic	LS	1		\$ -
107-01	Construction Stakeout	LS	1		\$ -
108-01	Mobilization and Demobilization	LS	1		\$ -
109-01	Critical Path Method Project Schedule	LS	1		\$ -
203-01	Earth Fill (Contingency)	LS	1		\$ -
206-01	Removal of Existing Curb and Gutter; any type	LF	1000		\$ -
206-02	Removal of Existing Concrete Sidewalk	CY	5		\$ -
206-03	Removal of Existing Asphalt Pavement, Full Depth	CY	150		\$ -
206-04	Removal of Existing Concrete Pavement	CY	7		\$ -
306-01	6" Solid PVC Schedule 40	LF	10		\$ -
306-02	4" Perforated PVC Schedule 40	LF	10		\$ -
306-03	4" Solid PVC Schedule 40	LF	4		\$ -
306-04	Miscellaneous Polyvinyl Chloride (P.V.C.) Fittings	LS	1		\$ -
306-05	Trench Drain System - Materials & Installation	LF	365		\$ -
308-01	Overall Sediment Control	LS	1		\$ -
501-01	4" Graded Aggregate Base	SY	740		\$ -
504-01	Hot Mix Asphalt Superpave 9.5MM for Surface; PG 64-22, 1.5 inch in depth	SY	710		\$ -
504-02	Hot Mix Asphalt Superpave 19.0 MM for Surface; PG 64-22, 3 inch in depth	SY	355		\$ -
504-03	Hot Mix Asphalt Superpave 9.5 MM for Base; PG 70-22, 2 inch in depth	SY	1800		\$ -
508-01	Milling Existing Hot Mix Asphalt Pavement and Disposal, 2 inch in depth	SY	1800		\$ -
520-01	Reinforced 8" Concrete MSHA Mix No. 9 (Air-Entrained Concrete Paving)	SY	385		\$ -
549-01	5" Wide Double Yellow Pavement Markings - (Non-Thermoplastic and Non-Toxic)	LF	60		\$ -
549-02	Yellow Pavement Markings (For Curb) - (Non-Thermoplastic and Non-Toxic)	LF	60		\$ -
549-03	12" Wide Solid White Pavement Marking for Crosswalk Yellow - (Thermoplastic)	LF	80		\$ -
549-04	24" Wide White Pavement Marking for Stop Bar - (Thermoplastic)	LF	10		\$ -
602-01	Standard Concrete Curb and Gutter, any type	LF	1360		\$ -
603-01	Commercial Driveway Entrance (per PG DPWT Std. 200.03)	CY	8		\$ -
603-02	Concrete Driveways Strips in Alleyway (MSHA Mix No. 3)	CY	15		\$ -
603-03	5 Inch Concrete Sidewalk	SF	25		\$ -
705-01	Permanent Stabilization By Seed and Mulch	LS	1		\$ -
715-01	Tree Root Pruning	LF	30		\$ -
1012-01	MSHA Washed No. 57 Stone	CY	2		\$ -
Cottage City 43rd Avenue Total					\$ -

ORDINANCE 2025-02

AN ORDINANCE OF THE COTTAGE CITY COMMISSION TO ADOPT A BUDGET AND LEVY PROPERTY TAXES FOR THE 2025-2026 FISCAL YEAR

WHEREAS, Sections 38, 39, and 40 of the Charter of Cottage City requires the Cottage City Commission to adopt an annual budget containing anticipated revenues and appropriations for public purposes; and

WHEREAS, each fiscal year of the Town commences on July 1 and ends by the following June 30, pursuant to Section 38 of the Charter of the Town; and

WHEREAS, Section 39 of said Chapter, requires that before adopting the budget the Commission shall hold a public hearing thereon after two weeks' notice thereof in some newspaper or newspapers having general circulation within the municipality; and

WHEREAS, Section 46 of the Cottage City Charter provides that the Budget Ordinance shall constitute the tax levy for the fiscal year; and

WHEREAS, the Cottage City Commission enacted Ordinance 2016-06 on October 12, 2016, thereby amending the Code of the Town of Cottage City by adding Chapter 13 (Assessments and Taxation), Article 1 (Property Classification) by creating, defining, and designating certain tax classifications for residential and commercial real property situated within the Town and subject to municipal taxation, and generally relating to municipal taxation; and

