

PROPOSAL FORM
BALTIMORE COUNTY
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
TOWSON, MARYLAND

Division of Construction Contracts Administration



Contract No. 22171 WX0

Water Design Project

Hospital Drive & Lennings Lane 8" & 12" Water Main Replacement

Rosedale – District 14c6

Project No.

030670732

CONTRACT BASED ON FEBRUARY 2000

STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS

AND STANDARD DETAILS FOR CONSTRUCTION, 2007

Bidders Information

Pre-bid Meeting: Wednesday, August 30, 2023 @ 10:30 A.M. EST. via WebEx PH. 1-415-655-0001, Access Code 2315 755 6432. **This meeting will cover only Wage Rates & MBE. No project questions will be discussed.**

Prevailing Wage and Local Hiring Requirements **see pages 243-252**

(Contract Disclosure): *“Wage rates that are in effect as of the contract solicitation date will be the wage rates through the duration of the project”*

MBE/WBE Requirements & Forms **see pages 253-273**

THIS PROPOSAL FORM INCLUDES AND INCORPORATES ALL DOCUMENTS AND INFORMATION REFLECTED, LISTED, AND/OR REFERENCED IN THIS TABLE OF CONTENTS, AND ALL SUCH DOCUMENTS AND INFORMATION ARE PART OF AND INCORPORATED INTO THE CONTRACT DOCUMENTS.

TABLE OF CONTENTS

<u>Section Number</u>	<u>SECTION NAME</u>	<u>Page Number</u>
	Title Page (cover)	1
	Table of Contents	2
I.	INFORMATION FOR BIDDERS	3-6
II.	INTERIM SUPPLEMENTARY SPECIFICATIONS	7-145
III.	SPECIAL PROVISIONS	146-224
	Bidder Protest and Appeal.....	(147)
	Project Sign.....	(224)
IV.	PERMITS	225
	Grading.....	226-227
V.	PROPOSAL (This section to be completed at time of bid)	228
	Description of Work	229
	Description of Items & Schedule of Prices	230-235
	Proposal Affidavit	236-241
	Bid Bond	242
	Prevailing Wage and Local Hiring Requirements.....	243-252
	MBE/WBE Requirements & Forms	253-273
VI.	POST AWARD DOCUMENTS (This Section to be completed by successful bidder after award)	274
	Contract Agreement	275-277
	Performance Bond	278
	Payment Bond	279
	Insurance Documents	280

SECTION I

INFORMATION FOR BIDDERS

ELECTRONIC SUBMITTAL PROCESS

To be considered, Bids (Section V – Proposal) shall be received by the bid closing date and time to the following email address dpwbid@baltimorecountymd.gov. The contract number and company name should be referenced in the Subject Line of the email. Bids may not be submitted by any other means. Bids that are mailed or otherwise delivered to the Purchasing Division (including emails which indicate links to locations where the bid may be downloaded) and/or emails sent to any other Baltimore County email address will not be accepted.

Late Bids will not be considered. Bidders are strongly encouraged not to wait until the last minute to submit bids. The time stated on the auto-receipt (described below) will be definitive of the time of receipt. Bids received after the deadline will not be accepted. Bidders are advised that the County cannot receive email attachments greater in size than twenty-five (25) megabytes and this size limitation may be further reduced by requirements of the Bidder's email provider which are beyond the control of the County. Bidder should consider separating any large bid attachment into multiple parts and emailing each part separately. In such case, Bidder will note that each email is *1 of 2, 2 of 2*, etc. Multiple part bids will not be considered unless all parts are received by the bid closing date and time.

After submitting a Bid to dpwbid@baltimorecountymd.gov, and upon successful receipt by the County thereof, Bidder will receive an auto-receipt email. This receipt is proof that the bid has been received by the Division of Construction Contracts Administration and should be retained for Bidder's records. In the case of a bid submitted in multiple parts as described above, an auto-receipt email will be generated for each part. The County has no obligation to consider any Bid for which an auto-receipt was not generated.

As with any system, power outages or technology problems may arise that are outside of the County's control and could affect your submission. The County will not be held accountable for such issues that may delay the transmission of any Bid.

NOTE: Electronic copy of the Bid Bond will be accepted at bid opening. The apparent low bidder is required to submit the original Bid Bond within ten (10) days after the bid opening to the Division of Construction Contracts Administration, 111 West Chesapeake Avenue, Room 300B, Towson, Maryland 21204.

INSTRUCTIONS AND SPECIFICATIONS

Refer to the enclosed proposal sheets for quantities to be bid upon. All proposals submitted on the attached form must give the price in clear figures for each item of the proposed work and be signed by the bidder with his name and address. Bidders must not change any item in the proposal for which a price has been stipulated by the County. Any change will cause rejection of the proposal.

NOTE: STATEMENT UNDER OATH FORM TO ACCOMPANY BID as per Baltimore County Purchasing Act 65-98, Section 15-94 and 15-95 which requires that the enclosed affidavit (see Proposal Affidavit pages in Section V) be completed and submitted as part of the sealed bid.

Proposals made on any other than the attached form will not be considered. All papers included in, bound thereto, or attached to the Proposal Form are necessary parts thereof and shall not be detached, separated, or altered in their intent.

Changes in the phraseology of the proposal, additions, or limiting provisions will render the proposal informal or void and may cause its rejection.

All right is hereby reserved by the Purchasing Agent to reject any or all proposals and to waive formalities and technicalities as the interest of the County may require.

No successful bidder may withdraw his bid within Ninety (90) days after the opening thereof.

The successful bidder will be required to be bonded to Baltimore County, Maryland to the sum of One Hundred per Cent (100%) of the amount of his proposal or proposals according to the form of bond hereto attached for projects in excess of \$25,000.00.

This Proposal must be accompanied by a Bid Bond in an amount of 5% of the bid, the exact amount to be determined by the difference between the low bid and the next lowest bid if two or more bids are received, or 5% of the bid if one bid is received. This guarantees payment of the amount thus determined in case of a default in any matter specified as required before award or in any matter resulting in failure to execute and deliver an Agreement, together with Payment and Performance Bonds, after award. The Bid Bond must be in the form accompanying the Proposal executed by a Surety licensed in the State of Maryland. The Surety must be currently rated "B" or better by the A. M. Best Company, and the bid must be in an amount less than, or equal to, the underwriting limitation contained in Department of Treasury Circular 570 as amended at the time of the underwriting.

All work to be performed under this contract shall be done under strict compliance with Baltimore County Department of Public Works February 2000 Standard Specifications for Construction and Materials and April 2007 Standard Details for Construction and any and all proposed revisions thereto as of the date of advertisement and copies of which are on file and available in the Division of Construction Contracts Administration, County Office Building, Towson, Maryland, and all of which are made a part hereof and incorporated herein (collectively, the "Specifications").

If the bidder to whom an award is made shall fail to execute the contract and bond hereto attached and as herein provided, the award may be annulled and the contract awarded to the lowest responsible bidder who has consented to a time extension, and such bidder shall fulfill every stipulation embraced herein as if he were the original party to whom the award was made, or the Purchasing Agent may reject all of the bids as the interest of the County may require.

The Bid Bond of the three lowest bidders is deemed to be effective until the execution and delivery of the Contract Agreement, together with Payment and Performance Bonds for projects in excess of \$25,000.00 or until rejection of all bids, whereupon Surety is deemed relieved of all further obligations under the bid bonds provided.

Bidders must examine the drawings and specifications carefully and must make a personal examination of the location and nature of the proposed work. In case doubt shall arise as to the meaning or intent of anything shown on the drawings or comprised in the specification, inquiry shall be made of the Director of Public Works at least five (5) days prior to the date of bid opening. The submission of the Proposal shall indicate that the bidder thoroughly understands the drawings and the terms of the Specifications.

To better insure fair competition and to permit a determination of the lowest bidder, unresponsive bids or bids obviously unbalanced may be rejected by the Purchasing Agent.

Bidders are required to fill out the total price column and total their proposals so that the result of the bidding, barring possible arithmetical errors, will be known at once. Any errors in computations will be corrected by the Engineer when the proposals are canvassed. Where the unit price and the total price are at variance, the unit price will prevail.

Bidders must be prepared to complete the work within the time stated in the proposal.

NOTE: ONLY CONTRACTORS FORMALLY PRE-QUALIFIED WITHIN THE ADVERTISED WORK CLASSIFICATION BY THE DIRECTOR OF PUBLIC WORKS OF BALTIMORE COUNTY 10 CALENDAR DAYS PRIOR TO BID OPENING WILL BE ELIGIBLE TO SUBMIT BIDS.

Contracts for work under this proposal will obligate the contractors and subcontractors not to discriminate in employment practices. Bidders must, if requested, submit a compliance report concerning their employment practices and policies in order to maintain their eligibility to receive the award of the contract. Successful bidders must be prepared to comply in all respects with the Contract Provisions regarding nondiscrimination.

Baltimore County has adopted a Minority Business Enterprise (MBE) program and Women's Business Enterprise (WBE) Program. The percentage of participation applies to the contract amount awarded to the Contractor. Qualified minority subcontractors are those certified as being a Minority Business Enterprise by the following:

1. Maryland Department of Transportation Certification Committee (MDOT)
2. City of Baltimore, Minority Business Certification Council

Projects funded by the Federal Highway Administration are limited to the certification listed under #1 (MDOT).

More detailed information regarding the County's MBE/WBE Program can be obtained from the County MBE Office, telephone (410) 887-3407. See Executive Order dated June 4, 2009. MBE/WBE Participation Summary and Forms A, B, C, D and E enclosed in this proposal booklet.

NOTE: If you do not complete and submit the enclosed forms with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer **NON-RESPONSIVE** and accordingly the **COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.**

The County reserves the right to require the low bidder to produce evidence indicating that the company's financial condition is equal to, or better than, that enjoyed by the company at the time of prequalification. This additional information may be in the form of a financial statement or other evidence satisfactory to the Office of Budget & Finance.

Bidders' attention is directed to the requirement that a permit must be obtained from the Baltimore County Bureau of Highways and Bureau of Traffic Engineering prior to cutting any County road for the purpose of obtaining sub-surface soils information, and permission must be obtained from the State Highways Administration prior to making any openings in a State road.

Under no circumstances shall a bidder enter upon any property outside a County or State road for the purpose of securing sub-surface soils information until permission is received from the property owner. The fact that the County has obtained a utility easement does not give the bidder the right to enter upon the property.

Prevailing index price of asphalt cement/ton \$ 620.00 .

INCLEMENT WEATHER POLICY: If Baltimore County General Government Offices are open or open with liberal leave the day the bids are due, the bids are due as stated in the bid documents (date and time). **ONLY** when the Baltimore County General Government Offices are **OFFICIALLY CLOSED** the day the bids are due, the bid date will be postponed and an Addendum will be issued the next business (or next day buildings are officially open) day the county offices are open with the new bid date and time.

BID TABULATIONS: All bid tabulations will be confidential until after final award, at which time the total bid amounts for all bidders, as well as the complete bid tabulations for the top three (3) bidders, can be inspected by others when requested in writing pursuant to the Maryland Public Information Act.

ALTERNATIVE SOURCES OF CONTRACT BONDS: In the event your company is unable to qualify for bonding through a traditional commercial surety company, you may qualify for the required bonds through the State of Maryland, Department of Commerce (DOC). The **Maryland Small Business Development Financing Authority (MSBDFa, pronounced Mis-Bid-Fa)**, an agency of DOC, operates a Surety Bond Program designed to assist small businesses, based in Maryland, that are unable to obtain adequate bonding on reasonable terms in the commercial marketplace. MSBDFa provides bid, payment and performance bonds for contracts funded by government agencies, regulated utilities and private entities. The penal sums of the bonds are limited to the aggregate amount of \$2,500,000 and companies may pre-qualify for multiple bonds within pre-approved terms and conditions. MSBDFa also provides lines of credit, term loans and loan guarantees to help qualified businesses purchase equipment and real property, make improvements to leased property, refinance existing debt and assist them with their working capital needs. For more information on how to apply, you may contact: Meridian Management Group, Inc. (MMG), (the Program's Manager), 826 E. Baltimore Street, Baltimore, Maryland 21202, Telephone: (410) 333-4270. Or visit their website at www.mmggroup.com for information, applications and a checklist of required documents and reports that must accompany the application.

SECTION II

**Interim Supplemental Specifications
to the
Standard Specifications for Construction and Materials**

This contract shall include by reference the documents known as Supplemental Specifications, the contents of which shall be incorporated in their entirety herein and are in effect for all contracts bid after February 5, 2013:

1. General Conditions Building Projects, last revised March 2010.
2. Addendum 3 to the February 2000 Standard Specifications for Construction and Materials and Standard Details for Construction.
3. #1. and #2. are collectively known as the "Supplemental Specifications."
4. ***Revised General Provisions Pages (19 - 128) and Terms and Conditions (TC) Pages (129 - 141).**

In the event of a conflict between the Supplemental Specifications and the February 2000 Standard Specifications for Construction and Materials and Standard Details for Construction, the Supplemental Specifications shall control.

These documents are subject to change and amendment. It is the responsibility of the parties to this contract to be aware of these Supplemental Specifications. These documents are available for review either (1) at the Department of Public Works, Division of Construction Contracts Administration, County Office Building, Room 300B, 111 West Chesapeake Avenue, Towson, MD, 21204 – Phone (410) 887-3531 or (2) on our website at www.baltimorecountymd.gov/Agencies/publicworks/standardsandspecs/specsanddetails.html

- REVISION to **GP-7.11 Preservation and restoration of Property**, Paragraph (a) of the Standard Specifications Pages 65 and 66.
 - a. The Contractor shall not enter upon public or private property (out-side of the right-of-way or project area) for any purpose without obtaining written permission and he/she shall be responsible for the preservation of all public and private property, trees, monuments, signs and markers and fences thereon, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall take suitable precaution to prevent damage to underground or overhead public utility structures. **THE CONTRACTOR SHALL PROTECT CAREFULLY FROM DISTURBANCE OF ALL LAND MONUMENTS AND PROPERTY MARKS LOCATED ON THE CONTRACT DRAWINGS OR FOUND IN THE FIELD. IF DAMAGED OR DISTURBED THEY SHALL BE RESET BY A LICENSED SURVEYOR AT THE CONTRACTORS EXPENSE.**
- REVISION to **GP 7.29 MINORITY BUSINESS ENTERPRISE AND AFFIRMATIVE ACTION** of the Standard Specification Pages 75 to 82 and Pages 10 and 11 of Addendum #3 of the Standard Specifications.
- **GP 7.29.01 County Policy:** It is the policy of the County that MBE's and WBE's, as defined by the most recent County Executive Order and as further described in the Contract Documents, shall have the maximum opportunity to participate in the performance of capital improvement contracts financed by County capital funds and/or County operating funds, in accordance with the most recent County Executive Order. The Contractor shall comply with all MBE/WBE requirements as set forth in the Contract Documents.
- **GP 7.29.02 through 7.29.25:** Superseded by Executive Order Dated June 4, 2009.
- ADDITION to **Section 303.03, Pipe Culvert Construction** of the *Standard Specifications*, Page 227, requiring inspection of interiors of new sewers 12" or larger in diameter with closed circuit TV cameras:

303.03.10 TV Inspection. Contractors shall be required to conduct closed circuit television (CCTV) internal inspections of all new storm drain and culvert construction 12" and larger in diameter or span. This inspection will document and identify any system defects and provide the County with a record of the condition of the storm drain at completion of construction.

The entire length of the pipe shall be shown, and close-up views taken of the entire inner circumference of each pipe joint. Structures occurring along the pipeline shall also be examined on each interior face. Whenever possible, TV inspection shall be done under conditions of minimum or no flow within the pipe system.

The CCTV inspections shall be performed in accordance with *Specification Guidelines: Wastewater Collection Systems Maintenance and Rehabilitation* prepared by the National Association of Sewer Service Companies (NASSCO) and the *Handbook: Sewer Infrastructure Analysis and Rehabilitation*, EPA/625/6-91/030, October, 1991.

The CCTV records, including all logs, photographs and videotape/DVD records, shall be provided to Baltimore County's Bureau of Engineering and Construction, Storm Drain Design Section, for review prior to final acceptance of the construction. Upon approval, the tapes will be forwarded to the Bureau of Utilities for their use.

- ADDITION to Section 1007.03.02, **Acceptance Testing** of the *Standard Specifications*, Page 759, requiring inspection of interiors of new sewers 8" or larger in diameter with closed circuit TV cameras:

(e) **TV Inspection.** Contractors shall be required to conduct closed circuit television (CCTV) internal inspections of all new sewer construction of 8" and larger pipelines. This inspection will document and identify any system defects and provide the County with a record of the condition of the sewer at completion of construction.

The CCTV inspections shall be performed in accordance with *Specification Guidelines: Wastewater Collection Systems Maintenance and Rehabilitation* prepared by the National Association of Sewer Service Companies (NASSCO) and the *Handbook: Sewer Infrastructure Analysis and Rehabilitation*, EPA/625/6-91/030, October, 1991.

The CCTV records, including all logs, photographs and videotape/DVD records, shall be provided to Baltimore County's Bureau of Engineering and Construction, Sewer Design Section, and the Bureau of Utilities for review prior to final acceptance of the construction.

The following changes are made to page 6 of the Consolidated ADDENDUM (#3) to the *Standard Specifications for Construction and Materials* dated February, 2007:

Section GP-2.20 Tie Bids, page 34, (b) Award, last sentence, replace County Code Section in brackets with new numbered reference:

For further options on the bids and the definition of a qualified minority, refer to Baltimore County Code, [Section 15-84(6)] Section 10.2-406(d)(1).

Revise Section 901.01, Aggregates, page 601:

This section covers the material details, quality requirements and test methods applicable to aggregates. Grading requirements are outlined in Tables 901A and 901C; Physical properties in 901 B and 901 D. Force drying may be used in the preparation of samples for grading tests conducted in the field. ***Quarries providing material to Baltimore County Projects must be approved by Maryland State Highway Administration and listed in the current MDSHA Aggregate Bulletin.***

Revise Section 902.10.03, Portland Cement Concrete Mixtures, page 618:

All Portland Cement Concrete mix designs used on Baltimore County projects must have been approved by the Maryland State Highway Administration (MDSHA). The MDSHA mix design approval number must be included on all load tickets. The concrete mixes shall conform to the following:

Revise Section 904.04.02, Mix Design, page 632:

The contractor shall develop a Superpave mix design in conformance with R35. ***All HMA material used on Baltimore County projects must be Maryland State Highway Administration (MDSHA) approved mixes.*** HMA Superpave mixes shall conform to the specification for Superpave Volumetric Mix Design, M323, and shall be designed for Equivalent Single Axle Loading (ESAL) range specified in the Contract Documents.

The contractor may elect to use...

Revise Section 915.01.01, Approval, page 675:

The plant from which the Contractor proposes to obtain material [will be approved by the Regional Engineer before starting deliveries.] ***to be used on Baltimore County projects must have been approved by the Maryland State Highway Administration (MDSHA).***

Rev. 11/09

Revise Section 915.02, HOT MIX ASPHALT (HMA) PLANTS, page 678:

All plants *providing HMA material to Baltimore County projects must be approved by Maryland State Highway Administration (MDSHA) and conform to M 156 except as modified in 915.01 and the following:*

Revise Section 915.03.05, Certified Concrete Plant, page 681:

Concrete plants providing material to Baltimore County Projects must be certified by the Maryland State Highway Administration (MDSHA) and must satisfy all criteria outlined in the Maryland Standard Specifications for Construction and Materials (latest edition). The producer shall be responsible for quality control of plant operations to assure that the material conforms to Specification requirements. The quality control process will be subject to unannounced periodic inspection by representatives of the Regional Engineer. Full participation in the inspection by the plant's certified technician will be required.

The following changes are made to the "Sanitary Sewer Details Index Sheet, Standard Detail S-3, and Roads and Streets Details Index Sheet" of the Consolidated ADDENDUM (#3) to the Standard Details for Construction dated February, 2007.

- 7 D Sanitary Sewer Details Index Sheet
- 7 E Standard Detail S-3
- 7 F Roads and Streets Details Index Sheet

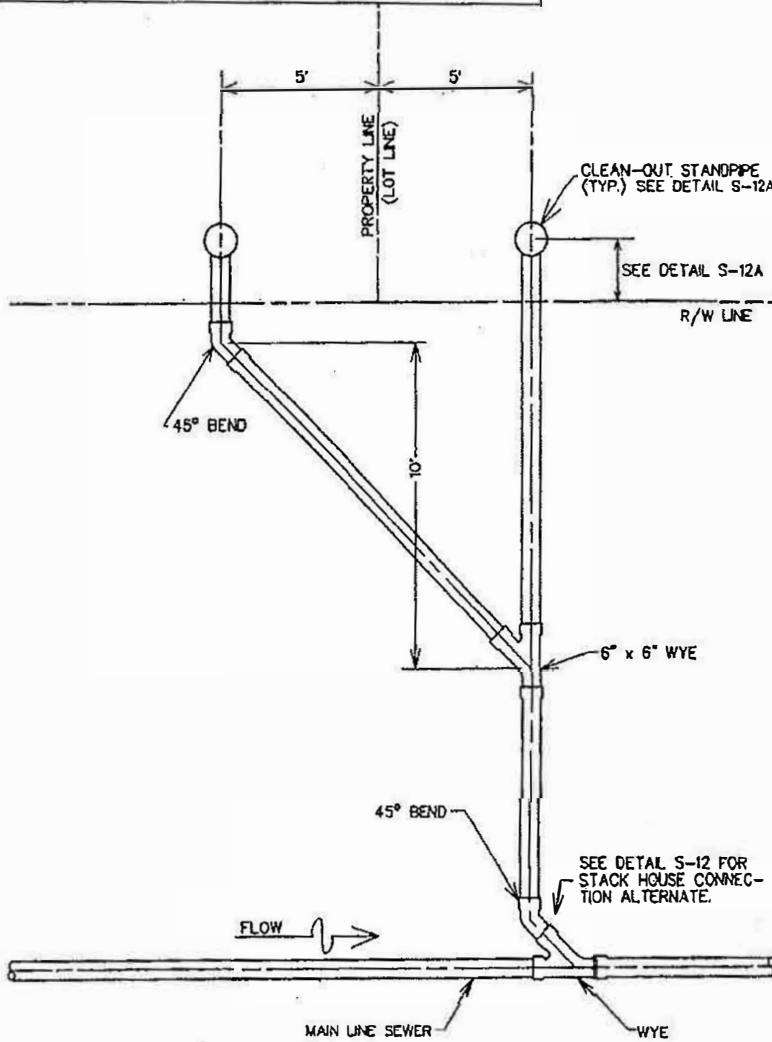
Rev. 11/09

Sanitary Sewer Standard Details

PLATE #	TITLE	SIGNATURE DATE	STD. SPECS. REFERENCE	COMMODITY CODE
S-1	Manhole	3/10/2005	1008	870000
S-2	Shallow Manhole	3/10/2005	1008	872190
S-3	Twin House Conn. Layout	3/18/2002	1007	-
S-4	Precast 48" San.MH	1/2/2007	1008	875000
S-5	60", 72" Precast San. MH	1/2/2007	1008	875000
S-6	Drop MH - Type A & B	3/18/2002	1008	880000, 881000
S-6A	Precast San.Drop MH	12/4/2001	1008	880000, 881000
S-7	Bedding/Gravity PVC Pipe	1/31/2007	1001	-
S-8	Heavy Traffic MH Fr.&Cvr	10/23/1997	1008	877000
S-8B	Sanitary MH Platen Cover – 1	9/12/2000	1008	877000
S-8C	Sanitary MH Platen Cover – 2	9/12/2000	1008	877000
S-12	Stack House Connections	10/23/1997	1007	-
S-12A	House Conn.@ Prop.Line	1/10/2007	1007	-
S-12B	Grinder Pump Conn@Hse.Conn.	1/2/2007	-	-
S-13	Watertight MH Fr.&Cvr	10/23/1997	1008	877000
S-14	Air Relief Valve Vault	3/18/2002	Special Provision	886000
S-15	Precast Doghouse Riser	5/15/2002	1008	-

Rev. 9/09

NOTE: TWIN CONNECTION MAY BE USED ON TOWNHOUSES ONLY.
 ANY OTHER USE MUST BE APPROVED BY THE DIRECTOR
 OF PUBLIC WORKS.

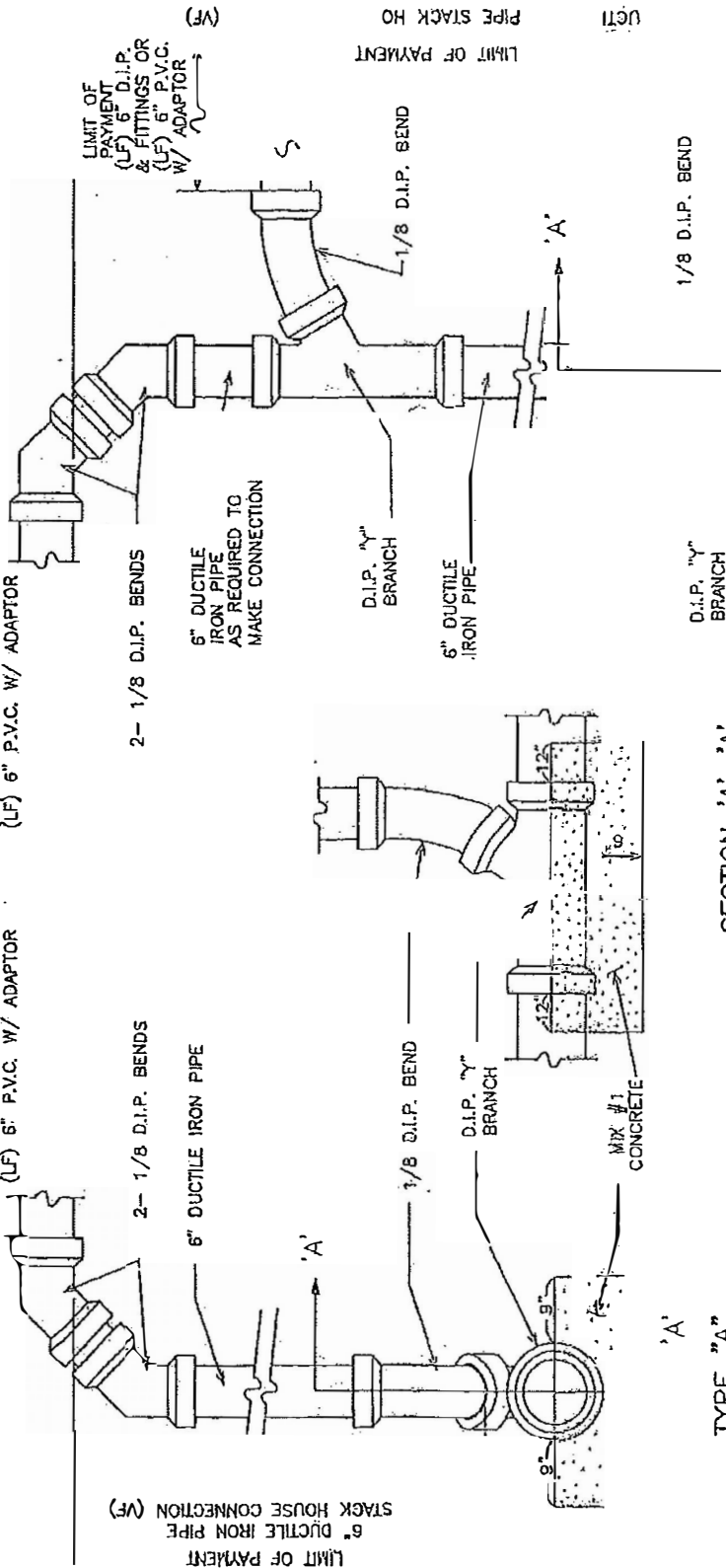


	APPROVED <i>William J. [Signature]</i> DIRECTOR BUR. OF ENGINEERING & CONSTRUCTION DATE 3/15/02	DEPARTMENT OF PUBLIC WORKS SANITARY SEWER DETAIL TWIN HOUSE CONNECTION LAYOUT	ISSUED: AUGUST 1997 REVISED: FEBRUARY 2002 REVISED:
			PLATE S-3

* SEE PLATE S-12A & B

LIMIT OF PAYMENT * LIMIT OF PAYMENT

(LF) 6" D.I.P. & FITTINGS OR (LF) 6" P.V.C. W/ ADAPTOR
(LF) 6" D.I.P. & FITTINGS OR (LF) 6" P.V.C. W/ ADAPTOR

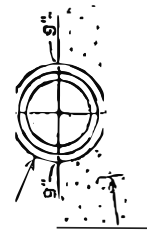


TYPE "A"

NOTES:

1. USE ALL DUCTILE IRON FITTINGS INCLUDING SEWER WYE.
2. TRENCH WIDTH PAYMENT SHALL BE PAID FROM CENTER LINE OF MAIN LINE TO END OF HOUSE CONNECTION. SEE DETAIL G-6 FOR TRENCH WIDTH.
3. MAIN LINE TO BE DUCTILE IRON PIPE.
4. STACK MUST REMAIN PLUMB DURING BACKFILL.
5. NO STACK CONNECTIONS TO BE BUILT ON VCP OR PVC MAIN.

TYPE "B"



APPROVAL

[Signature]

DIRECTOR

BUR. OF ENGINEERING/CONSTRUCTION

DATE 10/31/12

DEPARTMENT OF PUBLIC WORKS
SANITARY SEWER DETAILS
STACK HOUSE
CONNECTIONS

ISSUED: OCTOBER 1927
REVISED: AUGUST 1927
REVISED: JUNE 2013
REVISED: MAY 2, 2014

S-12

Maryland 24" x 9" Straight Wall Frame with Scalloped Flange & Water Tight BALTIMORE COUNTY County Sanitary Sewer Cover with Cam Lock



1545A1GS Assembly

Product Number: 00154548
Design Features: 00154548
Quantity: 1
City: Baltimore, MD

Customer: Baltimore County
Address: 10000 E. J. Road
City: Baltimore, MD 21286
Phone: 410-386-1000
Fax: 410-386-1001

Drawn by: [Name]
Checked by: [Name]
Date: [Date]

Scale: 1:1

Section A-A: Shows dimensions: 25 7/8" total width, 1 1/2" thickness, 1/2" O.D. HOIST GROOVE, 2 3/4" height, and 24 7/8" O.D. OF GROOVE.

Detail 1: Shows components: (1) 1/2" HEX S72-11 3/4" LOCKER WASHER, (1) 3/8" LOCKER WASHER, (1) 1/2" HEX S72-11 3/4" LOCKER WASHER, (2) 1/2" HEX S72-11 3/4" LOCKER WASHER, (2) 1/2" HEX S72-11 3/4" LOCKER WASHER.

00154548
 Quantity: 1

**For In-Roadway Use
 Or Approved Equal.**

Supersedes Detail S-13

1545Z1 Frame

Product Number: 00154512
Design Features: 00154512
Quantity: 1
City: Baltimore, MD

Customer: Baltimore County
Address: 10000 E. J. Road
City: Baltimore, MD 21286
Phone: 410-386-1000
Fax: 410-386-1001

Drawn by: [Name]
Checked by: [Name]
Date: [Date]

Scale: 1:1

Top View: Shows dimensions: 24" O.D., 22 3/4" O.D., 21 1/4" O.D., 21" O.D., 2 1/4" thickness, and (3) 6/16" SCALLOPS 1" O.D. EQ. EQUALLY SPACED 90° APART.

Frame Section: Shows dimensions: 22 3/4" O.D., 21 1/4" O.D., 21" O.D., 2 1/4" thickness, 2 1/4" height, 1 1/4" width, 3 1/2" width, 1" width, 2 1/4" height, 21 1/4" O.D., and 24" O.D.

00154512
 Quantity: 1

Disclaimer:
 Weight (as fig), dimensions (indicated) and drawings provided for your guidance. You reserve the right to modify specifications without prior notice.

CONFIDENTIAL: This drawing is the property of EJ GROUP, Inc. and embodies confidential information, registered marks, patents, trade secret information, and/or know-how that is the property of EJ GROUP, Inc. Copyright © 2014 EJ GROUP, Inc. All rights reserved.

Contact:
 603 676 4853
 ejco.com

CAMPRESSION Assembly



PRELIMINARY
 Submittal Number
 NPT14-954A
 Design Features
 -Materials
 Frame
 Gray Iron (CI.35B)
 Cover
 Ductile iron (70-50-05)

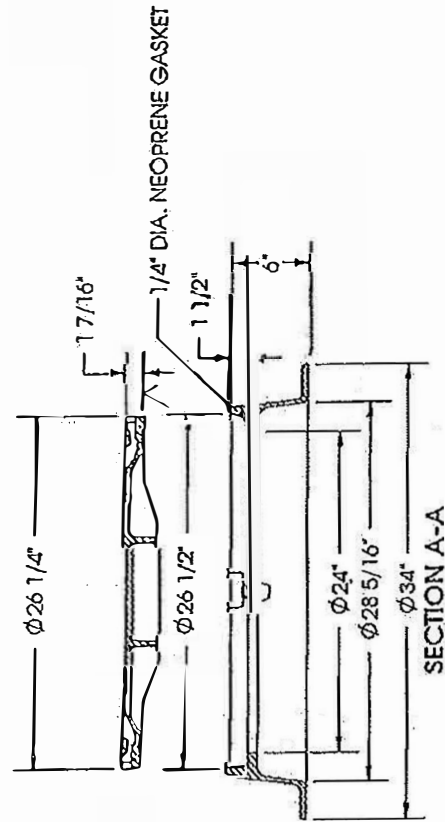
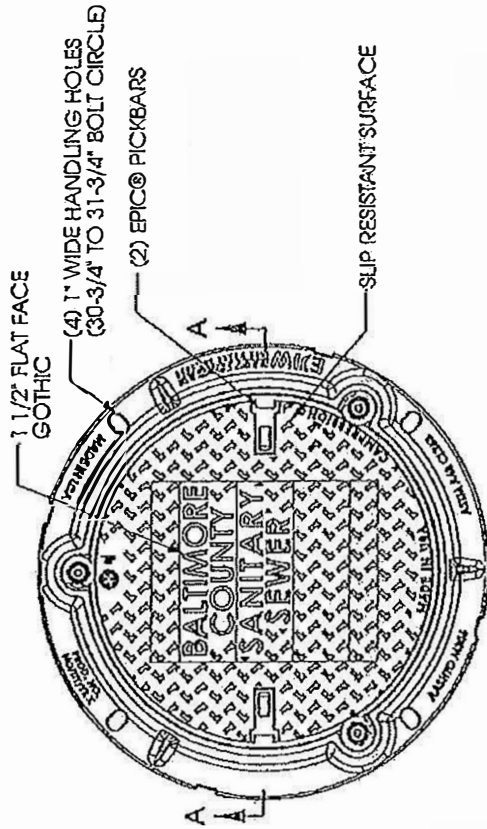
-Design Load
 Heavy Duty
 -Oper. Area
 n/a
 -Coating
 Unclipped
 -√ Designates Machined Surface

Certification
 -ASTM A49
 -ASTM A536
 -Country of Origin: USA
Major Components
 WT:42339011
 WT:42339016

Drawing Revision
 2/10/2014
Designer M:KH
Revised By:

Disclaimer:
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Contact:
 EJC 925 4852
 ejco.com



For outside of roadway use.
 Or Approved Equal.
 Supersedes Detail S-13

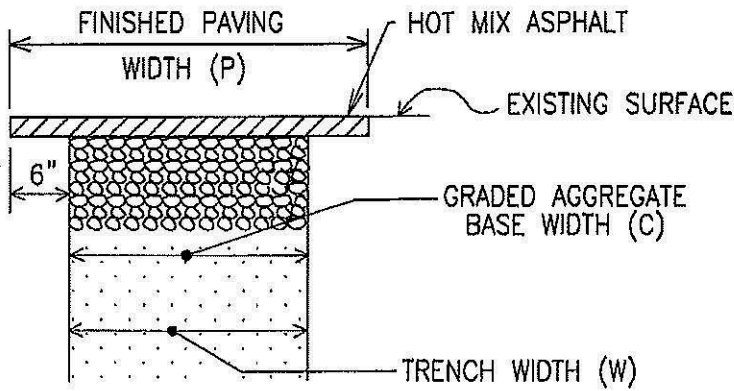
Roads and Streets Standard Details

PLATE #	TITLE	SIGNATURE DATE	STD. SPECS. REFERENCE	COMMODITY CODE
R-1	Pri.Rd.Paving Sections	11/21/2000	501, 504	-
R-2A	Subdiv.Paving Sect.(CBR≥5)	3/10/2005	501, 504	-
R-2B	Subdiv.Paving Sect.(CBR<5)	3/10/2005	501, 504	-
R-10	20'St.(40'R/W)-No Pkg.	10/23/1997	-	-
R-11	22'St.(40'R/W)-No Pkg.	10/23/1997	-	-
R-12	28'St.(50'R/W)-Pkg.1 Side	11/24/1999	-	-
R-13	30'St.(50'R/W)-Pkg.1 Side	11/24/1999	-	-
R-14	Concrete Alleys	2/22/2008	520	581100
R-14A	Concrete Alleys	11/24/1999	520	387404, 387120, 390500
R-15	Drive Entr.-No Curb	10/23/1997	501, 504	520114, 530300
R-15A	Drive Entr.-Sdwk/Curb Var	2/22/2006	520	581100
R-15B	Drive Entr.-SdwkAbutsCurb	2/22/2006	520	581100
R-17	Concrete Alley Joints	11/24/1999	520	581100
R-18	Alley Entrance	2/22/2006	520	581100
R-19	Std.4'Sidewalk	2/22/2006	610	655000
R-20A	H.M.A. Mountable Curb	11/24/1999	609,03.02	615581
R-20B	Extr.Conc.Mount.Curb	10/23/1997	609	615581, 2
R-21	7"Comb.Curb & Gutter	2/22/2006	609	630000, 616000
R-22	Underdrain-Paved Streets	12/4/2001	305	387000, 390500
R-23	Conc.Ditch to Curb & Gtr	2/22/2006	609, 307	631000, 630000
R-24	Concrete Curb	12/20/2002	-	-
R-27	Barricades	10/23/1997	612, 918	659000
R-28	Svce.Station Entr.Chnliz	2/22/2006	520	-
R-29	Svce.Sta.Entr.@Intersect	2/22/2006	520	-
R-30	Commercial Entr.Chnliztn	2/22/2006	520	-
R-31	Comm.Entr.@Intersection	2/22/2006	520	-
R-32	Single Commercial Entr	1/2/2007	520	-
R-32A	Rural Commercial Entr	10/23/1997	501, 504, 303	-
R-33	Valley Gutter-90DegInter.	1/2/2007	520	631010
R-35	Accel.Lane(Min.Widening)	10/23/1997	-	-
R-35A	Accel.Lane(Widened to PL)	10/23/1997	-	-
R-36A	Ped.Ramp/Median/Depressed	12/20/2002	-	-
R-36B	Truncated Pedestrian Ramp	12/20/2002	-	-
R-36C	Detectable Warnings	12/20/2002	-	-
R-36D	Median/Island Ped.Passage	12/20/2002	-	-
R-36E	Pedestrian Bump-Out	12/20/2002	-	-
R-37	7"Valley Gutter/Perp.Pkg	2/22/2006	520	631010
R-38	Flexible Pvg.of Trenches	3/18/2002	505	120550, 81, 83
R-39	Adjusting Utility Frame	10/23/1997	305, 508	590110, 20
R-41	Pavement Failure Repairs	11/24/1999	605	590600, 5
R-42	Hot-Mix Asphalt Paving	10/23/1997	504	556380

**REPAVING QUANTITIES
SHOWN IN TONS PER LINEAR FOOT**

Graded Aggregate Base = 150 Lb./Cu.Ft.

Hot Mix Asphalt = 160 Lb./Cu.Ft.



PIPE DIAMETER (INCHES)	12 INCH GRADED * AGGREGATE BASE (TONS / LINEAR FOOT)	2 INCH HOT MIX * ASPHALT PAVING (TONS / LINEAR FOOT)	3 INCH HOT MIX ** ASPHALT PAVING (TONS / LINEAR FOOT)
6"	0.225	0.04	0.08
8"	0.225	0.04	0.08
10"	0.225	0.04	0.08
12"	0.225	0.04	0.08
15" & 16"	0.225	0.04	0.08
18"	0.263	0.047	0.09
20" & 21"	0.263	0.047	0.09
24"	0.30	0.053	0.10
27"	0.375	0.067	0.12
30"	0.375	0.067	0.12
33"	0.413	0.073	0.13
36"	0.413	0.073	0.13
42"	0.488	0.087	0.15
48"	0.525	0.093	0.16
54"	0.60	0.107	0.18
60"	0.638	0.113	0.19
66"	0.675	0.12	0.20
72"	0.75	0.133	0.22
78"	0.825	0.147	0.24
84"	0.863	0.153	0.25
90"	0.90	0.16	0.26
102"	0.975	0.173	0.28
108"	1.05	0.187	0.30
BRACING ADDITIVES			
SINGLE TIER	ADD 0.15	ADD 0.027	ADD 0.04
DOUBLE TIER	ADD 0.30	ADD 0.053	ADD 0.08

* BASED ON TRENCH WIDTH (W)

** BASED ON FINISHED PAVING WIDTH (P)



APPROVAL
[Signature]
DIRECTOR
[Signature]
BUR. OF ENGINEERING/CONSTRUCTION
10/13/17
DATE

DEPARTMENT OF PUBLIC WORKS
GENERAL DETAILS
**PAYMENT QUANTITIES FOR
REPAVING TRENCHES**

ISSUED: OCTOBER, 2017
PREVIOUS
REVISION: AUGUST, 1997

PLATE
G-7

1001.05 STEEL PLATES

If the Contractor elects to bridge a trench or open cut excavation within paved areas of the Construction area with steel plates, it shall notify the Engineer forty-eight (48) hours in advance of placement of any steel plate(s). If multiple plate(s) are required to cover an open cut excavation, the Contractor shall also submit a detailed plan to the Engineer showing the placement of all steel plate(s), as well as any support system required, and this detailed plan shall be approved by the Engineer prior to any installation or use of steel plate(s) by the Contractor. If deemed necessary by the County, this plan may need to be sealed by a professional engineer, licensed in the State of Maryland.

The Contractor shall place proper signs at the locations of all steel plate(s) and such signs shall conform to MUTCD specifications. Spacing of any signs shall be determined by the field conditions and shall be approved by the Engineer.

All steel plates must be flat, at least one inch (1") thick, and held in place with pins. Steel plate(s) must be large enough to allow a minimum of one foot (1') of bearing on three (3) sides of the trench or open cut excavation. Steel plate(s) are to be set as flush as possible with the road surface so there is no movement of the steel plate(s) when traversed by vehicles.