WHEREAS, after several special meetings, the Commission has prepared a budget for the fiscal year beginning July 1, 2025, and ending June 30, 2026, containing anticipated revenues and proposed expenditures; and

WHEREAS, the Town of Cottage City Budget as developed by the Commission and staff, is indicated herein below; and

WHEREAS, the current Real Property Tax Rates for the Town of Cottage City were set for the Fiscal Year beginning July 1, 2024, and ending June 30, 2025, at the rate of \$0.4538 for Noncommercial Real Property, and at the rate of \$0.6735 for Commercial Real Property; and

WHEREAS, according to the State Department of Assessments and Taxation, the Town's real property net assessable base for Noncommercial Real Property and Commercial Real Property for Fiscal Year 2026 will be \$102,744,895 and \$55,845,402 respectively, and the constant yield tax rates (CYTR's) for the two classes of real property according to SDAT's certifications are \$0.4186 (noncommercial) and \$0.6158 (commercial) respectively; and

WHEREAS, Charter, Section 39 prescribes that before adopting the budget the Commission shall hold a public hearing thereon after two weeks' notice thereof in some newspaper or newspapers having general circulation within the municipality, and the Commission may insert new items or may increase or decrease the items of the budget; and

WHEREAS, pursuant to § 15 of the Town Charter, in cases of emergency, as determined by the Commission, the provision that an ordinance must be passed not less than six (6) nor more than sixty (60) days after the meeting at which it was introduced may be suspended by the affirmative votes of four members of the commission; and

WHEREAS, pursuant to § 5-205 of the LG Art. of Md. Ann. Code, a municipality may spend money for a purpose different from the purpose for which the money was appropriated or spend money not appropriated at the time of the annual levy if approved by a two-thirds vote of all the individuals elected to the legislative body; and

WHEREAS, the Cottage City Commission finds that it is more efficient and cost-effective to maintain a supplemental, detailed, line-item budget for the day-to-day management of the finances of the Town while adopting into law before the new fiscal year, as an emergency or regular measure adopted at just one or two meetings, the formal budget having the consolidated or major line items as stated herein below; and

WHEREAS, the Cottage City Commission has deemed it appropriate to adopt this budget ordinance after its introduction at a subsequent town meeting such that it will take effect upon the commencement of the next fiscal year.

NOW, THEREFORE, BE IT ORDAINED BY THE COTTAGE CITY COMMISSION, in special or regular session assembled, that the Town of Cottage City Budget containing anticipated revenues and proposed expenditures as indicated below, are hereby adopted for fiscal year 2026, beginning July 1, 2025, and ending June 30, 2026.

Section 1. The Fiscal Year 2026 Budget shall be divided into the following major anticipated revenue funds or groups having the estimated amounts as indicated below:

<u>REVENUE SOURCE</u>	<u>PROPOSED BUDGET AMOUNT</u>
Taxes	\$1,013,344
Intergovernmental	\$80,861
Fines, Charges & Misc. Fees	\$358,000
Grants	\$1,911,385
Other	\$54,800
Appropriated from Fund Balance	\$1,710,545
Total Revenues:	\$5,128,935

Section 2. The total of the anticipated revenues and any estimated fund balance available for expenditure during the fiscal year within each of the aforesaid categories of the FY 2026 Budget Ordinance shall equal or exceed the total of the proposed expenditures within the following general classification of expenditure or major appropriations having the amounts as indicated below:

<u>EXPENDITURES</u>	<u>PROPOSED BUDGET</u> <u>AMOUNT</u>
General Government	\$ 522,870
Public Works	\$ 297,749
Police Department	\$ 655,747
Grant Expenditures	\$2,084,730
Capital Outlays	\$227,200
Fund Balance to Next Year	\$1,340,639
Total Expenditures:	\$5,128,935

AND BE IT FURTHER ORDAINED that the Cottage City Real Property Tax (Noncommercial Real Property) for the Fiscal Year beginning July 1, 2025, and ending June 30, 2026, shall be at the rate of \$0.4538 per \$100.00 of assessed real property value, and such tax is hereby levied on all real property located in Cottage City that is subject to municipal taxation.

AND BE IT FURTHER ORDAINED that the Cottage City Real Property Tax (Commercial Real Property) for the Fiscal Year beginning July 1, 2025, and ending June 30, 2026, shall be at the rate of \$0.7200 per \$100.00 of assessed real property value, and such tax is hereby levied on all real property located in Cottage City that is subject to municipal taxation.