Bituminous concrete cold mix must be used on all edges of the steel plate(s) to minimize the hazard to the motoring public. Cold mix must be tapered from the height of the steel plate(s) to the existing road surface to provide a smooth transition for traveling vehicles.

If the steel plate(s) are to be left in any roadway longer than seven (7) calendar days, the steel plate(s) must be recessed as to be flush with the riding surface.

The Contractor must provide the Engineer with at least two (2) contact persons and corresponding phone numbers to respond to any emergencies or problems with any steel plate(s) and/or support system. Should an emergency or problem occur that requires immediate action, County forces shall correct such emergency or problem, and the County shall charge the Contractor for any costs incurred by the County.

Steel plates are considered incidental to any Contract Construction and/or Work. No County payment shall be made to the Contractor for the use or installation of any steel plate(s) or support system, or for any additional permanent or temporary trench repair required by the County.

**The new General Provisions (GP)
and Terms and Conditions (TC)
supersedes the Standard
Specifications dated February
2000 and Addendums**

GENERAL PROVISIONS

GP - SECTION 1 DEFINITIONS AND TERMS

GP-1.01 GENERAL

This volume is based on the Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials dated July 2008, as amended in this volume. It has been prepared as the Manual of Standard Specifications under the authority of Section 32-4-404 of the Baltimore County Code, 2003, as amended from time to time.

Baltimore County has adopted a set of Standard Detail Drawings as its Manual of Standard Details that is published separately under the authority of Section 32-4-404 of the Baltimore County Code, 2003, as amended from time to time.

GP-1.02 ORGANIZATIONAL STRUCTURE

Reference to Specifications or procedures beginning with the letters M, R, or T shall be understood to be AASHTO.

Reference to Specifications or procedures beginning with the letters A, B, C, D, E, F, G, ES or P shall be understood to be ASTM.

GP-1.03 LANGUAGE

It shall be understood that when all such expressions such as “directed, specified, authorized, permitted, approval, acceptable or satisfactory” are used they are implicitly followed by the words “by the Engineer” or “to the Engineer”.

GP-1.04 ABBREVIATIONS

Wherever in these General Provisions or in other Contract Documents the following abbreviations are used, the meaning shall be as follows:

AAN	American Association of Nurserymen
AAPA	American Association of Port Authorities
AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AIA	American Institute of Architects

Revised
September 19, 2016

AIEE	American Institute of Electrical Engineers
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
ANSI	American National Standards Institute
ARA	American Railway Association
AREA	American Railway Engineering Association
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigeration and Air-Conditioning Engineers
ASLA	American Society of Landscape Architects
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
ATA	American Transit Association
AWWA	American Water Works Association
AWS	American Welding Society
AWPA	American Wood Preservers Association
AWG	American Wire Gauge
AGC	Associated General Contractors of America
bccmp	bituminous-coated corrugated metal pipe
bccmpa	bituminous-coated corrugated metal pipe arch
B&S	Brown & Sharpe Wire Gauge
BOCA	Building Officials Code Administrators International
cip	cast iron pipe
cipx	cast iron soil pipe, extra strength
cmp	corrugated metal pipe
CPVC	Chlorinated Poly Vinyl Chloride
CSPA	Clay Sewer Pipe Association
COMAR	Code of Maryland Regulations
CRSI	Concrete Reinforcing Steel Institute
dip	ductile iron pipe
DIPRA	Ductile Iron Pipe Research Association
EI	Edison Electric Institute
EIA	Electronic Industries Association
EPA	Environmental Protection Agency
FAA	Federal Aviation Administration, U.S. Department of Transportation
FCC	Federal Communications Commission
FHWA	Federal Highway Administration, U.S. Department of Transportation
FRA	Federal Railway Administration, U.S. Department of Transportation
FSS	Federal Specifications and Standards, General Services Administration
FTA	Federal Transit Administration
IEEE	Institute of Electrical and Electronic Engineers
IES	Illuminating Engineers Society
IMSA	International Municipal Signal Association
IPCEA	Insulated Power Cable Engineers Association
IRT	Institute for Rapid Transit
MBE	Minority Business Enterprise
MBMA	Metal Building Manufacturers Association

MDOT	Maryland Department of Transportation
MSMT	Maryland Standard Method of Tests (as developed by the State Highway Administration)
MUTCD	Manual on Uniform Traffic Control Devices
MdMUTCD	Maryland Manual on Uniform Traffic Control Devices
MdSHA	Maryland State Highway Administration
NBFU	National Board of Fire Underwriters
NBS	National Bureau of Standards
NCHRP	National Cooperative Highway Research Program
NEC	National Electric Code
NESC	National Electric Safety Code
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NIST	National Institute of Standards and Technology
OSHA	Occupational Safety and Health Administration
PCA	Portland Cement Association
pccp	prestressed concrete cylinder pipe
PCI	Precast Concrete Institute
PVC	Poly Vinyl Chloride
QPL	Qualified Products List
rccp	reinforced concrete culvert pipe
rcsp	reinforced concrete sewer pipe
RLMI	Reflector and Lamp Manufacturers' Institute
RMA	Rubber Manufacturers Association
SAE	Society of Automotive Engineers
SAWP	Society of American Wood Preservers
SHA	State Highway Administration
SSPC	Steel Structures Painting Council
ucpx	unglazed clay pipe, extra strength
UL or ULI	Underwriters Laboratories, Incorporated
UMTA	Urban Mass Transportation Administration, U.S. Department of Transportation
USSG	United States Standard Gauge
USSWG	United States Steel Wire Gauge
WBE	Women's Business Enterprise

GP-1.05 DEFINITIONS

Wherever in these General Provisions or in other Contract Documents the following terms are used, the meaning shall be as follows:

Additional Work - Work not required or provided for in the original Contract.

Administration - Baltimore County, Maryland, a body corporate and politic.

Administrator - The Director of the Department.

Advertisement - The public announcement, as required by law, inviting any and all prequalified contractors to submit a Bid for Work to be performed or provided.

Agreement - The written agreement executed between the County and the successful Bidder covering the performance of the Work by which the Contractor is bound to perform the Work and by which the County is obligated to compensate the Contractor therefor at a mutually established and accepted rate or price. The Agreement shall include all the documents listed under "Contract Documents", as well as any written Contract Modification that is required to complete the Construction and completion of the Work in an acceptable manner, including any authorized extension thereof, all of which constitute one instrument and agreement. The Agreement shall be executed by the Contractor and the County as indicated by the signature of the Contractor's duly and legally authorized representative and the County Executive or his/her legally authorized designee, with evidence thereof of review for legal sufficiency by the County's Office of Law.

Alley - An established passageway for vehicles and pedestrians affording a secondary means of access in the rear to properties abutting on a street or Highway.

Approved Source of Supply - Listing prepared by the Department on a periodic basis and available on the Department's website.

Architect and/or Design Engineer - The Maryland licensed and registered architect and/or design engineer under separate contract with the County to prepare the Plans and Contract Documents.

As-Built Drawings - A complete set of sealed and signed as-built Mylar record Contract Drawings that are based on the marked-up prints or red-lined drawings received from the applicable contractor, the shop drawings, any addenda, any change orders, any requests for information, and any other data utilized by the Contractor so as to provide a complete and accurate as-built record.

Award - The decision and notice given by the County of the acceptance of a Bid or Proposal. The successful Bidder understands and expects the County to substantially, materially and justifiably rely upon its Bid from the date of Award pending execution of the Agreement.

Baltimore County - Baltimore County, Maryland, a body corporate and politic.

Base Course - The one or more layers of specified material and thickness placed on a Subbase or a Subgrade to support a Surface Course.

Bid - A written submission including, but not limited to, price, terms of sale, and description of work technical expertise, work experience, and any other information requested in the Bid Package, offered by a Bidder to the County in response to the County's Bid Package or request for Proposal.

Bid Bond - The security required and described in the Bid Package and GP-2.07 to be included in the Proposal and furnished by the Bidder as a guaranty of good faith to enter into a Contract with the County if the Work is Awarded to the Bidder.

Bid Form - The approved form included in the Bid Package and/or Proposal Form, on which the Administration requires the Bid to be set forth and submitted.

Bid Item - An item of Work specifically described and for which a price, either unit or lump sum, is required. It includes the performance of all Work described herein or described in any Supplemental Specifications or Special Provisions.

Bid Package – Includes, but is not limited to, the Standard Specifications and any Contract Document included and/or incorporated by reference therein, used by the County for soliciting and procuring Bids by competitive sealed Bid and/or requests for Proposals and/or small procurement procedures including, but not limited to, requests for quotations, requests for Bids, etc.

Bidder - A Person formally submitting a Bid for the Work, acting directly or through a duly and legally authorized representative.

Bridge - A structure including supports erected over a depression or an obstruction, such as water, Highway, or railway, and having a track or passageway for carrying traffic or other moving loads, and having an opening measured along the center of the Road of more than 20 feet between undercopings of abutments or spring lines of arches, or extreme ends of openings for multiple boxes; it may also include multiple pipes, where the clear distance between openings is less than half of the smaller contiguous opening. For lengths, all dimensions shall be parallel to the center line of the Road. The dimensions of handrails will not be taken into account in measuring bridge lengths. Any Bridge or Highway grade separation structure includes the connecting Highways, Substructure, Superstructure, Road approaches, entrance plazas, interchanges, overpasses, underpasses, and other Structures which the Administration may deem necessary together with all property rights, Easements, franchises, and interests acquired by the Administration for the Construction and operation of the Bridge.

Business - A corporation, partnership, individual, sole proprietorship, joint venture, or any other legal entity through which commercial activity is conducted.

Business Day - Every day shown on the calendar except Saturdays, Sundays and Holidays.

Calendar Date – The specific calendar date by which Contractor must achieve Full and Final Completion of the Work and all requirements under the Contract.

Calendar Day - Every day shown on the calendar, Saturdays, Sundays and Holidays included.

Certification - A document which states that the Material and/or Work complies with the applicable specifications and includes the actual test results to confirm the statement. The contents of the Certification shall be on the contractor's/vendor's/manufacture's letterhead or

approved document and shall be duly signed by a legally and duly authorized officer. Certifications for metal products, when required, shall include a statement that the metal product was melted and manufactured in the United States.

Change Order - A written order amending the Contract and signed by the responsible Engineer, authorizing and requiring changes to the original Contract, with or without the consent of the Contractor. Each Change Order shall be executed by the Contractor and the County as indicated by the signature of the Contractor's duly and legally authorized representative and the County Executive or his/her legally authorized designee, with evidence thereof of review for legal sufficiency by the County's Office of Law.

Completion Date - The number of Working Days, Calendar Days, or Calendar Date shown in the Contract indicating the time allowed for the Full and Final Completion of the Work contemplated in the Contract.

Construction – To build, alter, Repair, improve and/or demolish any structure, building, or other improvement to real property and/or fixtures.

Construction Strip - An area contiguous to a permanent fee area or Easement, temporarily acquired for the use of the Contractor during the execution of the Work. This area exists only when shown on the Plans.

Contingent Item - Any Bid Item listed in the Contract Documents and included in the Bid for the purpose of obtaining a Contract price. Such Bid Item(s) constitutes tender of an exercisable option to and for the benefit of the County to incorporate such Bid Item(s) into the Work in accordance with the stated Bid prices.

Contract - The written agreement executed between the County and the successful Bidder covering the performance of the Work by which the Contractor is bound to perform the Work and by which the County is obligated to compensate the Contractor therefor at a mutually established and accepted rate or price. The Contract shall include all the documents listed under "Contract Documents", as well as any written Contract Modification that is required to complete the Construction and completion of the Work in an acceptable manner, including any authorized extension thereof, all of which constitute one instrument and agreement. The Contract shall be executed by the Contractor and the County as indicated by the signature of the Contractor's duly and legally authorized representative and the County Executive or his/her legally authorized designee, with evidence thereof of review for legal sufficiency by the County's Office of Law.

Contract Bond – Means Bid Bond, Payment Bond, Performance Bond and/or Proposal Guaranty, as applicable.

Contract Documents - The Contract executed between the Administration and the successful Bidder, covering the performance of the Work by which the Contractor is bound to perform the Work, and by which the Administration is obligated to compensate Contractor therefor at the mutually established and accepted rate or price. The Contract Documents shall include, but not be limited to, the Bid Package (which includes, but is not limited to, the instructions to bidders

document, the information for bidders document and the specifications), Extra Work Order, Proposal Form, Proposal, Contract Bond, General Provisions, Contract Drawings, Special Provisions, Technical Provisions, all Plans and Notices to Proceed, also any Change Order, Contract Modification and Supplemental Agreement that are required to complete the Work in an acceptable manner, including County-authorized extensions of time for completion thereof, the Award, and the Agreement.

Contract Drawings - The official drawings issued by the Administration as part of the Contract Documents, including those incorporated in the Contract Documents by reference.

Contract Item or Pay Item - An item of Work specifically described and for which a price, either unit or lump sum, was provided in the form of a County-approved Bid Item and incorporated into the Contract, unless expressly stated to the contrary by the County. It includes the performance of all Work described therein.

Contract Modification - Any written change to the Contract including, but not limited to, delivery point, date of delivery, Contract period, price, quantity, or other provision of any original and/or existing Contract, whether accomplished in accordance with a Contract provision, or by mutual written action of legally and duly authorized representatives of the parties to the Contract including, but not limited to, any Change Order, Extra Work Order, Supplemental Agreement, and/or other form of Contract Modification. Each Contract Modification shall be executed by the Contractor and the County as indicated by the signature of the Contractor's duly and legally authorized representative and the County Executive or his/her legally authorized designee, with evidence thereof of review for legal sufficiency by the County's Office of Law.

Contract Number - The eight-place combination of numerals and letters by which all Contracts are identified:

9 6 0 0 0 X X 0

The first two digits indicate the year. The next three digits indicate the sequential numbering; the first Contract of each year is numbered 001, the second Contract 002 etc., regardless of the division of the Contract.

The three-space alpha-numeric combination (X X 0 above) indicates the general nature of the Work and the division of the Contract for accounting purposes. The two letters (X X) indicate the general nature of the Work. The last digit indicates the numerical division of the Contract. A zero as the last digit indicates that the Contract will be accounted as a whole.

GENERAL NATURE OF THE WORK

First X	Second X
B - Bridge	D - Development (Public)
C - Culvert	F - Fire Station
D - Storm Drain	L - Library
G - Grading or miscellaneous	

P - Public Building
R - Road
(except when used with RA,
indicates Right-of-Way
Improvement)
S - Sewer
W - Water
U - Utility

O - Operating Building
P - Police Station
X - Capital Improvement
S - Development (Private
other than UA or RA)
A - Agreement (for Private UA and RA)

Contract Time - The number of Working Days, Calendar Days, or a Calendar Date specified in the Contract Documents indicating the time period allowed for the Full and Final Completion of the Contract Work.

Contractor - The party of the second part to the Contract; the Person undertaking the execution of the Work under the terms of the Contract and acting directly or through his, their, or its agents or employees. If the party of the second part is comprised of one or more Persons, each shall be jointly and severally responsible for the performance of the entire Contract and jointly and severally liable to the County.

Controlling Operation - An operation that at the particular time under consideration has a controlling effect on the progress of the project as a whole.

County - Baltimore County, Maryland, a body corporate and politic.

County Roads - Any public Road in the County, excluding State Roads, fee title to which, or Easement for the use of which, is vested in the County by grant of condemnation, dedication, conveyance or by operation of law.

Culvert - Any structure not classified as a Bridge that provides an opening under any Roadway.

Day - Calendar Day unless otherwise designated.

Department - The Department of Public Works of Baltimore County, unless another County department or office is expressly identified and designated by the County.

Domestic Manufacture - When referring to metallic items such as structural steel, pipe, reinforcement, bridge rails, etc., the term Domestic Manufacture means those metal products that have been melted and manufactured within the United States.

Drainage Ditch - In general, any open water course other than gutters, constructed as indicated in the Contract Documents.

Easement - A grant of a) an interest in property and b) a right of use of property of an owner for a certain purpose at the will of the grantee.

Engineer – Unless an official is expressly identified in writing by the County or expressly stated in the Contract Documents, Engineer means any one of the following:

Director of the Department, or his authorized delegated representative,
Deputy Director of the Department (if applicable),
Chief, Division of Construction Contracts Administration of the Department, or
Chief, Bureau of Engineering & Construction of the Department.

Any delegation of the Engineer’s authority must be authorized in writing by any one of the above listed officials or expressly stated in the Contract, and such delegation of authority will pertain only to the specific Contract and/or Contracts as expressly stated in the authorization.

If the Engineer’s authority is delegated as specified above to another County department or office, “Department” shall mean the County department or office delegated such authority, and any references to a director, deputy director, chief, division, or bureau shall mean the corresponding official, employee, division, bureau or office of the County department delegated such authority, as applicable and appropriate; provided that, any references to “Department” rules, lists, or published and/or adopted materials shall continue to refer to the County Department of Public Works.

Equipment - All machinery, tools, and apparatus necessary for the proper Construction and acceptable completion of the Work, together with the necessary supplies for upkeep and maintenance.

Extra Work - Work that was not required or provided for in the original Contract.

Extra Work Order - A written document amending the Contract by adding, deleting, or modifying the Contract to include price, time and/or Extra Work and/or conditions not previously addressed within the Contract. Each Extra Work Order shall be executed by the Contractor and the County as indicated by the signature of the Contractor’s duly and legally authorized representative and the County Executive or his/her legally authorized designee, with evidence thereof of review for legal sufficiency by the County’s Office of Law.

Federal Agencies - Reference to any federal agency or official shall be deemed made to any agency or official succeeding in conformance with law or regulations to the powers, duties, jurisdictions, and authority of the agency or official mentioned.

Final Acceptance for Maintenance - The date upon which all the Work is sufficiently complete in accordance with the Contract so that the County can occupy and utilize the Work for the purposes for which it was intended, and more specifically, the date that the Engineer makes written acceptance of all Work under the Contract for the purpose of the County assuming maintenance responsibilities for all Work, as further described in Section GP-5.13(b) of the Standard Specifications. Final Acceptance for Maintenance will also be considered Substantial Completion for purposes of the Contract and the Work.

Fixed-Price Items - Unit prices established and prescribed by the County to compensate for the cost of Work and Materials that may or may not be necessary for the proper completion of the Contract, and the quantities of which are not amenable to the reliable quantitative estimate prior to Construction. Fixed-Price Items are shown on the Proposal sheets with the estimated quantities, fixed price, and estimated total cost imprinted prior to issuance of the Contract Documents to Bidders.

Full and Final Completion - The date upon which the County acknowledges in writing that the Contractor fully and finally completed all aspects of the Contract and the Contract Work, and met all terms, conditions and obligations of the Contract, as further described in Section GP-8.11 of the Standard Specifications.

General Provisions or GP - Contract provisions published as part of, or provided as a supplement to these Standard Specifications intended for general application and repetitive use.

Highway or Road - Includes rights-of-way, surfaces, Subgrades, Shoulders, Median dividers, drainage facilities and Structures, Road cuts, Road fills, traffic barriers, Bridges, Highway grade elimination Structures, tunnels, overpasses, underpasses, interchanges, entrance plazas, approaches and other Structures forming an integral part of a street, Road, or Highway; including bicycle and walking paths and related storm water management facilities and Structures. In addition, the terms include any other property acquired for the Construction, operation, or use of the Highway.

Highways Standards - Official MdSHA “Book of Standards, Highways and Incidental Structures” edited by the MdSHA with the latest incorporated revisions issued on or before the date of Advertisement of the Contract. These Highway Standards are used where County projects are constructed within MdSHA rights-of-way, or as directed by these Specifications or by the Engineer.

Holidays – Holidays only occur on:

January 1	New Year’s Day
3rd Monday in January	Martin Luther King’s Birthday
3rd Monday in February	President’s Day
4th Monday in May	Memorial Day
July 4	Independence Day
1st Monday in September	Labor Day
2nd Monday in October	Columbus Day
November 11	Veteran’s Day
4th Thursday in November	Thanksgiving Day
December 25	Christmas Day

All days of general and congressional elections (not primary elections) throughout the State.

If a Holiday falls on a Sunday, the following Monday shall be deemed and treated as a Holiday.

If a Holiday falls on a Saturday, the Friday immediately preceding shall be deemed and treated as a Holiday.

Informal Contract - A Private Contract not exceeding twenty-five thousand dollars (\$25,000), subject to the approval of the County's Department of Permits, Approvals and Inspections, bid on a lump sum basis, and not requiring a Contractor Performance Bond or Payment Bond. Informal Contracts may be used for commercial water meters and detector checks two (2) inches and smaller, fire hydrants, sanitary connections, residential water and sewer house connections for four (4) lots or less, and small road and drain projects not exceeding the twenty-five thousand dollars (\$25,000).

Inspector - The authorized representative of the Engineer assigned to make detailed inspection of any or all portions of the Work.

Interim Supplemental Specifications or ISS – Those items required by the Department and the County for all County contracts, which shall be included as part of the Contract Documents and incorporated into the Contract, but which are not formally published in the Standard Specifications. The ISS control over the Standard Specifications but do not control over the Special Provisions.

Laboratory - The testing Laboratory of the State Highway Administration (or other administrations) or any other testing Laboratory designated by the Engineer.

Landscaping (Highway) or Roadside Development - Work for the preservation of natural and landscaped areas and the rehabilitation and protection against erosion of all areas disturbed by Construction through turf establishment and the placing of other ground covers, suitable planting, and other improvements to increase the effectiveness and enhance the appearance of the Highway.

Major Contract Items - The original Contract Items of greatest cost, excluding Contingent Items, (computed from the original price and estimated quantity or lump sum price) plus such other Contract Items next in sequence of lower cost (computed in like manner) as are necessary to show a total cost of original prices and quantities of not less than sixty percent (60%) of the original total cost of the Work, Bid and/or Proposal.

Median - The portion of a divided Highway separating the Traveled Ways for traffic in opposite directions.

Materials - Any substances and/or goods specified for use in the Construction of the Work and its appurtenances.

Minor Contract Items - All Contract Items other than the Major Contract Items and Contingent Items.

Minor Structure - Any structure not classified as a building, Bridge or Culvert. Minor Structures include, but are not limited to, catch basins, fences, inlets, manholes, retaining walls, steps and other miscellaneous items.

Notice to Proceed - A Written Notice to the Contractor of the date on or before which Contractor shall begin the prosecution of the Work to be done under the Contract.

Partial Acceptance for Maintenance - The date upon which the Engineer makes written acceptance of a unit or portion of the Work under the Contract and the County assumes maintenance responsibilities for only that unit or portion of Contract Work, as further described in Section GP-5.13(a) of the Standard Specifications.

Pavement Structure - The surface, base, or Subbase Course placed in layers on a Subgrade to support and distribute the traffic load to the Roadbed.

Pay Item - An item of Work specifically described and for which a price, either unit or lump sum, was provided in the form of a County-approved Bid Item. It includes the performance of all Work described therein.

Payment Bond - A County-approved form of security furnished and executed by the Contractor and Contractor's Surety as a guaranty of good faith to pay promptly, or cause to be paid promptly, in full, such sums as may be due for Material and/or labor supplied or performed, and/or services rendered by third parties in the prosecution of the Work under the Contract. This Payment Bond is in addition to the Performance Bond.

Performance Bond - The County-approved form of security, furnished and executed by the Contractor and Contractor's Surety, guaranteeing Full and Final Completion of the Work in complete compliance with and in accordance with the Contract and all Contract Documents. This Performance Bond is in addition to the Payment Bond.

Person - A corporation, partnership, individual, sole proprietorship, joint venture, or any other legal entity through which commercial activity is conducted.

Plans - The official drawings issued by the Administration as part of the Contract Documents, including, but not limited to, those incorporated in the Contract Documents by reference.

Private Contract - A private contract for Highway, storm drain, water main, utilities, roads, and sanitary sewer Construction let by applicants or Persons, by procedures pursuant to Public Works Agreements with County at no cost to County. The developer, in such a Private Contract, obtains the bid privately using contract forms provided by the Department's Division of Construction Contracts Administration. Private Contracts bearing the letters "UA" or "RA" within their Contract Numbers are governed and initiated by the Baltimore County Department of Permits, Approvals and Inspections Policy for the Construction of Improvements Under Private Contracts, pursuant to Baltimore County Code Section 32-4-301, as amended, and shall be referred to as UA and/or RA, as applicable, in these Standard Specifications.

Procurement Agency - Baltimore County, Maryland, a body corporate and politic.

Profile Grade - The trace of a vertical plane intersecting the top surface of the proposed wearing surface usually along the longitudinal center line of the Road. Profile Grade means either elevation or gradient of the vertical plane.

Proposal – A written submission including, but not limited to, price, terms of sale, and description of work technical expertise, work experience, and any other information requested in the Bid Package, offered by a Bidder to the County in response to the County’s Bid Package or request for Proposal.

Proposal Affidavit – An affidavit form (included in the Invitation for Bid) to be a certified form executed by a legally authorized representative of the Bidder and required to accompany a Bid.

Proposal Form - Includes, but is not limited to, the Standard Specifications and any Contract Document included and/or incorporated by reference therein, used by the County for soliciting and procuring Bids by competitive sealed Bid and/or requests for Proposals and/or small procurement procedures including, but not limited to, requests for quotations, requests for Bids, etc.

Proposal Guaranty - The security required and described in the Bid Package and GP- 2.07 to be included in the Proposal and furnished by the Bidder as a guaranty of good faith to enter into a Contract with the County if the Work is Awarded to said Bidder.

Questionnaire - The approved form or forms upon which the Contractor shall furnish the information as to its ability to perform the Work, its experience in similar Work, the Equipment to be used, and its financial condition as related to its ability to finance the Work.

RA - A private contract for Highway, storm drain, water main, and sanitary sewer Construction is let by land developers, by procedures pursuant to Public Works Agreements with Baltimore County, Maryland. The developer, in such a Contract, obtains the Bid privately using Contract forms provided by the Division of Construction Contracts Administration. Private Contracts bearing the letters “RA” within their Contract Numbers are governed by the Baltimore County Department of Permits, Approvals and Inspections Policy for the Construction of Improvements Under Private Contracts pursuant to Baltimore County Code Section 32-4-301, as amended, and shall be referred to as RA and/or UA Contracts or RA and/or UA in these Standard Specifications.

Ramp - A connecting Road between two intersecting Highways at a Highway separation.

Regional Engineer - Unless an official is expressly identified in writing by the County or expressly stated in the Contract Documents, Regional Engineer means any one of the following:

Director of the Department, or his authorized delegated representative,
Deputy Director of the Department (if applicable),
Chief, Division of Construction Contracts Administration of the Department, or

Chief, Bureau of Engineering & Construction of the Department.

Any delegation of the Regional Engineer's authority must be authorized in writing by any one of the above listed officials or expressly stated in the Contract, and such delegation of authority will pertain only to the specific Contract and/or Contracts as expressly stated in the authorization.

If the Regional Engineer's authority is delegated as specified above to another County department or office, "Department" shall mean the County department or office delegated such authority, and any references to a director, deputy director, chief, division, or bureau shall mean the corresponding official, employee, division, bureau or office of the County department delegated such authority, as applicable and appropriate; provided that, any references to "Department" rules, lists, or published and/or adopted materials shall continue to refer to the County Department of Public Works.

Repair - To restore after injury, deterioration, or wear; to mend, to renovate, by such means as appropriate, and to supply such Materials and labor as necessary to render the item to be repaired sound, solid, true, plumb, square, even, smooth, and fully serviceable. Upon completion of such repair it must be, unless otherwise stated, rendered to such condition as to present a first-class finished work, or in instances where the repaired item serves as a base for additional finish, the repaired work must be such as to permit a first-class finish, to be applied without extra cost to the County. When the word "Repair" is used in connection with machinery or mechanical Equipment, it shall mean, in addition to the above, rendering the Equipment completely serviceable and efficient, ready for the normal use for which it was originally intended.

Responsible Bidder - A Person who is a Prequalified Contractor, as further described in these Standard Specifications and pursuant to the County's Rules for Prequalification of Contractors, as described in GP-2.00 of these Standard Specifications, and who has the capability in all respects to perform fully the Contract requirements and to perform all mandatory and essential requirements of the Bid, and the integrity and reliability that shall assure good faith performance.

Responsive Bid - A Bid submitted in response to a Bid Package that conforms in all material respects to all requirements contained in the Bid Package, including, but not limited to, all mandatory and essential requirements of the Bid.

Responsive Bidder - A Responsible Bidder whose Bid conforms in all material respects to the Bid Package, including, but not limited to, all mandatory and essential requirements of the Bid.

Right-of-Way - The area that has been acquired and reserved by the County for use in constructing the proposed improvement and appurtenances thereto. The area may be held by the County for use in constructing the proposed improvements and appurtenances thereto. The area may be held by the County in fee simple or as an Easement -- perpetual or temporary, recorded or unrecorded.

Roadbed - The graded portion of a Highway within the top and side Slopes prepared as a foundation and/or the top surface of a Road upon which the Pavement Structure, Shoulders, and curbs are constructed.

Road, Roadway or Highway - The words Road, Roadway and Highway include rights-of-way, surfaces, Subgrades, Shoulders, Median dividers, drainage facilities and Structures, Roadway cuts, Roadway fills, traffic barriers, Bridges, Highway grade elimination Structures, tunnels, overpasses, underpasses, interchanges, entrance plazas, approaches, and other Structures forming an integral part of a street, Road, Roadway, or Highway; including bicycle and walking paths and related storm water management facilities and Structures. Any other property acquired for the Construction, operation, or use of the Highway.

Roadside - A general term denoting the area adjoining the outer edge of the Roadbed within the Right-of-Way. Extensive areas between the Road of a divided Highway may also be considered Roadside.

Roadside Development - Work for the preservation of natural and landscaped areas and the rehabilitation and protection against erosion of all areas disturbed by Construction through turf establishment and the placing of other ground covers, suitable planting, and other improvements to increase the effectiveness and enhance the appearance of the Highway.

Seal Coat - An application of asphalt material followed by an application of cover coat aggregate.

Shoulder - The portion of the Roadbed contiguous with the Traveled Way for accommodation of stopped vehicles, for emergency use, and for lateral support of base and Surface Courses.

Sidewalk - The portion of the Road constructed for use by pedestrians.

Slopes - The inclined graded areas beyond the Shoulder, extending from the Shoulders to the natural, undisturbed surface of the ground.

Special Provisions or SP - Specifications for a specific item or condition or requirement peculiar to the Work and not otherwise thoroughly or satisfactorily detailed elsewhere in the Contract Documents. If a Special Provision or SP is in conflict with any portion of the Contract Documents, the Special Provisions shall always control and prevail. Specifically, the Special Provisions control over the Standard Specifications and the Interim Supplemental Specifications.

Standard Details / Standard Detail Drawings / Baltimore County Standard Details for Construction - The Baltimore County, Maryland Department of Public Works Standard Details for Construction published by the Administration for general application and repetitive usage, as may be supplemented, revised and superseded by the Contract Documents, which include detail drawings showing standard methods of Construction for water mains, sanitary sewers, storm drains, roads and streets.

Standard Specifications - The Baltimore County Department of Public Works Standard Specifications for Construction and Materials published by the Administration for general application and repetitive use, as may be supplemented, revised and superseded by the Contract Documents.

State - The State of Maryland.

State Agency - A State agency or official thereof, including any agency or official succeeding to their powers, duties, jurisdictions and authority in accordance with law.

State Highway System - The system of Roads owned, operated, or maintained by the State of Maryland.

State Road - Any public Road included in the Maryland State Highway System.

Structure(s) - Bridges, culverts, catch basins, drop inlets, retaining walls, cribbing, manholes, end walls, buildings, sewers, service pipes, underdrains, foundation drains, steps, fences, and other features that may be encountered in the Work and not otherwise classified.

Subbase - The layers of specified or selected material of designed thickness placed on a Subgrade to support a Base Course or Surface Course.

Subcontract - Any agreement entered into by the Contractor with a Subcontractor for a portion of the Construction or any other part of the Work in connection with, and under the terms of, the Contract.

Subcontractor - Any Person undertaking a portion of the Construction or any other part of the Work under the terms of the Contract, by virtue of an agreement with the Contractor. Subcontractor does not include an employee with an employment contract, or an employee organization with a collective bargaining agreement. It includes one who furnished Material worked to a special design according to the Plans and Specifications for the Work. It excludes one who merely furnished Material not so worked.

Subgrade (Highways) - The top surface of a Roadbed upon which the Pavement Structure, Shoulders, and curbs are constructed.

Subgrade (Pipes) - The soil foundation layer upon which a pipe, cradle, or encasement is placed such that the prescribed invert elevation of the pipe will be achieved.

Subgrade (Structures) - The soil foundation layer upon which the structural foundation is built to achieve prescribed elevations of subsequent structural elements or controls.

Substantial Completion / substantial completion - The date upon which all the Work is sufficiently complete in accordance with the Contract so that the County can occupy and utilize the Work for the purposes for which it was intended, and more specifically, the date that the Engineer makes written acceptance of all Work under the Contract for the purpose of the County assuming maintenance responsibilities for all Work, as further described in Section GP-5.13(b) of the Standard Specifications. Substantial Completion will also be considered Final Acceptance for Maintenance for purposes of the Contract and the Work.

Substructure - All of that part of the Structure below bottoms of bearings of simple and continuous spans, skewbacks of arches and tops of footings of rigid frames, together with the back walls and wing walls.

Superintendent - The executive representative of the Contractor duly authorized by the Contractor, in accordance with Contractor's organizational documents and requirements to receive and execute instructions from the Engineer, and who shall supervise and direct the Construction and the Work.

Superstructure - All of that part of the Structure above bottoms of bearings of simple and continuous spans, skewbacks of arches and tops of footings of rigid frames, except as noted above for Substructure.

Supplemental Agreement - Any written Contract Modification or Change Order evidencing, among other things, the terms, conditions, costs and time, mutually agreeable to the Contractor and the County as indicated by the signature of the Contractor's duly and legally authorized representative and the County Executive or his/her legally authorized designee, with evidence of review for legal sufficiency by the County's Office of Law.

Surety - The Person providing any or all of the Contract Bonds for the Contractor, for the Bid and the Full and Final Completion of the Contract and/or for the payment for all of the Work in connection with the Contract.

Surface Course - One or more layers of a pavement designed to accommodate direct traffic loading.

Technical Provisions - The technical provisions included in the Proposal Form and/or Invitation for Bid, which are a part of and incorporated into the Contract.

Third Tier Contracting - The process where the Contractor subcontracts a portion of the Contract to a Subcontractor who in turn subcontracts a portion of the Contract to a third party. This latter action is termed entering into a Third Tier Contract.

Traveled Way - The portion of the Roadway for the movement of vehicles, exclusive of Shoulders.

Trench - An excavation made for the purpose of installing or removing pipes, drains, catch basins, etc., which is later refilled.

UA - A private contract for Highway, storm drain, water main, and sanitary sewer Construction is let by land developers, by procedures pursuant to Public Works Agreements with Baltimore County. The developer, in such a Private Contract, obtains the bid privately using contract forms provided by the Department's Division of Construction Contracts Administration. Private Contracts bearing the letters "UA" within their Contract Numbers are governed by the Baltimore County Department of Permits, Approvals and Inspections Policy for the Construction of

Improvements Under Private Contracts, pursuant to Baltimore County Code Section 32-4-301, as amended, and shall be referred to as UA and/or RA Contracts or UA and/or RA in these Standard Specifications.

Unclassified Excavation - Excavation not defined within Standard Specifications' classifications, including, but not limited to, rock, logs, stumps, water, debris. (Excavation of all utility Trenches to subgrade.)

Utility Agreements/Right-of-Way Agreements or UA/RA- These UA/RA are initiated in the County Department of Permits, Approvals and Inspections (PAI), or any successor County department, by the applicant, including, but not limited to developers, schools, or commercial property owners for the Construction and installation of improvements to utilities or roads at no cost to the County. PAI reviews and approves, if and as applicable, the cost estimates, Construction drawings, UA and/or RA, as applicable, and collects any security and fees.

Utility Companies – Entities or Persons which may have utility facilities in a proposed Work area (e.g. BG&E and Verizon, etc.)

Work – The Contractor's furnishing of all labor, Materials, Equipment, services, supplies, Construction, construction-related services and/or other incidentals necessary to successfully perform and complete the Contract and carry out of all the duties and obligations imposed by the Contract.

Working Day - A Calendar Day upon which, in the judgment of the Engineer, weather and soil conditions are such that the Contractor can advantageously Work more than half of his current normal force for more than five (5) consecutive hours on a Controlling Operation. Working Days will not be charged on Saturdays, Sundays, and Holidays unless the Contractor actually Works more than five (5) hours on a Controlling Operation.

Working Drawings - Stress sheets, shop drawings, fabrication details, erection Plans, Plans for false work, forms, centering, cribs, cofferdams and masonry layouts, bending and placing drawings, bar schedules for reinforcement steel, and any other supplementary Plans or similar data that the Contractor may be required to furnish.

Written Notice - Shall be deemed to have been duly served if delivered with signed receipt or if sent by certified registered mail with signed receipt to the last business address known to party who gives the notice.

GP - SECTION 2 BIDDING REQUIREMENTS AND CONDITIONS

GP-2.00 GENERAL

All terms that are capitalized in this GP - Section 2 shall be in accordance with the Department Rules for Prequalification of Contractors, adopted November 28, 2006. Only the Bid of a

Contractor who holds a valid Certificate ten (10) Days prior to the date of Bid Opening will be considered. A Prequalified Contractor is one whose rating and classification have been determined by the Prequalification Committee and ratified by the Director of the Department.

All applicants for prequalification must comply with all Procedures for Prequalification as described in Article II of the Rules for Prequalification of Contractors.

All information must be filed with the Department in sufficient time for action to be completed ten (10) Days before the date of Bid opening.

A prospective Bidder, when prequalifying, shall state in the Application the extent and type of work it considers it is qualified to handle at one time and shall show the exact type of work it has performed during the preceding five (5) years. The information and all other information required by Procedures for Prequalification, as described in Article II of the Rules for Prequalification of Contractors, shall be the basis for a determination of the Bidder's financial rating and work classifications. Following the evaluation, the Contractor may receive a Certificate of Prequalification from the Director of the Department of Public Works.

A Prequalification Certificate, subject to the following provision, is valid through the expiration date stated on the Certificate. The County reserves the right to re-evaluate a Prequalified Contractor. A Bidder who holds a Prequalification Certificate shall furnish additional information bearing on its qualification as may be required. The County reserves the right to reject unopened the Bid of any Bidder who fails to furnish promptly and properly all the information called for when so notified.

A Contractor, dissatisfied with its rating or classification or both, may request a reconsideration on the basis of additional or revised information submitted to the committee in writing and may request a meeting with the Prequalification Committee to support its resubmittal in accordance with the Rules for Prequalification.

EACH BIDDER AND/OR APPLICABLE SUBCONTRACTOR SHALL FURTHER QUALIFY AS OTHERWISE REQUIRED IN THE CONTRACT DOCUMENTS.

A prospective Bidder may purchase Plans if his Prequalification Certificate is valid. Materials suppliers and other interested parties may purchase Plans without prequalification, such Plans to be marked: "NOT FOR BIDDING PURPOSES".

GP-2.01 BID IRREVOCABLE

Unless otherwise provided in the Bid Package, Bid prices are irrevocable for ninety (90) Days following Bid opening.

GP-2.02 CONTENTS OF BID FORMS

All papers included in, bound thereto or attached to the Invitation for Bid and/or the Proposal Form are necessary parts thereof and shall not be detached, separated or altered. The Plans, Standard Specifications, and all other Contract Documents are part of the Invitation for Bid and/or the Proposal Form whether attached thereto or not.

GP-2.03 INTERPRETATION OF QUANTITIES IN BID SCHEDULE

Where designated as estimated quantities, the quantities in the prepared Invitation for Bid are approximate only. Payment to the Contractor will be made only for the actual quantities of Work performed or Materials furnished in accordance with the Contract and as provided in GP-4.04, Variations in Estimated Quantities.

GP-2.04 SITE INVESTIGATION

The Contractor acknowledges that it has investigated and satisfied itself as to the conditions affecting the Work, including but not restricted to those bearing upon transportation, disposal, handling and storage of Materials, availability of labor, water, electric power, Roads and uncertainties of weather, river stages, tides or similar physical conditions at the site, and the Contractor has further confirmed conditions of the ground, and the character of Equipment and facilities needed preliminary to and during prosecution of the Work. The Contractor further acknowledges that it has satisfied itself as to the character, quality and quantity of surface and subsurface Materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory Work done by the County, as well as from information presented by the drawings and Standard Specifications made a part of this Contract. Any failure by the Contractor to acquaint itself with the available information will not relieve Contractor from responsibility for estimating properly the difficulty or cost of successfully performing the Work. The County assumes no responsibility or liability of any kind, nature or amount for any conclusions or interpretations made by the Contractor on the basis of the information made available by the County.

Notwithstanding anything to the contrary in the Standard Specifications or the Contract Documents, including, but not limited to, GP-4.05, any and all subsurface soil/test borings, sample borings, boring logs, test pits, and/or related documents, reports or materials (collectively, the "Boring Materials") provided by the County, or its engineer, architect, or consultant, to any Bidders or the Contractor are for the convenience of the Bidders and/or the Contractor. THE COUNTY NEITHER EXPRESSLY NOR IMPLIEDLY WARRANTS OR GUARANTEES THAT THE ACTUAL SITE CONDITIONS ENCOUNTERED UNDER THIS CONTRACT WILL BE THE SAME OR SIMILAR TO THOSE SITE CONDITIONS INDICATED BY ANY BORING MATERIALS.

THE CONTRACTOR HAS THE EXPRESS DUTY AND RESPONSIBILITY TO EXAMINE AND SATISFY ITSELF AS TO THE PHYSICAL CONDITIONS OF THE CONTRACT SITE, including, but not limited to, conformation and condition of the ground, character, quantity, and quality of subsurface materials which may be encountered, surface and subsurface conditions

including the presence of rock or groundwater, and all other physical conditions of the Contract site which may affect the Contractor's performance and/or costs and expenses under the Contract. THE CONTRACTOR SHALL NOT RELY ON THE COUNTY AND/OR ANY BORING MATERIALS TO FULFILL THIS EXPRESS DUTY AND RESPONSIBILITY UNDER THE CONTRACT.

NO ADDITIONAL COMPENSATION OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, ADJUSTMENT OF COST OR SCHEDULING, WILL BE CONSIDERED BY THE COUNTY FOR THE CONTRACTOR'S FAILURE TO PROPERLY EXAMINE AND SATISFY ITSELF AS TO THE PHYSICAL CONDITIONS OF THE CONTRACT SITE. NOR WILL SUCH FAILURE BY THE CONTRACTOR RELIEVE THE CONTRACTOR OF ITS OBLIGATIONS, RESPONSIBILITIES, AND LIABILITIES TO ACHIEVE FULL AND FINAL COMPLETION OF THE CONTRACT TO THE COUNTY'S SATISFACTION.