AND BE IT FURTHER ORDAINED that the Cottage City Business Personal Property Tax for the Fiscal Year beginning July 1, 2025, and ending June 30, 2026, shall be at the rate of \$1.35 per \$100.00 of assessed property value, and such tax is hereby levied on all personal and operating property located in Cottage City that is subject to municipal taxation.

AND BE IT FURTHER ORDAINED that notwithstanding this budget ordinance, the FY 2026 Budget may be presented and discussed in further detail by enumerating additional sub-categories or detailed items pertaining to either revenues or expenditures as deemed necessary and expedient by the Cottage City Commission (the "Detailed Budget"), and although not considered incorporated by reference or formally part of this FY 2026 Budget Ordinance, the Detailed Budget, unless subsequently modified by the Commission, shall reflect the various items discussed therein and shall remain substantially uniform throughout the fiscal year having essentially the same format and items as presented to the Commissioners at the Town meeting wherein the FY 2026 Budget was approved.

AND BE IT FURTHER ORDAINED that all budget amendments transferring monies between major revenue funds, line items, classifications and/or major appropriations as reflected in this FY 2026 Budget Ordinance shall be submitted to the Cottage City Commission for approval, from time to time, by ordinance, and minor budget changes or amendments, however, occurring within certain specified sub-categories or the various detailed items not reflected herein above but shown in the Detailed Budget, shall be approved from time to time by the Town Manager subject to review and approval by the Cottage City Commission as recorded in the journal of its proceedings.

AND BE IT FURTHER ORDAINED that the Town Manager shall give notice of the making of the levies and budget approval by posting a notice thereof in some public place or places in the Town.

AND BE IT FURTHER ORDAINED AND ENACTED, that a fair summary of this ordinance shall be published at least once within ten days after the date of passage in a newspaper or newspapers having general circulation in the Town.

AND BE IT FURTHER ORDAINED AND ENACTED, that the Commissioner-Chairman shall be authorized to sign this Ordinance on behalf of the Commission, and that this Ordinance shall not be codified.

INTRODUCED by the Commission of Cottage City at a Town meeting on the 12th day of June 2024, at which meeting copies were available to the public for inspection.

HAVING BEEN INTRODUCED AND HAVING BEEN READ as an ordinance and passed by a yea and nay vote of the Cottage City Commission with the affirmative votes of four members elected to the legislative body as indicated below at a Public Meeting of the Town of Cottage City held on the 14th day of May 2025, at approximately 7 o'clock p.m., in the Town Hall in Cottage City, Maryland.

ATTEST:

TOWN OF COTTAGE CITY, MARYLAND

John Hoatson, Town Manager

By: _____
Wanda Wheatley, Commission-Chair

CERTIFICATION

I, HEREBY CERTIFY, as the duly appointed Town Manager of the Town of Cottage City, Maryland, that on the ____ day of ____ 2025 with _____ Aye votes and ____ Nay votes, the aforesaid Ordinance 2025-02 passed.

John Hoatson, Town Manager

TOWN OF COTTAGE CITY FY24 PROPOSED BUDGET

Fiscal Year July 1, 2025 through June 30, 2026

Account #	Account Name	FY25 Budget
OPERATING REVENUE		
4005	RESIDENTIAL Real Estate Taxes FY25 @ 45.38 cents FY26 @ 45.38 cents	\$ 430,069
4006	COMMERCIAL Real Estate Taxes FY25 @ 67.35 cents, FY26 @ 72.00 cents	339,519
4015	Personal Property Taxes (based on a levy of \$1.35 per \$100.00 of assessed valuation)	40,000
4025	Income Taxes	105,000
4030	Highway User	54,311
4035	Fines & Forfeitures	4,000
4040	Red Light Camera Fines	300,000
4041	Speed Camera Fines	245,000
4055	Franchise Fees (Cable TV)	18,000
4065	Licenses - Town	6,000
4075	Permits	1,000
4080	County Disposal Rebate	3,440
4085	Police Aid	26,550
4095	Interest on Savings Accounts	10,000
4100	Public Works - Abatements	2,000
4102	Town Hall Rental	1,800
4106	Solar Renewable Energy Credits	6,075
4107.1	Donations	3,000
Subtotal - Operating Revenue		1,595,764
GRANT REVENUE		
41040	Bond Bill	500,000
4109	Maryland Heritage Authority (MHAA)	45,000
4110	Maryland Heritage Authority (MHT)	100,000
4112	PD Accountability Program	
4146	Community Engagement	35,000
4144	First Responder Camp/Community	10,500
4120	CDBG Grant	753,225
4130	Cable - PEG - Broadcast E	10,570
4135	Community Parks & Playgrounds	-
4141	MD DHCH - NED Grant	185,000
4144	Fed - Stormwater	670,000
Subtotal - Grant Revenue		2,309,295
4201	Appropriated from Fund Balance	1,730,000
4202	New Account Appropriated from Fund Balance-ARPA Funding	254,000
TOTAL REVENUE		\$ 5,889,059
GENERAL GOVERNMENT		
5005	Salaries	\$ 140,000
5006	Overtime	2,500
5010	Commissioner Salaries	31,400