GP-2.05 TAXES - RESPONSIBILITY FOR PAYMENT, EXEMPTIONS, FORMS TO FILE, ETC.

(a) The Contractor is responsible for, and by submitting a Bid agrees to pay, all retail sales, income, real estate, sales and use, transportation and special taxes applicable to and assessable against any Materials, Equipment, processes and operations incident to or involved in the Construction and/or Work. The Contractor is responsible for ascertaining and acquainting itself with such taxes and making all necessary arrangements to pay same.

(b) The County's Director, Office of Budget and Finance, may not authorize payment to a Contractor who has submitted an invoice if that Contractor is indebted by virtue of unpaid taxes or other obligations when in an amount of fifty dollars (\$50) or more to the State of Maryland or any County department or agency or affiliated entity. In this regard, Contractors shall indicate their federal tax identification or social security number as required by the Rules for Prequalification of Contractors.

(c) If taxes or other obligations are owed to the State of Maryland or any County department or agency or affiliated entity, payment shall be deferred, and the Contractor shall be promptly notified. Subsequent release of the deferred payment shall be made promptly when the taxes or other obligations are satisfactorily resolved with no late fee and/or interest of any kind thereon.

(d) The County hereby reserves the right to withhold final payments under this Contract until the Contractor and/or any Subcontractors and/or Third Tier Contracting parties performing any duties under this Contract have paid all taxes or other obligations due the State or the County or any County affiliated entity.

GP-2.06 PREPARATION OF BID

(a) The Bidder shall submit the Bid upon the blank forms furnished by the Administration. The Bidder shall specify a price in U.S. dollars and cents for each Bid Item given, and shall show

the products of the respective unit prices and quantities written in figures in the column provided for that purpose, together with the total amount of the Bid obtained by adding the amounts of the several items.

(b) The Bid Form(s), including the fully and properly executed MBE/WBE forms, shall be filled out legibly in ink or typed. The Bid shall be signed by the Contractor's duly and legally authorized representative or officer, if and as applicable, of the Bidder, and attested by the Contractor's appropriate officer, if and as applicable. There must be on file with the County a copy of the current organizational documents and/or resolution, duly certified by the corporate secretary, if applicable, showing the authority, of the Person so signing on behalf of the Contractor. In lieu thereof, the Contractor may file such evidence with the Administration, duly certified by the corporate secretary, if applicable, together with a list of the names of the Contractor's officers having legal and authority to execute Contract Documents on behalf of and legally bind the Contractor, duly certified, if applicable, which listing shall remain in full force and effect, and shall be materially relied upon by the Administration, until the Director of the Department receives Written Notice to the contrary. In any case, where a Bid is signed by an attorney in fact, the same must be accompanied by a copy of the appointing document, duly certified as described above. All Bids shall be signed in ink. All erasures and/or alterations shall be initialed by the signer in ink.

(c) If the Bid Package requires the Bidder to furnish samples or descriptive literature, it shall be submitted with the Bid, unless the Bid Package provides otherwise.

(d) Bidders must specifically identify any portions of their Proposals deemed to contain confidential, proprietary information or trade secrets. Such designations will not necessarily be conclusive and Bidders may be required to justify why such material should not, upon request, be disclosed by the County under the Maryland Public Information Act, Title 4, of the General Provisional Article of the Annotated Code of Maryland, as amended.

(e) Bid Items for which quantities are identified in the "Summary of Quantity" sheet of the Plans, in the column headed "Contingent" or listed in the "Bid Form" are established for the purpose of obtaining Bids on one or more Bid Items that may be incorporated into the Work.

The Engineer shall have sole discretion in determining whether and to what extent such Bid Items will be incorporated into the Work. The Engineer may order incorporation of such Bid Items at any location within the Contract and at anytime during the Work. These Bid Items may not be located on the Plans. The estimated quantities set out in the Bid Package for such Bid Items are presented solely for the purpose of obtaining a representative Bid price. The actual quantities employed may be only a fraction of, or many times the estimated quantity. Neither party shall make claims for additional compensation because of any increase, decrease or elimination of such Bid Items.

The Contractor is required to pay tax, as applicable, on Materials and supplies that will be incorporated into the Work. The Contractor must pay tax, as applicable, on all Equipment that is purchased and pertains to the Work

Revised,
October 1, 2015

GP-2.07 PROPOSAL GUARANTY/BID SECURITY

No Proposal will be considered unless accompanied by a guaranty of the amount specified in the Proposal in the form of either a certified check, bank cashier's check or a Bid Bond on the form provided therein or an exact facsimile thereof. The Bid Bond must be executed by a Surety that is, as of the date of the Bid: (a) licensed in the State of Maryland, (b) rated "B" or better by the A.M. Best Company, (c) on federal funded projects, authorized by the underwriting limitation contained in the U.S. Department of the Treasury Circular 570, as amended, to guaranty the amount of the Bid, and (d) in good standing as determined by the County's Engineer. The Bid Bond must guaranty payment to the County of liquidated damages as follows: (a) if only one Bid is received, the guaranteed payment shall be five (5%) percent of the Bidder's Bid amount, (b) if two or more Bids are received, the guaranteed payment shall be the difference between the Bidder's Bid amount and the next lowest Bid amount, subject to the limitation that the guaranteed payment not be greater than five (5%) percent of the Bidder's Bid amount. This Bid Bond is required in case the successful Bidder, after issuance of notice of Award, fails to comply, timely and completely, with each of the requirements set forth under Section GP-3.04.

GP-2.08 DELIVERY OF BIDS

Each Bid must be submitted in a sealed envelope plainly marked to indicate its contents. When sent by mail, the sealed Bid must be addressed to the Administration at the address and in care of the official in whose office the Bids are to be received. All Bids shall be filed prior to the time and at the place specified in the Bid Package. Bids received after the time for opening of Bids will be treated in accordance with the provisions of GP-2.12.

GP-2.09 COMMUNICATIONS AND INTERPRETATIONS - PRIOR TO BID OPENING

Any information regarding the requirements or the interpretation of any provision of the General Provisions, Special Provisions, Standard Specifications, Interim Supplemental Specifications or any part of the Bid Package, Bid and/or Bid Form shall be requested, in writing, from the Engineer, and delivered no later than five (5) Days prior to the scheduled date of Bid opening. Responses to questions or inquiries having any material effect on the Bids shall be made by written addenda, or by written notice sent to all purchasers of Contract Documents. **THE CONTRACTOR SHALL NOT MAKE VERBAL INQUIRIES TO THE COUNTY, AS VERBAL INQUIRIES MAY NOT BE ACKNOWLEDGED AND SHALL NOT BE BINDING UPON THE COUNTY IN ANY MANNER OR EXTENT.**

Any and all verbal interpretations and/or oral pre-Bid statements made by the Engineer, County employees or their respective representatives and/or agents shall not be binding in any manner or extent upon the County.

Revised
February 4, 2015

Pre-Bid conferences may be conducted by the Department of Public Works or the applicable County agency or department. If they are to be conducted, notice of the same will be contained in the Bid Package. Any minutes of Pre-Bid conferences are provided as a courtesy to the Bidders and ANY MINUTES PROVIDED ARE NOT BINDING UPON THE COUNTY IN ANY MANNER OR EXTENT.

GP-2.10 AMENDMENTS TO INVITATIONS FOR BIDS

- (a) **Form.** Pre-Bid amendments shall be identified as addenda and shall require that the Bidder acknowledge receipt of all addenda issued. The addenda shall reference the portion of the proposed Invitation for Bid and/or Proposal Form it amends. Any addenda shall be issued in writing by the County.
- (b) **Distribution.** Addenda shall be sent to all purchasers of Contract Documents.
- (c) **Timeliness.** Addenda shall be distributed to allow Bidders a reasonable time to consider them in preparing their Bids. The Bid receipt date shall be changed in the addenda only if the distribution of the addenda, in the sole determination of the Administration, does not permit timely preparation and distribution thereof. If the Administration deems that there is adequate time for consideration of the addenda, the addenda may be silent as to the Bid receipt date.

GP-2.11 PRE-OPENING MODIFICATION OR WITHDRAWAL OF BIDS

- (a) **Procedure.** Bids may be modified or withdrawn by Written Notice executed by a duly and legally authorized representative of the Bidder, received in the office designated in the Bid Package before the time and date set for Bid opening.
- (b) **Disposition of Bid Security.** If a Bid is withdrawn in accordance with this GP-2.11, the Bid Bond, if any, shall be returned to the Bidder.

GP-2.12 LATE BIDS, LATE WITHDRAWALS, AND LATE MODIFICATION

- (a) **Policy.** Any Bid is late if not received at the place designated in the Invitation for Bid and/or Proposal Form at or prior to the time and date set for receipt of Bids. Any request for withdrawal or request for modification received at the place designated in the Invitation for Bid and/or Proposal Form after the time and date set for receipt of Bids is late.
- (b) **Treatment.** A late Bid, late request for modification, or late request for withdrawal shall not be considered. Late Bids will be returned to the Bidder unopened.

GP-2.13 OPENING AND RECORDING OF BIDS

(a) Bids, and modifications pursuant to GP-2.11, shall be opened publicly, at the time, date, and place designated in the Bid Package. The name of each Bidder, the Bid price, and such other information as is deemed appropriate by the County shall be read aloud or otherwise made available to the public. This information also shall be recorded at the time of Bid opening. The Bids shall be tabulated or a Bid abstract made. If the Bidder designates in writing trade secrets or other proprietary data to be confidential, in accordance with applicable State law, regulations, and/or these Standard Specifications including, but not limited to, GP-2.06, material so designated in writing by the Bidder shall accompany the Bid but Bidder shall make such readily separable from the Bid in order to facilitate public inspection of the nonconfidential portion of the Bid. After Contract Award, prices, makes, and model or catalog numbers of the items offered, deliveries, and terms of payment shall be available for public inspection at a reasonable time regardless of any designation to the contrary at the time of Bid opening.

(b) The Engineer shall examine the Bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing by the Bidder. Confidential, proprietary information, and trade secrets furnished by a Bidder may be disclosed to State and/or other County department, or agencies if there is a need for the information and may not be disclosed outside of the County except as provided by the Maryland Public Information Act or other applicable laws and/or regulations.

GP-2.14 MISTAKES IN BIDS

(a) **Mistakes Discovered Before Opening.** A Bidder may correct mistakes discovered before the time and date set for Bid opening by withdrawing or correcting the Bid as provided in GP-2.11.

(b) **Mistakes Discovered After Opening But Prior To Award.** If the Director of the Department knows or has reason to conclude that a mistake may have been made, the Bidder may be required to confirm the Bid. Situations in which confirmation may be requested include obvious, apparent errors on the face of the Bid or a Bid unreasonably lower than the other Bids submitted. If the Bidder alleges mistake, the Bid may only be corrected or withdrawn upon the written approval of the County's Director, Office of Budget and Finance, as follows:

(1) If the mistake and intended correction are clearly evident on the face of the Bid document, the Bid shall be corrected to the intended correct Bid and may not be withdrawn. Examples of mistakes that may be clearly evident on the face of the Bid document are typographical errors, errors in extending unit prices, transposition errors, and arithmetical errors.

(2) Subject to the written approval of the County's Director, Office of Budget and Finance, a Bidder may be permitted to withdraw a low Bid if:

(a) A mistake is clearly evident on the face of the Bid document but the intended correct Bid is not similarly clearly evident; or

(b) The Bidder submits proof of evidentiary value that clearly and convincingly demonstrates that a mistake was made.

(c) **Mistakes Discovered After Award.** Mistakes may not be corrected after Award of the Contract unless and only when the County's Director, Office of Budget and Finance, determines that it would be unconscionable not to allow the mistake to be corrected. Changes in price are not permitted, except as allowed in the County's sole discretion. Corrections, if permitted, shall be submitted to and approved by the County's Director, Office of Budget and Finance before being incorporated into the Contract.

GP-2.15 MINOR IRREGULARITIES

Minor irregularities in Bids, as defined below, may be waived if the County's Director, Office of Budget and Finance, determines, in his sole discretion, that it shall be in the County's best interest. The County's Director, Office of Budget and Finance, may either give a Bidder an opportunity to cure any minor irregularity in its Bid, or waive the minor irregularity where it is to the County's advantage to do so.

When at any public opening of Bids, a Bid appears to be irregular, as herein specified, this apparent fact may be announced when read. Said Bid shall be read as other Bids and then referred to the Director of the Department for consideration and appropriate action thereon in accordance with these General Provisions, laws and regulations, as applicable.

A minor irregularity is one that is merely a matter of form and not of substance, or pertains to some immaterial or inconsequential defect or variation of a Bid or Proposal from the exact requirement of the Bid Package and/or Proposal Form, the correction or waiver of which would not be prejudicial to other Bidders. The defect or variation in the Bid or Proposal is immaterial and inconsequential when its significance as to price, quantity, quality, or delivery is trivial or negligible when contrasted with the total cost or scope of the Bid Package and the labor, Materials, Equipment, services and supplies being procured, and when the intent and meaning of the entire Bid or Proposal is clear.

GP-2.16 CANCELLATION OF INVITATIONS FOR BIDS

(a) Before opening of the Bids, an Invitation for Bid may be canceled, in whole or in part, when the County determines this action is fiscally advantageous or otherwise in its best interest.

(b) When an Invitation for Bid is canceled before Bid opening, the Bids shall be returned to the Bidders submitting them and notice of cancellation shall be included and no party or Person including, but not limited to, the County shall have any liability or obligation of any amount, kind, or nature to another or any other in connection therewith.

GP-2.17 REJECTION OF INDIVIDUAL BIDS OR PROPOSALS

(a) Any Bid may be rejected, in whole or in part, when it is in the best interest of the County to do so.

(b) Reasons for rejection of a Bid may include but are not limited to:

(1) It is not a Responsive Bid.

(2) Unreasonable price.

(3) The Bidder submitting the Bid is determined to be nonresponsible. A determination of nonresponsibility may be made for, but is not limited to, any of the following reasons:

(a) Bidder debarred or ineligible and period of debarment or ineligibility not expired.

(b) The unit prices contained in a Bid are unbalanced.

(c) Evidence of collusion among Bidders.

(d) Inadequate quantity and/or quality of experience, plant, equipment, financing, manpower or other resources required to perform the Contract.

(e) Bidder's workload that, in the judgment of the Administration, might hinder or prevent the prompt completion of the subject Work if Awarded.

(f) Default by the Bidder on other contracts.

(g) Failure to pay or satisfactorily settle all reasonable and just bills due for labor and material on prior or current contracts.

(h) The same Person has an interest in more than one Bid on a Contract exclusive of being named by another Bidder as a Subcontractor.

(i) Failure to perform satisfactorily on other contracts awarded, and the conditions leading to unsatisfactory performance remain unresolved.

(j) Any other reason affecting the Bidder's ability to perform, or a record of business integrity.

(k) Bidder not otherwise qualified and eligible to receive an Award under applicable laws and regulations.

(4) The Bidder fails to supply information to the Engineer promptly, after notification from the Engineer that such information is required in connection with a determination to be made pursuant to this GP-2.17.

GP-2.18 REJECTION OF ALL BIDS, IN WHOLE OR IN PART

(a) After opening of Bids or Proposals but before Award, all Bids or Proposals may be rejected, in whole or in part, when the Engineer, with the approval of the using-County department or agency head, or his/her designee, determines such rejection is fiscally advantageous or otherwise in the County's best interest.

(b) If and as applicable, notice of rejection of all Bids shall be sent to all Bidders that submitted Bids, and Bids which have been opened shall be retained by the Department's Division of Construction Contracts Administration.

GP-2.19 BID EVALUATION AND AWARD

(a) **General.** The Contract is to be Awarded to a Responsible Bidder who is also a Responsive Bidder and whose Bid meets the requirements and evaluation criteria set forth in the Bid Package, and is either the lowest Bid price or lowest evaluated Bid price, in the County's sole discretion.

(b) **Determination of Lowest Bidder.** Bids shall be evaluated to determine which Bidder offers the lowest cost to the County in accordance with the evaluation criteria set forth in the Bid Package.

Except as otherwise provided under GP-2.14 Mistakes in Bids:

(1) The unit price will govern in the event of a discrepancy between the unit price and the extended price (product of unit price multiplied by the quantity).

(2) The sum of the extended prices will govern in the event of a discrepancy between the total lump sum and the extended prices.

(3) The written words for the lump sum will govern in the event of a discrepancy between the lump sum prices written in words and the lump sum prices written in figures.

(4) If a unit price was omitted, the unit price will be determined by dividing the extended price by the quantity.

The Administration reserves the right to make the Award by Bid Item, or groups of Bid Items, rather than total Bid if it is in the best interest of the County to do so, unless the Bidder expressly stated in its Bid that a particular or progressive Award was not acceptable to the Bidder.

(c) **Award.** Upon determination of the Responsible Bidder who is also a Responsive Bidder, and whose Bid meets the requirements and evaluation criteria of the Bid Package and is the lowest Bidder in accordance with these Standard Specifications and the Bid Package, the Contract may be Awarded to that Bidder. In accordance with these Standard Specifications and the Bid Package, a Contract may be Awarded to a Bidder offering a higher quality item than that designated in the Bid Package if that Bidder is a Responsible Bidder with the lowest Responsive Bid whose Bid meets the requirements and evaluation criteria of the Bid Package.

GP-2.20 TIE BIDS

(a) **Definition.** Tie Bids are Responsive Bids from Responsible Bidders that are identical in price, terms and conditions and which meet all the requirements and evaluation criteria set forth in the Bid Package.

(b) **Award.** If two or more Bidders shall be tied for the lowest Bid, quality and service being equal, the Contract shall be Awarded to the Bidder qualified as a minority, as defined in the State procurement regulations. If both Bidders are qualified minorities, as defined in the State procurement regulations, the Contract shall be Awarded to the minority that is a local Bidder. Please see Baltimore County Code, 2003, as amended, Article 10, Title 2, for more information and the governing statute regarding minority Bidders and local Bidders.

GP-2.21 – Reserved.

GP-2.22 MULTIPLE OR ALTERNATE BIDS

Unless multiple or alternate Bids are requested in the Bid Package, such multiple or alternate Bids may not be accepted. However, if a Bidder clearly indicates a base Bid, it shall be considered for Award as though it were the only Bid submitted by the Bidder.

GP-2.23 BID PROTESTS

(a) **Bidder Protest of Award or Alleged Improprieties.** The Bidder must file a written Bid protest of Award pursuant to this GP-2.23 of the Standard Specifications. The Bid protest of Award must be in writing and filed with the Engineer. Oral objections, whether or not acted on, are not protests.

(1) **Time for Filing.** A Bid protest of Award shall be filed not sooner than the date of Award and not later than three (3) Business Days after the date of Award. A protest based on alleged improprieties in the Bid Package which are apparent before the Bid opening or the closing date for receipt of Bids shall be filed not later than five (5) Business Days before the Bid opening date.

(2) **Content of Written Protest.** The written protest must state: the name and address of the Bidder; the Bid or Contract Number; the reasons for protest; and any supporting exhibits, evidence or documents to support the protest.

(b) **Bidder Protest of Bid Rejection.** The Bidder must file a written Bid protest of Bid rejection with the Engineer not later than three (3) Business Days from the date of the Bid rejection. Oral objections, whether or not acted on, are not protests. The written Bid protest must comply with GP-2.23(a)(2).

(c) **Department Response to Bidder Protest.** The Department's Chief of Division of Construction Contracts Administration, or other designated County official, will review the Bidder's protest, as filed pursuant to GP-2.23(a) or (b), and respond to the Bidder in writing within ten (10) Working Days of receipt of protest.

(d) **Bidder Appeal.** The Bidder may appeal the decision by the Department's Chief of Division of Construction Contracts Administration, or other designated County official, (a) to the County's Director of the Office of Budget and Finance for all MBE/WBE-related protests or (b) to the Director, or other designated County director, for all other protests.

The Bidder must file a written appeal with the relevant director not later than three (3) Business Days from the date of the Department response in GP-2.23(c). Oral objections, whether or not acted on, are not appeals. The appeal must comply with GP-2.23(a)(1) and (2), but may include any additional documentation as deemed necessary and appropriate by the Bidder.

(e) **Director Response to Bidder Appeal.** The relevant County director, as appropriate and applicable, will review the Bidder's appeal under GP-2.23(d) and respond to the Bidder in writing within fifteen (15) Working Days of receipt of appeal.

(f) **Second Bidder Appeal.** The Bidder may appeal the decision by the relevant County director, as appropriate and applicable, to the County Administrative Officer (CAO).

The Bidder must file a written appeal with the CAO not later than three (3) Business Days from the date of the director response in GP-2.23(e). Oral objections, whether or not acted on, are not appeals. The appeal must comply with GP-2.23(a)(1) and(2), but may include any additional documentation as deemed necessary and appropriate by the Bidder.

(g) **CAO Response to Bidder Appeal.** The CAO, or his/her duly authorized designee, will review the Bidder's appeal under GP-2.23(f) and respond to the Bidder in writing within twenty (20) Working Days of receipt of appeal. The CAO's, or his/her duly authorized designee's, written decision is final and binding on all involved parties.

GP - SECTION 3 AWARD AND EXECUTION OF CONTRACT

GP-3.01 AWARD OF CONTRACT (See GP-2.19)

Notice of Award shall be faxed, where available, at the number provided with the Bid and/or mailed, by first class mail, to the successful Bidder at the address submitted with the Bid. In addition, the Department's Division of Construction Contracts Administration shall maintain for public inspection a record of the date of the notice of Award for each Contract, if Awarded and as applicable.

(a) The notice of Award, if it be Awarded, shall be within ninety (90) Calendar Days (or as otherwise specified in the Contract) after the opening of the Bid, and will be to the Responsible Bidder with the lowest Responsive Bid whose Bid complies with all the requirements prescribed in these Standard Specifications and the Invitation for Bid. The successful Bidder will be notified by letter, as stated above, to the address shown on its Bid, that its Bid has been accepted and that it has been Awarded the right to execute the Contract Documents with the County. The notice of Award shall be deemed to have been received three (3) Calendar Days after the date on the notice of Award. The successful Bidder will also be deemed to be on notice of the information contained in the public record log referred to above.

(b) If a Contract is jointly Bid by more than one Person, all Persons will be, upon Award, notified and shall execute the Control thereafter and will be held jointly and severally responsible for the performance and Full and Final Completion of the entire Contract.

(c) The right is reserved to cancel and rescind any notice of Award at any time before the County fully executes the Contract Documents. Upon the County's cancellation and rescission of the notice of Award the County shall not be liable or obligated in any kind, nature or amount to any Person.

GP-3.02 RETURN OF PROPOSAL GUARANTY

If a Bid is withdrawn by Written Notice received in the office designated in the Bid Package before the time and date set for Bid opening, the Proposal Guaranty will be returned if requested. Each Proposal Guaranty submitted, other than the three low Bidders, will be considered released immediately following opening and review of the Bids. The Proposal Guaranty of the 2nd and 3rd low Bidders will be returned upon request only, following execution of the Contract with the lowest Bidder, and the Proposal Guaranty of the lowest Bidder (i.e., the Contractor) can only be released upon execution of the Contract and submittal of the Performance Bond and the Payment Bond by the Contractor, as required by GP-3.03.

GP-3.03 PERFORMANCE BOND AND PAYMENT BOND REQUIREMENTS

(a) Acceptable security in the County-required forms for the Performance Bond and a Payment Bond are included in the Bid Package.

(b) A Performance Bond and a Payment Bond must be provided by Contractor from a Surety acceptable to the County who is (1) licensed in the State of Maryland, (2) rated "B" or better by the A.M. Best Company, (3) on federal funded projects, authorized by the underwriting limitation contained in the U.S. Department of the Treasury Circular 570, as amended, to guaranty the amount of the Bid, and (4) in good standing as determined by the County's Engineer as amended at the time of the underwriting and provision of the Payment Bond and Performance Bond.

A Payment Bond and Performance Bond are required for every and each Contract in excess of twenty-five thousand dollars (\$25,000). Each Payment Bond and each Performance Bond shall be in the amount equal to at least one hundred (100%) percent of the Contract price. The fully executed Payment Bond and fully executed Performance Bond shall be delivered by the Bidder to the Department's Division of Construction Contracts Administration no later than the time the Contract is to be executed by the Contractor. If the Bidder fails to deliver the required Payment Bond and the required Performance Bond in a timely manner, the Bid shall be rejected, the Proposal Guaranty shall be enforced, and Award of the Contract may be made to the Responsible Bidder with the next lowest Responsive Bid in accordance with the Invitation for Bid and these Standard Specifications.

All Bond premiums shall be paid by the Contractor. At the direction of the Department, the Contractor may be required to increase the Payment Bond and Performance Bond with such increase to be paid for by the County in the amount of the documented actual cost to the Contractor.

GP-3.04 EXECUTION OF CONTRACT/SUBMISSION OF REQUIRED DOCUMENTS AND MBE/WBE FORMS

The successful Bidder for the Contract will be provided, upon Award of the Contract, five (5) sets of Bid Proposal Forms and Plans and two (2) sets of cross sections free of charge (this number of copies may be increased to fifteen (15) for certain large building projects, in the sole discretion of the Administrator). Any additional Plan sets required by the Contractor may be purchased at the price noted in Bid Package. Individual Plan sheets or complete sets of Plans may be purchased at the prevailing price set by the County.

(a) Not later than ten (10) Business Days after the date of the notice of Award, the successful Bidder shall have obtained and returned the Contract Documents to the County and two (2) sets of cross sections, including, but not limited to: (1) the fully and properly executed Contract Proposal Form, (2) the fully and properly executed Payment Bond and Performance Bond, if required under GP-3.03, (3) the fully and properly completed evidence of insurance required pursuant to GP-7.14 of these Standard Specifications and the Bid Package, and (4) the Proposal Affidavit. The documents referred to in this GP-3.04 (a) (1), (2), (3), and (4) are to be delivered to the Department's Division of Construction Contracts Administration unless expressly specified otherwise by the Engineer or in the Contract Documents.

(b) The Department's Division of Construction Contracts Administration shall record in the public record log, referred to in GP-3.01, the date it received from the successful Bidder each of the properly completed Contract Documents required in GP-3.04 (a) (1), (2), (3), (4) and (5)

Revised
February 4, 2016

above, and the date it received notification from the County's Office of Fair Practices that the successful Bidder's MBE/WBE forms required by the County have been approved. The successful Bidder is deemed to be on notice of such information so recorded.

(c) In the event the County fails to fully execute the Contract Documents within thirty (30) Business Days after the date all of the required documents in this section have been received by the Department, the successful Bidder will have, as its sole remedy, the option to declare the Contract terminated or to agree to an extension of the time for the County to execute the Contract. Should Bidder declare the Contract terminated, in no event shall County be liable or obligated for any losses, costs, expenses or damages in any amount, nature, or kind incurred by any Person including, but not limited to, the Bidder. If the successful Bidder, however, shall fail within thirty-five (35) Business Days of the aforementioned date to deliver Written Notice to the Department's Division of Construction Contracts Administration that it elects to rescind its Bid and have the Contract terminated, the time period for the County to execute the Contract shall automatically be extended for an additional fifteen (15) Business Days.

(d) All Contract Documents remain the property of the County and must not be used on other work but shall be returned to the County upon request by Engineer.

GP-3.05 FAILURE TO EXECUTE CONTRACT

Failure to deliver to the County the required items listed in GP-3.04 within the time specified therein shall be just cause for the annulment and rescission of the notice of Award and the Contractor's and Surety's forfeiture of the Proposal Guaranty to the County, not as a penalty, but in liquidation of damages sustained. Notice of Award may then be made to the Responsible Bidder with the next lowest Responsive Bid, or, at the County's option, the Work may be re-advertised.

GP - SECTION 4 SCOPE OF WORK

GP-4.01 INTENT OF CONTRACT

(a) The Contractor shall (within specified tolerances) perform all Work in accordance with the Contract Documents including, but not limited to, the lines, grades, typical cross sections, dimensions, and other data shown on the Plans or as modified by Contract Modification including the furnishing of all Materials, implements, machinery, Equipment, tools, supplies, transportation, labor, and all other things necessary to the satisfactory prosecution and completion of the Work in full compliance with the Contract Documents.

(b) The Contract Documents are intended to be complementary, and to describe the Construction and completion of the Work. Anything mentioned in the Contract Documents and not shown on the Contract Drawings, or shown on the Contract Drawing, and not elsewhere

mentioned in the Contract Documents shall be of like effect as if it is shown or mentioned in both.

(c) Omissions from the Contract Documents including, but not limited to, Contract Drawings or the misdescription of details of Work which are manifestly necessary to carry out the intent of the Contract Documents and/or Contract Drawings or which are customarily performed shall not relieve the Contractor from performing such omitted or misdescribed details of Work, but they shall be performed as if fully and correctly set forth and described in the Contract Drawings and Contract Documents. The Engineer shall consider modifications of the Bid and/or postponement of Bid opening as may best serve all interested parties where Written Notice of apparent omissions is received by the Engineer five (5) Business Days before the hour prescribed for Bid opening. This is not to be construed as a limitation on the Engineer. If justified and deemed appropriate by the County, the Engineer may issue a Contract Modification or, if after execution of the Contract, prepare a Supplemental Agreement(s) for Extra Work that was not anticipated and/or shown on the Contract Drawings or described in the Contract Documents.

(d) Work described in words that have a well-known technical or trade meaning shall be held to refer to such recognized standard use.

(e) The Contractor shall keep in the office on the Work site a complete set of all Contract Drawings, Standard Specifications, shop drawings, schedules, etc., in good order and available to the Engineer and representatives of the County.

GP-4.02 CONTRACT DOCUMENTS

The Contract Documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete Work. In the event of any discrepancy between the drawing and figures written thereon, the figures, unless obviously incorrect, will govern over scaled dimensions. In the event of any discrepancy between the Plans and the Standard Specifications, the Plans will govern. If there is a discrepancy between the Standard Specifications and Interim Supplemental Specification, the Interim Supplemental Specifications will govern. Special Provisions will govern over Standard Specifications, Interim Supplemental Specification and Plans.

Special Provisions govern over all other Contract Documents unless expressly stated to the contrary in the Contract Documents.

GP-4.03 ENTIRE CONTRACT

The Contract represents the entire and integrated agreement between the parties thereto and supersedes all prior negotiations, representations or agreements, either written or oral.

GP-4.04 VARIATIONS IN ESTIMATED QUANTITIES

(a) Where the quantity of a Major Contract Item in this Contract is an estimated quantity and where the actual quantity of such Pay Item varies more than twenty-five (25%) percent above or below the estimated quantity stated in this Contract, an equitable adjustment in the Contract price shall be made upon demand of either party. The equitable adjustment shall be based upon any increase or decrease in costs due solely to the variation above one hundred twenty-five (125%) percent or below seventy-five (75%) percent of the estimated quantity. If the quantity variation is such as to cause an increase in the time necessary for completion, the Engineer shall, upon receipt of a written request for an extension of time within ten (10) Days from the beginning of the delay, or within a further period of time which may be granted by the Engineer before the date of final settlement of the Contract, ascertain the facts and make the adjustment for extending the Completion Date as in Engineer's judgment the findings justify.

(b) Should any Contract Items contained in the Bid Package be found unnecessary for the proper completion of the Work, the Engineer may, upon written order to the Contractor, eliminate such Contract Items from the Contract and no allowance will be made for Contract Items so eliminated in making final payment to the Contractor except for Material costs documented incurred prior to notification of the elimination of the Contract Items and for which there is no other possible or reasonable use.

GP-4.05 DIFFERING SITE CONDITIONS

(a) Pursuant to and incorporated GP-2.04, the Contractor is solely responsible for ascertaining soil conditions impacting any and all portions of the Work and soils testing shall be performed by an independent testing firm at Contractor's sole cost and expense. Unless waived in writing by the Engineer, the independent testing shall be performed by a professional engineer licensed by the State of Maryland. The Contractor shall promptly, and before such conditions are disturbed, notify the Engineer in writing of:

(1) Subsurface or latent physical conditions at the site differing materially from those indicated in this Contract; or

(2) Unknown physical conditions at the site of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in this Contract. The Engineer shall promptly investigate the conditions, and if he finds, in his sole discretion, that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the Work under this Contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the Contract modified in writing accordingly.

(b) No claim of the Contractor under this General Provision shall be allowed unless the Contractor has given the notice required in (a) above; provided however, the time prescribed therefor may be extended by the County, in its sole discretion.

(c) No claim by the Contractor for an equitable adjustment under this General Provision shall be allowed if asserted after final payment under this Contract.

GP - 4.06 CHANGES

(a) The Engineer may unilaterally, at any time, and without notice to the Surety, if any, by a Change Order, make any change in the Work within the general scope of the Contract, including but not limited to changes:

- (1) In the Contract Documents (including, but not limited to, Contract Drawings and designs);
- (2) In the method or manner of performance of the Work;
- (3) In the County-furnished facilities, Equipment, Materials, services, or Work site; or
- (4) Directing acceleration in the performance of the Work.

If the Contractor intends to assert an equitable adjustment claim under this GP-4.06(a) for changes made by the Engineer, it shall, within thirty (30) Days after receipt of a written Change Order submit to the Engineer a Written Notice setting forth the general nature and monetary extent of such claim for equitable adjustment and the Contractor's position relative to Contract Time, unless the Contract Time was already extended by the County.

(b) The Contractor may request a Change Order by providing the Engineer with Written Notice stating the date, circumstances, and the source of any written or oral order from the County causing the change in Work. Except for claims based on defective Contract Documents, no claim for any change under this GP-4.06(b) shall be allowed for any costs incurred more than twenty (20) Days before the Contractor gives Written Notice as required. Further, in the case of defective Contract Documents in the Bid Package for which the County is responsible, the equitable adjustment shall include any increased costs reasonably incurred by the Contractor in attempting to comply with such defective Contract Documents in the Bid Package.

If the Contractor intends to assert an equitable adjustment claim under this GP-4.06(b) for changes it requested, it shall, within thirty (30) Days after the furnishing of Written Notice submit to the Engineer a written statement setting forth the general nature and monetary extent of such claim and the Contractor's position relative to Contract Time, unless the Contract Time was already extended by the County. This statement of claim for equitable adjustment may be included in the Written Notice submitted pursuant to this GP-4.06(b).

The Engineer will consider the Written Notice provided, and all facts at hand or that can be readily obtained, without unduly delaying the Work, and:

(1) Where the Engineer finds the change presented by the Contractor would cause a difference in Contract cost or Contract Time, he/she will consider alternatives to minimize impacts in the Contract cost or Contract Time in the mutual interest of both parties and commit his final decision to writing in a Change Order; or

(2) Where the Engineer does not find in favor of the change presented by the Contractor, he shall commit his instructions to writing and direct the Contractor's and the Engineer's staff to proceed as if a force account, as further described in GP-9.02, were ordered to provide a record for later re-evaluation as to merits of the change and any adjustments that may be needed.

Both parties are duty-bound to minimize the accumulation of expenses during the time the Engineer requires to complete the evaluation required in this GP-4.06(b). Delay costs and time, to the extent judged reasonable and unavoidable, are to be considered in the Engineer's Change Order, if any.

(c) No order, statement, or conduct of the Engineer shall be treated as a change under this General Provision or entitle the Contractor to an equitable adjustment unless made in a properly authorized and executed Change Order or Contract Modification.

(d) Each Contract Modification or Change Order that affects Contract price, whether an increase or a decrease, shall be subject to the prior written approval of the Engineer and other appropriate authorities and to prior Certification of the County's Office of Budget and Finance of fund availability and the effect of the Contract Modification or Change Order on the Contract budget or the total Contract cost. If, according to the Certification of the County's Office of Budget and Finance, the Contract Modification or Change Order will cause an increase in Contract cost that will exceed budgeted and available funds, the Contract Modification or Change Order may not be made unless sufficient additional funds are made available or the scope of the Contract is adjusted to permit its completion within the Contract budget.

(e) No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment is made pursuant to GP-9.04 and this Contract.

(f) No claim for Extra Work by the Contractor will be granted which includes cost of delays or Work stoppage due to strikes, lockouts, fire, avoidable casualties or damage or delay in transportation for which the County or its agents are not responsible.

GP-4.07 NEGOTIATED PAYMENT PROVISION

(a) The County, without invalidating the Contract, may order changes in the Work by altering, adding to or deducting from the Work, the Contract amount being adjusted accordingly in a Change Order. Extension of time made, or if necessary thereby, shall be adjusted at and documented in a Change Order.

(b) The Engineer shall have the authority to make minor changes in the Work not involving extra cost and not inconsistent with the purpose of the Contract and/or Work. Otherwise, except in an emergency endangering life or property, no Extra Work or change shall be made unless a written order from the Department signed by the Director has been received by the Contractor. No claim for addition to the Contract sum shall be valid unless so ordered in writing by the Director.

(c) The value of any such Extra Work or change under this GP-4.07 shall be determined in one or more of the following ways as determined by the Department:

(1) By Estimate and Acceptance of a Lump Sum

(a) The Contractor shall furnish a breakdown of the estimated Construction cost. The breakdown shall be of sufficient detail to describe the Extra Work and related costs for labor, Material, overhead and profit.

(b) Overhead and Profit

1. Extra Work by Subcontractor:

Subcontractor will be allowed 10% overhead and 10% profit added to the direct labor and Material costs. The Contractor will be allowed to increase the Subcontractors total lump sum by 10% to cover its administration.

2. Extra Work by Contractor:

The Contractor will be allowed 10% overhead and 10% profit added to the labor and Material costs.

(c) The Contractor will be allowed 1% for Contract Bond added to the labor and Material costs, as applicable.

(d) The allowed overhead will include all supervision; no additional allowance will be made for it.

(2) By Unit Prices Named in the Contract or Subsequently Agreed Upon

Such unit prices are to include all supervision, overhead, taxes, insurance and profit.

(3) By Cost and a Fixed Fee

Added to the cost is a fixed fee portion that is to include supervision, overhead, insurance and profit.

(4) By Force Account (Labor and Material Cost plus)

See GP-9.02 entitled "Force Account Work".

Should none of the methods stated in Paragraph 4.07(c) 1, 2, or 3 be applicable, the Contractor shall, providing the Contractor receives an order as defined in Paragraph 4.07(b) of this General Provision, proceed with the Work in accordance with GP-9.02 entitled "Force Account Work". The Contractor and Engineer shall keep accurate costs, in such form as the Engineer may direct, for presentation, together with vouchers, to the Department for determination of the value of the Extra Work included in each Change Order. Pending determination of the final value and the execution of the Change Order, the Engineer may include payments for Materials and labor, as stated in General Provision - Section 9, "Payment", in monthly vouchers.

GP-4.08 UNAUTHORIZED WORK

Work done contrary to or regardless of the instructions of the Engineer, Work done beyond the lines and grades shown on the Contract Drawings, or as given, or any Extra Work done without written authority of the Engineer is unauthorized and at the sole cost and expense of the Contractor and will not be measured or paid for. Work so done may be ordered removed and/or replaced at the Contractor's sole cost and expense.

GP-4.09 FINAL CLEAN UP

Upon Final Acceptance for Maintenance of the Work specified in the Contract and before final payment will be made, the Construction area and all other adjoining areas occupied by the Contractor during the Construction of said Contract, other than those owned by the Contractor, shall be cleaned of all surplus and discarded Materials, spilled Materials, excess Materials left deposited on the permanent Work as a result of the Contractor's operations, falsework, and rubbish and temporary Structures and buildings, that were placed thereon by the Contractor. The adjoining areas mentioned above, outside the normal pay limits for seeding, will be reshaped, seeded and mulched, or otherwise restored as directed by the Engineer at the Contractor's expense.

GP-4.10 WARRANTY OF CONSTRUCTION

(a) In addition to any other warranties at law and specified in the Special Provisions of the Contract, the Contractor warrants for two (2) years after the date of Final Acceptance for Maintenance by the County, that Work performed under this Contract shall conform to the Contract requirements and is free of any defect of Equipment, Material or design furnished, or workmanship performed by the Contractor or any of the Contractor's Subcontractors or suppliers at any tier. Under this warranty, the Contractor at its own and sole cost and expense shall make any Repairs or replacements which, in the judgment of the Engineer, may become necessary during this warranty period on account of any failures or defects. In addition, the Contractor

shall remedy at its own and sole cost and expense any damage to County-owned or controlled real or personal property, when that damage is the result of the Contractor's failure to conform to Contract requirements or any such defect of Equipment, Material, workmanship, or design. The Contractor shall also promptly restore any Work damaged in fulfilling the terms of this General Provision. The Contractor's warranty with respect to Work Repaired or replaced hereunder will run for two (2) years from the date of the County's acceptance of such Repair or replacement; provided that the terms and conditions of all warranties in place following the Final Acceptance for Maintenance shall continue to remain in full force and effect.

(b) The County shall notify the Contractor in writing within a reasonable time after the discovery of any failure, defect, or damage.

(c) Should the Contractor fail to remedy any failure, defect, or damage described in (a) above within a reasonable time after receipt of notice thereof, or in the case of an emergency, the County shall have the right to replace, Repair, or otherwise remedy such failure, defect, or damage at the Contractor's sole cost and expense. To insure the County against the nonpayment of any such costs, on the date of Final Acceptance for Maintenance, the County will either require the retainage of five percent (5%) of the total value of the Contract or require the Contractor to submit a value equivalent maintenance bond. Said maintenance bond shall be in a form and with a Surety approved by the County, binding the Contractor as principal, and the Surety, to promptly and properly replace any improper Work or Materials that may become apparent within the two (2) year warranty period following the date of Final Acceptance for Maintenance. In lieu of a bond, other forms of security such as irrevocable letters of credit, or a bank cashier's or treasurer's check may be accepted. Upon acceptance and approval by the County of such a bond or other security, the sum retained by the County will be released pursuant to GP-Section 9.

(d) In addition to the other rights and remedies provided by this General Provision, all Subcontractors', manufacturers', and suppliers' warranties expressed or implied, respecting any Work and/or Materials shall, at the direction of the County, be enforced by the Contractor for the benefit of the County. In such case if the Contractor's warranty under (a) above has expired, any suit directed by the County to enforce a Subcontractor's, manufacturer's or supplier's warranty shall be at the expense of the County. The Contractor shall obtain any warranties that the Subcontractors, manufacturers, or suppliers would give in normal commercial practice.

(e) If directed by the Engineer, the Contractor shall require any such warranties under this GP-4.10 to be executed in writing to the County.

(f) Notwithstanding any other provision of this General Provision, unless such a defect is caused by the negligence of the Contractor or its Subcontractors or suppliers at any tier, the Contractor shall not be liable for the Repair or any defects of material or design furnished by the County nor for the Repair of any damage which results from any such defect in County furnished Material or design.

(g) The warranty specified herein shall not limit the County's rights under GP-5.13 "Acceptance for Maintenance", or any other rights available to County under the Contract, at law, and/or in equity.

GP - SECTION 5 CONTROL OF THE WORK

GP-5.01 AUTHORITY OF THE ENGINEER

(a) The Engineer shall decide: all questions which may arise as to the quality and acceptability of Materials furnished and Work performed and as to the rate of progress of said Work; all questions which may arise as to the interpretation of any or all Plans and Contract Documents; and all questions as to the acceptable fulfillment of the Contract on the part of the Contractor.

(b) The Engineer shall determine the amount and quantity of Work performed and Materials which are to be paid for under the Contract.

(c) The Engineer shall have the authority to suspend the Work wholly or in part due to the failure of the Contractor to carry out any provisions of the Contract.

GP-5.02 CONFORMITY WITH CONTRACT REQUIREMENTS

All Work performed and all Materials furnished shall be in conformity with the Contract requirements.

In the event the Engineer finds the Materials or the finished product in which the Materials are used or the Work performed are not in reasonably close conformity with the Contract requirements and have resulted in an inferior or unsatisfactory product, the Work or Materials shall be removed and replaced or otherwise corrected by and at the expense of the Contractor.

In the event the Engineer finds the Materials or the finished product in which the Materials are used are not in conformity with the Contract requirements but that acceptable Work has been produced, he shall then make a determination if the Work shall be accepted in the Engineer's sole discretion. In this event, the Engineer will document the basis of acceptance by a Change Order that will, if applicable, provide for an appropriate adjustment in the Contract price. Any action taken pursuant to this General Provision shall not result in an increase of the Contract price.

GP-5.03 DISCREPANCIES IN THE CONTRACT DOCUMENTS

In the event the Contractor discovers any discrepancies in the Contract Documents, the Contractor shall immediately notify the Engineer in writing. The Engineer will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the Contract.

GP-5.04 COOPERATION BY CONTRACTOR

The Contractor will keep available on the Work site at all times one complete set of Contract Documents.

The Contractor shall give the Work the constant attention necessary to facilitate the timely progress thereof, and shall cooperate with the Engineer and the Engineer's Inspector at all times and in every way possible.

The Contractor shall assign to the Contract as his agent, a competent Superintendent capable of communicating in English and capable of reading and thoroughly understanding the Contract Documents and thoroughly experienced in the type of Work being performed, who shall receive instructions from the Engineer or his authorized representatives. The Superintendent shall have full authority to execute the order or directions of the Engineer without delay, and to promptly supply such Materials, Equipment, tools, labor and incidentals as may be required. Such superintendence shall be furnished irrespective of the amount of Work sublet. Said Superintendent shall be on the Work site at all times when the Work is in progress.

The Contractor shall so schedule the Work as to ensure efficient and uninterrupted progress and to hold to an absolute minimum the cutting and patching of new Work. All cutting, patching and digging necessary to the execution of the Work is included in the Contract.

The Contractor shall so schedule (to include Subcontracts) the Construction performed by each group or trade that each installation or portion of the Construction shall member with and join with all other Work as required for a complete installation, all according to accepted good Construction practice.

The Contractor shall be responsible for the coordination of the Work of all Subcontractors.

GP-5.05 COOPERATION WITH UTILITIES

It is understood and agreed that the Contractor has considered in its Bid all of the permanent and temporary utility appurtenances in their present or relocated positions and that no additional compensation will be allowed for delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility appurtenances or the operation of moving them.

The Contractor shall have responsibility for notifying all affected Utility Companies before performing any Work on their utilities and shall cooperate with them. All damage to utility

facilities caused by the Contractor's operations shall be the sole financial and legal obligations, liability and responsibility of the Contractor.

MISS UTILITY: Sections 12-101, *et seq.*, of the Public Utility Companies Article of the Maryland Annotated Code, as amended from time to time, establish requirements regarding protection of existing underground utilities from excavation and demolition activities.

The Contractor shall notify Utility Companies and their public agencies at least forty-eight (48) hours but not more than ten (10) Days before digging. Locate requests may be processed through Ticket Check by calling this special toll-free number: 1-866-821-4226, where the caller will be prompted through the steps to retrieve ticket status, using a 10 digit Contractor's number. Contact the MISS UTILITY help desk at 410-712-0056, x4040 or check the www.missutility.net/maryland web site for more information on how to use the Ticket Check system.

One call to 1-800-257-7777 or use of Ticket Check will reach most companies and organizations that have underground facilities in the County. A list of member utilities belonging to MISS UTILITY is on the MISS UTILITY website at www.missutility.net/maryland. Other utilities, which are non-participants in MISS UTILITY, may also be encountered. It is the Contractor's responsibility to identify all utilities, to inform the proper authorities of Work near the utility line, and to exercise caution at all times in regard to them.

The UTILITY SERVICE PROTECTION CENTER (MISS UTILITY: (800 257-7777) may also be called between 7:00 a.m. and 5:00 p.m., Monday through Friday, excluding Holidays. Emergencies will be processed promptly on a 24-hour basis.

FIRE HYDRANTS: The Contractor shall notify the County Fire Department's Fire Dispatch Liaison Officer (410 887-4592) prior to starting any Work involving the removal or relocation of existing fire hydrants.

SANITARY SEWERS: To protect against accidental clogging, existing sanitary sewer channels shall be covered within manholes, as directed by the Engineer, prior to any grubbing or grading operations. This will not be a separate Pay Item, but shall be included in the cost of other Pay Items.

ADDITIONAL COSTS: The cost of charges for marking the locations for water and sewer utilities by the organizations which are part of the MISS UTILITY program shall be included as an incidental cost in the Contractor's Bid.

Water mains, gas mains, storm drains, sanitary sewers, and other utilities are shown on the Plans, in accordance with the best information available to the County, for the convenience of the Contractor. THE COUNTY ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN ON THE PLANS AND THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES. Existing mains and services shall be carefully protected and any damage to them caused by the Work and/or the Contractor shall be immediately Repaired to

the satisfaction of the Engineer by the Contractor at its own expense, using Materials of the quality and kinds damaged.

GP-5.06 COOPERATION BETWEEN CONTRACTORS

(a) Each and every contractor under contract with the County, with regard to any adjoining or overlapping Work or work of or with another under contract with the County, shall cooperate with each other as necessary. Such cooperation shall include:

- (1) Arrangement and conduct of Work and/or work; and
- (2) Storage and disposal of Materials, etc., by each in such manner as to not unnecessarily interfere with or hinder the progress of the Work and/or work being performed by other contractors. Contiguous Work shall be joined in an acceptable manner.

(b) The Administration and Department shall have the right, at any time, to contract for and perform other Work and/or work on, near, over or under the Work covered by this Contract. In addition, other Work and/or work may be performed under the jurisdiction of another public body, public entity, the County agency or entity, County affiliate or any public educational or college entity. In such cases, when a dispute arises among one or more contractors, the Engineer will decide which department, body, or entity has jurisdiction over said dispute. The Contractor shall cooperate fully with such other contractors and carefully fit Contractor's own Work to such other work as may be directed by the Engineer.

(c) The Contractor agrees that in the event of dispute as to cooperation the Engineer will act as referee. The Contractor waives its rights and remedies to make a claim or take any other action of any kind against the Administration for any inconvenience, delay or loss experienced by Contractor because of the presence and operations of other contractors.

(d) The County reserves the right to let other contracts in connection with paving and utilities adjoining this Work. The Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate its Work with theirs.

If any part of the Contractor's Work depends for proper execution or results upon the work of any other contractor, the Contractor shall inspect and promptly report to the Engineer any defects in such work that render it unsuitable for such proper execution and results. Failure to inspect and report shall constitute an acceptance of the other contractor's work as fit and proper for the reception of the Work. The Contractor shall take all reasonable precautions during construction to prevent damages to previously installed work. The Contractor shall monitor the previously installed area/work while performing its assigned Work, and shall advise the Engineer immediately if defects in that previously installed work become apparent.

To ensure the proper execution of Contractor's subsequent Work, the Contractor shall verify Work already in place and shall at once report to the Engineer any discrepancy between the executed Work and the Contract Drawings.

GP-5.07 AUTHORITY AND DUTIES OF INSPECTORS

The Inspector shall be authorized to inspect all Work done and all Material furnished. Such inspection may extend to all or any part of the Work and to the preparation, fabrication or manufacture of the Materials to be used. The Inspector is not authorized to revoke, alter or waive any requirements of the Contract, nor is he authorized to approve or accept any portion of the Work. The Inspector is authorized to call the attention of the Contractor to any failure of the Work or Materials to conform to the Contract. The Inspector shall have the authority to reject Materials or suspend the Work until any questions at issue can be referred to and decided by the Engineer. The Inspector shall perform his duties at such times and in such manner as will not unnecessarily impede progress on the Contract.

The Inspector shall in no case act as foreman or perform any other duties for the Contractor, nor interfere with the management of the Work by the Contractor. Any advice, instruction, direction or other order which the Inspector may give the Contractor shall not be construed as binding the Engineer in any way, or releasing the Contractor from fulfilling all of the terms of the Contract.

Where there is disagreement between the Contractor, the Superintendent, or any other contractor and the Inspector, such as refusal by the Contractor to use properly approved Material, performing Work not in compliance with Plans and Contract Documents, and/or refusing to suspend Work until problems at issue can be referred to and decided by the Engineer, the Inspector will immediately direct the Engineer's attention to the issues of disagreement. If the Contractor still refuses to make corrections and/or comply or suspend Work, as applicable, the Engineer may prepare and deliver in writing to the Contractor, by mail or otherwise, a written order suspending the Work and explaining the reason for such shutdown. As soon as the Inspector is advised of the delivery of the shutdown order, the Inspector shall immediately leave the site of the Work and any Work performed during the Inspector's absence will not be accepted or paid for and may, in the sole discretion of the Engineer be required to be removed and disposed of at the Contractor's sole cost and expense.

GP-5.08 INSPECTION OF WORK

All Materials and each part or detail of the Work shall be subject at all times to inspection by the Engineer and/or the Inspector, and the Contractor will be held strictly to the Materials, workmanship, and the diligent execution of the Contract. Such inspection may include mill, plant or shop inspection, and any Material furnished under the Contract is subject to such inspection. The Engineer and/or Inspector shall be allowed access to all parts of the Work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection of all parts of the Work.

If the Engineer requests it, the Contractor, at any time before Partial Acceptance for Maintenance and/or Final Acceptance for Maintenance of any Work, shall remove or uncover such portions of the finished Work as may be directed. After examination, the Contractor shall restore said portions of the Work to the standards required by the Contract. Should the Work thus exposed or examined prove acceptable, adjustments in Contract Time and price will be made pursuant to Section GP-4.06 for the uncovering or removing, and the replacing of the covering or making good of the parts removed. Should the Work so exposed or examined prove unacceptable, the uncovering, or removing and replacing, shall be at the Contractor's sole cost or expense.

When the United States Government, the State, another local government or municipality, or any railroad, corporation or other Person is to pay a portion of the cost of the Work covered by this Contract, their respective representatives shall have the right to inspect and approve the Work.

If the Contract Documents, the Engineer's instructions, laws, regulations, executive orders, ordinances, or any public authority require any Work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for inspection, and if the inspection is by another authority, the date fixed for such inspection. Inspections by the Engineer shall be made promptly, and where practicable, at the source of supply. Any Work covered without approval of the Engineer must, if required, be uncovered for examination at the Contractor's sole cost and expense.

If initial tests and/or inspections show substandard products, Materials, workmanship, etc. and the Contractor elects, with the Engineer's approval, to perform additional tests and/or inspections to prove the acceptability of the substandard products, Materials, workmanship etc., the Contractor shall perform same at Contractor's sole cost and expense.

GP-5.09 REMOVAL OF DEFECTIVE WORK

All Work and Materials which do not conform to the requirements of the Contract will be considered unacceptable, unless otherwise determined acceptable under the provisions in GP-5.02.

Any defective Work, whether the result of poor workmanship, use of defective Materials, damage through carelessness or any other cause, found to exist shall be removed and replaced by Work and Materials which shall conform to the Contract Documents or shall be remedied otherwise in an acceptable manner authorized by the Engineer.

Upon failure on the part of the Contractor to comply promptly with any order of the Engineer made pursuant to these General Provisions, the Engineer shall have authority to cause defective Work to be remedied or removed and replaced and unauthorized Work to be removed and to deduct the costs from any monies due or to become due the Contractor under this Contract.

GP-5.10 LOAD RESTRICTIONS

(a) The Contractor shall comply with all applicable State and local laws, regulations and requirements pertaining to speed, size and weight of motor vehicles.

(b) The Administration may indicate in the Contract any load restrictions on any Road or Structure within the vicinity of the Work site.

(c) The Contractor shall take into account any and all posted Bridges, the crossing of which might be contemplated by the Work of the Contract. No loads in excess of posted limits will be allowed in the prosecution of the Work on any Contract, unless the required permits are obtained from the appropriate State and local governmental agencies.

(d) The Contractor shall consider possible detrimental effects of operating heavy paving and grading Equipment contiguous to retaining walls, pipe Culverts, arches, forms for concrete Work as well as any Construction existing prior to this Contract.

(e) The Engineer shall have the right to limit passage of heavy Equipment (plus loads) when such passage or usage is causing apparent or visible damage to embankments, paving, Structures or any other property.

(f) Within Baltimore City limits, and within the limits of the Baltimore City-maintained watershed properties, the Department of Transportation of the City of Baltimore has jurisdiction for oversize and overweight vehicle movements. Permits are obtainable from the Baltimore City Department of Transportation.

GP-5.11 MAINTENANCE OF WORK DURING CONSTRUCTION

(a) The Contractor shall maintain the Work during Construction and until Final Acceptance for Maintenance by the County. This maintenance shall constitute continuous and effective Work prosecuted as required with adequate Equipment and forces to the end that all parts of the Work be kept in satisfactory condition at all times.

The Contractor shall at all times keep the Work site free from accumulations of waste Material or rubbish caused by its employees, Subcontractors, or Work, and at the Final Acceptance for Maintenance of the Work, shall remove all rubbish, waste, Contractor's tools, scaffolding and surplus Material from and about the Work site. In case of dispute, the County may remove the waste and rubbish and charge the cost to the Contractor as the Engineer shall determine to be just, in his sole discretion.

All debris shall be kept sprinkled to reduce dust and shall be promptly removed from any Structure, and no combustible Materials shall be stored against perimeter walls of any Work.

The Contractor shall clean entirely any Structure as it is completed, wash all windows, scrub all floors at least once, and leave all floors free from spots and blemishes. The interior of any Structure and the entire Work site shall be left "broom clean," or its equivalent.

(b) Particular attention shall be given to drainage, both permanent and temporary. The Contractor shall use all reasonable precautionary measures to avoid damage or loss that might result from accumulations and concentrations of drainage water, and material carried by such water and such drainage shall be diverted or removed when necessary to prevent damage to excavation, embankments, surfacing, Structures or any other property. Suitable measures shall be taken by the Contractor to prevent the erosion of soil in all Construction areas where the existing ground cover has been removed and/or disturbed.

The Contractor shall remove all water, including rain water, encountered during the entire progress of the Work, using pumps, drains or other methods approved by the Engineer. Excavations and the Work site shall be kept free from water until all backfilling is completed. The water shall be discharged to catch basins, or other drainage points as directed by the Engineer.

(c) All cost of maintenance Work during Construction and before Final Acceptance for Maintenance by the County shall be included in the Bid and the Contractor will not be paid an additional amount for such Work, except as otherwise provided in the Contract Documents.

(d) In the event that the Contractor's Work is ordered to shut down for failure to comply with any provision of the Contract, the Contractor shall maintain the entire Work site as provided herein, and provide such ingress and egress for local residents or tenants adjacent to the Work site, for tenants of the Work site, and for the general public as may be necessary during the period of suspended Work or until the Contract has been declared in default.

(e) On Contracts where traffic flow is maintained, the Contractor shall be responsible for Repair of all traffic damages to the Work, either partially or totally completed, until Final Acceptance for Maintenance of the Work is achieved. Responsible, as used here, shall mean the responsibility for restoration and the cost thereof unless otherwise expressly provided for in the Special Provisions.

GP-5.12 FAILURE TO MAINTAIN ENTIRE PROJECT

Failure on the part of the Contractor, at any time, to respond to the provisions of GP-5.11 will result in the Engineer's immediately notifying the Contractor to comply with the required maintenance provisions. In the event the Contractor fails to proceed with corrections to unsatisfactory maintenance so as to conform to the provisions of GP-5.11 within four (4) hours after receipt of such notice, the Engineer may notify the Contractor to suspend all other Work on the Contract until the unsatisfactory maintenance is corrected. In the event that the Contractor has failed to commence with adequate corrective measures within four (4) hours after receipt of such notice the Engineer may immediately proceed with adequate forces and Equipment to maintain the Contract Work and the entire cost of this maintenance will be deducted from any monies due or to become due to the Contractor from the County. The Contractor is and remains responsible for any injury or damage that may result from lack of maintenance of any refilled excavation at any time until Final Acceptance for Maintenance by the County. The Engineer may suspend Work as further described in GP-8.07.

GP-5.13 ACCEPTANCE FOR MAINTENANCE

(a) **Partial Acceptance for Maintenance.** If at any time during the performance of the Work the Contractor substantially completes a unit or portion of the Work, the Contractor may request the Engineer to make final inspection of that unit or portion. If the Engineer determines upon inspection that the unit has been satisfactorily completed in compliance with the Contract, the Engineer may make a written Partial Acceptance for Maintenance of that unit or portion of Work, and the Contractor may be relieved of further maintenance responsibility for that unit or portion of Work. Generally, Partial Acceptance for Maintenance will only be considered when the Administration feels that such action is in the public interest. Such Partial Acceptance for Maintenance of any unit or portion of Work shall in no way void or alter any of the terms of the Contract.

(b) **Final Acceptance for Maintenance.** Upon due notice from the Contractor of presumptive completion of the Contract Work, the Engineer shall make a Construction inspection and if at such inspection all Construction and Contract Work provided for and contemplated by the Contract is found completed, such inspection shall constitute the final inspection and the Engineer shall make the Final Acceptance for Maintenance of the Work as of that date, and the Contractor shall be notified of such Final Acceptance for Maintenance in writing. After Final Acceptance for Maintenance, the Administration will assume responsibility for maintenance except where otherwise provided by the Contract.

(c) If, however, at any Construction inspection any Contract Work, in whole or in part, is found unsatisfactory, the Engineer shall give the Contractor the necessary instructions as to the Contract Work required for Final Acceptance for Maintenance by the County. The Contractor forthwith shall comply with and execute such instructions. Upon completion of such Contract Work, another inspection shall be made which shall constitute the final inspection if the said Contract Work is completed satisfactorily. In such event, the Engineer shall make the Final Acceptance for Maintenance and the Contractor shall be notified as aforesaid. After Final Acceptance for Maintenance, the Administration will assume responsibility for maintenance except where otherwise provided by the Contract.

(d) Unless otherwise provided in this Contract, Partial Acceptance for Maintenance and/or Final Acceptance for Maintenance by the County shall be made as promptly as practicable after completion and inspection of all Work required by this Contract, or that portion of the Work that the Engineer determines can be accepted separately. Partial Acceptance for Maintenance and/or Final Acceptance for Maintenance shall be final and conclusive except as regards latent defects, fraud, and such gross mistakes as may amount to fraud or the County's rights under any warranty or guarantee or any claims or counter claims reserved by the County.

(e) No claim for Extra Work will be granted which includes cost of delays or Work stoppage due to strikes, lockouts, fire, avoidable casualties or damage or delay in transportation for which the County or officials, employees, or its agents are not responsible.

GP-5.14 CLAIMS

Unless a shorter period is prescribed by law or elsewhere in this Contract:

(a) The Contractor shall file a Written Notice of claim for extension of time, equitable adjustment, extra compensation, damages, or any other matter (whether under or relating to this Contract) with the Engineer within ninety (90) Days after the basis for the claim is known or should have been known, whichever is earlier.

(b) Contemporaneously with or within ninety (90) Days of the filing of a notice of a claim, but no later than the date that final payment for the Pay Item and/or portion of the Work for which the claim is made, a Contractor shall submit the claim to the appropriate Engineer. The claim shall be in writing and shall contain:

- (1) An explanation of the claim, including reference to all Contract provisions upon which it is based;
- (2) The amount of the claim;
- (3) The facts upon which the claim is based;
- (4) All pertinent data and correspondence that the Contractor relies upon to substantiate the claim;
- (5) A Certification by a legally authorized representative of the Contractor or Subcontractor, as applicable, that, to the best of the Person's knowledge and belief, the claim is made in good faith, supporting data are accurate and complete, and the amount requested accurately reflects the Contract adjustment for which the Person believes the Administration is liable; and
- (6) Itemized supporting data for the elements of cost the Contractor claims to have incurred or which the Contractor will incur. This data shall be in sufficient detail to permit analysis by the Administration of Material, labor, Equipment, Subcontract and overhead costs as well as profit and shall include all Work covered by the claim, whether deleted, added, or changed. Subcontractors' costs shall be supported by similar detailed data.

(c) A notice of claim or a claim that is not filed within the prescribed time shall be dismissed.

GP-5.15 DISPUTES

(a) Except as otherwise may be provided by applicable law or regulation, all disputes arising under or as a result of a breach of this Contract that are not disposed of by mutual agreement shall be resolved in accordance with this General Provision.

(b) As used herein, "claim" means a written demand or assertion by one of the parties seeking, as a legal right, the payment of money, adjustment or interpretation of Contract terms, or other relief, arising under or relating to this Contract.

A voucher, invoice, or request for payment that is not in dispute when submitted is not a claim under this General Provision. However, if the submission subsequently is not acted upon in a reasonable time, or is disputed either as to liability or amount, it may be converted to a claim for the purpose of this General Provision.

(c) When a claim cannot be resolved by mutual agreement, the Contractor shall submit a written request for decision to the Department's Chief of the Division of Construction Contracts Administration, or other designated County official, for his decision in consultation with the County Office of Law. The Contractor's written request shall set forth all the facts surrounding the controversy, including, but not limited to, those items listed in GP-5.14(b). Any claim by the County shall be decided in like manner.

(d) The Contractor, at the discretion of the Engineer, may be afforded an opportunity to be heard and to offer evidence in support of his claim. Pending resolution of a claim, the Contractor shall proceed diligently with the performance of the Contract.

(e) The Department's Chief of the Division of Construction Contracts Administration, or other designated County official, shall decide any and all claims. The decision by the Department's Chief of the Division of Construction Contracts Administration, or other designated County official, shall be issued within ninety (90) Days on matters of less than fifty thousand dollars (\$50,000) and within one hundred eighty (180) Days on matters of fifty thousand dollars (\$50,000) or more. The written decision of the Department's Chief of the Division of Construction Contracts Administration, or other designated County official, shall be final and binding unless appealed in writing to the Director of the Department within thirty (30) Days of the Chief's, or other designated County official's, written opinion to the parties. If the Chief's, or other designated County official's, decision is timely appealed in writing to the Director of the Department, the Director of the Department, serving as referee, will review the written appeal submitted to assure all reasonable attempts were made to resolve the appeal.

(f) The Director shall issue his/her decision in writing within ninety (90) Days. The Director's decision shall be final and conclusive unless a written appeal is mailed or otherwise filed with the County Administrative Officer within thirty (30) Days of the Director's written decision.

(g) When the County Administrative Officer is satisfied all efforts at the Department level were made to resolve the dispute, a claim shall be resolved as follows:

(1) Subject to, and without in any way enlarging or limiting the other provisions of the Contract, the parties to any Agreement which adopts or incorporates by reference these Standard Specifications, appoint the County Administrative Officer as an administrative hearing

officer pursuant to Article 25A, "Chartered Counties of Maryland", of the Annotated Code of Maryland.

(2) The parties further grant the County Administrative Officer the right to delegate this responsibility and authority in writing to a County official who is a registered professional engineer, independent of the Department of Public Works's Division of Construction Contracts Administration, or to any other County official.

(3) For disputes involving ten thousand dollars (\$10,000) or more the decision of the administrative hearing officer shall be final and binding on both parties, subject only to such appeals on the record as provided by Article 25A. For disputes involving less than ten thousand dollars (\$10,000), the decision of the administrative hearing officer shall be final and binding on both parties.

GP - SECTION 6 CONTROL OF MATERIAL

GP-6.01 GENERAL

All Materials shall meet all quality requirements of the Contract. In order to expedite the inspection and testing of the Materials, the Contractor shall notify the Engineer in writing of the sources from which the Contractor proposes to obtain all Materials requiring approval, testing, inspection, or Certification prior to incorporation into the Work as soon as possible after receipt of notification of Award of the Contract.

To expedite the approval of this notice a list of Approved Sources of Supply is available through the Department's Division of Construction Contracts Administration. If all Materials are to be supplied from the sources on the Approved Sources of Supply list, no written notification to that effect is required unless specifically requested by the Engineer or required by the Contract. If other sources are to be used, they shall be submitted for approval to the Engineer. It shall be the Contractor's responsibility to insure that all Materials are supplied from approved sources. Once the source of concrete or bituminous concrete for exposed final surfaces has been selected, that source is to provide Material for all Construction of continuous surfaces on all of the Contract Work. Submittal of all sources of supply will still be required for contracts involving State or federal funding. The Engineer will inform the Contractor as to source acceptability as soon as possible.

GP-6.02 STORAGE AND HANDLING OF MATERIALS

Materials shall be stored so as to assure the preservation of their quality and acceptability for the Work. Stored Materials shall, at the discretion of the Engineer, be again inspected prior to their use in any Work even if approved before storage. Stored Materials shall be located so as to facilitate their prompt inspection. Approved portions of the Right-of-Way or Work site may be used for storage purposes and for the placing of the Contractor's plant and Equipment; such

storage areas must be restored to their original condition by the Contractor prior to Final Acceptance for Maintenance of the Work at Contractor's sole cost and expense. Any additional space required must be provided by the Contractor at Contractor's sole cost and expense.

Materials shall be handled in such a manner as to preserve their quality and acceptability for the Work.

GP-6.03 UNACCEPTABLE MATERIALS

(a) Materials represented by samples taken and tested in accordance with the County-specified tests and failing to meet required values shall be considered to be defective regardless of prior tests or approvals.

(b) Unless otherwise allowed by the Engineer as set forth below, defective Materials shall be removed from the Work site and any tags, stamps or other markings implying conformance with Contract Work removed for those Materials and returned to the Engineer or obliterated if located on the Materials.

(c) Where defects can be corrected, the Contractor may propose such corrective action as the Contractor deems appropriate to the Engineer. The Engineer may approve the corrective action but in so doing does not assume responsibility for the success thereof. Retests will be made to determine the acceptability of the Material after corrective measures have been taken by the Contractor.

(d) The cost of replacing, correcting and/or removal of defective Material will be the sole responsibility of the Contractor.

(e) The cost of Repairing or replacing Materials damaged by the installation, correction and/or removal of defective Materials will be the sole responsibility of the Contractor.

GP-6.04 ADMINISTRATION FURNISHED MATERIAL

The Contractor shall furnish all Materials required for Full and Final Completion of the Work, except those specified to be furnished by the Administration. Materials furnished by the Administration will be delivered or made available to the Contractor at the point or points specified in the Special Provisions. The cost of handling and placing all Materials, after they are delivered to the Contractor, shall be considered as included in the Contract price for the Contract Item in connection with which they are used.

The Contractor shall be held responsible for all Material delivered to Contractor, and deductions will be made from any monies due or to become due to the Contractor to make good any shortages and deficiencies, from any cause whatsoever, and for any damage which may occur after such delivery, and for any demurrage charges.

In cases where Materials are supplied by the Administration and incorporated in the Contract Work by the Contractor, Materials inspection and acceptance will not be prerequisite for Final Acceptance for Maintenance as the Work pertains to these Contract Items.

GP-6.05 MATERIALS

Materials include all manufactured products and all processed and unprocessed natural substances required for the Full and Final Completion of the Contract. The Contractor in accepting the Contract is assumed to be thoroughly familiar with the Materials required and their limitations as to use and requirements for connections, setting, maintenance and operation.

Materials testing shall be performed by an independent testing firm, paid for by the Contractor, which has previously been approved by the County and the Architect and/or Design Engineer. Certified copies of all such test reports shall be submitted to the Engineer for approval.

Whenever an article, Material or Equipment is specified and a fastening, furring, connection (including utility connections), bed or accessory is normally considered essential to its installation in good quality Construction, such shall be included as if fully specified. Nothing in the Contract shall be interpreted as authorizing any Work in any manner contrary to applicable law, codes or regulations. (See GP-7.01).

(a) Approval

All Materials are subject to the Engineer's and the Architect's and/or Design Engineer's approval as to conformity with the Contract Documents, quality, design, color, etc. No Work for which approval is necessary shall be contracted for, or used, until written approval is given by the Engineer and the Architect and/or Design Engineer. Approval of a Subcontractor, as such, does not constitute approval of a Material which is other than that included in the Contract Documents.

(b) New Materials

Unless otherwise specified, all Materials shall be new.

(c) Quality

Unless otherwise specified, all Material shall be of the best quality of the respective kinds.

(d) Samples

The Contractor shall furnish for approval all samples of the Materials as directed. The Work shall be the same as the approved samples.

(e) Painting and Color

The Architect and/or Design Engineer and the Contractor shall jointly prepare the paint and color schedules. The Architect and/or Design Engineer shall direct the exact color, texture and finish.

(f) Proof of Quality

The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of Materials either before or after installation. The Contractor shall pay for any tests as may be deemed necessary in relation to “Substitutions” as specified in GP-6.05(i).

(g) Contractor’s Option

When several products or manufacturers are named in the Contract Documents for the same purpose or use, then the Contractor shall select any of those so named. However, all of the units of a thing required for a Contract must be the same in material and manufacture.

(h) “Or Equal”, “Equal”, “Approved Equal”

The above terms are used as synonyms throughout the Contract Documents. They are implied in reference to all named manufacturers. Only Materials that, in the opinion of the Engineer, are fully equal in all details of Construction, methods of assembly, finish and design quality will be considered. (See (a), (c), (e) and (i) of this General Provision)

(i) Substitutions

Should the Contractor desire to substitute another Material for one or more specified by name, the Contractor shall apply, in writing, for such permission from the Engineer and state the credit or Extra Work involved by the use of such Material. The Engineer will not consider the substitution of any Material different in type or Construction methods unless such substitution effects a benefit to the County. (See (a) and (d) of this General Provision.)

The Contractor shall not submit for approval Materials other than those specified, unless the Contractor concurrently submits a written statement explaining why such a substitution of Materials is proposed. Approval of a “substitute” material by the Architect and/or Design Engineer when the Contractor has not designated such Material as a “substitute,” shall not be binding on the County nor release the Contractor from any obligations of the Contract, unless the Engineer and the Architect and/or Design Engineer approves such “substitutions” in writing.

(j) Storage

The Contractor shall confine apparatus and storage of Materials to the “off-Road” area delineated as the “limit of contract” or “limit of disturbance”, as applicable. The Contractor shall not load or permit any part of any Structure to be loaded with a weight that will endanger the safety of any Structure or any part thereof.

GP-6.06 SALVAGE MATERIALS

For Contract Work that involves the renovation, repair, and/or improvement of an existing Structure, the County has the right to claim as salvage any equipment and/or materials removed under the Work of the Contract. Should such right of salvage be exercised by the County, through verbal notification to the Contractor, the Contractor shall be responsible for the removal, protection, and transport, intact, of all salvaged equipment and/or materials to one or more government locations as directed by the Engineer. The Contractor shall provide the County with five (5) days advance notice prior to delivery of any salvage item to the designated government location. Until such time that items claimed as salvage by the County are provided to the County, the Contractor shall move and neatly store said items in a dry, secure location at the Contract Work site approved by the Engineer. Any and all costs associated with salvage materials, including, but not limited to, removal, protection, transportation and storage, shall be included by the Contractor in its Bid and Bid Package, and there will be no additional payment of any kind by the County for salvage operations or salvage materials.

GP - SECTION 7 LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

GP-7.01 COMPLIANCE WITH LAWS

The Contractor hereby represents and warrants that:

- (a) It is qualified to do business in the State of Maryland and that it will take such action as, from time to time hereafter, may be necessary to remain so qualified;
- (b) It is not in arrears with respect to the payment of any monies due and owing the State or the County, or any department or unit thereof, including, but not limited to the payment of taxes and employee benefits, and that it shall not become so in arrears during the term of this Contract;
- (c) It shall comply with all federal, State and local laws, regulations, codes, executive orders, and ordinances applicable to its activities and obligations under this Contract; and
- (d) All requirements set forth in federal assistance instruments applicable to this Contract shall be satisfied. The Contractor understands and agrees that it is possible federal and/or State funds may be used in connection with the Contract. Accordingly, prior to commencing any and all Work under the Contract, the Contractor shall ascertain and verify if federal and/or State funds are to be used by the County. It is the Contractor's obligation to ascertain if the County will use any federal and/or State funds in connection with the Contract or any portion thereof. Further, it is the obligation of the Contractor and the Contractor understands and agrees that should any federal and/or State funds be used by the County in connection with the Contract, the Contractor shall adhere to and comply with all applicable federal and/or State laws, regulations, circulars, executive orders, procedures and guidelines, as and if applicable, as amended from time to time, at no additional cost or expense to the County.

GP-7.02 PERMITS AND LICENSES

Revised
October 11, 2013

(a) The Contractor shall procure at Contractor's sole cost and own expense such permits, licenses, insurances and governmental approval as may be necessary in order to comply with federal, State and local laws, ordinances, codes, executive orders and regulations in performance of the Contract. The Contractor shall further give any notices necessary and incidental to the due and lawful prosecution of the Contract.

(b) The cost incurred in compliance with all permits shall be incidental to and included in the Bid. Any required permits, licenses and governmental approvals desired by the Contractor for temporary Structures such as docks, piers, anchorages, etc. must be applied for and obtained by the Contractor at Contractor's sole cost and expense.

(c) Fire hydrant permits must be obtained if water is required from a hydrant. No water is to be drawn from a public fire hydrant except through a meter. Applications shall be made through the County Department of Permits, Approvals and Inspections (PAI), or any successor County department. All costs are considered incidental to the Bid, with the following exceptions:

The Department will issue a meter for fire hydrant utilization for performance of the Contract. At the request of the Contractor within five (5) Days of charging the lines the Engineer will issue the meter application to the Contractor without cost and there will be no charge for Contractor's water use recorded on the meter provided. Failure to return the meter in good condition, or utilization of the meter provided for any other purpose, will be grounds for assessment of replacement costs thereof and/or liquidated damages.

(d) A backflow valve must be used in drawing water from the metropolitan system for charging and testing new utilities.

(e) This General Provision only applies, in its entirety, to building Contracts. GP-7.02(e)(8), "Miscellaneous Permits" applies to all types of Contracts.

(1) **BUILDING PERMIT** – The County will obtain the building permit at no cost to the Contractor.

(2) **PERMANENT WATER AND/OR SEWER SERVICE** – The County will apply for the permanent water and/or sewer service and pay all related charges; i.e., water meter, water systems connection charge, water distribution charge and sewer systems connection charge. Total installation of the permanent water and/or sewer service is part of this Contract. Water and/or sewer service shall be installed by a County prequalified utility contractor.

(3) **PLUMBING PERMIT** – The Contractor shall apply for the plumbing permit; however, the County will pay all related charges and fees.

(4) **PERMANENT ELECTRIC SERVICE** – The Contractor shall apply for and pay for the electrical permit. The County shall obtain permanent gas and electric service from the applicable Utility Companies for the Work site at no cost to the Contractor.

The Contractor shall coordinate the installation of permanent gas and electric service with the applicable Utility Companies. Both the gas and electric services shall be activated at the same time under one account number showing the County as owner. The Contractor shall be responsible for payment of consumption charges for the use of gas and electric energy obtained through the permanent gas and/or electric service until Final Acceptance for Maintenance of the Contract Work or until agreed upon by the County in direct coordination with the Department's Building Services Division. Charges from the Utility Companies for removal of existing electric service will be paid by the County.

(5) **PERMANENT TELEPHONE SERVICE** – The County shall pay for the permanent telephone service and systems to and in any Contract building. The Contractor is responsible for supplying and installing all conduit, cables and junction boxes as shown on the Contract Drawings or as described in the Contract Documents.

(6) **CABLE** – The County shall pay for any permanent cable television service into any Contract building. The Contractor is responsible for supplying and installing the remaining Work as shown on the Contract Drawings or as described in the Contract Documents.

(7) **TEMPORARY SERVICES** – All temporary services, such as water, electric, telephone, etc., shall be the Contractor's entire responsibility.

The Contractor shall arrange for and pay for the installation of temporary connection to the County's water mains, including all incidental fees and expenses for water supply during Construction of the Contract Work, and shall pay for all water used. Wasting of County water will not be permitted.

The Contractor shall arrange for and pay for temporary electric light and power service required during Construction of the Contract Work, and shall pay for all electricity used. Gasoline or other torches for lighting will not be permitted.

The Contractor shall provide and pay for any other temporary services that may be required for the Full and Final Completion of the Contract Work.

The Contractor shall provide, at Contractor's sole cost and expense, all cold weather protection, temporary heat and fuel as necessary to carry on the Work expeditiously during inclement weather, to protect Work and Materials against injury from dampness and cold, to dry out the building, and to provide suitable Working conditions. Refer to other portions of these Standard Specifications and/or the Contract Documents for temperatures required for Work under the various trades.

The methods of heating and type of fuel and Equipment used shall be subject to approval by Engineer.

With special permission, obtained from the Engineer in writing, a permanent heating system may be used to dry out any Contract building and provide suitable working conditions in all or various parts thereof as soon as practicable. If used, the Contractor shall be

responsible for use of the permanent heating system for the purpose described and all costs of fuel, attendance, etc. in connection therewith shall be borne by the Contractor. Such use shall not relieve the Contractor of its responsibility to turn over the permanent heating system to County on the date of Final Acceptance for Maintenance in perfect condition, including the removal of all dust of Construction from air handling units, etc., the replacing of all filters, etc., nor shall it shorten the stipulated guarantee period which will commence upon the date of Final Acceptance for Maintenance by the County of the Work.

(8) MISCELLANEOUS PERMITS - The Contractor shall procure any and all necessary permits not previously mentioned and pay any and all related charges and fees required and incidental to the due and lawful prosecution of the Work.

(f) The Contractor shall give all notices and comply with all State and federal laws, ordinances, rules and regulations bearing on the conduct of the Work as drawn and specified.

GP-7.03 INTELLECTUAL PROPERTY AND PATENTED DEVICES, MATERIALS AND PROCESSES

If the Contractor is required or desires to use any intellectual property right, design, device, propriety information, material, or process covered by letters of patent or copyright or any other intellectual property right, the Contractor shall provide for such use by suitable legal agreement with the patentee, license holder, or owner and a copy of such agreement shall be filed with the Administration. The Contractor and the Surety shall indemnify, protect and save harmless (and defend upon request) the County and its officials, employees, agents and any affected third party, or political subdivision from any and all claims, suits, demands, liabilities, actions, costs, and/or judgments including, but not limited to, attorneys fees, by reason of the use of any such patented design, proprietary information, device, trade secret, patent right or intellectual property right or design, device, material, or process, or any trademark or copyright.

GP-7.04 FEDERAL OR STATE PARTICIPATION

When the United States Government and/or the State pays all or any portion of the cost of a project, the Work shall be subject to the inspection of the appropriate federal or State agency. Such inspection shall in no sense make the federal or State government a party to this Contract, and will not interfere in any way with the rights of either party hereinunder.

GP-7.05 CONSTRUCTION SAFETY AND HEALTH STANDARDS

(a) It is a condition of this Contract, and shall be made a condition of each Subcontract entered into pursuant to this Contract, that the Contractor and any Subcontractor shall not require any laborer or mechanic employed in performance of the Contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health or safety, as determined under Construction safety and health laws, standards and regulations (Title 29,

Code of Federal Regulations, Part 1926, formerly Part 1518, as revised from time to time) promulgated by the United States Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standard Act, (83 Stat. 96) and under any Construction safety and health standards and regulations promulgated by the Commissioner of Labor and Industry in accordance with the Maryland Occupational Safety and Health Act and/or the Maryland General Assembly (as the same may be amended from time to time).

The Contractor and each Subcontractor shall permit inspection without delay and at any reasonable time on any premises where the Work is being performed by a federal or State inspector authorized to investigate compliance with the above mentioned federal and State statutes and regulations.

The Contractor further agrees to correct any violations found to exist during such inspection within a reasonable time after the issuance of any citation, unless the Contractor contests the validity thereof through the appropriate administrative and judicial process.

(b) The Contractor shall be responsible for gas detection in and ventilation of confined spaces.

When procedures require workers to enter confined spaces such as steel or concrete box section type Superstructures, the Contractor shall be cognizant of the potential health hazards, particularly when the interior is closed off at both ends.

It shall be the Contractor's responsibility to adhere to all applicable MOSHA regulations. The Contractor shall have available approved detecting devices and shall conduct tests for oxygen content and presence of gases, such as combustible gas, carbon dioxide, methane, carbon monoxide, and hydrogen sulfide whenever any fabrication, erection or inspection operations are to be performed within the confined spaces. The Contractor shall apply mechanical ventilation continuously to the confined space during occupancy to maintain the proper oxygen content. The Contractor shall conduct air tests periodically during the occupancy.

(c) The Contractor shall arrange for the erection and maintenance of temporary toilets equipped with running water and a drain connection for use of the Contractor's employees, Subcontractors, and/or agents, and County employees. These conveniences shall be erected and kept clean, neat and in good sanitary condition, as required by applicable law and/or regulation, until ordered removed by the Engineer.

In lieu of temporary toilets, the Contractor may install a portable chemical toilet at a location as approved by the Engineer.

The permanent plumbing fixtures to be constructed under the Contract shall not be used by any Person, under any circumstances, before Final Acceptance for Maintenance of the Contract by the County.

(d) The Contractor shall erect and properly maintain at all times as required by the conditions and progress of the Work, all necessary safeguards for the protection of workers and the public

and shall post danger signs warning against the hazards created by such features of Construction as protruding nails, hod hoists, well holes, elevator hatchways, scaffolding, window openings, stairways and falling material.

In an emergency affecting the safety of life, or of the Work, or of the adjoining property, the Contractor, without special instruction or authorization is hereby permitted to act, at the Contractor's discretion, to prevent such threatened loss or injury, and the Contractor shall so act, without appeal, if so instructed or authorized by the Engineer. Any compensation claimed by the Contractor on account of emergency Work shall be determined as outlined in GP-4.07.