TOWN OF COTTAGE CITY FY24 PROPOSED BUDGET
Fiscal Year July 1, 2025 through June 30, 2026

Account #	Account Name	FY25 Budget
5015	Payroll Taxes	11,200
5020	Life Insurance	4,000
5025	Health & Life Insurance	24,000
5030	Retirement Benefits	7,000
5035	Workmen's Compensation Insurance	1,700
5040	Audit Fee	12,000
5045	Bus Service	13,000
5065	Community Enhancement	
	End Time Harvest Ministries	2,000
	Cottage City Scholarship	2,500
	Anacostia Watershed Donation	1,000
	Contribution to ATHA	1,000
	Fire Department Donation	1,000
	Newsletter	-
	Green Team	1,200
	Food Pantry	5,000
	Summer Camp	900
	Subtotal	14,600
5070	Community Garden	3,500
5085	Contractual Services (Accounting)	34,000
5086	Cell Phone	1,000
5087	Codification Service	2,000
5090	Election Expenses	1,200
5100	Insurance	5,000
5107	IT Support	12,000
5115	Legal Fees	66,000
5120	Miscellaneous	1,500
5125	Membership Dues	2,400
5130	Commissioner Municipal Convention & Conf.	14,700
5135	Office Expenses	26,000
5140	Printing and Legal Ads	1,000
5150	Special Events	
	Arts & Education	2,500
	Port Towns Meeting	300
	Adult Mixer	500
	English/Spanish Classes	2,000
	Black History Month	800
	Histpanic Heritage Month	800
	Woman's History Month	800
	Native American History Month	600
	Port Towns Legislative Dinner	300
	Easter Egg Hunt	800
	PGEMW, Town-Sponsored Meeting	200
	Juneteenth	300
	Cottage City Day	12,000
	Halloween	750
	Breakfast with Santa	1,400
	July 4th Event	300
	Community Block Parties	1,000
	Refreshments	1,000
	Senior Harvest Dinner	500
	Seniors Camp	500

TOWN OF COTTAGE CITY FY24 PROPOSED BUDGET
Fiscal Year July 1, 2025 through June 30, 2026

Account #	Account Name	FY25 Budget
	Events Signage	-
	Holiday Giveaways	2,000
	Subtotal	29,350
5160	Town Communications (Newsletter, Cable Channel)	8,000
5165	Town Hall Maintenance and Repairs	12,000
5170	Town Hall Utilities	21,500
5175	Staff Training	4,000
5180	Town Admin. & Treasurer's Bond	175
5196	Website Hosting	5,200
TOTAL GENERAL GOVERNMENT		\$ 511,925
PUBLIC WORKS		
5205	Salaries:	\$ 200,000
5206	Overtime	5,000
5210	Payroll Taxes	16,000
5212	Life Insurance	1,450
5211	Health & Life Insurance	10,500
5213	Retirement Benefits	10,500
5215	Workmen's Compensation Insurance	22,000
5230	Equipment Maintenance & Operating Expenses	20,000
5232	Gasoline	8,000
5235	Highway Lighting	24,000
5237	MML & Training acct	2,000
5240	Abatements	2,000
5241	Cell Phone	500
5242	Diga Talk Handheld Radio Service	-
5260	Roadway/Sidewalk Construction, Maintenance & Supplies	7,500
5271	Maintenance	15,000
5272	Tree Maintenance	10,000
5273	Rain Garden	-
5274	Retaining Wall	-
5280	Uniforms	800
5285	Vehicle Insurance	3,500
5286	Engineering	-
5287	Truck Maintenance	5,000
5305	Dumping Fees	2,400
5315	Mosquito Control	2,300
5320	Waste Collection and Disposal	118,100
5322	Code Software	3,500
TOTAL PUBLIC WORKS		\$ 490,050
POLICE DEPARTMENT		
5405	Salaries	\$ 366,000
5406	Overtime	10,000