GP-7.06 PUBLIC CONVENIENCE AND SAFETY

The Contractor at all times shall conduct the Work in such a manner as to ensure the least practicable obstruction to all forms of traffic. The convenience of the general public, tenants, and of the residents along and/or adjacent to the Work site shall be provided for as follows and as further directed by the Engineer:

- (a) Equipment and/or Materials stored upon or about the Work site shall be placed so as to cause a minimum of obstruction to the public.
- (b) Sprinkling shall be performed at the direction of the Engineer.
- (c) The Contractor shall, unless otherwise specified, provide and maintain in passable condition such temporary access, Roads and Bridges as may be necessary to accommodate traffic diverted from the Work site under Construction, or using the project under Construction and shall provide and maintain in a safe condition temporary approaches to and crossings of the Work site.
- (d) Existing facilities planned to be removed, but which might be of service to the public during Construction are not to be disturbed until other and adequate provisions are made.
- (e) Existing mailboxes shall be maintained or reset in positions accessible to the public and to mail deliveries during Construction and subsequent to Construction in their final locations in a satisfactory condition.
- (f) On facilities occupied by railroad or light rail stations, temporary platforms for the entrance and exit of passengers and/or freight to and from the railway cars shall be provided and maintained in an approved manner by the Contractor and the applicable railroad/agency.
- (g) Fire hydrants on or adjacent to the Contract Work site shall be kept accessible to fire apparatus at all times, and no material or obstruction shall be placed within fifteen (15) feet of any such hydrant. Work closed down for the winter or at any other times shall be left entirely accessible at all points to fire apparatus.

(h) All footways, gutters, storm drainage and portions of the Contract Work site adjoining the Work under Construction shall not be obstructed more than is absolutely necessary. The Engineer, in cooperation with the Sediment Control Inspector, shall specify that drainage inlets in sumps where there is potential for localized flooding shall have flow restrictions removed in the event of a predicted significant rainfall event.

GP-7.07 DETOURS

Detours may be indicated in the Contract Documents, or at the Contractor's request traffic may be detoured over County-approved routes along existing Roads, as determined acceptable by the Department's Bureau of Traffic Engineering and Transportation Planning. Detours over existing Roads will be designated, marked and maintained by the Contractor.

GP-7.08 BARRICADES AND WARNING SIGNS

The Contractor shall provide, erect and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs and other traffic control devices, and shall take all necessary precautions for the protection of the Work and safety of the public. All Highways and other County facilities closed to vehicular traffic shall be protected by effective barricades, and obstructions shall be illuminated during hours of darkness with electric lights. The Contractor shall erect warning signs in advance of any place on the Work site where operations may interfere with the use of the facility by vehicular traffic, and at all other points where the new Work crosses or coincides with an existing Roadway or traffic lane(s). Such warning signs shall be constructed and erected in accordance with the MUTCD for Street and Highways, or as directed by the Engineer.

The Contractor shall furnish, erect and maintain warning and direction signs in the number required by the Engineer and at locations designated by the Engineer throughout the limits of the Contract Work site.

For street and Highway type traffic, the signs shall conform in every respect to the requirements of the MUTCD for Streets and Highways. Signs must be freshly painted and adequately reflectorized before being placed on any Contract Work site. No Work may be performed or begun unless an adequate number of signs of the proper category are in place.

In cases where the Contractor's sequence of operations results in grade differentials that would be hazardous to vehicular traffic the Contractor shall, at the direction of the Engineer, provide suitable substantial traffic barriers to the extent determined by the Engineer.

GP-7.09 FLAGGING OF MOTOR VEHICLE TRAFFIC

For all Construction Contracts requiring the flagging of motor vehicles licensed for operation on the Highways of the State, said flagging shall be conducted as specified in the MUTCD for Streets and Highways.

GP-7.10 MAINTENANCE OF TRAFFIC

Unless otherwise noted in the Special Provisions, it shall be the Contractor's responsibility to maintain pedestrian and vehicular traffic safely, adequately and continuously on all portions of existing facilities affected by the Contractor's Work. In addition to existing facilities undergoing improvement, this also applies to crossroads, approaches, crossovers and entrances affected or made necessary by the Contractor's Work.

GP-7.11 PRESERVATION AND RESTORATION OF PROPERTY OUTSIDE OF RIGHT-OF-WAY

(a) The Contractor shall not enter upon public or private property (outside of the Right-of-Way or Contract Work area as shown on the Contract Drawings) for any purpose without obtaining prior written permission from any applicable property owners. The Contractor shall be responsible for the preservation of all public and private property, trees, property pipes, monuments, signs and markers and fences thereon, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall take suitable precaution to prevent damage to underground or overhead public utility structures. The Contractor shall carefully protect all survey land monuments and property marks located on the Contract Drawings or found in the Work site from disturbance. No alteration or damage thereto shall occur until survey references are established by a licensed surveyor at Contractor's sole cost and expense. If any land monuments and/or property marks are damaged or disturbed, they shall be reset by a licensed surveyor at the Contractor's sole cost and expense.

(b) The Contractor shall be responsible for all damage or injury to property of any character during the prosecution of the Work, resulting from any act, omission, neglect or misconduct in the Contractor's manner or method of executing said Work, or at any time due to defective Work or Materials, and said responsibility shall not be released until Final Acceptance for Maintenance of the Work is achieved. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect or misconduct in the execution of the Work or in consequence of the nonexecution thereof on the part of the Contractor, the Contractor shall restore, at the Contractor's sole cost and expense, such property to a condition similar to, or equal to, that existing before such damage or injury, in an acceptable manner to the County and/or applicable property owner. In case of the failure on the part of the Contractor to restore such property or make good such damage or injury, the Engineer may, upon forty-eight (48) hours notice to the Contractor, proceed to Repair, rebuild or otherwise restore such property as may be deemed necessary, and the cost and expense thereof will be deducted from any monies due or which may become due the Contractor under this Contract. If the property damage results in a public safety issue, in the sole discretion of the County, the

Contractor shall restore immediately or the County shall do so at Contractor's sole cost and expense.

(c) The Contractor should be aware of the potential of cultural resources on the Contract Work site. During the Construction phase, whenever anything that might appear to be a cultural resource of an historical, archeological, or paleontological nature is encountered, such an object shall not be disturbed. Work shall be stopped and rescheduled in a way that shall avoid not only the objects encountered but also the area of discovery and the Engineer shall be notified in writing at once. The Engineer will arrange for the evaluation of the situation by the appropriate authorities and for the ultimate disposition of the matter, taking the evaluation of the situation by the appropriate authorities into consideration.

(d) All trees along the way of access and all trees surrounding any Contract building which are liable to injury by the moving, storing and working up of Materials shall be boxed. No permanent tree shall be used for attachment of any ropes or derricks. Every public way, catch basin, conduit, tree, fence or things injured in carrying out this Contract, shall be replaced and put in good condition by the Contractor at no cost or expense to the County, unless the same shall be permanently done away with by written order of the Engineer.

GP-7.12 LAND, AIR AND WATER POLLUTION

(a) The Contractor shall incorporate all permanent erosion control features into the Work at the earliest practicable time as required by the Contract Documents. Temporary pollution control measures will be used to correct conditions that develop during Construction that were not foreseen during design; that are needed prior to installation of permanent pollution control features; or that are needed temporarily to control erosion that develops during normal Construction practices, but are not associated with permanent control features on the Contract.

(b) The Contractor's attention is directed to the fact that temporary pollution control may include control measures outside the Right-of-Way or Contract Work site where such Work is necessary as a direct result of Contract-required Construction. The Engineer shall be kept advised of all such off-site control measures taken by the Contractor. This shall not relieve the Contractor of the basic responsibilities for such Work.

(c) In case of failure on the part of the Contractor to control erosion, pollution or siltation, the Engineer reserves the right to employ outside assistance or to use County forces to provide the necessary corrective measures. All costs and expenses incurred by the Engineer in the performance of such duties for the Contractor shall be withheld from monies due or becoming due to the Contractor.

(d) The Contractor and the Contractor's suppliers must submit evidence to the Administration that the governing federal, State and local air pollution laws, regulations and criteria will be met. This evidence and related documents will be retained by the Administration for on-site evaluation.

GP-7.13 RESPONSIBILITY FOR DAMAGE CLAIMS

(a) The Contractor shall indemnify and save harmless the County and all of its officials, agents, employees and representatives from all suits, actions, or claims of any character, including, but not limited to, all the costs of defense, brought on account of any injuries or damages sustained by any person or property in consequence of any neglect in safeguarding the Work, and/or through the use of unacceptable Materials in the Construction of the Contract Work, and/or on account of any act or omission by the said Contractor in the performance of the Contract, and/or as a result of faulty, inadequate or improper temporary drainage during Construction, and/or on account of the use, misuse, storage or handling of explosives, and/or on account of any claims or amounts recovered for any infringement of intellectual property, patent, trade secret, proprietary information, trademark, or copyright, and/or from any claims or amounts arising or recovered under the workers' compensation laws, and/or any other State or local law, executive order, charter, bylaw, code, ordinance, regulation, order or decree whether caused by or resulting from the act, omission, neglect, or misconduct of the Contractor, or its employees, agents, or Subcontractors, at any tier. The Contractor shall be responsible for any and all damage or injury to property of any character during the prosecution of the Work resulting from any act, omission, neglect or misconduct, in the manner or method of executing said Work satisfactorily or due to the nonexecution of said Work or at any time due to defective Work or Materials and said responsibility shall continue until Full and Final Completion of the Contract. The obligation of the Contractor to the County and all of its officials, agents, employees and representatives to indemnify, defend, and save harmless shall not apply if resulting from the sole negligence of the County.

(b) The Contractor shall conduct its operations upon the right-of-way of any applicable railroad company fully within the rules, regulations and requirements of the railroad company including, but not limited to, any additional flagging, insurance, inspection, and/or permit requirements. The Contractor shall be responsible for acquainting itself with such requirements as the railroad company may demand.

(c) The Contractor shall be held solely responsible for any accidents that may happen to the railroad company as a result of its operations.

(d) In accordance with GP-7.15, the Contractor shall not be held responsible for any claims arising from accidents incurred because of any traffic or general use permitted during the time the Construction Work site or any section thereof is open to traffic except from accidents which are attributable to the Contractor's, or the Contractor's employee's, Subcontractor's or agent's, acts or omissions or negligence.

GP-7.14 LIABILITY INSURANCE

Prior to the start of the Work on the Contract, or prior to the execution of the Contract if permitted by the County, the Contractor shall submit to the Department's Division of

Construction Contracts Administration, an evidence of insurance certificate indicating that the following insurance is carried:

“Comprehensive general public liability and property damage insurance” in the amounts of at least five hundred thousand dollars (\$500,000) for the death of or injury to any person, each occurrence. Such insurance shall protect the Contractor from claims which may arise out of, or result from, the Contractor’s operations under the Contract, whether such operations be by the Contractor, any Subcontractor, or anyone directly or indirectly employed by the Contractor or Subcontractor, or anyone for those acts any of the above may be liable. Minimum coverages to be included: “independent contractor’s coverage”; “completed operations and products liability coverage”; and “contractual liability coverage”. “Damages not to be excluded insurance” shall contain no exclusions applying to operations by the Contractor or any Subcontractor in the performance of the Contract pertaining to: (1) collapse of, or structural injury to, any Contract building or Structure; (2) damage to underground property; or (3) damage arising out of blasting or explosion and, where applicable, (4) removal of asbestos/lead or debris and building products containing asbestos/lead, transportation and disposal of asbestos/lead and contaminated materials.

“Automobile liability insurance” shall include “bodily injury liability” and “property damage liability” for a combined single limit of five hundred thousand dollars (\$500,000) any one accident. Such insurance shall provide coverage for all Contractor owned, non-owned and hired automobiles.

“Workers’ compensation and employers’ liability insurance” must contain statutory coverage, including “employers’ liability insurance” with limits of at least for “bodily injury by accident” – two hundred fifty thousand dollars (\$250,000) each accident; “bodily injury by disease” – two hundred fifty thousand dollars (\$250,000) each employee; and “bodily injury by disease” – five hundred thousand dollars (\$500,000) policy limit.

Any policy exclusions must be shown on the face of the evidence of insurance.

When specified in the Contract Documents, the Contractor shall carry the type and amounts of insurance in addition to any other forms of insurance or bonds required under the terms of the Contract and the Contract Documents.

The cost of the insurance will be incidental to the Contract lump sum price for mobilization, or if that is not identified, to the other Contract Items specified in the Contract Documents.

Contractor shall procure **“railroad public liability and property damaged insurance”** and this insurance shall be provided by the Contractor as specified in TC-6.03.

The Contractor and its insurer shall immediately notify in writing the Department’s Division of Construction Contracts Administration in the event that the Contractor’s insurance coverage lapses for any reason.

Unless previously waived in writing by the Engineer, the Contractor shall, at the Contractor's sole expense and cost, insure the Work and keep it insured at all times during the Contract term and period of Construction, and until Final Acceptance for Maintenance of all Contract Work by the County, against loss or damage covered by an "all risk" builders risk type of policy. The amount of insurance shall be the one hundred percent (100%) estimated replacement cost of the Work.

The policies shall name the County and the Contractor as certificate holder and shall name the County as an additional insured in accordance with the requirements of the Contract Documents, as their interest may appear, and the policies shall be left in the possession of the Engineer, prior to the start of Construction.

GP-7.15 USE AND POSSESSION PRIOR TO FULL AND FINAL COMPLETION

(a) The Administration shall have the right to take possession of or use any completed or partially completed part of the Work. Such possession of or use shall not be deemed Partial Acceptance for Maintenance and/or Final Acceptance for Maintenance of any Work not completed in accordance with the Contract. While the Administration is in such possession, the Contractor shall be relieved of the responsibility for loss or damage to that portion of the Work in possession of the Administration, other than that resulting from the Contractor's fault, omission, act, or negligence. If such prior possession or use by the Administration delays the progress of the Work or causes additional expense to the Contractor, the Contractor shall provide the Administration with immediate Written Notice thereof to allow possible equitable adjustment in the Contract price or the time of completion. If necessary, an equitable adjustment will be made and the Contract shall be modified pursuant to a Contract Modification accordingly.

(b) Under this GP-7.15, only upon the prior written authorization of the Engineer may the Contractor be relieved of maintenance during the time the County has taken possession. Any portion of the Work that may be disturbed or damaged shall be restored at respective Contract prices for Contract Items involved, or on the basis of a predetermined arrangement entered into by the Contractor and Engineer before the performance of the restoration Work.

GP-7.16 CONTRACTOR'S RESPONSIBILITY FOR WORK

(a) Except as herein elsewhere provided, until Final Acceptance for Maintenance of the Work by the Administration, the Contractor shall have the charge and care thereof and shall take every reasonable precaution against injury or damage to any part thereof by the action of the elements, or from any other cause, whether rising from the execution or from the nonexecution of the Work. The Contractor, except as herein elsewhere provided, shall rebuild, Repair, restore, and make good all injuries or damages to any portion of the Work occasioned by any of the above causes before the Final Acceptance for Maintenance and shall bear the expense thereof. Material lost or Structures damaged as a result of faulty temporary drainage during Construction or the action of the elements shall be replaced or Repaired by the Contractor at no cost, expense, or delay to the Administration. The Contractor shall make good or replace at the Contractor's

cost and expense, and as otherwise required, any Administration-furnished Material which may be broken, lost through fire, theft, or otherwise damaged, or in any way made useless for the purpose and use intended subsequent to delivery to the Contractor by the Administration and prior to Final Acceptance for Maintenance of the Work by the County even though such breakage, damage, loss or uselessness may result from causes beyond the control of the Contractor.

(b) In case of suspension of Work for any cause whatever, the Contractor shall be responsible for the Contract Work and Work site and shall take such precautions as may be necessary to prevent damage to the Work and the Work site, provide for normal drainage, and shall erect any necessary temporary Structures, signs, or other facilities at the Contractor's cost and expense. During such period of suspension of Work, the Contractor shall properly and continuously maintain in an acceptable growing condition all living material in newly established plantings, seedings, and soddings furnished under this Contract, and shall take adequate precautions to protect new growth and other important vegetative growth against injury.

GP-7.17 CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES

At points where the Contractor's operations are adjacent to properties of railway, telegraph, telephone, power companies, and/or Utility Companies or are adjacent to other property, damage to which might result in expense, loss or inconvenience, Work shall not be commenced until all arrangements necessary for the protection thereof have been made between the Contractor and the property owner and/or affected Person.

The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal and rearrangement operations in order that these operations may progress in a reasonable manner, that duplication or rearrangement Work may be reduced to a minimum and that services rendered by those parties will not be unnecessarily interrupted.

In the event of interruption to utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the said authority in the restoration of service. No Work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

GP-7.18 PERSONAL LIABILITY OF PUBLIC OFFICIALS

In carrying out any of the provisions of the Contract, or in exercising any power or authority granted to them by or within the scope of the Contract, there shall be no liability upon the Administrator, Engineer or other County officials, employees, agents and/or authorized representatives, either personally or as officials, employees, or agents of the County, it being understood that in all such matters they act solely as agents and representatives of the County.

In addition, the Engineer and all of Engineer's representatives shall be held harmless, free of liability and duress, in the exercise of their duties and obligations as Inspector, administrator, witness, referee, mediator, and arbiter by both parties in their mutual best interest.

GP-7.19 NO WAIVER OF LEGAL RIGHTS

The Administration shall not be precluded or estopped by any measurement, estimate, or Certificate made either before or after the Partial Acceptance for Maintenance and/or Final Acceptance for Maintenance of any Work and payment therefore by the County, from showing the true amount and character of the Work performed and Materials furnished by the Contractor, nor from showing that any such measurement, estimate or Certificate is untrue or is incorrectly made, nor from showing that the Work or Materials do not in fact conform to the Contract. The Administration shall not be precluded or estopped, notwithstanding any such measurement, estimate or Certificate and payment in accordance therewith, from recovering from the Contractor or its Sureties, or both, such damage as it may sustain by reason of Contractor's failure to comply with the terms of the Contract. Neither the acceptance by the Administration, or any representative of the Administration, nor any payment for or acceptance of the whole or any part of the Work, nor any extension of time, nor any possession taken by the Administration, shall operate as a waiver of any portion of the Contract or of any power herein reserved, or of any right to damages.

No failure or delay by the County to insist upon the strict performance of any term, condition or covenant within the Contract, or to exercise any right, power, or remedy consequent upon a breach thereof, shall constitute a waiver of any such term, condition, or covenant or of any such breach, or preclude the County from exercising any such right, power, or remedy at any later time or times. Further, the express written waiver of any breach of the Contract shall not be a waiver of any other or subsequent breach of the Contract.

GP-7.20 NONDISCRIMINATION IN EMPLOYMENT

(a) The Contractor shall agree to the following conditions during the performance of its Contract with the County:

(1) To comply with all applicable federal, State, and County laws, regulations, codes, circulars, and executive orders;

(2) Not to discriminate in any manner against an employee or applicant for employment because of race, color, religion, creed, age, sex, marital status, national origin, ancestry, or physical or mental handicap unrelated in nature and extent so as reasonably to preclude the performance of such employment;

(3) To include a provision similar to that contained in GP-7.20 (a)(2), above, in any Subcontract except a Subcontract for standard commercial supplies or raw Materials;

(4) To post and to cause Subcontractors to post in conspicuous places available to employees and applicants for employment, notices setting forth the substance of this GP-7.20;

(5) In all solicitations or advertisements for employees placed by or on behalf of the Contractor, to state that all qualified applicants will receive consideration for employment without regard to sex, race, creed, color or national origin;

(6) If requested by the County to furnish a compliance report concerning its employment practices and policies in order for the County to ascertain compliance with the provisions of this Contract concerning nondiscrimination in employment; and

(7) To include the provisions outlined in this GP-7.20 pertaining to nondiscrimination in employment in every Subcontract or purchase order it uses in order to carry out the terms and conditions of the Contract so that such nondiscrimination in employment provisions are binding on each Subcontractor or vendor.

(b) In the event of the Contractor's noncompliance with the nondiscrimination provisions of this GP-7.20 and/or the Contract, the County shall impose such sanctions as it may determine to be appropriate, including but not limited to:

(1) Withholding of payment to the Contractor under the Contract until the Contractor complies; and/or

(2) Cancellation, termination or suspension of the Contract in whole or in part.

(c) Contractors providing Materials, Equipment, supplies, or services to the County under this Contract herewith assure the County that they are conforming to the provisions of the Civil Rights Act of 1964 and Section 202 of the Executive Order 11246 of the President of the United States of America as amended by Executive Order 11375, as applicable and as may be amended from time to time.

GP-7.21 SANCTIONS UPON IMPROPER ACTS – Reserved.

GP-7.22 NONHIRING OF EMPLOYEES

No official or employee of the County or any unit, department or agency of the County, whose duties as such official or employee include matters relating to or affecting the subject matter of this Contract, shall, while so appointed and/or employed, and during the pendency and/or term of the Contract, become or be an officer or employee of the Contractor.

GP-7.23 CHOICE OF LAW

The Parties hereby agree that:

(a) This Contract was made and entered into in Maryland, and under the laws, regulations, codes, and executive orders of the County and the State, as applicable.

(b) The laws, regulations, codes and executive orders of the County and the State shall govern the resolution of any issue arising in connection with this Contract including, but not limited to, all questions concerning the validity of this Contract; the capacity of the parties to enter therein; any modification or amendment thereto; and the rights and obligations of the parties hereunder.

GP-7.24 CONTINGENT FEE PROHIBITION

(a) The Contractor warrants that it has not employed or retained any Person, partnership, corporation, or other entity, other than a bona fide employee or agent working for the Contractor, to solicit or secure this Contract, and that it has not paid or agreed to pay any Person, partnership, corporation, or other entity, other than a bona fide employee or agent, any fee or any other consideration contingent on the making of this Contract.

(b) For a breach or violation of this warranty, the Administration shall have the right to terminate this Contract without liability, or, in its discretion, to deduct from the Contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee.

GP-7.25 MULTI-YEAR CONTRACTS CONTINGENT UPON APPROPRIATIONS

– Reserved.

GP-7.26 COST AND PRICE CERTIFICATION – Reserved.

GP-7.27 CORPORATE REGISTRATION AND TAX PAYMENT CERTIFICATION

– Reserved.

GP-7.28 BUY AMERICAN STEEL ACT

The Provisions of COMAR 21.11.02 pertaining to implementation of the “Buy American Steel” Act (Subtitle 3 of Title 17 of the State Finance and Procurement Article of the Annotated Code of Maryland), as amended from time to time, are incorporated in this Contract by reference.

GP-7.29 MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE

It is the policy of the County that MBE and WBE, as defined by the most recent County Executive Order, and as further described in the Contract Documents, shall have the maximum opportunity to participate in the performance of capital improvement contracts financed by County capital funds and/or County operating funds in accordance with the most recent County Executive Order. The Contractor shall comply with all MBE/WBE requirements as set forth in the Contract Documents.

GP-7.30 PREVAILING WAGE CONTRACTS FOR PUBLIC WORKS

(a) The Provisions of Subtitle 2 of Title 17 of the State Finance and Procurement Article of the Annotated Code of Maryland, as amended, and COMAR 21.11.11, as amended, pertaining to the Prevailing Wage for Public Works are incorporated in construction contracts of five hundred thousand dollars (\$500,000) or more by reference, if and as applicable.

(b) When all or a portion of the cost of a contract is funded by the U.S. Government, and the cost of the contract exceeds two thousand dollars (\$2,000), among other legal requirements, the minimum wage rates and benefits paid to workmen under the contract shall be those prevailing in the locality, as predetermined by the Secretary of Labor pursuant to the Davis-Bacon Act (40 USC 276a to a-7), as amended from time to time, and regulations (29 CFR, Part 5) promulgated thereunder, as amended from time to time. Davis-Bacon rates applicable to this Contract, if any, may be specified elsewhere in the Contract Documents.

GP-7.31 SMALL BUSINESS PROCUREMENTS – Reserved.

GP-7.32 FINANCIAL DISCLOSURE – Reserved.

GP-7.33 POLITICAL CONTRIBUTION DISCLOSURE

The Contractor affirms that it is aware of, and will comply with, the provisions of Sections 14-101 through 14-108 of the Election Law Article of the Annotated Code of Maryland, as amended from time to time, which requires every Person who makes, during any 12-month period, one or more contracts, with one or more State governmental entities involving cumulative consideration, of a least two hundred thousand dollars (\$200,000.00), to file with the State Board of Elections certain specified information to include disclosure of attributable political contributions in excess of five hundred dollars (\$500.00), during defined reporting periods.

GP-7.34 CONFLICT OF INTEREST LAW

It is unlawful for any County official, employee, or agent to participate personally in his/her official capacity through decision, approval, disapproval, recommendation, advice, or investigation in any contract or other matter in which he or she, his or her spouse, or his or her dependent child has a financial interest or to which any firm, corporation, association, or other organization in which he or she has a financial interest or in which he or she is serving as an officer, director, trustee, partner, or employee is a party, or to which any person with whom he or she is negotiating or has any arrangement concerning prospective employment, is a party, unless such official, employee, or agent has previously complied with the provisions of Article 7 of the Baltimore County Code, 2003, as amended.

GP-7.35 PRE-EXISTING REGULATIONS – Reserved.

GP-7.36 RETENTION OF RECORDS

(a) Except as otherwise expressly stated in this General Provision and the Contract Documents, the Contractor shall retain and maintain all records and documents including, but not limited to, cost or pricing data, relating to this Contract for three (3) years after final payment by the County under the Contract or any applicable statute of limitations, whichever is longer, and shall make them available for inspection and audit by authorized representatives of the County, including the Engineer or his designee at all reasonable times. Should the Contract involve use of State or federal funds, the Contractor shall retain and maintain, all records and documents including, but not limited to, cost or pricing data, relating to this Contract for not less than ten (10) years after final payment by the County under the Contract or any applicable statute of limitations, whichever is longer.

(b) The Contractor shall include the provisions of GP-7.36(a) in every Subcontract.

GP-7.37 RESPONSIBILITY FOR RIGHT OF WAY

(a) The Right-of-Way (or Work site) as shown on the Contract Drawings has been, or will be, secured by the County.

(b) The Contractor shall not move any Equipment or Material in or on the Right-of-Way until authorized to do so by the Engineer. The Contractor shall confine its operations strictly within the limits of the Rights-of-Way shown in the Contract Documents unless the Contractor obtains the prior written permission of any applicable property owner of such additional lands as Contractor proposes to occupy. A copy of the written permission will be furnished to the Engineer before Contractor enters said property.

(c) Unless otherwise provided in the Contract Documents, trees with a butt diameter in excess of three inches (3"), measured three feet (3') above the ground, shall not be felled or damaged by the Contractor in a Right-of-Way identified as a Construction Strip. Should the Contractor obtain written permission of any applicable property owner to fell a tree or trees with

a diameter greater than three inches (3") from a Construction Strip, Contractor shall provide a copy of the written permission to the Engineer before Contractor enters said property and/or fells such tree(s).

(d) Unless otherwise provided in the Contract Documents, all trees may be felled with the permission of the Engineer in those Rights-of-Way identified as a Highway Right-of-Way or a slope, utility or drainage Easement.

(e) Unless otherwise provided in the Contract Documents, the Contractor is to preserve and protect, remove and replace, or restore fences, mail boxes, Sidewalks, driveways, shrubs, perennial plants, or other private improvements in Rights-of-Way identified as Construction Strips or Easements of any kind.

(f) The Contractor shall not enter upon public or private property (outside of the Right-of-Way or Contract Work area as shown on the Contractor Drawing) for any purpose without obtaining prior written permission from any applicable property owners and shall be responsible for the preservation of all public and private property, trees, property pipes, monuments, signs and markers and fences thereon, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall take suitable precaution to prevent damage to underground or overhead public and private utility structures. The Contractor shall carefully protect from disturbance all survey land monuments and property marks located on the Contract Drawings or found in on, or at the Work site. No alteration or damage thereto shall occur until survey references are established by a licensed surveyor at Contractor's sole cost and expense. If any land monuments and/or property marks are damaged or disturbed, they shall be reset by a licensed surveyor at the Contractor's sole cost and expense.

(g) Upon Final Acceptance for Maintenance of the Work by the County, the Contractor shall restore the Rights-of-Way provided to a condition equivalent to that originally encountered, unless improved by the Work completed or as specified by the Contract. Property used by the Contractor under letter of permission or property that has been damaged shall be restored pursuant to GP-7.11 and the applicable letter of permission or to the satisfaction of the property owner without any cost or expense to the County.

(h) No arrangements will be made by the County for rights-of-way or rights of access beyond those shown in the Contract Documents. Any and all expense or costs relative to additional rights-of-way, rights of ingress and egress, or any other supplemental property rights beyond those described in the Contract Documents are considered to have been accounted for in the Bid.

GP-SECTION 8 PROSECUTION AND PROGRESS

GP-8.01 SUBCONTRACTING

(a) Utilities and/or Highways Contracts. Except as may be provided elsewhere in the Contract, the Contractor to whom a utilities and/or Highways Contract is Awarded shall perform with its own organization and with the assistance of workmen under the Contractor's immediate supervision, Work of a value of not less than fifty percent (50%) of the total Bid value of the Contract. The Director may permit the Contractor to sublet or Subcontract Work in excess of the fifty percent (50%) limitation where it is determined by the Engineer that the best interest of the County will be promoted thereby. The execution of Work by a subsidiary of the Contractor is not considered to be Work performed by the Contractor under this GP-8.01(a). The Contractor shall not assign any monies due or to become due to the Contractor hereunder, without the previous written consent of the County.

The Engineer's consent to Subcontract shall not be construed to relieve the Contractor or its Surety of any responsibility for the fulfillment of all the requirements of the Contract.

Unless required by the County pursuant to GP-8.01(e) or unless specified in the Contract Documents, Subcontractors undertaking a portion of Work under a utilities or Highways Contract in accordance with GP-8.01(a) (less than fifty percent (50%) of the Bid value) do not require Department approval.

When required, the Contractor shall give assurance that the minimum wage for labor, as specified in the Contract Documents, shall apply to labor performed on all Work sublet, subcontracted, assigned or otherwise disposed of in any way under a utilities or Highway Contract.

(b) Buildings Contracts. Except as may be provided elsewhere in the Contract, the contractor to whom a buildings Contract is Awarded shall perform with its own organization, and with the assistance of workmen under the Contractor's immediate supervision and with Materials directly purchased and paid for by the Contractor, Work of a value of not less than ten percent (10%) of the total Bid value of the Contract. Costs for insurance, overhead, and supervisions may not be claimed as a portion of the ten percent (10%) or more of the Work. The execution of Work by a subsidiary of the Contractor is not considered to be Work performed by the Contractor under this GP-8.01(b). The Contractor shall not assign any monies due or to become due to the Contractor hereunder, without the previous written consent of the County.

The Engineer's consent to Subcontract shall not be construed to relieve the Contractor or its Surety of any responsibility for the fulfillment of all the requirements of the Contract.

Unless required by the County pursuant to GP-8.01(e) or unless specified in the Contract Documents, Subcontractors undertaking a portion of Work under a building Contract in accordance with GP-8.01(b) (less than ten percent (10%) of the Bid value) do not require Department approval.

When required, the Contractor shall give assurance that the minimum wage for labor, as specified in the Contract Documents, shall apply to labor performed on all Work sublet, subcontracted, assigned or otherwise disposed of in any way under a building Contract.

(c) **All Contracts.** The Contractor shall not assign any of its obligations, responsibilities, or liabilities under any portion of the Contract except with the express prior written consent of the Engineer. Any assignment of any of the Contractor's obligations responsibilities, or liabilities under any part of the Contract without the express prior written consent of the Engineer shall be null and void. Along with any applicable legal documentation to be signed by all applicable parties, any approved assignee must provide the County with (1) an executed Contract specifying the Contract Items and dollar volume of the Work to be performed by the assignee, (2) a Payment Bond and a Performance Bond as required pursuant to GP-3.03, and (3) a certificate of insurance as required pursuant to GP-7.14.

(d) **All Contracts.** For purposes of documentation and the County's file, the Contractor shall provide the County with Written Notice of all Subcontractors' names, and the amount or percent of the Bid value of the Contract and/or the Contract to be performed by each named Subcontractor, at or before time of Notice to Proceed.

(e) **All Contracts.** At any time after the County's issuance of the Bid Package, the County expressly reserves the right, for purposes of County approval and/or rejection, to require the Contractor to provide the County with Written Notice of all Subcontractors' names, and the amount or percent of the Contract to be performed by each named Subcontractor, and the names for such material men, suppliers, and others as the Engineer may direct, within ten (10) Business Days upon request by the County therefore. The Engineer shall review the Contractor's Written Notice under this GP-8.01(e) in a timely manner and inform the Contractor in writing of those Subcontractors approved by the Engineer for use on the Contract. If any Subcontractor is rejected in writing by the Engineer, such Subcontractor shall not work on the Contract Work. Prior to any Engineer approval, the Engineer may request the Contractor and any Subcontractor to meet additional criteria as specified by the Engineer in writing or in a Contract Modification. If the County requests Written Notice under this GP-8.01(e), the Contractor shall employ only those Subcontractors as may be approved in writing by the Engineer. No substitutions or further Subcontracting shall be employed by the Contractor without prior written approval from the Engineer. Approved Subcontractors shall not Subcontract principal or important parts of their Work, as determined in the County's sole discretion, without the Engineer's prior written approval.

The Engineer's approval of a Subcontractor under this GP-8.01(e) is only for Work to be prosecuted under the Contract and said approval is not applicable to any other contract with the County.

The Engineer reserves the express right to revoke approval of any Subcontractor for that Subcontractor's breach of any Contract provision, including, but not limited to, GP-8.06.

The Contractor agrees to be fully responsible to the County for the acts and omissions of its employees, Subcontractors and, of Persons either directly or indirectly employed by Contractor, and their respective employees and agents. The Contractor shall not assign this responsibility to any Person, except as provided in GP-8.01(c).

The Contractor shall incorporate by reference or otherwise include these General Provisions in every Subcontract issued pursuant to or under this Contract, and shall require that the same reference or inclusion be contained in every Subcontract entered into by any of its Subcontractors, at any tier.

(f) All Contracts. The Contractor agrees to bind every Subcontractor and every Subcontractor agrees to be bound by the terms of the Contract, the Standard Specifications, the Standard Details, the Special Provisions, the Contract Drawings and the Contract Documents, as far as applicable, to the Work.

The Subcontractor agrees to be bound to the Contractor by the terms of the Contract, the Standard Specifications, the Standard Details, the Special Provisions, the Contract Drawings and the Contract Documents and to assume towards the Contractor all obligations and responsibilities that the Contractor, by those documents, assumes towards the County.

The Contractor agrees to be bound to the Subcontractor by all the obligations the County assumes to the Contractor under the Contracts, the Standard Specifications, the Standard Details, the Special Provisions, the Contract Drawings, and the Contract Documents and by all the provisions thereof affording remedies and redress to the Contractor from the County.

(g) All Contracts. The Contractor shall pay its Subcontractors:

(1) Upon receipt of payment, as described in Section GP-9.03, the amount allowed to the Contractor on account of that Subcontractor's Work, to the extent of that Subcontractor's interest herein.

(2) Upon the receipt of payment, if issued otherwise than as described in Section GP-9.03, so that at all times the total payments shall be as large in proportion to the value of the Work done by the Contractor as the total amount certified to the Contractor is to the value of the Work done by that Subcontractor.

(3) To such extent as may be provided by the Contract Documents or any related Subcontracting documents, if either of these provides for earlier or larger payments than described in GP-8.01(g)(1) and (2).

(4) On demand for that Subcontractor's Work or Materials as far as executed and fixed in place, less the retained percentage, at the time the payment is requested, even though the Engineer fails to approve it for any cause not the fault of that Subcontractor.

(5) To give that Subcontractor an opportunity to be present and to submit evidence in any manner involving that Subcontractor's rights under the Contract.

The Contractor and the Subcontractor agree that nothing in this GP-8.01(g) shall create any obligation on the part of the County to pay any Subcontractor or to see to the payment of any sums to any Subcontractor. County has no obligation or liability of any kind, nature or amount to any Subcontractor. Nothing contained in the Contract, or any related Subcontracting

documents, shall create any contractual relationship between any Subcontractor, materialman, supplier, and/or other party and the County.

GP-8.02 NOTICE TO PROCEED

(a) Unless otherwise stated in the Contract Documents, upon execution of the Contract and within ninety (90) Calendar Days from the date of Award, the Department's Division of Construction Contracts Administration will issue to the Contractor a "Notice to Proceed" and this notice will stipulate when the Contractor is expected to begin Work. The specified Contract Time shall begin on the date stipulated in the Notice to Proceed or, if an earlier start is authorized in the Notice to Proceed, on the Day Work (other than the erection of the inspection office, Construction stakeouts and mobilization) actually starts. Work done prior to receipt of the Notice to Proceed is unauthorized and will not be measured or paid for.

(b) If the County is unable to issue the Notice to Proceed within ninety (90) Calendar Days from the Award of the Contract, and the County has not yet executed the Contract, the Contractor may request that the County rescind the Notice to Proceed, it being mutually understood that in such instance and upon such rescission, the County shall have no further obligation or liability to Contractor of any nature, kind or amount. If the County is unable to issue the Notice to Proceed within ninety (90) Calendar Days from the Award of the Contract, and the Contract was executed by the Contractor and the County, the Contractor may request that the County rescind the Contract, it being mutually understood that in such instance and upon such rescission, the County's obligations and liabilities shall be limited to the net documented cost of Materials actually fabricated and/or delivered to the Work site of the Contract preauthorized in writing by the Engineer. The County's remedies shall be in accordance with the Contract Documents, at law and/or in equity.

(c) The County has no obligation or duty to remit payment for any Materials prior to the County's execution of the Contract. Any Material paid for by the County after a notice of Award will become the property of the County.

(d) **Emergency Roster.** Each successful Contractor must furnish the Engineer with the names, addresses and telephone numbers of at least two (2) members of the Contractor's organization who may be contacted in an emergency.

GP-8.03 PROSECUTION OF THE WORK/DETERMINATION & EXTENSION OF CONTRACT TIME

(a) The Contractor shall begin Work promptly within the time specified by the Engineer in the Notice to Proceed and shall notify the Engineer at least forty-eight (48) hours before starting Work. The Contractor shall complete the Work and achieve Full and Final Completion within the number of Working Days, Calendar Days or Calendar Date, as specified in the Contract.

The Engineer will make available to the Contractor each week a record showing the number of Days charged to the Contract for the preceding week. The Contractor will be allowed one week in which to protest and thirty (30) Days in which to file a written statement, setting forth in what respects time charges are incorrect.

(b) If Full and Final Completion of the Contract, including all extensions and increases authorized under GP-4.04 and changes specified in the General Provisions and Interim Supplemental Specifications, requires the performance of Work in greater quantities than specified in the Contract, as determined by the Engineer, the Contract Time allowed for Contract performance may be adjusted based on the quantities, cost and the nature of the Work involved.

(c) The Contractor, under certain conditions, may be granted permission or ordered to suspend operations as defined in GP-8.07 "Suspension of Work". On a Working Day Contract, if the Contractor elects and is permitted by the Engineer to do any Work during a suspension period, the Working Days charged shall be based on the "daily value" of the Contract, which shall be calculated as the Bid price of the Contract divided by the number of Working Days allowed by the Contract Time. At the end of each month during any suspension period, the amount of money earned for that month will be divided by the "daily value" (as defined above) to determine the number of Working Days to be charged for that month (number of Working Days to be rounded down). However, the resultant number of Working Days to be charged for any particular month will never exceed the number of Calendar Days for that month, excluding Saturdays, Sundays or Holidays on which no Work was performed by the Contractor on a Pay Item and/or a Controlling Operation.

Time used in performing Work of an emergency nature ordered by the Engineer for the convenience of the traveling public or for the production or delivery of Materials for storage, if performed during the period of suspension, will not be charged against the Contract Time.

(d) Following the date on which Partial Acceptance for Maintenance has been achieved for all Work, except those landscaping Contract Items on which Work is restricted to specified seasons and when inspection and Final Acceptance for Maintenance is being deferred pending completion of those landscaping Contract Items because such Work is currently out of season, and for no other reason, no time will be charged against the Contractor until such time as it is again permissible to proceed with such landscaping Work. However, time will be charged during any extensions of the specified season documented by the County and which may be granted the Contractor.

(e) **Prosecution of the Work shall not be discontinued without the prior written approval of the Engineer.** After the Work has started, the Contractor shall prosecute the Work continuously within the Contract Time without stoppage until Final Acceptance for Maintenance of all Contract Work is achieved and the Contractor achieves Full and Final Completion.

(f) Should the prosecution of the Work for any reason be discontinued without the prior written approval of the Engineer, the Contractor shall immediately notify the Engineer in writing of Contractor's intention to stop and the County may exercise any and all rights pursuant to the Contract, at law and/or equity.

GP-8.04 PROGRESS SCHEDULE REQUIREMENTS

(a) General.

(1) Scheduling of Construction is the responsibility of the Contractor. The Contractor must take all reasonable action to avoid or to mitigate the effects of delays including, but not limited to, rescheduling or resequencing the Work, accepting other work, and reassigning personnel. When the Contractor is responsible for any delays, the County may order the Contractor to accelerate Construction, work overtime, add additional shifts or manpower, work on weekends, or to do anything else reasonably necessary to achieve Full and Final Completion of the Work within the Contract Time, at no additional cost to the County.

(2) The Contractor shall submit to the County for review and approval a baseline schedule, monthly progress schedules, and any required recovery schedules as outlined in this GP-8.04.

(3) Failure of the Contractor to comply with the requirements of this GP-8.04 shall be grounds for determination by the County that the Contractor is not prosecuting the Work with due diligence as to ensure Full and Final Completion of the Work within the Contract Time specified in the Contract Documents or as agreed upon with the County after execution of the Contract. Based on this determination, the County may terminate the Contractor's right to proceed with the Work, or any separable part thereof, in accordance with GP-8.08 of these Standard Specifications.

(4) The Contractor does not have the unilateral right to complete the Work late and to then pay liquidated or other damages as a proposed remedy to this lateness.

(b) Baseline Schedule.

(1) Within thirty (30) Days after the Award of the Contract, the Contractor shall submit to the Department a detailed baseline schedule indicating the time allocated by the Contractor for performance of each portion of the Work. The baseline schedule shall show commencement of Work from the date the Notice to Proceed is issued. The baseline schedule shall show Full and Final Completion of the Work within the Contract Time as specified in the Contract or as mutually agreed upon with the County in writing pursuant to a Contract Modification after execution of the Contract.

(2) The submitted baseline schedule shall be properly and reasonably sequenced to show the order of performing the various tasks of Work. The baseline schedule shall clearly identify the sequencing restraints and the critical activities necessary to complete the Work and achieve Full and Final Completion of the Work within the Contract Time, and shall list proposed Work Days, Holidays and any special non-Work Days.

(3) The submitted baseline schedule shall list the dollar value for each Contract Item and shall show the Contractor's labor requirements for achieving each Contract Item. The baseline schedule shall also include a list of submittals related to Material and Equipment fabrication orders, permits, Easements and any other Work tasks requiring submittals. Each necessary submittal shall be shown on the baseline schedule as a separate Work activity with necessary dates of submittal, anticipated review and response time, anticipated dates of re-submittal if necessary, and anticipated dates for final review and approval.

(4) Within fourteen (14) Calendar Days after the Engineer reviews and rejects or conditionally approves the submitted baseline schedule, the Contractor shall make all necessary corrections and resubmit the corrected baseline schedule. The County may decline to issue a Notice to Proceed until the Contractor submits the required baseline schedule in form and content acceptable to the County in the County's sole discretion.

(c) Monthly Progress Schedules.

(1) Within thirty (30) Days after the County issues Notice to Proceed, and on a monthly basis thereafter, the Contractor shall submit a monthly progress schedule accurately updated to reflect Contract Work performed to date since the previously submitted monthly progress schedule including, but not limited to, actual commencement dates of listed Work activities, actual Work activities completed to date, and any sequence changes made or planned for the order of Work activities and their effect on the critical path for Full and Final Completion of the Contract. The sequencing changes shall show extension of times granted in a Contract Modification by the County and any delays or early completion of Work activities.

(2) The Contractor shall, and it is the Contractor's obligation to, meet with the Engineer, or his designee, at least once a month to discuss in detail the Contractor's updating of the monthly progress schedule and the necessity for revision or correction in the monthly progress schedule.

(3) Within ten (10) Calendar Days after the County reviews and rejects or conditionally approves the submitted monthly progress schedule, the Contractor shall make all necessary corrections and resubmit the corrected monthly progress schedule in form and content acceptable to the County in the County's sole discretion.

(4) The Contractor shall submit the required monthly progress schedule whether or not the Contractor submits an application for payment each month. The County may decline to process any pending payment requests under the Contract unless and until the Contractor submits the required monthly progress schedule in form and content acceptable to the County, in the County's sole discretion, and the Engineer approves such schedule in writing.

(d) Recovery Schedules.

(1) At all times during the Contract term, within ten (10) Calendar Days after the Contractor falls behind a baseline schedule or a monthly progress schedule, or is alleged by the County to be behind a baseline schedule or a monthly progress schedule, the Contractor shall

furnish to the County, at no additional cost, a recovery schedule. The recovery schedule shall show how the Contractor will finish the Contract Work and achieve Full and Final Completion by the Contract Date.

(2) The recovery schedule shall include all of the information required under GP-8.04(c).

(e) **Logical Sequencing and Layout of the Submitted Schedules (CPM Schedules).**

(1) Unless the Contract Documents expressly permit the Contractor to use a type of schedule other than a Critical Path Method (CPM) schedule, the submitted baseline schedule, the monthly progress schedules, and any required recovery schedules shall all be CPM schedules.

(2) CPM schedules are required to assure and to monitor the Contractor's adequate planning and execution of the Work and to assist in the County's evaluation of the Contractor's progress of the Work and the impact on the Completion Date.

(3) The submitted CPM schedules shall clearly designate the dates of Final Acceptance for Maintenance and Full and Final Completion of the Contract Work. **THE CONTRACTOR'S ACHIEVEMENT OF FINAL ACCEPTANCE FOR MAINTENANCE DOES NOT RELIEVE THE CONTRACTOR OF ANY OBLIGATION OR RESPONSIBILITY TO ACHIEVE FULL AND FINAL COMPLETION OF ALL CONTRACT WORK BY THE COMPLETION DATE.**

(4) As part of the CPM schedule format, the Contractor shall include logic or network diagrams showing the order and interdependence of activities and the sequence in which Work is to be accomplished as planned by the Contractor. These diagrams must show how the start of a given activity is dependent on preceding activities and how its completion restricts the start of the following activities.

(5) At a minimum, the following information shall be furnished for each Work activity in any and all schedules provided under this GP-8.04:

- i. Activity number
- ii. Description of activity
- iii. Activity numbers for any predecessor and successor activities
- iv. Relationships with preceding activities
- v. Activity duration in calendar days
- vi. Percent of activity completed
- vii. Early start date (by Calendar Date)
- viii. Early finish date (by Calendar Date)
- ix. Actual start date (by Calendar Date)
- x. Actual finish date (by Calendar Date)
- xi. Float or slack (by Calendar Date)

(6) The Contractor's monthly progress schedules and any required recovery schedules shall show the activities or portion of the activities completed during the reporting period and their total dollar value as basis for the Contractor's periodic request for payment. For each activity, the update shall state the percentage of Work actually completed and the progress along the critical path in terms of Days ahead or behind the allowable dates.

(7) The Contractor's monthly progress schedules and any required recovery schedules shall include a comments section summarizing the updated analysis for the Contract Work as a whole, describing any and all problems with Work activities, and explaining proposed corrective actions.

(8) Approved Change Orders shall be reflected as new activities or as change in logic and/or time framing of existing activities. Approved Change Orders shall be shown on the Contractor's applicable updated schedule that immediately follows the Contractor's receipt of a Change Order approval from the County.

(9) The Contractor shall hold bi-weekly progress meetings, or more frequently if required by Engineer, at the Work site, at a time suitable to the Engineer, at which the progress of the Work shall be reported upon in detail with reference to all applicable schedules. Each interested Subcontractor shall be required to have present a competent representative to report the condition of the Subcontractor's portion of the Work and to receive instructions. Minutes of these progress meetings shall be taken by the Contractor who shall type them for distribution to members of the meeting, the Department's Division of Construction Contracts Administration, the Department's Bureau of Engineering and Construction, and other interested persons. These minutes shall be received by all parties prior to the next scheduled progress meeting and will be revised by the Contractor if not accurately describing events to date.

ANY AND ALL MINUTES FROM ANY PROGRESS MEETING ARE FOR INFORMATIONAL PURPOSES ONLY. THESE MINUTES ARE NOT INCORPORATED INTO THE CONTRACT DOCUMENTS AND ARE NOT LEGALLY BINDING UPON THE DEPARTMENT OR THE COUNTY.

(f) Form of Schedule Submittal.

All schedules including, but not limited to, the baseline schedule, the monthly progress schedules, and any required recovery schedules shall be submitted by the Contractor to the County in three (3) paper copies and one (1) copy on CD.

GP-8.05 LIMITATIONS OF OPERATION

The Contractor shall conduct the Work at all times in such a manner and in such sequence as will assure the least interference with the public.

Except as otherwise stated in the Contract Documents, no Work shall be done on Saturdays, Sundays, or Holidays without the prior written approval of the Engineer. Except for

emergencies, approval to Work on Saturdays, Sundays and Holidays shall be obtained forty-eight (48) hours in advance.

GP-8.06 CHARACTER OF WORKMEN, METHODS AND EQUIPMENT

(a) The Contractor shall employ sufficient labor and Equipment for prosecuting the several and all classes of Work to achieve Full and Final Completion in the manner and time required by the Contract.

Workmen must have sufficient skill and experience to properly perform the Work assigned to them. All workmen engaged in special Work or skilled Work shall have sufficient experience in such Work and in the operation of the Equipment required to perform the Work properly and satisfactorily.

(b) Any person employed by the Contractor or by any Subcontractor who, in the opinion of the Engineer, does not perform his Work in a proper manner or is intemperate or disorderly shall, at the written request of the Engineer, be removed forthwith by the Contractor or Subcontractor employing such person, and shall not be employed again in any portion of the Work without the prior written approval of the Engineer.

Should the Contractor fail to remove such person or persons as required in this GP-8.06(b), or fail to furnish suitable and sufficient personnel for the proper prosecution of the Work, the Engineer may withhold estimates and/or monies which are or may become due on the Contract until a satisfactory understanding and resolution is reached in the County's sole discretion.

(c) Only persons thoroughly trained and skilled in the task assigned them may be employed on any portion of the Work, or they shall be removed by the Contractor.

When County, State or federal laws require that certain persons (such as, by way of example, electricians, plumbers, etc.) be licensed, then all such persons employed on the Work shall be so licensed.

(d) The Contractor shall confine the operations of Contractor's employees and agents to the limits as provided by law, regulations, executive orders, ordinance, permits or directions of the Department. Generally, the "off-Road" area will be the same as the "limit of Contract" line.

(e) All workmanship shall be of good quality. Whenever the method or manner of the Work or manner of procedure is not specifically stated or shown in the Contract Documents, then it is intended and understood that the best standard practice shall be adhered to by the Contractor. Recommendations of the manufacturers of approved Materials shall be considered as a part of and incorporated into the Standard Specifications and all Materials shall be applied, installed, connected, erected, used, cleaned and conditioned as so called for thereby. This, however, does not remove any requirement in Contract to add to the manufacturer's recommendations.

All Materials shall be accurately assembled, set, etc., and when so required in good Construction, shall be true to line, even, square, plumb, level and regularly spaced, coursed, etc. Under no circumstances, either in new or old Work, shall any Material be applied over another which has not been thoroughly cleaned, sanded or otherwise treated so as not to impair the finish, adhesion, or efficiency of the next applied item.

(f) Equipment to be used on the Work shall meet the requirements of the Work and produce a satisfactory quality of Work in accordance with the Contract. The Engineer may order the removal and require replacement of any unsatisfactory Equipment at the Engineer's sole discretion. When the methods and Equipment to be used by the Contractor in accomplishing the Construction are not prescribed in the Contract, the Contractor is free to use any methods or Equipment that Contractor demonstrates in advance to the satisfaction and written approval of the Engineer will accomplish the Contract Work in conformity with the requirements of the Contract.

When the Contract specifies that the Construction be performed by the use of certain methods and Equipment, such methods and Equipment shall be used unless others are pre-authorized by the Engineer in writing. If the Contractor desires to use a method or type of Equipment other than those specified in the Contract, the Contractor shall request authority from the Engineer to do so. The request shall be in writing and shall include a full description of the methods and Equipment proposed for use and an explanation of the reasons for Contractor desiring to make the change. If written pre-approval of the Engineer is given, it will be on the condition that the Contractor will be fully responsible for producing Construction Work in conformity with Contract requirements. If, after trial use of the substituted methods or Equipment, the Engineer determines that the Work produced does not meet Contract requirements, the Contractor shall promptly discontinue the use of the substituted method or Equipment and shall complete the remaining Construction with the specified methods and Equipment in accordance with the Contract. The Contractor shall remove the deficient Work and replace it with Work of specified quality, or take such other corrective action as the Engineer may direct. Any Change Order issued, if any, in accordance with this GP-8.06(f) shall not result in an increase in Contract price or Contract Time.

(g) All methods, procedures and results are subject to the Engineer's approval as to the finished result to be obtained. However, this is not to be interpreted as placing upon the Engineer any responsibility for the Work management that is solely the responsibility of the Contractor.

The Contractor shall at all times enforce strict discipline and good order among Contractor's employees and agents. The Contractor shall neither employ any unfit person nor shall the Contractor permit an unfit person to remain on the Work site. The Contractor shall enforce all instructions relative to use of water, heat, power, smoking, and shall control any use of fires, as required by law, regulation, and the Contract and by the Department. Employees and agents of the Contractor shall not loiter on, near or about the Work site before or after work.

GP-8.07 SUSPENSION OF WORK

Revised
October 11, 2013

(a) The Engineer may unilaterally order the Contractor in writing to suspend the Work, wholly or in part, for such period or periods as Engineer may deem necessary, in the Engineer's sole discretion, for reasons including, but not limited to, unsuitable weather or such other conditions as are considered unfavorable for the proper prosecution of the Work, or for such time as is necessary because the Contractor has failed to carry out orders given or to perform any and all provisions of the Contract. If it should become necessary to stop Work for an indefinite period, the Contractor shall store all Materials in such manner that they will not obstruct or impede the traveling public unnecessarily or become damaged in any way, and the Contractor shall take every precaution to prevent damage or deterioration of the Work performed, provide suitable drainage by opening ditches, Shoulder drains, etc., and erect temporary Structures where necessary.

(b) If the performance of all or any part of the Work is for an unreasonable period of time, suspended, delayed, or interrupted by an act of the Engineer in the administration of this Contract, or by Engineer's failure to act within the time specified in this Contract (or if no time is specified, within a reasonable time), an adjustment shall be made for any increase in the cost of performance of this Contract (excluding profit) necessarily caused by an unreasonable suspension, delay, or interruption and a Contract Modification executed accordingly. However, no adjustment shall be made under this GP-8.07 for any suspension, delay, or interruption of the Work to the extent that performance would have been so suspended, delayed or interrupted by any other cause, including, but not limited to, the fault or negligence of the Contractor, including, but not limited to, GP-8.07(a) and (c), or for which an equitable adjustment is provided for or excluded under any other provisions of this Contract.

(c) The Engineer shall have the unilateral authority to suspend the Work, wholly or in part, due to the failure of the Contractor to correct conditions unsafe for the workers or the general public; for Contractor's failure to carry out the requirements of the Contract Documents; or as directed in conformance with the Contract Documents for conditions considered unsuitable for the prosecution of the Work.

(d) No claim under this General Provision shall be allowed:

(1) For any costs incurred more than twenty (20) Days before the Contractor shall have notified the Engineer in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension ordered by Engineer); and

(2) Unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of a suspension, delay, or interruption, but not later than the date of final payment under the Contract.

(e) If the Contractor should neglect to prosecute the Work properly or fail to perform any provision of this Contract, the County after three (3) Days' Written Notice to the Contractor may, without prejudice to any other remedy, make good such deficiencies and/or perform the Contract or any portion thereof, as deemed applicable and appropriate by the County in its sole

discretion, and may deduct the cost thereof from the payment then or thereafter due the Contractor.

GP-8.08 TERMINATION FOR DEFAULT - DAMAGES FOR DELAY - TIME EXTENSIONS.

(a) If the Contractor refuses or fails to timely and properly prosecute the Work, in whole or in part, with such diligence as shall insure Full and Final Completion within the Contract Time, or breaches the terms of the Contract, termination for default, in whole or in part, shall be evidenced and the Department may, by Written Notice to the Contractor, terminate the Contract and the Contractor's right to proceed with the Work, in whole or in part, in accordance with this GP-8.08.

(b) The Department, upon proof that sufficient cause exists to satisfy such action, in the County's discretion, may without prejudice to any other right or remedy, terminate the Contract for default, in whole or in part. Termination for default, in whole or in part shall be evidenced and documented by Written Notice by the County to the Contractor and said termination for default shall be effective seven (7) days after Contractor's receipt of such Written Notice. Upon a termination for default the County may take over the Work and take possession of the Work and of all Materials, tools, Equipment and plant thereon and prosecute the same to completion, by contract, by whatever method may be deemed expedient, or otherwise, and may take possession of and utilize in completing the Work, the Materials, Equipment, and plant as may be on the site of the Work and necessary therefore. Whether or not the Contractor's right to proceed with the Work is terminated for default, the Contractor and its Sureties shall be liable for any damage to the County resulting from the Contractor's refusal or failure to achieve Full and Final Completion of the Work within the Contract Time and/or the Contractor's breach of the Contract Documents.

The County may appropriate or use any or all Materials and Equipment intended to be incorporated in the Contract as may be suitable and acceptable and may enter into an agreement for the completion of said Contract according to the terms and provisions thereof, or use such other methods as in the County's determination shall be required for the completion of said Contract in a manner acceptable to the County.

(c) Examples of sufficient cause to terminate for default include, but are not limited to, cases where the Contractor should:

- (1) Be adjudged a bankrupt or make a general assignment for the benefit of creditors,
- (2) Have a receiver appointed on account of insolvency,
- (3) Fail to or refuse to supply properly skilled persons or proper Materials, Equipment except in cases for which extension of time is provided by the County,

(4) Fail to make payment to a Subcontractor, materialmen, supplier, and/or other persons.

(5) Fail to comply with any law, regulation, executive order, ordinance, or persistently disregarded the instructions of the Engineer, or

(6) Breach any material representation, warranty, covenant, condition, obligation, or provision of the Contract.

(d) If the County terminates for default of the Contract under this GP-8.08, the Contractor shall not be entitled to receive any further payment until the Contract Work is finished and, even then, only if the unpaid balance of the Contract price shall exceed the expenses of finishing the Work, including compensation for additional managerial and administrative services, shall such excess be paid to the Contractor. If such expenses shall exceed such unpaid balance, the Contractor shall pay the difference to the County. The expenses incurred by the County as herein provided, and the damage incurred by the County as herein provided, and the damage incurred through the Contractor's default, shall be itemized by the Engineer and a certified copy supplied to the Contractor.

(e) The Contractor's right to proceed may not be terminated for default and the Contractor shall not be charged with resulting damages if:

(1) The delay in the completion of the Work arises solely from unforeseeable causes beyond the control and without the act, omission, fault or negligence of the Contractor including, but not restricted to, acts of God, acts of the public enemy, acts of the County in either its sovereign or contractual capacity, acts of another contractor in the performance of a contract with the County, fires, floods, epidemics, quarantine, restrictions, strikes, freight embargoes, unusually severe weather, or delays of Subcontractors or supplies arising solely from unforeseeable causes beyond the control and without the act, omission, fault or negligence of either the Contractor and/or the Subcontractors, suppliers or materialmen; and

(2) The Contractor, within ten (10) Days from the beginning of any such delay (unless the Engineer grants a further period of time before the date of final payment under the Contract), notifies the Engineer in writing of the causes of delay. The Engineer shall ascertain the facts and the extent of the delay and extend the Contract Time for completing the Work when, in the Engineer's judgment, the findings of fact justify such an extension, and the Engineer's findings of fact shall be final and conclusive on the parties, subject only to appeal as provided in the GP-5.15 "Disputes".

(f) If, after notice of termination for default of the Contract and the Contractor's right to proceed under these General Provisions, it is determined for any reason that the Contractor was not in default under the provisions of the Contract, or that the delay was excusable under the provisions of the Contract, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to GP-8.10.

(g) The rights and remedies of the County provided in this GP 8.08 are in addition to any other rights and remedies provided by law, equity and/or under this Contract.

(h) As used in GP 8-08, the term Subcontractors, materialmen, or suppliers means Subcontractors, materialmen or suppliers at any tier.

GP-8.09 LIQUIDATED DAMAGES

TIME IS AN ESSENTIAL ELEMENT OF THE CONTRACT AND IT IS IMPORTANT THAT THE WORK BE VIGOROUSLY PROSECUTED UNTIL FULL AND FINAL COMPLETION OF THE CONTRACT.

FOR EACH DAY THAT FULL AND FINAL COMPLETION REMAINS UNACHIEVED BEYOND THE CONTRACT TIME, THE CONTRACTOR AND/OR ITS SURETY SHALL BE LIABLE FOR LIQUIDATED DAMAGES IN THE AMOUNT PROVIDED FOR IN THE CONTRACT.

(a) ALL ADDITIONAL COSTS AND CHARGES INCURRED BY THE COUNTY, INCLUDING, BUT NOT LIMITED TO, ANY AND ALL DAMAGE TO PERSONS OR PROPERTY, THE COST OF COMPLETING THE WORK UNDER THE CONTRACT, SHALL BE DEDUCTED FROM ANY MONIES DUE OR WHICH MAY BECOME DUE TO CONTRACTOR. IF THE EXPENSE SO INCURRED BY THE COUNTY IS LESS THAN THE SUM WHICH WOULD HAVE BEEN PAYABLE UNDER THE CONTRACT IF IT HAD BEEN COMPLETED BY SAID CONTRACTOR, THE SAID CONTRACTOR SHALL BE ENTITLED TO RECEIVE THE DIFFERENCE, AND IF SUCH EXPENSE EXCEEDS THE SUM WHICH WOULD HAVE BEEN PAYABLE UNDER THE CONTRACT, THE CONTRACTOR AND THE SURETY SHALL BE LIABLE AND SHALL PAY TO THE COUNTY THE AMOUNT OF SAID EXCESS.

(b) IF FIXED AND AGREED LIQUIDATED DAMAGES ARE PROVIDED IN THE CONTRACT AND IF THE COUNTY SO TERMINATES THE CONTRACT, AND ACCORDINGLY THE CONTRACTOR'S RIGHT TO PROCEED, THE RESULTING DAMAGE SHALL CONSIST OF SUCH LIQUIDATED DAMAGES FOR THE REASONABLE TIME REQUIRED FOR FULL AND FINAL COMPLETION OF THE WORK TOGETHER WITH ANY INCREASED COSTS AND EXPENSES INCURRED BY THE COUNTY IN COMPLETING THE WORK.

(c) IF FIXED AND AGREED LIQUIDATED DAMAGES ARE PROVIDED IN THE CONTRACT AND IF THE COUNTY DOES NOT SO TERMINATE THE CONTRACTOR'S RIGHT TO PROCEED, THE RESULTING DAMAGE SHALL CONSIST OF THESE LIQUIDATED DAMAGES UNTIL FULL AND FINAL COMPLETION IS ACHIEVED.

(d) Interest shall accrue upon all damages, liquidated or otherwise, at the statutory rate of interest provided pursuant to the Maryland Constitution and the Maryland Code, as applicable and as amended.

GP-8.10 TERMINATION FOR CONVENIENCE OF THE COUNTY

(a) The performance of Work under this Contract may be terminated for convenience by the County, in whole, or in part, whenever the Engineer shall determine that such termination for convenience is in the best interest of the County. Any such termination for convenience shall be effected by Engineer's delivery to the Contractor of a Written Notice of termination for convenience specifying the extent to which performance of Work under the Contract is terminated, and the date upon which such termination becomes effective.

(b) After receipt of notice of termination for convenience, and except as otherwise directed by the Engineer, the Contractor shall:

(1) Stop Work under the Contract on the date and to the extent specified in the Written Notice of termination for convenience;

(2) Place no further orders or Subcontracts for Materials, supplies, Equipment, services or facilities, except as may be necessary for completion of the portion of the Work under the Contract that is not terminated for convenience;

(3) Terminate all orders and Subcontracts to the extent that they relate to the performance of Work terminated by notice of termination for convenience;

(4) Assign to the County in the manner, at the times, and to the extent directed by the Engineer, all of the right, title, and interest of the Contractor under the orders and Subcontracts, in which case the County shall have the right, in its discretion, to settle or pay any or all claims arising out of such orders and Subcontracts, or assume said orders and subcontracts, or do otherwise, as deemed appropriate in the sole discretion of the County;

(5) Settle all outstanding liabilities and all claims arising out of the termination of orders and Subcontracts, with the approval or ratification of the Engineer, to the extent he may require, which approval or ratification shall be final for all the purposes of this GP-8.10;

(6) Transfer title and deliver to the County, in the manner, at the times and to the extent, if any, directed by the Engineer, (a) the fabricated or unfabricated parts, Work in process, completed Work, supplies, and other Material produced as a part of, or acquired in connection with the performance of the Work terminated for convenience by the Written Notice of termination for convenience, and (b) as applicable, the completed or partially completed Plans, Contract Drawings, As-Built Drawings, operation and maintenance manuals, warranty certificates, information, and other property which, if the Contract had been completed, would have been required to be furnished to the County;

(7) Use its best effort to sell, in the manner, at the times, to the extent, and at the price or prices directed or authorized by the Engineer, any property of the types referred to in (6) above; provided, however, that the Contractor (a) may not be required to extend credit to any

purchaser, and (b) may acquire any such property under the conditions prescribed by and at a price or prices approved by the Engineer; and provided further that the proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the County to the Contractor under this Contract or shall otherwise be credited to the price or cost of the Work covered by this Contract or paid in such other manner as the Engineer may direct;

(8) Complete performance of such part of the Work as may not have been terminated by the Written Notice of termination for convenience; and

(9) Take any action that may be necessary, or as the Engineer may direct, for the protection and preservation of the property related to this Contract which is in the possession of the Contractor and in which the County has or may acquire an interest. The Contractor shall submit to the Engineer a list, with Certification as to quantity and quality, of any or all items of inventory not previously disposed of, exclusive of items the disposition of which has been directed or authorized by the Engineer, and may request the County to remove such items or enter into a storage agreement covering them. Not later than fifteen (15) Days thereafter, the County shall accept title to such items and remove them or enter into a storage agreement covering the same; provided, that the list submitted shall be subject to verification by the Engineer upon removal of the items, or if the items are stored, within forty-five (45) Days from the date of submission of the list, and any necessary adjustment to correct the list as submitted shall be made prior to final settlement.

(c) After receipt of a Written Notice of termination for convenience, the Contractor shall submit to the Engineer his termination for convenience claim, in the written form and with Certification prescribed by the Engineer. This claim shall be submitted promptly in accordance with GP-5.14 and GP-5.15 of these Standard Specifications, unless an extension is granted in writing by the Engineer, upon timely request of the Contractor in writing.

(d) Subject to this GP-8.10 (c), the Contractor and the Engineer may agree upon the whole or any part of the amount or amounts to be paid to the Contractor by reason of the total or partial termination for convenience of Work pursuant to this GP 8-10, which amount or amounts may include a reasonable allowance for profit on Work done; provided, that such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total Contract price as reduced by the amount of payments otherwise made and as further reduced by the Contract price of Work not terminated for convenience. If the parties so agree, the Contract shall be amended with a Contract Modification, and the Contractor shall be paid the amount specified therein.

(e) In the event of the failure of the Contractor and the Engineer to agree as provided in GP-8.10 (d), upon any amount to be paid to the Contractor by reason of the termination for convenience of Work pursuant to this General Provision, the Engineer shall pay to the Contractor the amounts determined by the Engineer as follows, but without duplication of any amounts agreed upon in accordance with GP-8.10 (d):

(1) For completed supplies or services accepted by the County (or sold or acquired as provided in GP-8.10 (b)(7) above) and for which payment has not theretofore been made, a sum equivalent to the aggregate price for the supplies or services computed in accordance with the

price or prices specified in the Contract, appropriately adjusted for any saving of freight or other charges;

(2) The total of:

(a) The costs incurred in the performance of the Work terminated for convenience, including initial costs and preparatory expense allocable thereto, but exclusive of any costs attributable to supplies or services paid or to be paid for under GP-8.10 (e)(1) hereof; and

(b) The cost of settling and paying claims arising out of the termination of Work under Subcontracts or orders, as provided in GP-8.10 (b)(5) above, which are properly chargeable to the termination for convenience portion of the Contract (exclusive of amounts paid or payable on account of supplies or Materials delivered or services furnished by Subcontractors or vendors before the effective date of the Written Notice of termination for convenience, which amounts shall be included in the costs payable under GP-8.10 (e)(2)(a); and

(c) A sum, as profit on GP-8.10 (e)(2)(a), determined by the Engineer to be fair and reasonable; provided, however, that if it appears that the Contractor would have sustained a loss on the entire Contract had it been completed, no profit shall be included or allowed under this GP-8.10 (e)(2)(c) and an appropriate adjustment shall be made reducing the amount of the settlement to reflect the indicated rate of loss; and

(d) The reasonable cost of settlement accounting, legal, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the Contract and for the termination and settlement of Subcontracts thereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to this Contract.

The total sum to be paid to the Contractor under this GP-8.10 (e) shall not exceed the total Contract price as reduced by the amount of payments otherwise made and as further reduced by any Contract price of Work not terminated for convenience. Except for normal spoilage, and except to the extent that the County shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to the Contractor as provided in GP-8.10 (e), the fair value, as determined by the Engineer, of property that is destroyed, lost, stolen, or damaged so as to become undeliverable to the County or to a buyer pursuant to GP-8.10 (b)(7).

(f) The Contractor shall have the right of appeal, under GP-5.15 "Disputes", from any determination made by the Engineer under this GP-8.10, except that if the Contractor has failed to timely submit its claim within the time provided in this GP-8.10, and has failed to request extension of such time, Contractor shall have no such right of appeal. In any case where the Engineer has made a determination of the amount due under this GP-8.10, the County shall pay to the Contractor the following:

(1) If there is no right of appeal hereunder and/or if no timely appeal has been taken, the amount so determined by the Engineer; or,

- (2) If an appeal has been taken, the amount finally determined on such appeal.
- (g) In arriving at the amount due the Contractor under this GP-8.10 there shall be deducted:
- (1) All unliquidated advance or other payments or account theretofore made to the Contractor, applicable to the terminated for convenience portion of this Contract;
- (2) Any claim which the County may have against the Contractor in connection with this Contract; and
- (3) The agreed price for, or the proceeds of sale of, any Materials, supplies, or other things acquired by the Contractor or sold, pursuant to the provisions of this GP-8.10, and not otherwise recovered by or credited to the County.
- (h) If the termination for convenience hereunder be partial, the Contractor may file with the Engineer a written claim for an equitable adjustment in accordance with GP-5.14 and GP-5.15 of the price or prices specified in the Contract relating to the continued portion of the Contract (the portion not terminated by the Written Notice of termination for convenience), and such equitable adjustment as may be agreed upon shall be made in such price or prices in a Contract Modification.
- (i) The County may, from time to time, under such terms and conditions as it may prescribe, make partial payments and payments on account against costs incurred by the Contractor in connection with the terminated for convenience portion of this Contract whenever, in the opinion of the Engineer, the aggregate of such payments shall be within the amount to which the Contractor shall be entitled hereunder. If the total of such payments is in excess of the amount finally agreed or determined to be due under this General Provision 8.10, such excess shall be payable by the Contractor to the County upon demand, together with interest at the legal rate as prescribed by State law for the period from the date such excess payment is received by the Contractor to the date on which the excess is repaid to the County.
- (j) Unless otherwise provided for in this Contract, or by applicable statute, the Contractor shall, from the effective date of termination for convenience until the expiration of three (3) years after final settlement under this Contract, preserve and make available to the County at all reasonable times at the office of the Contractor but without direct charge to the County, all Contractor's books, records, documents and other evidence bearing on the costs and expenses of the Contractor under this Contract and relating to the Work terminated for convenience hereunder, or, to the extent approved by the Engineer, photographs, microphotographs, or other authentic reproductions thereof. If the Contract involves the use of federal or State funds, Contractor shall retain records and documentation as required by GP-7.36.

GP-8.11 SUCCESSFUL TERMINATION OF CONTRACTOR'S RESPONSIBILITY

Full and Final Completion is the date upon which the County acknowledges in writing that the Contractor fully and finally completed all aspects of the Contract and the Contract Work, and met all terms, conditions and obligations of the Contract, as further described herein. Full and Final Completion of a Contract includes Final Acceptance for Maintenance of all Contract Work; the authorization of final payment by the County; the Contractor's and its Surety's compliance with all obligations under the Contract; the submission of all Plans, Contract Drawings, As-Built Drawings (as described below), operation and maintenance manuals, and warranty certificates; the completion of all punch list Work; and final payment by the County to the Contractor.

The Contractor shall, as the Work progresses, neatly record on a set of final signed and sealed As-Built Drawings the Work as actually constructed by the Contractor and reflecting all Working Drawings including, but not limited to, any changes and all revisions to the Work made during the course of the Contract wherever it differs from the Contract Documents. Upon Final Acceptance for Maintenance of the Work, the Contractor shall turn over the As-Built Drawings to the County. No Full and Final Completion of the Contract by the County may occur until these As-Built Drawings are submitted to and approved by the County.

GP-SECTION 9 PAYMENT

GP-9.01 SCOPE OF PAYMENT

(a) Payments to the Contractor will be made for the actual quantities of Contract Items performed in accordance with the Plans and Contract Documents and if, upon completion of the Construction and the Work, these actual quantities show either an increase or decrease from the quantities given in any Contract schedule, the Contract unit prices will still prevail, except as provided in GP-4.04 "Variations in Estimated Quantities", or in a Contract Modification.

(b) Except as may otherwise be provided herein, the Contractor shall accept the compensation as provided by the Engineer under this GP-Section 9:

(1) In full payment for furnishing all Materials, lab, tools, and Equipment and any incidentals necessary to the completed Work and for performing all Work contemplated and embraced under the Contract;

(2) For all loss or damage arising from the nature of the Work, or from the action of the elements, or from any other unforeseen difficulties which may be encountered during the prosecution of the Work until Full and Final Completion of the Contract;

(3) For all risks of every description connected with the prosecution of the Work; and

(4) For all expenses incurred in consequence of suspension of the Work, if any, as herein authorized by the County.

(c) Where provisions in the Contract Documents relating to any unit price for a Contract Item require that the said unit price cover, and be considered, compensation for certain Work or Material essential to that Contract Item, this same Work or Material shall not also be measured or paid for under any other Contract Item which may appear elsewhere in the Contract Documents.

(d) The payment of any partial estimate or of any retained percentage by the County, in no way shall affect the obligation of the Contractor to Repair or renew any defective parts of the Construction and/or Work or to be responsible for all damages due to such defects.

(e) Payment to the Contractor under this section for Materials on hand in no way will be construed as acceptance by the Administration of title to the Material. Title shall remain with the Contractor until Final Acceptance for Maintenance of the Contract Work in accordance with GP-5.13.

The Contractor shall indicate its federal tax identification or social security number on the face of each invoice billed to the County.

(f) If the Contract is in excess of twenty-five thousand dollars (\$25,000), the Contractor and any Subcontractor with a lower tier Subcontract, in accepting each Contract payment from the County is making a Certification and representing and warranting to the County, prior to receiving a progress or final payment under this Contract, that the Contractor or Subcontractor has made payment from proceeds of prior payments, and that the Contractor or Subcontractor will make timely payments, from the proceeds of the progress or final payment then due it, to its Subcontractors, materialmen, and suppliers in accordance with Contractor or Subcontractor contractual arrangements with them and pursuant to State Finance and Procurement Article of the Maryland Annotated Code, as amended. This Certification may be required by the Engineer even if the Contract is for twenty-five thousand dollars (\$25,000) or less.

If the Contract is in excess of twenty-five thousand dollars (\$25,000), the Contractor further represents and warrants that it shall also obtain from each Subcontractor a Certification that payment from proceeds of prior payments have been made to any lower tier Subcontractors and that timely payments will be made to the lower tier Subcontractors and suppliers in conformance with contractual arrangements with those lower tier Persons. This Certification is not required from Subcontractors who have no lower tier Subcontracts. These Certifications may be required by the Engineer for contract of twenty-five thousand dollars (\$25,000) or less.

(g) For all Contract Items of Work, other than those to be paid by lump sum, after Final Acceptance for Maintenance of the Work and before final payment is made, the Engineer will make final measurements to determine the quantities of various Contract Items of Work performed as the basis for final settlement. The Contractor in case of unit price Contract Items will be paid for the actual amount of Work performed and for the actual amount of Materials in place, in conformance with the Contract Documents as shown by the final measurements made by the Engineer. All Work completed under the Contract will be measured by the Engineer in conformance with the standards of weights and measures recognized by the NBS and NIST.

The term lump sum when used as a Contact Item will mean complete payment for the unit of Work described and will be construed to include all necessary fittings and accessories for that Contract Item of Work.

(1) All longitudinal measurements for area will be made along the actual surface and not horizontally, and no deductions will be made for individual fixtures in the pavement having an area of nine (9) square feet or less. For all transverse measurements for area of Base Course and pavements, the dimensions to be used in calculating the pay area will be the neat dimensions shown on the Plans or as ordered in writing by the Engineer.

(2) Structure measurements will conform to the neat lines shown on the Plans or as ordered in writing by the Engineer, unless otherwise provided for elsewhere in the Contract Documents.

(3) Volumes of excavation, tamped fill and borrow pits will be calculated per cubic yard from the cross section and the use of average end area formulas. Volumes of other Work including, but not limited to, masonry and removal of masonry will be calculated by using arithmetical formulas. Where the volume is bounded by varying dimensions and there are no simple volumetric formulas applicable, frequent cross sections will be taken and the cubic yard volume computed from average end area formulas.

(4) Cement will be measured by weight.

(5) All items which are measured by the linear foot, including, but not limited to, pipe culverts, traffic barriers, underdrains, will be measured parallel to the base or foundation upon which such Structures are placed unless otherwise specified in the Contract Documents.

(6) The term gauge when used in connection with the measurement of uncoated steel sheet and light plates shall mean the USSG, except that when reference is made to the measurements of galvanized or aluminum sheets used in the manufacture of corrugated metal pipe, metal plate pipe culverts and arches, and metal cribbing, the term gauge shall mean that specified in M 36, M 167, M 196 or M 197.

(7) When the term gauge refers to the measurement of wire, it shall mean the Washburn & Moen wire gauge as referenced in the New Departure Handbook. A tolerance of plus or minus 0.003 inch shall apply.

(8) The term ton shall mean the short ton consisting of two thousand (2,000) pounds avoirdupois. All Materials which are specified for measurement by the ton shall be weighed on accurate, approved scales conforming to the requirements of the NBS Handbook 44. A digital recorder and printout shall be required on all truck scales. The digital recorder shall produce a printed record of the gross, tare, net weights, the time, date, truck identification and Contract Number. Provisions shall be made so that the scales may not be manually manipulated during the printing process. The system shall be interlocked to allow printing only when the scale has come to rest.

(9) Except for computer operated scales, all weights shall be certified by a bonded weigh Person supplied by the Contractor, producer or supplier. The security bond shall be one hundred thousand dollars (\$100,000.00).

(10) If the Material is shipped by rail, the car weight may be accepted but the payment will be limited to the actual weight of Material. Car weights will not be acceptable for Material to be passed through mixing plants.

(11) All Materials for which measurements are obtained by the cubic yard shall be hauled in approved vehicles and measured at the point of delivery. No allowance will be made for the settlement of Material in transit. Approved vehicles for this purpose shall be of any size or type acceptable to the Engineer, provided that the body is of such shape that the actual contents may be readily and accurately determined. Unless all approved vehicles are of uniform capacity, each approved vehicle must bear a plainly legible identification mark indicating the specific approved capacity. All vehicles shall be loaded to at least their water level capacity, and all loads shall be leveled when the vehicles arrive at the point of delivery.

(12) When requested by the Contractor and approved by the Engineer in writing, Material specified to be measured by the cubic yard may be weighed, and such weights will be converted to cubic yards for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by a qualified laboratory and shall be agreed to by the Contractor before such method of measurement of pay quantities will be approved by the Engineer.

(13) Liquid asphalt Material delivered for the project will be measured by volume in each railroad tank car, tank truck, distributor tank or drums in which it is delivered. The measurements will be taken when the asphalt Material is of a uniform temperature and free from air bubbles, and the temperature of the Material will be recorded at that time by the Contractor.

The volumetric measurement of the asphalt material will be based upon a temperature of sixty degrees Fahrenheit (60° F). Only the quantity of asphalt Material actually placed in the Work and accepted will be considered in determining the amount due the Contractor.

Reference is hereby made to D 1250, Petroleum Measurement Tables.

(14) Timber will be measured by the thousand feet board measure (MBM) actually incorporated in the structure. Measurement will be based on nominal widths and thicknesses and the extreme length of each piece.

(15) Rental of Equipment will be measured in hours of actual Work time by the Contractor, moving-in and moving-out costs, if any, and necessary traveling time of the Equipment within the limits of the Contract, except when special conditions make some other method of measurement desirable as determined by the Engineer.

(h) Payment will not be allowed for stored Materials except in specific instances approved in writing by the Engineer involving specially manufactured Contract Items or Contract Items

requiring a long lead time for delivery and as further described in GP-9.01(i), (j) and (k). No payment for stored Material will be made if it is anticipated that the Material will be incorporated into the Work within thirty (30) Days of the delivery of said Material to the Contractor or Work site.

(i) When the Contractor requests payment allowance for stored Materials and the Engineer gives written approval of those Materials stored, the following terms and conditions shall apply:

(1) For Superstructure members delivered and stored on the Work site, an allowance of one hundred percent (100%) of the Material cost plus freight charges as invoiced may be made provided the cost does not exceed ninety percent (90%) of the Contract price of the applicable Contract Item. The allowance will be based upon validated invoices or bills for Material including freight charges, and a copy thereof shall be made a part of the documented records for the Contract.

(2) For reinforcement steel, piling, pipe, traffic barrier, signs and sign assemblies, and other nonperishable Material in storage on the Contract, but excluding aggregates, cement, seed, plants, fertilizer or other perishable Contract Items, an allowance of one hundred percent (100%) of the invoiced cost of the Material plus freight charges to the Contractor may be made provided the cost does not exceed ninety percent (90%) of the Contract price of the applicable Contract Item. Such Material shall be delivered and stockpiled at the Contract Work site, and shall be tested by the Administration and found to conform with the Contract Documents or have been accepted under a County-approved Certification program prior to the allowance.

(3) No payment allowance will be made for fuels, form lumber, falsework, temporary Structures or other Materials of any kind which will not become an integral part of the finished Work.

(4) Only end product manufactured Material or fully fabricated products that are awaiting installation or incorporation into the finished Work are eligible for prepayment. Components, elements, or ingredients of a finished product are not eligible for prepayment or payment allowance.

(5) Stored Material for which a payment allowance is requested shall be stored in an approved manner in areas within the County where damage is not likely to occur. If any of the stored Materials are lost or become damaged in any manner, the Contractor shall be responsible for Repairing or replacing the damaged Materials. The value of the lost or damaged Material will be deducted from the Contractor's subsequent estimates until replacement has been accomplished. The request for payments allowances for any Materials stored on private property within the County shall be accompanied by a release from the applicable owner and/or tenant of such property agreeing to permit the removal of the Materials from the property without cost to the County.

When it is considered impractical to store Materials on the Work site, the Engineer may approve storage areas in the vicinity of the Work site which will be considered as the Work site for purposes of those stored Materials.

When storage of the Materials within the County is not practical, written approval shall be obtained from the Engineer for storage elsewhere. Storage of Materials outside the County will be subject to the conditions set forth in this GP-9.01 and limited to Materials exceeding twenty-five thousand dollars (\$25,000), which are designed and fabricated exclusively for use on the Contract.

(6) Stored Material for which payment has been made, either wholly or partially by the County, shall not be removed from the approved location or Work site until such time that it is to be incorporated into the Work, unless authorized by the Engineer in writing.

(j) The following items shall accompany any written request by the Contractor for payment allowance for stored Materials:

(1) Consent of the Contractor's Surety specifying the Material type and the Contract Item(s) in which the Material is to be used.

(2) Validated invoices with the signature of an officer of the company supplying the Material showing actual cost.

(3) A notarized statement from the Contractor attesting that the invoices as submitted from the supplier do not include charges or fees for placing, handling, erecting or any other charges or markups other than the actual Material cost, sales tax(es), if applicable, and freight charges.

(4) Bills of lading showing delivery of the Material.

(5) The request for allowances for any Materials stored on property outside the County shall be accompanied by a release from the owner or tenant of such property agreeing to permit verification by the Department's Division of Construction Contracts Administration that the Material is stored at the approved location, and to permit the removal of the Materials from the property without cost to the County.

(6) Inspection test reports, Certifications and/or a written statement from the Department's Division of Construction Contracts Administration attesting to the inspection and approval of the Material.

Upon receipt of the above by the Engineer and verification by the Department's Division of Construction Contracts Administration that the Material is stored at the approved location, the Engineer will authorize payment.

The Contractor shall pay the Material supplier the amount shown on the invoice within seven (7) Calendar Days of receipt of payment from the Administration. Failure to make invoice payments as specified will be cause for the County to deduct the monies from future estimates to the Contractor.

Copies of all pertinent data relating to any stored Materials shall be made by the Contractor and distributed to the Department's Division of Construction Contracts Administration for retention as part of the documented records for the Contract.