TOWN OF COTTAGE CITY FY24 PROPOSED BUDGET
Fiscal Year July 1, 2025 through June 30, 2026

Account #	Account Name	FY25 Budget
5415	Payroll Taxes	32,495
5420	Life Insurance	4,500
5425	Health & Life Insurance	41,000
5430	Retirement	17,500
5435	Workmen's Compensation Insurance	28,000
5440	Applicant Screening & Shots	1,000
5445	Auto Insurance	20,000
5478	Legal Fees	3,000
5485	National Night Out	1,000
5490	Office Expenses & Operating Cost	12,000
5495	Police Liability Insurance	11,500
5500	Police Supplies	2,000
5506	Police Chief Training	6,000
5505	Training	6,000
5515	Uniforms and Accessories	12,000
5520	Vehicle Operation & Maintenance	15,000
5525	Gasoline	21,500
5534	Police Community Outreach	8,000
5537	Lexipol Law Enforcement Service	4,413
5539	Silvertrac	2,160
5538	Police Explorer Program	5,000
5540	Axion Tasers	10,000
5541	In Car Camera Upgrades	2,700
5542	Lefta System	2,200
5543	Obvio	8,500
5560	Red Light Camera Program	152,000
5555	Expenses to Speed Camera Program	(180,700)
5600	Speed Camera Program	-
5600.1	Speed Camera Salaries	107,000
5600.2	Speed Camera Benefits	26,400
5600.3	Speed Camera Other Costs	35,200
5600.4	Speed Camera Vehicle Costs	12,100
5600.5	Speed Camera Vendor Fees	98,000
5600.5	Speed Camera Due to State	-
TOTAL POLICE DEPARTMENT		\$ 903,468
GRANT EXPENDITURES		
6002	MD DHCD - NED Grant	\$ 185,000
6018	Community Engagement	35,000
6014	First Responder Camp/Community	10,500
6021	Cable - Public Education Grant - (PEG) current revenue	10,570
6023	Community Parks & Playground	-
6052	BOND BILL EXPENSES FIREHOUSE	500,000
6016	Maryland Heritage Authority (MHAA)	90,000

TOWN OF COTTAGE CITY FY24 PROPOSED BUDGET
Fiscal Year July 1, 2025 through June 30, 2026

Account #	Account Name	FY25 Budget
6017	Maryland Historical Trust (MHT)	100,000
6010	Fed-Stormwater	670,000
6010	CDBG Grant	753,225
Subtotal Grants		\$ 2,354,295
6054	ARPA GRANT EXPENSE	
6054.1	FAMILY RELIEF PROGRAM	30,000
6054.7	Grant Writer Salary	65,000
6054.8	Grant Writer Fringe	24,250
6054.13	ARPA Resident Tree Program	-
6054.15	ARPA Food Bank	15,000
Subtotal ARPA Grants		\$ 134,250
TOTAL GRANT EXPENDITURES		\$ 2,488,545
CAPITAL OUTLAYS		
6505	Capital Equipment	\$ 11,000
6507	Town Hall Improvements	26,000
6509	Purchase - 3813 Cottage Terrace	-
6511	Maryland Heritage Authority Match (MHAA)	90,000
6512	Maryland Historical Trust Match (MHT)	100,000
Subtotal General Government		227,000
PUBLIC WORKS		
6606	Facility Maintenance	7,500
6607	PW New Equipment	11,000
6615	Street Maintenance	12,500
Subtotal Public Works		31,000
POLICE DEPARTMENT		
6701	Capital Outlays - Police Dept	18,200
TOTAL CAPITAL OUTLAYS		276,200
Fund Balance to Next Year		
7000	Fund Balance Carryover	-
GRAND TOTAL EXPENDITURES		4,670,188
Change in Fund Balance		1,218,871
TOTAL EXPENDITURES AND FUND BALANCE CARRYOVER		5,889,059