(k) The Engineer may withhold, or on account of subsequently discovered evidence, nullify the whole or a part of any payment for stored Materials to such extent as may be necessary to protect the County from loss on account of:

(1) Defective Work not remedied.

(2) Claims filed, or reasonable evidence indicating probable filing of claims, by parties other than the Contractor.

(3) Failure of the Contractor to make payments properly to Subcontractors or for material or labor.

(4) A reasonable doubt that Full and Final Completion of the Contract can be achieved for the balance then unpaid.

(5) Damage to another contractor.

(6) Failure of the Contractor to submit data required within the time limits stated in the Contract Documents.

Upon removal of the Engineer's hold and resolution of all related issues, payment shall be made for any amounts withheld.

GP-9.02 FORCE ACCOUNT WORK

When the Contractor is required to perform Extra Work as a result of a Change Order or Contract Modification to the Contract for which there are no applicable unit prices in the Contract, the Engineer and the Contractor shall make every effort to come to an agreed price for the performance of such Extra Work. If an agreement cannot be reached by the parties prior to the time that Extra Work must commence, the Engineer may, in writing, order the Extra Work done on a force account basis by the Contractor, to be compensated in accordance with the following:

(a) **Labor.** For all labor and for foremen in direct charge of the specific operations of the Work, the Contractor shall receive the rate of wage agreed upon in writing by the County and the Contractor in either the Contract or a Contract Modification before the Contractor begins such Extra Work for each and every hour that said labor and foremen are actually engaged in such Extra Work, to which cost shall be added an amount equal to the percentage of the sum shown below. No additional allowance will be considered for Contract Bond, insurance, taxes or other fringe benefits, except as permitted in the County's discretion in a Written Notice or a Contract Modification. The number of laborers and foremen engaged in the Extra Work will be subject to

regulation by the Engineer and shall not exceed the number the Engineer deems most practical and economical for the Extra Work. The Contractor shall submit certified payrolls in conformance with the Contract Documents and pursuant to GP-9.02(g) signed by a legally authorized officer of the Contractor. Superintendent's time will not be allowed.

Highway Contracts65%
Utility Contracts.....75%
Building Contracts65%

(b) Materials. For Materials accepted by the Engineer and used for the Extra Work, the Contractor shall receive the actual cost of such Materials delivered to the Work site. This cost includes transportation charges paid by Contractor (exclusive of machinery rentals as specified in GP-9.02(d)), to which cost shall be added an amount equal to twenty percent (20%) plus prevailing State sales tax.

To substantiate Materials and transportation cost, original receipted invoices shall be submitted to the County by the Contractor, as further specified in GP-9.02(g).

If the Materials used in the force account Extra Work are not specifically purchased for the Extra Work but are taken from the Contractor's stock, then in lieu of the original invoices, the statements shall contain or be accompanied by an affidavit and Certification from the Contractor that shall certify that the Materials were taken from the Contractor's stock, that the quantity claimed was actually used, and that the price and transportation cost of the Material as claimed represents the actual cost.

The Administration reserves the right to furnish Materials as it deems appropriate, and the Contractor shall have no claim for any costs, overhead, or profit on these Materials.

(c) Subcontractor's Works.

(1) When a Contract Item of Extra Work is performed on a force account basis by a Subcontractor who is approved for this Extra Work by the Engineer, as may be required under GP-8.01, an amount equal to ten percent (10%) of the total cost shall be added to the final payment under GP-9.04 for such force account Extra Work and such amount of compensation shall be full and final compensation to the Contractor for the administration of the Extra Work performed by the Subcontractor under the force account basis.

(2) This additional ten percent (10%) compensation to the Contractor for administration shall only be allowed if the Extra Work requires particular trades or specialty work for which the Contractor is not prequalified, and not for Extra Work assigned to a Subcontractor for the convenience of the Contractor.

(d) Equipment. For any machinery or special Equipment approved by the Engineer for use on Extra Work (expressly excepting all small tools), including fuel and lubricants, the Contractor shall receive the rental rates and operating costs agreed upon in writing by the County and the Contractor in either the Contract or a Contract Modification before such Extra Work is begun by the Contractor for the actual time such Equipment is authorized on the Extra Work.

(1) Rental rate shall be based on the weekly rate converted into hours. To compute hourly rate use forty (40) hours per week.

(2) The rental rates and operating costs, including fuel and lubricant but excluding operators, for Extra Work shall be the current rates from the "Rental Rate Blue Book for Construction Equipment," published by the Equipment Guide Book Company and/or the "Rental Rate Blue Book for Older Construction Equipment." Both rental rate and operating rate will be subject to area adjustment per the "Rental Rate Blue Book for Construction Equipment." No other allowances or additions will be paid to the Contractor by the County.

(3) In the Engineer's discretion, rental rates will be applied to both idle time and actual operating time authorized by the Engineer, and operating rates will be applied to operating time only. Or, if the Engineer determines it to be in the County's best interest, standby rates shall apply when a piece of Equipment is required to remain on the Work site on standby status as authorized by the Engineer. For purposes of standby rates, when a unit of Equipment works for a portion of a day and is on standby for a portion, the total time allowed for rental rates shall not exceed eight (8) hours for that day and will be allowed for Working Days only. Standby rates shall be half of the normal hourly base rental rates without the operating expenses.

(4) Transportation costs of the Equipment directly attributable to force account Extra Work will be allowed. When it is necessary to obtain Equipment exclusively for force account Extra Work from sources beyond the Contract limits, the cost of transferring the Equipment to the Work site and return, including the use of any hauling unit, will only be allowed as an additional expense if the Contractor receives prior written approval from the Engineer.

(c) Superintendence/Use of Small Tools. No additional allowance shall be made for general superintendence, the use of small tools, or other costs for which no specific allowance is herein provided. For the purpose of definition under this GP-9.02, Equipment with a new cost of one thousand dollars (\$1,000) or less will be considered small tools.

(f) Compensation. The compensation provided for in this GP-9.02 shall be received by the Contractor as full and final payment, including, but not limited to, overhead and profit, for Extra Work, Change Order Work, and/or Contract Modification Work done on a force account basis. The Contractor may request partial payment for force account Extra Work prior to submitting final documentation under GP-9.02(g). Partial payment will be limited to fifty percent (50%) of the amount for the Extra Work fully and finally accomplished until all documentation has been received and approved by the County. The final force account payment request from the Contractor for any Extra Work will be subject to audit as specified in GP-7.36 "Retention of Records".

At the end of each applicable Day, the Contractor and the Engineer shall compare records of the cost of all Extra Work as ordered on a force account basis and mutually agree on a final record of the costs of Extra Work for that Day. This record must be signed by both the Engineer and the Contractor on a daily basis. Daily force account records for Extra Work performed and signed by a Subcontractor, must also be signed by the Contractor and the Engineer. Each party shall

retain a copy of these records as substantiation of all labor, Equipment, and Materials used by the Contractor and any of its Subcontractors in the performance of the force account Extra Work.

(g) Statements. No payment will be made by the County for Extra Work performed on a force account basis until the Contractor furnishes the Engineer with duplicate itemized statements of the cost of such force account Extra Work detailed as to the following:

(1) Name, classification, date, daily hours, total hours, rate, and extension for such laborer, or foreman.

(2) Designation, dates, daily hours, total hours, rental rate, and extension for each unit of machinery and Equipment.

(3) Quantities of Materials, prices and extensions.

(4) Transportation of Materials.

(5) Payments of items under this GP-9.02(g)(1) shall be accomplished by copies of certified payrolls. Under this GP-9.02(g)(2), original receipted invoices for rentals must be provided. GP-9.02(g)(3) and GP-9.02(g)(4) shall be accompanied by original receipted invoices for Materials used and related transportation charges. Any request for payment for force account Extra Work shall be submitted by the Contractor in strict compliance with this Section GP-9.02.

GP-9.03 PROGRESS PAYMENTS

(a) Current Estimates.

(1) **Lump Sum Contracts.** If requested by the Administration, the Contractor shall furnish an acceptable breakdown of the lump sum Contract price showing the amount included therein for each Pay Item of the Work. Said breakdown shall be in such detail so as to provide a basis for estimating monthly progress payments in connection with the Contract.

(2) **Monthly Estimates.** Except as otherwise stated in the Contract, each month the Administration will pay the Contractor for the Contract Work satisfactorily performed during the preceding calendar month, including Extra Work less five percent (5%). The five percent (5%) of the total Contract value retained by the Administration will not be released until final payment pursuant to GP-9.04 (unless partially released in a semi-final payment in the County's sole discretion). Current estimates will be based upon the Engineer's estimate of quantity (including Materials and/or Equipment complete in place) satisfactorily performed. In the instance of lump sum Contract Items, the Engineer's estimate shall be the proper fraction of the lump sum Contract Items satisfactorily performed during the preceding month. All quantities, estimates and fractions will be reasonably accurate approximations and are subject to correction (a) in subsequent current estimates, (b) in any semi-final estimate and, (c) in final payment. Any and/or all partial payments or monthly payments may be withheld in the event current requirements of the Contract Documents have not been complied with by the Contractor. Should

either the Engineer or the Contractor be of the opinion that any estimates, quantities and/or fractions (either as to an individual current estimate or accumulations thereof) do not represent a reasonably accurate approximation of actual Work satisfactorily performed, then details questioned shall be reviewed by the Engineer and then any corrections adjusted by the Engineer for in the next current estimate.

Deferred Monthly Payment. Should the amount(s) due the Contractor for any one month be less than five hundred dollars (\$500.00), payment will be deferred until such time as the amount(s) due the Contractor under subsequent estimates, combined with that month for which the amount(s) due was less than five hundred dollars (\$500.00), shall equal five hundred dollars (\$500.00) or more.

(b) Semi-Final Estimate Payments and Partial Semi-Final Estimate Payments.

(1) Semi-Final Estimate Payments. Upon Final Acceptance for Maintenance by the Administration of the Contract Work, pursuant to GP-5.13(b), the Administration, at the Contractor's request and with consent of the Contractor's Surety, will pay the Contractor, within forty-five (45) Calendar Days of said request, what is hereby known as a semi-final estimate payment. Such a semi-final estimate payment will be based upon (a) quantities the Administration has computed and set up as proposed final quantities and (b) a reasonably accurate estimate for those quantities for which the Administration has not yet completed computations. The quantities which the Administration sets forth as proposed final quantities shall be so designated. To arrive at the amount of semi-final estimate payment there shall be deducted from the apparent estimated value of the Contract (a) total of all amounts previously paid to the Contractor as current estimates and (b) sums deemed chargeable against the Contractor properly deductible, including liquidated damages, and as a retainage, an amount equal to two percent (2%) of the total Contract value or two thousand dollars (\$2,000), whichever is greater.

(2) Partial Semi-Final Estimate Payments. In cases where there has been Partial Acceptance for Maintenance for a majority of the Contract Work as determined in the County's sole discretion and there are remaining only inconsequential or minor Contract Items such as painting, seeding, mulching, or planting to be completed and such Contract Items cannot be completed for an extended period of time because of seasonal or weather conditions, the Administration, within forty-five (45) Days from the most recent Partial Acceptance for Maintenance, upon request of the Contractor and with consent of Surety, shall pay to the Contractor, what is hereby known as a partial semi-final estimate payment. Such a partial semi-final estimate payment will be based upon (a) quantities the Administration has computed and set up as proposed final quantities and (b) a reasonably accurate estimate for those quantities for which the Administration has not yet completed computations. The quantities which the Administration sets forth as proposed final quantities shall be so designated. To arrive at the amount of the partial semi-final estimate payment, there shall be deducted from the apparent estimated value of the Contract (a) total of all amounts previously paid to the Contractor as current estimates, and (b) sums deemed chargeable against the Contractor properly deductible, including liquidated damages, and as a retainage, a sum equal to two percent (2%) of the total value of the Contractor or two thousand dollars (\$2,000), whichever is greater.

GP-9.04 FINAL ACCEPTANCE AND FINAL PAYMENT

(a) When the Contractor believes it has completed a Contract, and there has been a Final Acceptance for Maintenance in accordance with the provisions of GP-5.13(b), the Engineer will promptly proceed:

- (1) To make any necessary final surveys;
- (2) To complete any necessary computation of quantities; and

(3) To submit to the Contractor, within sixty (60) Calendar Days after Final Acceptance for Maintenance of the Work by the Engineer, for the Contractor's consideration, a written tabulation of the proposed final quantities. This written tabulation shall be accompanied by a written statement setting forth, as applicable: (a) the Additional Work performed under Change Orders and/or Contract Modifications; (b) the County-authorized extension of Contract Time; (c) the number of Days which have been charged against the Contractor as having been used to complete the Contract; and/or (d) any deductions, charges or liquidated damages which have been made or imposed against the Contractor by the County.

(b) The Contractor shall then have a period of twenty (20) Calendar Days, dating from the date upon which it received the written tabulation from the Engineer under Section GP-9.04(a), in which:

(1) To decide whether or not the Contractor will accept final payment based upon the Engineer's written tabulation; and

(2) To notify the Engineer, in writing, of the Contractor's decision. The Contractor may request an additional period up to ten (10) Calendar Days in which to notify the Engineer of its decision. In the event the Contractor notifies the Engineer that it protests final payment based on the Engineer's written tabulation, that notification shall outline the reason(s) for said protest.

(c) Upon receipt of a notification of acceptance as provided for in GP-9.04(b)(1) above (or in the event of no response), the County shall prepare the final estimate and final payment forms and submit the final payment check to the Contractor. Such action by the County shall be deemed to constitute final payment for all Work under the Contract.

(d) If, under the provisions of GP-9.04(b)(2) above, the Contractor notifies the Engineer of its protest and nonacceptance of the Engineer's written tabulation, the Engineer shall pay the Contractor a semi-final estimate, or an additional semi-final estimate in the event a semi-final estimate has already been paid, based upon the Engineer's written tabulation, with deductions for all prior payments. A retainage equal to one and one-half percent (1.5%) of the total value of the Contract shall be withheld by the Engineer. The acceptance of such semi-final estimate, or additional semi-final estimate, shall not be considered as a waiver on the part of the Contractor of its right to pursue its protest and press for Full and Final Completion and final payment.

(e) In the event the Contractor does not accept the Engineer's tabulation from GP-9.04(a) above and/or has outstanding a claim filed in accordance with GP-5.14, the Engineer and the Contractor shall confer at mutually convenient times and endeavor to reconcile all points of disagreement expeditiously. If such reconciliation is accomplished, the Engineer will promptly proceed with final payment on the reconciled basis and in accordance with the provisions of GP-9.04(c) above. If reconciliation is not accomplished within thirty (30) Days, the decision of the Engineer shall be submitted to the Director with a copy to the County Office of Law, Attention: County Attorney, as a dispute in accordance with GP-5.15 "Disputes". The Contractor's failure to timely comply with the provisions of GP-5.15 shall constitute a waiver by the Contractor of its right under GP-5.15, and final payment may be made by the County based on the Engineer's recommendation.

(f) All prior partial estimates and payments shall be subject to correction by the Engineer at the time of final payment and if the Contractor has been previously overpaid, as determined by the Engineer, the amount of such overpayment shall be set forth in the final payment forms and the Contractor hereby agrees that it will reimburse the Administration for such overpayment within six (6) months of receipt of such notice by the Engineer, and the Contractor's Surety will not be granted release from obligations under the terms of the Contract until reimbursement has been made in full by the Contractor. It is further agreed that the County can withhold any overpayment from any other accounts due and payable to the Contractor under any County contract.

(g) Payment for the full apparent value of the Contract thus determined shall become due and payable to the Contractor within ninety (90) Days after Full and Final Completion of the Contract, as provided in GP-8.11. Contractor's acceptance of final payment shall be considered a general release of any, all, and every claim and/or dispute against the County arising out of, or in any way connected with, this Contract and the Work.

(h) Neither Full and Final Completion nor final payment nor any provision in the Contract shall relieve the Contractor of responsibility for faulty Materials and workmanship. Unless otherwise specified, the Contractor shall remedy any defects and pay for any damage to other Work resulting therefrom that appears within the applicable warranty period. The County shall give notice of observed defects to the Contractor with reasonable promptness.

GP-9.05 LATE PAYMENTS – Reserved.

GP-9.06 INTEREST

Notwithstanding any other provision in the Contract, the Contractor hereby waives the right to predecisional interest. For purposes of this GP-9.06 and the Contract, "predecisional" means a decision by any Engineer or the County Administrative Officer, or his designee, or a decision by any Person including but not limited to an administrative hearing officer. The Contractor shall only be entitled to postdecisional interest, and for purposes of this GP-9.06 and the Contract,

Revised
October 11, 2013

“postdecisional” interest shall only begin to accrue, after the exhaustion of all administrative remedies and the rendering of a judgment by a court of competent jurisdiction.

GP-SECTION 10 PRIVATE CONTRACTS

GP-10.01 PRIVATE CONTRACTS

(a) A Private Contract is used in land development projects when, with the permission of the Director of the County Department of Permits, Approvals and Inspections, the Construction Contract is let by a developer and processed through the County. The applicable developer shall obtain the Bid privately and the cost estimates will be processed using County contract forms provided by the Department’s Division of Construction Contracts Administration or as approved by County for use with a UA and/or RA. No public funds may be used in a Private Contract. UA and RA are not governed by those provisions of these Standard Specifications which involve payment by developers to contractors.

(b) The following sections, as amended by the County, apply to Private Contracts:

- 107.03.02 (4)
- 204.03.07 B
- 1001.03.01(b)(2)
- 501.03.14
- 501.04.05
- 504.03.03 B
- 504.04

For Private Contracts, all references to the County (including Administration) in this GP-10.01 shall be construed to mean the developer as defined in the governing UA and/or RA in the Standard Specifications and in all references to making payments under the contract.

(c) IN ALL OTHER PORTIONS OF THESE STANDARD SPECIFICATIONS, REFERENCES TO THE COUNTY SHALL REMAIN UNCHANGED, WHETHER THE CONTRACT IS PUBLIC OR PRIVATE.

(d) Private Contracts may include fixed price Contingent Items to provide for certain contingencies encountered during Highway and utility Construction. If included in the Bid, unit prices shall be those established by the County.

- (1) Fixed Price Highway Contingent Items - Private Contract Only
See Section 109 of Category 100 “Preliminary”.
- (2) Fixed Price Utility Contingent Items - Private Contract Only
See Section 109 of Category 100 “Preliminary”.

- (3) Award and Execution of Contract - Private Contract Only [GP-3.03 Performance Bond and Payment Bond Requirements].

In GP-3.03(b) delete the words “twenty-five thousand dollars (\$25,000)” and substitute “two thousand dollars (\$2,000)”.

- (4) Unauthorized Work - Private Contracts Only [GP-4.08 Unauthorized Work].

Add the following new paragraph:

Any Work performed in excess of one hundred ten (110%) percent of the Private Contract Bid, or one hundred ten (110%) percent of the Private Contract Bid plus any Contract Modifications, between the developer and the Contractor, shall be considered unauthorized Work and shall not be paid for. The Contractor is advised to bring to the attention of the developer and the County, in writing, any impending overrun of the one hundred ten (110%) percent upset limitation at least two (2) weeks before having to stop work due to this limitation.

- (5) Interest - Private Contracts Only [GP-9.06 Interest].

Payment by the developer under GP-9.03(b)(1) “Semi- Final Estimate Payments” and GP-9.04 “Final Acceptance and Final Payment”, shall be due on receipt of the monthly estimates, semi-final estimates, and final estimates prepared by the Department and submitted to both parties in the amount shown as payable on this estimate. Any monies not paid within fifteen (15) Days of the date of such estimates shall bear interest at the rate of eighteen percent (18%) per annum. Interest shall be computed and invoiced by the Contractor and shall not be subject to a review or approval by the Department. However, the Department will not consider the developer’s Public Works Agreement obligations complete as long as the Contractor reports an outstanding indebtedness under the Private Contract.

- (6) Interim Acceptance - Development Bonds - Private Contract Only GP-9.03(b).

Add the following new paragraph:

When the Contractor postpones Road surfacing (during the course of completing a two-phased, 4-inch, paving section) its retainage shall be 2.0 percent after the bituminous Base Course has been accepted. Following a satisfactory re-inspection one (1) year after that acceptance, the retainage may be reduced to 0.0 percent.

GP 10.02 UTILITY/ROAD AGREEMENTS

These UA and/or RA are for projects wherein the applicant (developer, Persons, or property owners) constructs and installs improvements to utilities or Roads all at no cost to the County. The County Department of Permits, Approvals and Inspections (PAI), or any successor County department, in accordance with the applicable provisions of the County Code, as amended from

time to time, and the PAI Construction Policy Manual, approves the cost estimates and Construction Drawings and collects, except for County departments and agencies, the security and all fees. An applicant must provide to PAI, in writing, the name, address and phone number of an authorized Work site representative. The applicant must use a County prequalified Contractor who provides a certificate of insurance and performs the work in accordance with the Department's Standard Specifications and Standard Details in effect on the date of the Notice to Proceed. It is the applicant's responsibility to schedule an on-site pre-Construction meeting with the Department, the Department of Environmental Protection and Sustainability, or any successor County department, and the County prequalified Contractor. No Construction is to be performed prior to receiving a written Notice to Proceed from the Department.

**TC - SECTION 1
REFERENCES AND DEFINITIONS**

TC-1.03 **METRIC SYSTEM** – Reserved.

TC-1.04 **LANGUAGE** – Reserved.

**TC - SECTION 2
BIDDING REQUIREMENTS AND CONDITIONS**

TC-2.01 **PROJECT CLASSIFICATION.**

The Administration will estimate the cost of the Contract and classify it within one cost group and letter designation as follows:

COST GROUP ESTIMATE	COST GROUP LETTER CLASS
Up to \$ 100 000	A
\$ 100 001 to \$ 500 000	B
\$ 500 001 to \$ 1 000 000	C
\$ 1 000 001 to \$ 2 500 000	D
\$ 2 500 001 to \$ 5 000 000	E
\$ 5 000 001 to \$ 10 000 000	F
\$ 10 000 001 to \$ 15 000 000	G
\$ 15 000 001 to \$ 30 000 000	H
\$ 30 000 001 to \$ 50 000 000	I
\$ 50 000 001 to \$ 75 000 000	J
\$ 75 000 001 to \$ 100 000 000	K
Over \$ 100 000 000	L

The letter designation will be published as part of the Bid Package.

TC-2.02 **IN-STATE PREFERENCE** – Reserved.

TC-2.03 **VALUE ENGINEERING CHANGE PROPOSALS.**

The Contractor may submit to the Engineer, in writing, value engineering change proposals (VECP) for modifying the Contract Documents for the purpose of reducing the total cost of Construction without reducing design capacity or quality of the finished product. The Engineer will then forward the VECP to the Department’s Chief of the Bureau of Engineering and

Construction with recommended action. The decision to accept or deny the VECP will be made by the Department's Chief of the Bureau of Engineering and Construction. The Department's Chief of the Bureau of Engineering and Construction will be the sole and final judge of the acceptability of a VECP. The County will not consider appeals once this final decision is made. If a VECP is accepted by the County, net savings resulting from that VECP will be equally divided by the County and the Contractor. The Contractor may elect to pursue one of the following options when submitting a VECP:

Option 1 - Submit revised Plans, Contract Documents and estimate of savings to reflect the VECP; or

Option 2 - Submit a written concept of the VECP for tentative approval and if accepted, submit the detailed Plans, Contract Documents, and estimate for final approval at a later date.

Each VECP shall result in a net savings to the Contract cost without impairing essential functions and characteristics of the Contract Items or of any other part of the Work, including but not limited to service life, reliability, economy of operation, ease of maintenance, desired aesthetics and safety.

As a minimum, the Contractor shall submit the following information before final approval of a VECP may be given:

- (a) A statement that the revised Plans, Contract Documents, and estimate of savings are submitted as a VECP.
- (b) A statement concerning the basis for the VECP and benefits to the County together with an itemization of the Contract Items and requirements affected by the VECP.
- (c) A statement describing in detail any and all potential impacts to public convenience and/or safety.
- (d) A detailed estimate of the cost under the existing Contract and under the VECP.
- (e) Plans, Contract Documents and recommendations as to how the VECP changes shall be accomplished.
- (f) A statement as to the time by which an Extra Work Order adopting the VECP must be issued so as to obtain the maximum cost effectiveness. Typically, the County will require at least four (4) weeks to review and approve a VECP.
- (g) A revised Baseline schedule showing the impact of the VECP, and including in that revised Baseline schedule a four (4) week allowance for the County's review of such VECP.
- (h) The Contractor's engineering cost for the VECP.

The County will process the VECP in the same manner as prescribed for any other Contract Modification which would necessitate issuance of an Extra Work Order. The County may accept in whole or in part any VECP by issuing an Extra Work Order which will identify the VECP on which it is based. The County will not be liable to the Contractor for failure to accept or act upon any VECP submitted pursuant to these requirements nor for any delays to the Work attributable to any VECP. Until a VECP is effected by a Contract Modification, the Contractor shall remain obligated to the terms and conditions of the existing Contract. If an executed Extra Work Order has not been issued by the date upon which the Contractor's VECP specifies that a decision thereon should be made, or any other date as the Contractor may subsequently have specified in writing, the VECP shall be deemed rejected. The Extra Work Order effecting the necessary Contract Modification will establish the net savings agreed upon, will provide for adjustment in the Contract prices and/or Contract Time and will indicate the net savings to be equally divided between the Contractor and the County. The Contractor's costs for preparation of the VECP and the County's costs to review and administer the VECP will be deducted from the gross savings. The County reserves the right to include in the Contract any conditions it deems appropriate for consideration, approval and implementation of the VECP. The Contractor's fifty (50%) percent share of the net savings shall constitute full compensation for effecting all changes pursuant to the Contract. Acceptance of the VECP and performance of the Work thereunder will not change the Contract Time, unless specifically provided for in the Contract Modification authorizing the VECP.

The County expressly reserves the right to adopt a VECP for general use in contracts administered by the County when it determines that the VECP is suitable for application to other contracts. VECPs identical or similar to previously submitted VECPs will be eligible for consideration and compensation under these provisions if such VECPs were not previously adopted for general application to other contracts administered by the County. When a VECP is adopted for general use, compensation pursuant to these requirements will be applied only to those contracts Awarded and for which the subject VECP has been submitted prior to the date of adoption of the specific VECP.

Proposed changes in the basic design of a Bridge or pavement type, or requiring modification to the Right-of-Way limits, will not normally be considered as an acceptable VECP. Quantity decreases or elimination of any Contract Items as a result of changing field conditions, errors, etc. will not be considered as an acceptable VECP. If a VECP is based upon or similar to a change in the Plans, Contract Documents or Special Provisions adopted by the County prior to submission of the VECP, the County will not accept the VECP.

These requirements apply to all VECPs initiated and developed by the Contractor and which are identified as such by the Contractor at the time of its submission to the Engineer; however, nothing herein shall be construed as requiring the Engineer to consider or approve a VECP submitted by the Contractor.

Subject to the provisions contained herein, the County or any other public agency shall have the right to use all or part of any accepted VECP on other contracts without obligation or compensation of any kind to the Contractor.

In the event a VECP is accepted by the County, the provisions of the Contract Documents which pertain to adjustment of Contract unit prices due to alterations of Contract quantities will not apply to the items adjusted or deleted as a result of effecting the VECP by Contract Modification.

TC-2.04 OWNER/OPERATOR.

For the purpose of labor compliance, the term "Owner/Operator" shall be defined as being the individual who owns and operates his/her own vehicle.

The prevailing wage rates shall not apply to a "Owner/Operator". However, they shall appear on the payroll of the Contractor or Subcontractor with the notation "Owner/Operator".

Employees of an "Owner/Operator" shall be subject to prevailing wage rates and shall appear on a certified payroll.

TC-2.05 DEBARMENT/SUSPENSION.

Pursuant to the emergency regulations which were approved by the AELR Committee of the State General Assembly on July 27, 1982, and which went into effect on July 28, 1982, the State Department of Transportation, State Highway Administration, pursuant to applicable laws and regulation, established a list of "Debarred or Suspended Contractors."

The current list of "Debarred or Suspended Contractors or Suppliers" is available at the Baltimore County Department of Public Works, 111 West Chesapeake Avenue, Room 300, Towson, Maryland 21204, for inspection by all interested parties.

**TC - SECTION 3
SCOPE OF WORK**

TC-3.01 GOVERNING ORDER OF CONTRACT – Reserved.

TC-3.02 CONSTRUCTION DOCUMENTS TO SUCCESSFUL BIDDER – Reserved.

TC-3.03 CONTINGENT ITEMS – Reserved.

TC-3.04 WARRANTY OF CONSTRUCTION – Reserved.

TC-3.05 RIGHTS IN AND USE OF MATERIALS FOUND ON THE WORK SITE.

The Contractor may use on the Contract any excavated stone, gravel, sand or other Material found on the Work site that conforms to the requirements of the Contract Documents and are approved by the Engineer.

When these Materials are used for select, capping, modified, or common borrow and conform to the pertinent Contract provisions and Contract Documents, payment will only be made at the Contract unit price for the class of excavation from which the Materials are obtained.

In the event these Materials are processed through a crushing, screening, washing or sorting plant for use as another Pay Item, the Contractor will be paid both for the excavation of such Materials at the Contract unit price and at the Contract unit price for which the Material is used. The Contractor shall replace at its own expense with other acceptable Material all of the portion of the excavated Material removed and used which was needed for use in the embankments, backfills, approaches or otherwise.

If, however, these Materials are not processed and paid for as described in the preceding paragraph, and their use creates a shortage of embankment or other Material, the Contractor shall provide acceptable replacement Material for all Material needed for embankment, backfill, approaches or otherwise.

The replacement Material shall be paid for at the Contract unit price Bid for the Contract Item that the Class I Excavation is used for, or the Contract unit price Bid for Class I Excavation, whichever is the lowest Contract unit price Bid.

The Contractor shall not excavate nor remove any Material which is not within the limits of excavation, as indicated by the Slope and grade lines, without written authorization from the Engineer.

TC-3.06 SAFETY HAZARDS IN CONFINED SPACES – Reserved.

TC - SECTION 4 CONTROL OF WORK

TC-4.01 WORKING DRAWINGS.

(a) **General.** The Plans will be supplemented by Working Drawings as necessary to adequately control the Work. All alterations affecting the requirements and information given on the Working Drawings shall be authorized in writing to the Engineer. When at any time reference is made to the Working Drawings, the interpretation shall be the Working Drawings as affected by all authorized alterations then in effect.

Working Drawings will show details of all Structures, lines, grades, typical cross section of Roadway, general cross sections, location and designation of all units and elements.

Revised
October 11, 2013

The Contractor shall provide, at the Contractor's expense, all required Working Drawings and shall have them adequately checked, after which they shall be submitted to the Engineer for review. The Engineer may reject Working Drawings and return them for revisions, in which case the Contractor shall submit revised Working Drawings as required. No Contract Items involving the Working Drawings shall be incorporated into the Work until those Working Drawings have been accepted for use by the Engineer; however, acceptance shall not relieve the Contractor of any responsibility in connection therewith. All Working Drawings shall be furnished in duplicate for preliminary examination for Contracts prepared by the Administration and in triplicate for Contracts prepared by consultant engineering firms for the Administration. After Working Drawings have been accepted for use by the Engineer, the Contractor shall furnish additional copies as requested.

All Working Drawings shall be on sheets measuring twenty-two inches (22") by thirty-six inches (36") or as required by the Engineer and shall have a standard title block at the lower right corner approximately four inches (4") by eight inches (8") (two inches (2") for the revision column on the left side and the remaining six inches (6") for the title) indicating the following information in the order named:

- Name of Contractor (and Subcontractor, if applicable)
- Address of Contractor (and Subcontractor, if applicable)
- Sheet Title (Reinforcement Details, etc.)
- Name of Structure Crossing
- For (Baltimore County)
- By (Indicate name of Contractor's official or engineer, or other parties authorized to sign official documents.)

All Working Drawings shall list all County Contract Numbers, complete federal aid number, if any, and the date the Working Drawing was completed. The left portion of the title block shall be headed "Revisions" and the space used as needed.

Working Drawings for standard scuppers are not required. A sketch or statement specifying the type and number of standard scuppers required and the length of the downspout is acceptable.

(b) Working Drawings for Falsework Systems. Falsework systems Plans (design and Construction) shall be the responsibility of the Contractor, including submitting and obtaining written acceptance of the design and Plans by the Engineer before erection. The Contractor shall utilize a professional engineer (P.E.) registered in the State who has a minimum of five (5) years experience in falsework design for Bridge Construction and Repair. The falsework design calculations and Plans shall be signed by the P.E. and bear the seal of the P.E. The submittal of the design and falsework Plans shall include the P.E.'s resume showing evidence of the required experience.

The P.E.'s Plans and design calculations shall evaluate and qualify all products and components including manufactured products and proprietary items for their intended service. Acceptance by the Engineer of falsework systems shall not in any way relieve the Contractor of the responsibility for the safety and adequacy of the design and Construction for the falsework

systems and operations, including all components. Every Structure in the Contract will require a separate falsework design analysis, separate Plans, and separate design submittals as set forth above. This applies even though Structures may appear to be identical.

Each falsework system shall be designed to have the capacity to support all vertical and horizontal loading with enough redundancy to prevent progressive failure. Vertical loading, differential settlement forces, live load where applicable and all horizontal lateral and longitudinal forces shall be taken into account. Unbalanced temporary loading caused by placement sequence shall also be provided for in the design. Adequate diagonal bracing in all planes shall be employed.

All falsework systems designs and Plans shall provide for adequate foundations with bearings below the frost line or on rock or on piling and for possible settlement. If additional subsurface data is necessary, it shall be obtained and analyzed by the Contractor for proper design of the Plans and performance of Construction.

Falsework designs and Plans shall include protection against impact from uncontrolled Highway vehicles, accidental collision of a crane boom or other Construction Equipment and vehicles, traffic vibration, flood waters, high winds and any other envisioned contingent situations.

TC-4.02 FAILURE TO ADEQUATELY MAINTAIN PROJECT – Reserved.

TC-4.03 USE PRIOR TO COMPLETION – Reserved.

TC-4.04 WORK SUSPENSION – Reserved.

TC - SECTION 5 LEGAL RELATIONS AND PROGRESS

TC-5.01 INSURANCE – Reserved.

TC-5.02 NOTICE TO PROCEED – Reserved.

TC-5.03 SUBCONTRACTORS – Reserved.

TC-5.04 CULTURAL RESOURCES – Reserved.

TC-5.05 DETERMINATION AND EXTENSION OF CONTRACT TIME – Reserved.

**TC - SECTION 6
RESTRICTIONS AND PERMITS**

TC-6.01 MOVING OF EQUIPMENT.

(a) The Contractor will not be permitted to move over or operate on any Road (except on the Road under Construction) any power shovels, rollers, concrete mixers, cranes, tractors or any other heavy Equipment of weight or dimensions in excess of State Motor Vehicle Law or Administration's regulations without first obtaining the applicable permit. In case of permits for oversize and overweight vehicle movements, attention is directed to State Motor Vehicle Laws requiring the Administration to collect a fee on every such vehicle movement using Highways of the State. The payment of and securing of such permit is required irrespective of whether the movement is in connection with a subject Contract or for other purposes.

(b) The Contractor shall adhere to all State and local laws and regulations including but not limited to all State Motor Vehicle Laws and safety regulations.

TC-6.02 RESTORATION OF SURFACES OPENED BY PERMIT.

The right to construct or reconstruct any utility in a County Highway or to grant permits for same at any time is reserved by the Administration.

Upon the presentation of a duly authorized and satisfactory permit which provides that all necessary Repair Work shall be paid for by the party to whom such permit is issued, the Contractor shall allow parties bearing such permits to make openings in a County Highway.

The Contractor shall, when ordered by the Engineer, make in an acceptable manner all necessary Repairs due to such openings, and such necessary Work will be paid for as Extra Work, as provided in these Standard Specifications, and will be subject to the same conditions as original Work performed.

TC-6.03 RAILROAD HIGHWAY GRADE CROSSINGS AND SEPARATIONS.

When the Contractor is required to haul Materials across the tracks of any railroad, or elects to do so, the Contractor shall coordinate with and make arrangements with that railroad for any new private crossings or for the use of any existing private crossing in accordance with the terms and conditions of any permit issued by the applicable railroad.

All Work to be performed by the Contractor in the Construction of railroad-Highway separation Structures on the railroad right-of-way shall be done in a manner satisfactory to the railroad company and shall be performed at such times and in such manner as not to unnecessarily interfere with the movement of trains or traffic upon the tracks of the railroad company. The Contractor shall use care and precaution in order to avoid accidents, damage, or unnecessary delay or interference with the railroad company's trains or other property. In addition to the insurance specified in GP-7.14 and when Work covered under the Contract is to be performed on

or about the rails of a railroad's tracks, the Contractor shall be required to carry Contractor and railroad public liability and property damage insurance as specified in the Contract Documents and/or required by the applicable railroad.

Prospective Bidders on Contracts crossing railroad right-of-way are advised that the railroad company will require the Contractor to obtain, pay for and have approved by the railroad, certain railroad forms of public liability and property damage insurance policies before entering upon the railroad property. Details of such policies may be set forth in the Contract Documents; but in case of omission from the Contract Documents, the Contractor shall and is required to communicate with the railroad to ascertain the type of insurance required, if any, and make provisions for same in its Bid.

Unless otherwise specified, cost for the insurance policies whether described in the Contract Documents or ascertained by the Contractor will not be paid for by the County. The cost for any and all insurance related to a railroad company will be incidental to the other Contract Items specified in the Contract Documents and be the sole responsibility of the Contractor.

All Work on portions of Structures over railroad right-of-way shall conform to all rules and regulations of the owners of the right-of-way, including, but not limited to, any applicable railroad company. The Contractor is responsible for acquiring full knowledge of these rules and regulations and complying therewith to the satisfaction of the owners of the railroad right-of-way, including, but not limited to, any applicable railroad company.

TC-6.04 BRIDGES AND OTHER WORK IN OR OVER WATERS OF THE STATE.

All Work in, on or over waters under control of the United States Department of the Army and the Environmental Protection Agency of the United States shall conform to all applicable federal permits, rules and regulations. All such rules and regulations are hereby part of and incorporated into the Contract. The Contractor is cautioned and charged with the responsibility of obtaining complete knowledge thereof and compliance therewith.

The Contractor shall also comply with the provisions of all other applicable federal, State and local laws, permits, rules and regulations, and shall be knowledgeable of any and all pertinent laws and regulations of the State Department of Natural Resources and Maryland Department of Environment. All such laws, permits, rules and regulations are also hereby part of the Contract.

TC-6.05 USE OF EXPLOSIVES.

All blasting operations, including the storage and handling of explosives and blasting agents, shall be performed in conformance with the applicable provisions of the Standard Specifications and all other pertinent federal, State, and local laws and regulations. Whenever explosives are used, they shall be of such character and in such amount as is permitted by the State and local laws and ordinances and all respective agencies having jurisdiction over them.

The Engineer will at all times have the authority to prohibit or halt the Contractor's blasting operations if it is apparent that, through the methods being employed, the required results are not

being obtained, an unstable condition exists, or the safety and convenience of the public is being jeopardized. The Contractor shall not damage any adjacent property or Structures. A pre-blasting and post-blasting survey inspection is required to be performed by the Contractor.

(a) **Blasting Plan Required.** Not less than two (2) weeks prior to commencing drilling and blasting operations, or at any time the Contractor proposes to change the drilling and blasting methods, the Contractor shall submit a blasting plan to the Engineer for review. The blasting plan shall contain the full details of the drilling and blasting patterns and controls the Contractor proposes to use. The blasting plan submittal is for quality control and record keeping purposes.

Review of the blasting plan by the Engineer shall not relieve the Contractor of the responsibility for the accuracy and adequacy of the plan when implemented in the field. If at any time during the progress of the Work the method of drilling and blasting does not produce the desired result, the Contractor shall submit a revised blasting plan until a technique is arrived at that shall produce the desired results.

(b) **Responsibility.** Control of blasting is a major responsibility of the Contractor. The Contractor shall execute vibration control and shall at all times be responsible for damage caused by vibrations due to blasting or any of the Contractor's other operations.

(c) **Extraordinary care.** When the use of explosives is necessary for the prosecution of the Work, the Contractor shall use extraordinary care so as not to endanger life or property. Before the firing of any blast in areas where flying rock may result in personal injury or unacceptable damage to property or the Work, the rock to be blasted shall be covered with approved blasting mats, soil, or other equally serviceable material, to prevent flyrock.

(d) **Safeguard of Public.** The Contractor must safeguard the traveling public during dynamiting operations. The Contractor shall use enough watchmen, flagmen, signs, etc. to warn the public including, but not limited to, motorists and pedestrians during blasting.

(e) **Storage.** The Contractor shall store all explosives in a secure manner and shall clearly mark storage places "DANGEROUS - EXPLOSIVES". The storage places must be in the care of competent watchmen at all times and all explosives shall be stored and handled according to the provisions of the statutes of the State and local laws and ordinances.

(f) **Permits & Insurance.** Before any blasting is done, the Contractor shall apply for and obtain a blasting permit from the applicable governing authority. Insurance shall be maintained and certified as specified in GP-7.14.

(g) **Protection of Underground Utilities.**

(1) The Contractor shall ensure the protection of underground utilities. The Contractor shall notify each public utility company and those applicable Utility Companies having Structures close to the site of Work of the Contractor's intentions to use explosives. The notice must be given far enough in advance to enable all Persons and the Utility Companies to take such steps as they deem necessary to protect their property from injury. Such notice does

not relieve the Contractor of responsibility for any damage resulting from Contractor's blasting operations.

(2) At and below the elevation of the top of the buried utility line, the vertical depth of blast holes shall be restricted to one-half the horizontal distance to the closest portion of the utility. The blast hole shall be restricted to a maximum of three inches (3"), with no more than one hole per delay.

(h) **Peak Particle Velocity.** When blasting has to be done next to a Structure, the Contractor shall ensure that the "Peak Particle Velocity" at the Structure does not exceed 0.50 inches/second for frequencies less than 40 Hz. The "Peak Particle Velocity" is the maximum of the three-velocity components measured at a point with a three-component vibration recording instrument capable of producing a permanent record.

(i) **Maximum charge weight.** If a scaled distance, as defined below, of seventy (70) or greater is used with minimum delays of ten (10) milliseconds, the following formula may be used to determine the maximum charge weight per delay which can be used without seismic instrumentation:

$$\text{Scaled Distance} = \text{Actual Distance to Damage Point in Feet} (\text{Charge Weight in Pounds per delay})^{1/2}$$

$$\text{Charge Weight in} = (\text{Actual Distance to Damage Point in feet})^2 \text{ pounds per Delay} (\text{Scaled Distance})^2$$

(j) **Blast holes.** Blast holes are to be limited to three inches (3") in diameter. Prepackaged material only shall be used with no free flowing explosive permitted.

(k) **Use of Explosives Within State Road Right-of-Way.**

(1) The use of explosives is not permitted within rights-of-way of the State Highway Administration (SHA) except when specifically allowed under a SHA permit or by amendment of the same. The Contractor shall conduct and perform all blasting operations according to the permit and/or any addenda issued.

(2) Before using any explosives, notify the following office:

Utility Division
Maryland State Highway Administration
District No. 4
320 West Warren Road
Hunt Valley, Maryland 21030
Telephone (410) 229-2300

(l) Each blasting shall be seismographically recorded by the Contractor and the Contractor shall send a copy of the report to the SHA Highway District Utility Engineer at the above

address.

(m) Use of explosives. The use of explosives is not permitted within railroad rights-of-ways except when specifically allowed under a railroad permit or by amendment of the same. All blasting operations shall be conducted and performed according to the permit and/or any addenda issued.

(n) Payment for blasting. Payment of all blasting operations, control measures and monitoring systems shall be included in the unit price Bid for each Contract Item for which blasting is required.

TC-6.06 AERIAL ELECTRIC LINES (750 VOLTS OR MORE).

The Contractor shall be aware that State law requires that a ten foot (10') radial clearance shall be maintained for all Construction Equipment and Materials in relation to electric lines carrying seven hundred fifty (750) volts or more. Because the State law is more stringent than the federal laws, the State law shall be considered the minimal distance.

The Contractor shall also be aware of, and comply with, all other federal, State, County and local laws, utility company requirements and regulations, as specified in GP-7.01 "Compliance With Laws".

TC-6.07 LOAD AND SPEED LIMITATIONS – Reserved.

TC-6.08 HAZARDOUS MATERIAL.

If the Contractor encounters or exposes during Construction any abnormal conditions which indicate the presence of a hazardous material or toxic waste, Work in the area shall immediately be suspended and the Engineer notified in writing. The Contractor's operations in this area shall not resume until permitted in writing by the Engineer; however, the Contractor may continue working in other areas of the Work site, unless directed otherwise.

Abnormal conditions shall include, but not be limited to, the presence of barrels, obnoxious or unusual odors, excessively hot earth, smoke, or any other condition which could be a possible indicator of hazardous material or toxic waste.

Disposition of the hazardous material or toxic waste shall be made in conformance with all applicable laws, requirements and regulations. Where the Contractor performs necessary Work required to dispose of these Materials and no Contract Items have been identified in the Contract Documents, the Work shall be performed under an Extra Work Order.

For any Material furnished in connection with the Contract and/or on the Work site by the Contractor that is suspected to be hazardous or toxic, the Engineer may require the Contractor to have it tested and certified to be in conformance with all applicable requirements and regulations. Material found to be hazardous or toxic shall not be incorporated into the Work.

The required testing will be determined by the Engineer and may include, but not be limited to, the EPA Toxicity Characteristic Leaching Procedure (TCLP) or its successor. The evaluation and interpretation of the test data will be made by the Engineer. Testing and Certification shall be at the Contractor's sole expense.

TC-6.09 RECYCLED OR REHANDLED MATERIALS.

For recycled or rehandled Material furnished on the Work site by the Contractor for use in embankment, base, Subbase or drainage media, the Engineer may require the Contractor to have the Material tested and certified to be in conformance with all applicable environmental requirements. The required testing will be determined by the Engineer and may include, but not be limited to, the EPA Toxicity Characteristic Leaching Procedure (TCLP) or its successor. The evaluation and interpretation of the test data will be made by the Engineer and be based on the Work site environment. Testing and Certification shall be at the Contractor's sole expense.

TC-6.10 CONSTRUCTION AND WASTE MATERIAL.

All wood, trash, debris, and other foreign matter shall be removed from within the Right-of-Way limits and disposed of by the Contractor. The Contractor shall make all necessary arrangements to obtain suitable disposal locations at the Contractor's sole expense. Disposal shall be in conformance with all federal, State and local ordinances.

**TC - SECTION 7
PAYMENT**

TC-7.01 MEASUREMENT OF QUANTITIES – Reserved.

TC-7.02 PAYMENT ALLOWANCES FOR STORED MATERIALS – Reserved.

TC-7.03 FORCE ACCOUNT WORK – Reserved.

TC-7.04 PROGRESS PAYMENTS – Reserved.

TC-7.05 FINAL ACCEPTANCE AND FINAL PAYMENT– Reserved.

TC-7.06 LATE PAYMENTS – Reserved.

351.03.10 Chlorination, Bacteriological, Hydrostatic and Leakage Tests.

(b) Water Samples. Baltimore City Bureau of Water and Wastewater will perform bacteriological testing for the disinfection of water mains and storage facilities according to ANSI/AWWA C651, Section 5.1.1, 5.1.2, 5.1.4, and 5.2. It is required that two consecutive sets of samples be taken at least 24 hours apart and deemed acceptable by bacteriological standards before a water main or storage facility can be placed into service.

The engineer will collect water samples and provide for their analysis for bacteriological quality. Samples must arrive at the Water Quality Lab no later than 6 hours after being taken: Because bacteriological analysis will be run on samples received in the lab by 1:00 pm, all field sampling must be completed by 12:00 noon. Results will be available after 3:00 pm the following day, as the results require a full 24 hour incubation period.

MAINTENANCE BOND

Per the Baltimore County Department of Public Works Standard Specifications for Construction and Materials, Section GP -4 .10 (C) of the Errata Addenda states, the contractor is required to post a maintenance bond in the amount of five (5) percent of the total cost of the contract or withhold five (5) percent retainage for two (2) years from the date of Final Acceptance. Maintenance Bond forms are located within this Errata Addenda.

BALTIMORE COUNTY, MARYLAND

BOND NO. _____

CONTRACT NO. _____

MAINTENANCE BOND

THIS MAINTENANCE BOND is entered into on this _____ day of _____, 20____, by and between _____ as principal ("Principal") and _____, a business entity that is authorized to transact business in the State of Maryland and is organized and existing under the laws of the State of _____, as surety ("Surety"), are held and firmly bound unto Baltimore County, Maryland, a body corporate and politic of the State of Maryland ("County"), as Obligee.

WHEREAS, the above-named Principal has entered into a written contract known as _____ No. _____ dated _____, 20__ with Obligee for _____ (the "Agreement"), the terms of which are hereby incorporated by reference; and

WHEREAS, Principal has completed construction under the Agreement; and

WHEREAS, the Agreement includes a warranty on the quality of the Work performed that runs for a period of two (2) years from the date of the County's final acceptance and that runs for two (2) additional years beyond the repair date if any repair is done during the warranty period; and

WHEREAS, Principal is required to cause this instrument to be executed and delivered to Obligee as security for maintenance during the warranty period in an amount equal to 5% of the total value of the Contract.

NOW, THEREFORE, the Principal and Surety are held and firmly bound unto the Obligee in the sum of \$_____ Dollars (\$ _____), lawful money of the United States of America, for the payment of which sum of money the Principal and Surety do bind themselves and their personal representatives, legal representatives, successors, and assigns, jointly and severally, firmly by this maintenance bond.

The conditions of this bond are as follows:

1. The Principal shall, for a period of two (2) years from and after the date of completion and acceptance of same by Obligee, replace all defects arising in the Work, whether resulting from defective materials, equipment, design furnished or workmanship. After such period, this obligation shall be null and void; otherwise it shall remain in full force and effect.

2. In the event of a default on the part of the Principal that may be the subject of a claim under this bond, Obligee shall mail, by certified mail, to Surety at the address listed below, a written statement that a claim is being made under the bond and, with substantial accuracy, the amount of the claim. Surety shall have no obligation to Obligee under this bond until the notice of claim is mailed.
3. When the Obligee has satisfied the condition of Paragraph 2 that a notice of claim be mailed, the Surety shall promptly and at the Surety's expense send an answer to Obligee within 30 days after the date of the claim. The answer shall state the amounts that are undisputed and the basis for challenging any amounts that are disputed. The answer shall be accompanied by payment (or arrangements for immediate payment) of any undisputed amounts.
4. Surety expressly waives any right to receive notice of extensions of time or alterations or modifications to the Agreement that may be granted by Obligee and agreed upon by Principal, and any such extensions, alterations, or modifications shall not affect the obligation of the Surety under this bond.
5. This bond is a specialty governed by the twelve-year statute of limitations period set forth in the Annotated Code of Maryland Courts and Judicial Proceedings §5-102.

WITNESS OR ATTEST:

(Principal – Contractor Name)

By: _____

Type Name: _____

Type Title: _____

Date: _____

(Surety)

By: _____

Type Name: _____

Type Title: _____

Type Address: _____

Date: _____

S E C T I O N III

SPECIAL PROVISIONS

**SPECIAL PROVISIONS
BIDDER PROTEST AND APPEAL
DPW CONSTRUCTION CONTRACTS**

STEP 1A – Bidder Protest of Award

Bidder must file a written bid protest pursuant to Section GP-2.23 of the Standard Specifications – see below. *A bid protest must be in writing and filed with the Engineer.*

Oral objections, whether or not acted on, are not protests.

(a) Time for Filing.

(1) A bid protest shall be filed not later than three (3) business days after the date of award.

(2) A protest based on alleged improprieties in the solicitation which are apparent before the bid opening or the closing date for receipt of initial proposals shall be filed not later than five (5) business days before the opening date.

(b) Content of Written Protest.

(1) Name and address of protestor.

(2) Bid or Contract number.

(3) Reasons for protest.

(4) Supporting exhibits, evidence or documents to support claim.

STEP 1B – Bidder Protest of Bid Rejection

Bidder must file a written bid protest with the Engineer not later than three (3) business days from the date of the bid rejection. Oral objections, whether or not acted on, are not protests. The written bid protest must comply with Section GP-2.23(b) of the Standard Specifications.

STEP 2 – DPW Response to Bidder Protest

The Department of Public Works (DPW), Chief of Division of Construction Contracts Administration will review the bidder's protest and respond to the bidder in writing within ten (10) working days of receipt of protest.

STEP 3 – Bidder Appeal

Bidder may appeal the decision by the Chief of Division of Construction Contracts Administration (a) to the Director of the Office of Budget & Finance for all MBE/WBE-related protests or (b) to the Director of Public Works for all other protests.

Bidder must file a written appeal with the relevant Director not later than three (3) business days from the date of the DPW Response in Step 2. Oral objections, whether or not acted on, are not appeals. The appeal must comply with Section GP-2.23(b) of the Standard Specifications, but may include any additional documentation as deemed necessary and appropriate by the bidder.

STEP 4 – Director Response to Bidder Appeal

The Director of the Office of Budget & Finance or the Director of Public Works will review the bidder's appeal and respond to the bidder in writing within fifteen (15) working days of receipt of appeal.

STEP 5 – Second Bidder Appeal

Bidder may appeal the decision by the Director of the Office of Budget & Finance or the Director of Public Works to the County Administrative Officer (CAO).

Bidder must file a written appeal with the CAO not later than three (3) business days from the date of the Director Response in Step 4. Oral objections, whether or not acted on, are not appeals. The appeal must comply with Section GP-2.23(b) of the Standard Specifications, but may include any additional documentation as deemed necessary and appropriate by the bidder.

STEP 6 – CAO Response to Bidder Appeal

The CAO, or his duly authorized designee, will review the bidder's appeal and respond to the bidder in writing within Twenty (20) Working days of receipt of appeal. The CAO's, or his duly authorized designee's, written decision is final and binding.

GENERAL SPECIAL PROVISIONS**1. Location and Description of the Water Main Work**

The work to be completed under this Contract shall include all labor, materials, and equipment necessary to furnish and install an 4-inch, 6-inch 8-inch and 12-inch diameter ductile iron pipe (DIP) water mains, including valves, valve vaults, fire hydrants, fittings, service connection renewals, pressure testing, disinfection, connection to existing water mains, and appurtenances at the locations indicated on the Contract Drawings.

The site is located in the Rosedale area of Baltimore County, bounded by Franklin Square Boulevard on the northwest and Philadelphia Road on the southeast.

The project includes, but is not limited to, the construction of approximately 22 linear feet of 4-inch water main, 165 linear feet of 6-inch water main, 4,883 linear feet of 8-inch water main and 1,932 linear feet of 12-inch water main; 1,719 linear feet of 2-inch temporary bypass line and services, 5,258 linear feet of 4" temporary bypass line and services; one (1) 4-inch valve and vault, eight (8) 6-inch valves and vaults, nine (9) 8-inch valves and vaults, and four (4) 12-inch valves and vaults; and seven (7) 6-inch fire hydrants; and the reinstallation/relocation of 55 water service connections.

All ductile iron pipe water mains for this project shall be polyethylene encased, zinc coated ductile iron pipe CL. 54 in accordance with AWWA/ANSI C105/A 21.5; and C150/A21.51. Ductile iron fittings shall meet the latest AWWA/ANSI C110/A21.10 and AWWA/ANSI C153/A21.53. Fittings shall be provided with a zinc based coating that contains a minimum of 83% zinc by weight with bituminous coating or shall be furnished with a fusion-bonded epoxy coating on all interior and exterior surfaces in accordance with AWWA/ANSI C116/A21.16.

2. Specifications

All water main and services work on this project shall conform to the Baltimore County Department of Public Works' "Standard Specifications for Construction and Materials" dated January 2000 and as amended, and the Standard Details for Construction, dated February 2007 and as amended, and the Special Provisions included in this Contract book.

In any and all cases of conflict between the Standards and the Contract Documents, the Contract Documents shall govern but only to the extent of such conflict. Any reference in the water main portion of the Contract Documents made to a Standard Number shall refer to Baltimore County's Book of Standards unless otherwise noted.

Any discrepancies found between the drawings and the Specifications or any inconsistencies in the Drawings or Specifications shall be reported immediately to the Engineer, in writing who promptly will correct such inconsistencies or ambiguities in writing. Work done by the Contractor after his/her discovery of such inconsistencies, discrepancies, or ambiguities prior to corrections directed by the Engineer, will be done at

the Contractor's risk. In case of discrepancy or omission, the Engineer will determine the intent of the design in issuing clarifying or corrective instructions.

3. Sheeting and Shoring

No separate payment will be made for the cost of furnishing, installing and removing built-in-place support of excavation system. All work, materials, labor, etc. associated with furnishing, installing and removing built-in-place support of the excavation system will be considered incidental to the work required under this Contract. Sheeting and shoring may be left in place at a distance of 2-feet below finished grade. Also, no separate payment will be made for the cost of temporary or permanent supporting and/or protecting of any existing utilities within the excavation.

4. Construction Stakeout

The Contractor shall retain a surveyor licensed in the state of Maryland to furnish, set and maintain all construction stakeout associated with this project as required to establish proper line and grade for the proposed water mains and interconnections. Survey controls, survey control sketches, and stakeout data for the water main are to be provided upon request to the Contractor.

Construction Stakeout will not be measured but will be paid for at the Contract lump sum price. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to complete the work. Payment of the Contract lump sum price will be prorated and paid in equal amounts on each monthly estimate. The number of months used for prorating will be the number estimated to complete the work.

5. Sequence of Construction

A suggested sequence of construction is outlined on the Contract Drawings. The Contractor shall submit a sequence of construction operations for review and approval prior to the start of construction. All valve closures for tie-ins of services and laterals must be coordinated with Baltimore City. The Contractor must work with the Inspector and Baltimore City inspector to fill out the valve shutdown sheet that is included as part of the Appendices for these Special Provisions.

6. Maintenance of Traffic

The Contractor shall be responsible for the fabrication, installation, and maintenance of all traffic control devices. Said devices shall be in accordance with the Manual on Uniform Control Devices. The Contractor shall also be required to furnish additional signs should conditions warrant at no additional cost to the County. Regarding the control of traffic through work areas, Part 6 "Temporary Traffic Control" of The Manual on Uniform Traffic Control Devices (Latest Edition) shall be utilized.

Once Contractor has received the Notice-to-Proceed, The Division of Traffic Engineering shall inventory the existing permanent traffic control devices throughout the construction area. Should it be necessary for devices to be removed by Contractor's forces or his/her

sub-contractor during construction, the Contractor shall be responsible for the storage of these devices. Should they become damaged, defaced, lost, etc., the Contractor will be billed for the replacement of these permanent devices. The Contractor will also be responsible for the re-installation of any permanent devices removed during construction.

The following conditions will apply to the project areas during construction:

- a) A minimum single lane of traffic is required to be maintained at all times.
- b) At the end of each workday, the Contractor is required to complete the following:
 - i. Backfill and/or plate over all open excavations so that two lanes of traffic are maintained.
 - ii. Remove all equipment and material from the traveled portion of the roadway. Also, equipment and materials should not be stored in such a manner as to obstruct sight distance at any driveway or intersecting road.
 - iii. Cover or remove all signs referring to single-lane operation. Also, it may be necessary for the Contractor to provide "STEEL PLATES AHEAD" signs on each approach to the construction area, if appropriate or as directed by the inspector for the project.
- c) All existing driveway access must be maintained at all times.
- d) Work within SHA Right-of-Way must be submitted to District 4 Traffic for review.

7. Payment for Maintenance of Traffic

The Bid Item for Maintenance of Traffic (MOT) shall include all engineering and work which is related to the development and application of Traffic Control Plan(s) as well as all related items of work (including: furnishing, placement, maintenance, removal and relocation of devices and the necessary labor, tools, equipment, and incidentals such as lighting, drums, cones, barricades, STOP/SLOW paddles, flags, vest, and Traffic Manager) for which a specific Bid Item has not been established to ensure the desired result of a safe and efficient work zone area. Temporary traffic signs shall be included in the Bid Item for Maintenance of Traffic. Also, the pavement marking plan, removal of existing pavement markings, and temporary/permanent pavement markings shall be included in this Bid Item.

a) Traffic Manager

The Contractor shall assign the foreman as Traffic Manager for this Contract. The Traffic Manager shall be responsible for properly implementing traffic control devices and for maintenance surveillance on all aspects of traffic control safety as directed by the Engineer and in accordance with the Traffic Control Plans included with the contract drawings and the Maryland Manual

on Uniform Traffic Control Devices (MD MUTCD) 2006 Edition and all supplements and revisions.

8. Curbs, Driveways, Pedestrian Ramps, and Sidewalks

Concrete sidewalks, curbs and gutters, and driveways shall be removed to the nearest contraction or expansion joint. Care shall be used to avoid damage to sidewalks, curbs and gutters, and driveways that are to remain in place.

Concrete sidewalks and driveway aprons shall be replaced with the same material, construction, and finish as the originals. All disturbed sections, concrete blocks, and driveway aprons shall be replaced in their entirety. Any expansion joint material removed shall be replaced at the original locations. Existing concrete edges shall be cleaned prior to placement of concrete. The finished concrete elevation, texture, and color shall conform to the adjacent concrete surfaces.

Unless otherwise directed, curb and gutter shall be replaced with new concrete curb and gutter of the same cross-section and at the same top of curb elevation and flow line as that removed. Any expansion joint material removed shall be replaced at the original locations. Existing concrete edges shall be cleaned prior to placement of concrete. The finished curb and gutter cross-section, elevations, texture, and color shall conform to the adjacent concrete surfaces.

Removal and Replacement of Concrete sidewalks, and driveways will be measured for payment by the square foot, complete in place. Sidewalk and driveway removal and replacement will be paid for at the contract unit price per square foot, which price will be full compensation for removal and disposal of sidewalk or driveway; preparing the subgrade; and placing, finishing, curing and protection of concrete, complete in place.

Removal and Replacement of Concrete Curb and Gutter will be measured for payment by the linear foot, complete in place. Curb and gutter removal and replacement will be paid for at the contract unit price per linear foot, price will be full compensation for removal and disposal of curb and gutter; preparing the subgrade; and placing, finishing, curing and protection of concrete, complete in place.

9. Estimated Quantities

The quantities shown for all unit bid items are based upon the best information at the time of bidding and are established for the purpose of obtaining a bid price. The quantities for all items may be increased or decreased or eliminated without any adjustments to the Contract unit price bid and shall not be considered as a basis of claim by the Contractor against Baltimore County resulting from any quantity changes.

10. Acceptable Resilient Gate Valves 4-inch to 12-inch

Manufacturer	Valve
American Flow	Series 2500
Kennedy Valve Co.	Ken-Seal NRS
M&H	4067 NRS
Mueller	A-2361 NRS
U.S. Pipe	A-USP0 NRS
Clow	F 6100 Series

11. Number of Valve turns for Resilient Gate Valves

Valve Size	Number of Turns
4, 6, 8, 10 and 12 inches	Three (3) times the nominal diameter plus three (3) turns

12. Acceptable Coupling Manufacturers:

- a) Total Piping Solutions, Inc. Hymax – 2000 Series (6”-24”)
- b) Mueller Co. MaxiFit – MFC Coupling (6”-12”)
- c) Smith-Blair, Inc. Quantum – 461 Series Coupling (6”-12”)

13. Non-Detectable Tape for Restrained Joint Pipe

On all new ductile iron pipe with restrained joint, including any 6” hydrant lead line, the Contractor shall install new non-detectable tape on the top of pipe and in accordance with the following specifications and requirements. The Contractor must submit the shop drawings for approval prior to ordering.

All costs associated with the furnishing and installation of such non-detectable tape shall be considered incidental to all appropriate utility bid items in this Contract and no separate payment will be made.

Restrained Joint Pipe Tape

- 1) Description
 - i. Material: Non-detectable type, low density, virgin grade polyethylene, acid and alkali resistant; minimum wetting tension: 35 dynes/cm, ASTM D2578.
 - ii. Tape size: 6-inch width, 4 mils thickness.
 - iii. Printing: Two lines with minimum 1 inch height letters with “No-Dig Symbol” following each cycle of text.
 - 1. First Line: “CAUTION-RESTRAINED JOINT PIPE” repeated every 20 to 24 inches.
 - 2. Second line: “CALL DPW AT 410-396-7870.”

- iv. Colors:
 - 1. Tape: APWA Red.
 - 2. Lettering: Permanent Black.
- 2) Approved manufacturers:
 - i. Empire Level Manufacturing Corporation, Utility Products Division, Shieldtec Underground Warning Tape.
 - ii. Blackburn Manufacturing Co., Inc., Non-Detectable Underground Utility Warning Tape.
 - iii. Reef Industries Inc., Terra Tape Standard Non-Detectable.
 - iv. Mutual Industries, Non-Detectable Underground Marking Tape.
 - v. Pro-line Safety Products (A Division of Pro-Pak Ind., Inc.), Standard Non-Detectable.
 - vi. Or Approved Equal.

14. Chlorination and Field Testing of Water Mains

All mains will be chlorinated prior to placing them to service. The Engineer will perform the chlorination test. The Engineer shall determine the amount of mains to be chlorinated at any time and shall reserve the right to separate the installation into several sections. The Engineer will collect water samples and will provide for their analysis for bacteriological quality. Since the water samples must be taken to the laboratory no later than four (4) hours after sampling, chlorination testing will only be performed between the hours of 7:30AM and 12:00 PM. The actual bacteriological tests and report data are typically obtained two (2) days after submittal. If the results are satisfactory, further tests will not be conducted. All tests shall comply with the ANSI/AWWA standard for disinfecting water mains, Standard C 651.

It is required that two (2) consecutive sets of samples be taken at least 24 hours apart and deemed acceptable by Bacteriological Standards before a water main can be placed into service.

All requests for chlorination testing of water mains must be made in writing to Baltimore County's Bureau of Engineering and Construction, Construction Contacts Administration Division, at least three (3) working days prior to date of the test. A three (3) day advance notice shall be given prior to charging water main.

Chlorination for disinfection is NOT to be accomplished against closed valves. The termination points and side connections are to be temporarily cut and capped for chlorination. The Contractor is to submit for approval to the Engineer his/her preference of capping or laying temporary main on dead-end streets.

15. Documentation of Water Main Installation

It is important for the County to ensure that new polyethylene encased water mains and service lines are constructed in strict accordance with the requirements and practices of ANSI/AWWA C150/A21.50, ANSI/AWWA C151/A21.51, ANSI/AWWA C105/A21.5,

AWWA C600 and M41. Even small variations could have detrimental effects on the encasement ability to perform its designed function.

To verify that polyethylene encased water mains have been properly installed, color photographs shall be taken by the Contractor to show the placement of the polyethylene encasement prior to backfilling operations. A separate photograph shall be provided for each of the following: joints, fittings, service connections, appurtenances, and structures. Additionally, photographs shall be taken at 40-foot intervals (maximum) along pipe centerline (upstream or downstream) showing the progression of finished tape wrapping operations immediately prior to backfilling.

In the event the photographs depict an improper installation and/or a damaged polyethylene encasement, the Engineer will direct the Contractor to carry out repairs at the identified locations at no additional cost to the County.

Contract shall provide photographs as cut and paste files onto a Word document (maximum 4 images to a page). Digital photography shall be 2.1 megapixel density or greater. Contractor shall save digital page files in PDF format. On each page of photos, provide the following information:

1. Name of Project
2. Submittal Sequential Numbering (i.e. JR0001, JR0002, etc.)
3. Station Range (water centerline stationing)
4. Orientation of View
5. Date & Time image was taken: unless otherwise indicated, date and time stamp each photograph as it is being taken so stamp is integral to photograph
6. Service size, station, and address (when applicable)
7. Type of appurtenance and station (when applicable)
8. Type of Fitting and station (when applicable)
9. Name of individual who took photograph

Frequency: The Contractor shall take photographs daily while water line work is being carried out, with a cutoff date associated with each application for payment. No payment will be processed without the submittal of applicable progress photographs for the corresponding period. Along each respective Application for Payment, the Contractor shall submit the following to the inspector:

- A complete set of digital image electronic files of the Progress Record Documentation (PRD) on a CD-ROM corresponding for the payment period, identifying the electronic media with date photographs. (i.e. PRD_06.01.17_thru_06.30.17)
- Two hard copies of files bound in two (2) 3-in three-ring binders each printout inside three-holed plastic sleeves. The 3-in three-ring binder shall occur for the first submittal, subsequent submittals may be provided in three-holed plastic sleeves properly restrained so that they can be added to the original binder.

Measurement and Payment: There will be no separate measurement or payment for the Documentation of Water Main Installation. The cost will be incidental and shall be included in the unit prices bid per linear foot of the various sizes of pipe laid as provided for in the Bid Schedule for this Contract.

16. Insulating Coupling:

DELETED

17. Contract As-Built Drawings

The Contractor shall have Contract Drawings showing the location, dimensions, and sizes of the materials, on the lines and slopes, at the depths, with the connections and the manner in which they are to be placed as called for by the Specifications. The Contractor shall also maintain a complete set of these plans showing As-Built construction changes for use in maintaining a permanent record of the completed construction that shall become the property of Baltimore County at the completion of the Contract.

Following installation, the Contractor shall provide the Engineer with “As-Built” survey data for each fire hydrant, fitting, corrosion control test station, water meter vault cover, water valve vault cover, sanitary and storm drain manhole invert and frame and cover, installed, as applicable. Survey data shall consist of horizontal datum based upon Maryland State Plane coordinate system NAD 83/91 and shall be accurate to 0.10 feet. Vertical datum shall be based upon NAVD88 and shall be accurate to 0.10 feet.

At the Contractor’s option, the required “As-Built” survey data may be provided on either individual sketches or on the “red-lined” As-Built drawings that the Contractor is to supply to the Engineer at the completion of the Contract. No separate payment will be made for Contract As-Built Drawings, it shall be considered incidental to the work.

Final payment will not be made and/or Contract acceptance will not be given until the Contractor provides an acceptable As-Built plan and survey.

18. Handling of Zinc coated Pipe and Fittings

If damage or coating abrasion occurs and is repairable, repair following approved manufacturer's recommendations.

Paint used for repair of zinc coating must meet ISO 8179 requirements of a minimum 85% zinc in the dry film.

1) Approved Manufacturers:

- a) CRC Marine - Instant Galvanize Zinc Rich Galvanize Coating;
- b) LPS - Cold Galvanize Corrosion Inhibitor
- c) ZRC Cold Galvanizing Compound
- d) Or approved equal

- 2) If pipe is cut in the field in such a way that the zinc label is removed, paint a circumferential band around one end of the pipe using grey or silver paint. Repair paint as specified above can be used for this application.

19. Pipe Wrap Tape for Service Lines

When connecting to existing polyethylene encased cast or ductile iron water main, Contractor shall wrap water service connection pipe 3 feet from main (including corporation stop and saddle) with polyethylene encasement following AWWA C105. Contractor shall seal polyethylene with minimum 2 layers of tape.

Should the Contractor elect to substitute the use of polyethylene encasement for service lines with the use of Pipe Wrap Tape, the Contractor shall apply tape in a spiral form allowing for a minimum of 1-inch overlap. The tape shall contain stabilizers and inhibitors to resist the destructive effects of ultra-violet light. The tape shall have the following properties:

Tape thickness	mm/mils	0.25 / 10	ASTM D-1000
Adhesion to steel	kg/cm, Oz/in	0.23 / 20	ASTM D-1000
Adhesion to backing	kg/cm, Oz/in	0.23 / 20	ASTM D-1000
Elongation at break	%	200	ASTM D-1000
Tensile strength	kg/cm, lbs/in	4.6 / 25.7	ASTM D-1000
Dielectric strength	volts/mil	1250	ASTM D-1000

20. Temporary, Permanent Trench Restoration and Final Paving

All final paving shall be done by a County prequalified A2 Contractor.

For trench restoration Contractor shall refer to the details provided, including Baltimore County Standard Detail R-38, in the Contract Documents and as directed by the area Engineer.

Graded Aggregate Base for Trench Repair will be paid under Bid Item #21. Temporary Trench Repair – Stage 1 asphalt (2-inch thickness) will be paid under Bid Item #22. Base Course for permanent Trench Restoration will be paid under Bid Item #23.

21. Contingent Bid Items

Bid items which are identified as “Contingent Bid Items” are established for the sole purpose of obtaining unit costs on pay items that may be incorporated into the project. The Engineer shall have sole discretion in determining whether and to what extent such items will be incorporated into the project. The Engineer may order incorporation of such items at any location within the Contract and at any time during the work. Neither the Contractor nor his/her subcontractor and the Administration shall make claims for additional compensation because of any increase/decrease in quantities, or the complete elimination of such items.

CATEGORY 100
PRELIMINARY

SECTION 103 – ENGINEERS OFFICE

DELETE SECTION 103 – ENGINEERS OFFICE in its entirety and **REPLACE** with the following:

103.01 DESCRIPTION. Furnish, clean, and maintain in good condition an Engineers office at an approved location within the immediate vicinity of the project. The office shall be separate from any offices used by the Contractor, and it and all items therein shall be for the exclusive use of the County’s Engineers and Inspectors. Rented properties that conform to the type of office specified in the Contract Documents will be acceptable.

103.02 MATERIALS. Not applicable.

103.03 CONSTRUCTION. Set up, equip, and make the office ready for use at least five days prior to commencement of other work on the project. Leave the office and appurtenances in place until all field records are complete. Upon removal of the office, restore the location to a condition acceptable to the Engineer.

Unless otherwise specified, the office and all furnished equipment and accessories shall become the property of the Contractor at the completion of the project.

103.03.01 Reserved.

103.03.02 Handicap Accessibility. When handicap accessibility is necessary, comply with Title II (28 CFR Part 35) and Title III (28 CFR Part 36) of the Americans with Disabilities Act (ADA) and the 2010 ADA Standards for Accessible Design.

103.03.03 Mobile Office Trailers. Anchor in accordance with the manufacturer’s recommendations. Office trailers, as defined under the Industrial Building and Mobile Act of Maryland, shall be approved by the Maryland Department of Housing and Community Development and bear the Maryland Certification Insignia in the interior of the office.

Office Trailers shall not be placed within designated floodplain areas.

103.03.04 Reserved.

103.03.05 Requirements for all Offices.

- (a) Entirely enclosed, waterproofed, and completely insulated to at least an R11 rating.
- (b) Double thick floor with building paper placed in between the floor layers.
- (c) Finished inside and outside as approved.
- (d) A ceiling height of at least 7 ft., a pitched roof, and a ventilating louver in each gable.

- (e) A 4 x 1 ft. sign with the message:

FIELD OFFICE
DEPARTMENT OF PUBLIC WORKS
BALTIMORE COUNTY

attached to or mounted in front of the office. The sign shall have a black background and have white lettering at least 3 in. high.

- (f) A 5 x 7 in. “No smoking” sign posted on the outside of each entrance to the office.
- (g) Interior and exterior doors equipped with different key locks. Interior doors keyed alike. Exterior doors keyed alike. An additional dead bolt lock for each exterior door. Four keys for each interior and exterior lock.
- (h) Windows capable of being opened and closed. Equip with latches, screens, and venetian blinds or shades.
- (i) Electrified in accordance with national and State electrical codes with satisfactory artificial lighting and lighting services. Ensure an illumination level of at least 75 ft-c.
- (j) Equipment capable of heating the office to at least 70 F and cooling to at least 78 F.
- (k) All offices shall be provided with neat, sanitary toilet and hand-washing accommodations for the exclusive use of the County employees; and such facilities shall meet the requirements of the State Department of Health and Mental Hygiene or other authorities having jurisdiction.
- (l) The field office is to be maintained in a clean and sanitary manner. Trash shall be removed and the office broom-cleaned daily. The floors shall be damp-mopped weekly. Interior and exterior windows shall be cleaned weekly.
- (m) Protect the County and County employees from any loss or damage to their property stored in the Engineers Office. Provide protection in the amount of twenty thousand dollars (\$20 000), nondeductible, per each occurrence, for any loss or damage due to fire, theft, vandalism, storms, or floods. Complete the reimbursement, replacement, or repair within 30 days from the date the Engineer reports the loss.
- (n) A parking area for the exclusive use of County employees. Provide the specified number of spaces. Post signs to designate the assigned parking areas. Stabilize the parking area as directed.
- (o) Fire extinguishers of a dry chemical or multi-purpose ABC type (at least 10 lb), equipped with a visual air pressure gauge, and maintained in accordance with OSHA standards.
- (p) A 24 unit first aid kit furnished and maintained as described in the Code of Federal Regulations, Title 29 Subpart D, Section 1926.50(d)2.
- (q) A 4 x 8 ft. waterproof bulletin board. Place in an easily accessible area within the project limits and conspicuously displayed to all employees. Post and maintain all pertinent and required notices for the duration of the project.

- (r) Touch-tone telephones equipped with an answering device capable of answering, recording, storing, and playing back incoming messages at least 30 minutes in length and recording outgoing messages up to 15 seconds in length. The device shall be voice activated, beeperless, record as long as the speaker speaks, and play back recorded messages without dial tone or pauses.

Replace stolen equipment and equipment that becomes defective or for any other reason does not function as intended. Provide an equal or better unit within eight hours after notification. Replacement shall be at no additional cost to the County. Post emergency telephone numbers at a conspicuous location.

- (s) One sanitary electric water cooler, including bottled water and disposable cups.

103.03.06 Microcomputer System for all Offices.

Contractor shall furnish **one (1) desktop computer OR one (1) laptop computer; printer(s) and or multifunction printer(s)** and other equipment as specified herein.

i. General Requirements:

- IBM compatible with an Intel Core i5 processor.
- Minimum hard drive storage of 500 GB (gigabyte).
- One CD-RW drive (re-writable CD-ROM). 16X Minimum speed.
- Operating System. Minimum Microsoft Windows 7 Professional Edition. The computer system will not be acceptable unless all Microsoft Windows Critical Updates are installed.
- Printer. When an Engineers Office is specified, furnish a color all-in-one laser printer/scanner/copier/fax with at least 64 MB of RAM and meeting the following minimum requirements:
 - (1) Input paper capacity of 150 sheets.
 - (2) Automatic document feed of 35 page capacity.
 - (3) Printer resolution up to 600 X 2400 dpi, and a print speed (color) of at least 15 ppm.
 - (4) Scanner resolution must be capable of 1200 x 2400 dpi optical. Built in Copier resolution must be capable of up to 600 X 600 dpi. Copier speed of at least 15 ppm.
 - (5) Fax speed of at least 2 sec / page.
 - (6) For security reasons a printer with an internal hard drive installed is not allowed.
- Software. Supply all manuals, license numbers, software key numbers, and/or software on original disks for retention in the Engineers Office or Administration facility for the duration of the Contract.
- Microsoft Office 2007 Professional (32-Bit version only), for Windows or later.

(1) The computer system will not be acceptable unless all available Microsoft Office Professional critical updates and service packs are installed.

(2) Install and configure antivirus/antispyware software to perform an automatic virus signature update when the microcomputer system connects to the internet. No Freeware allowed (Antivirus/AntiSpyware software approved for Administration web email: *Norton, *McAfee, Sophos, or ETrust.)

- Internet Access. Provide unlimited internet service approved by the Engineer. Where available, provide internet high-speed service from cable. DSL service will be acceptable only if cable service is not available. Provide an external router device with cable or DSL internet service. Provide firewall software to protect the computer from security intrusions.

*Both Norton Internet Security and McAfee Internet Security include Antivirus and a Personal Firewall.

- Accessories.

(1) When an Engineers office is specified, provide a standard computer workstation with minimum desk space of 60 X 30 in. and a padded swivel type chair with armrests.

(2) 8-1/2 X 11 in. xerographic paper as needed.

(3) Toner and ink as needed.

(4) Maintenance agreement to provide for possible down time.

(5) Physical security system to deter theft of the computer and components.

(6) Three 4-GB (minimum size acceptable) USB flash drive storage devices.

(7) Blank recordable CD-RW media as needed.

ii. Desktop Specific Requirements.

- IBM compatible with an Intel Core i5 processor.
- Minimum processor speed of 3.0 GHz.
- Minimum of 4 GB RAM.
- Enhanced 101 key keyboard with wrist rest.
- Super video graphics accelerator (SVGA).
- Mouse and mouse pad.
- Flat-panel LCD monitor (19 in. minimum) meeting Energy Star requirements.
- Uninterruptible power supply (UPS)

iii. Laptop Specific Requirements

- Must meet military standard of durability MIL-STD 810G.

- Minimum processor speed of 3.2 GHz.
- Minimum 4 GB SDRAM.
- Minimum 15 in. 1024x768 (XGA), daylight-readable, 500nits (cd/m²) LCD display.
- Power Supply. Two lithium ion battery packs with overcharge protection, an AC adaptor, and a vehicle DC power adaptor that operates the laptop and simultaneously charges the laptop's internal battery.
- Carrying Case.
- Printer. When an Engineers Office is not specified, furnish a portable B&W printer with DC power adapter and having a minimum resolution of 1200 dpi, at least 8 MB of RAM, and a print speed of at least 15 ppm.
- Internet Service. If an Engineers office is not specified, furnish the laptop with an internal wireless broadband card and broadband internet service.

Have the computer system completely set up and ready for use on or before the day the Engineers office is to be occupied. When an Engineers office is not specified, have the computer system furnished complete and ready for use at least five days prior to beginning any work on the project.

The computer system is for the sole use of the Engineer. The engineer will have complete access to the system. After all specified software is satisfactorily installed by the contractor a County representative will ensure that no user accounts exist on the computer system except those used by the Engineer.

If for any reason the system fails to operate, is stolen, or is otherwise unavailable for use, it shall be replaced or repaired within 48 hours.

Any remote access to the computer system by the contractor may be performed only with the permission and supervision of the Engineer.

When the computer system is no longer required, the Construction Management software system including original user/operator guide manuals, program disks, and all data files (including those stored on USB flash drives, CD-R's, etc.) will be removed by the Engineer and delivered to the District Engineer and become the property of the County. The remaining computer systems shall remain the property of the Contractor.

103.03.07 Reserved

103.03.08 Specific Field Office Requirements.

Engineers Office No. 1 – Standard office trailer with at least 200 ft² of floor area under one roof.

Engineers Office No. 2 – Standard office trailer with at least 400 ft² of floor area under one roof.

Engineers Office No. 3 – Standard office trailer with at least 700 ft² of floor area under one roof.

Engineers Office No. 4 – One-story structure containing at least 1300 ft² of floor area under one roof. Modular construction is acceptable. Office trailers are not acceptable.

ENGINEERS OFFICE				
1	2	3	4	
–	1	2	–	Inner Offices–100 ft ² each
–	1	1	–	General office area
–	–	–	4	Inner Offices–120 ft ² each
–	–	–	1	Conference room–240 ft ²
–	–	–	1	Storeroom with shelves–120 ft ²
–	1	1	1	Inner office ingress and egress to the other rooms
3	4	4	5	32 x 60 in. Executive type desks with center drawers
3	4	4	5	Swivel chairs, padded with arm rests
1	1	1	1	30 x 72 in. slant top drafting table and stool, approximately 40 in. high at the front edge
1	2	3	6	30 x 72 in. folding utility table, 30 in. high
–	–	–	1	12-person conference table with padded chairs
2	6	10	12	Additional padded chairs
1	2	2	3	Plan racks
1	1	1	2	Coat racks
1	1	1	1	3 x 6 ft blackboard or whiteboard
1	2	3	3	Electronic desk calculators with memory and tape readout (including manuals, and tapes as needed)
1	1	2	6	Legal size steel filing cabinets, 4 drawer fire resistant (D label) with locks
–	2	2	2	Standard size steel filing cabinets, 4 drawer with locks
1	1	1	5	Bookcases having four shelves 36 x 12 in.
1	2	2	2	Closets, full height, measuring at least 24 x 30 in., equipped with locks, and at least two shelves in each
1	1	1	–	Utility cabinet with 3 adjustable shelves
1	1	1	–	Overhead cabinet at least 8 ft long, 15 in. deep, and 18 in. high
1	1	1	2	Fire extinguisher as specified in Section 103.03.05
1	2	2	4	Telephones with separate lines, as specified in Section 103.03.05
2	2	2	2	Battery-operated smoke detectors
4	8	10	15	Designated parking spaces

103.03.09 Recyclable Materials (Paper, Bottles, Cans, Etc.).

Recycling of recyclable paper (bond, newsprint, cardboard, mixed paper, packaging material and packaging), bottles (glass and plastic), and aluminum cans will be required at the Engineer's Office and the Contractor's facilities for the project.

Furnish approved containers, and remove the material from the site on an approved schedule or as directed. All material shall be taken to an authorized recycling facility.

The Contractor shall be considered the owner of any profit and be responsible for all incurred costs.

103.04 MEASUREMENT AND PAYMENT. Engineer's Office will not be measured but will be paid for at the Contract lump sum price for the pertinent Engineers Office specified.

The payment will be full compensation for site preparation, utility costs, all specified furnishings, to provide, equip, clean, maintain, insure, remove and dispose of the office, restore the site, recycling, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

All costs for the telephones and answering machines required for each specific office including furnishing, installation, maintenance, replacement, tapes for answering machine and monthly service charges (local and long distance) will not be measured but the cost will be incidental to the Contract lump sum price for the specific type of Engineers Office.

The computer system, including internet access, will not be measured but the cost will be incidental to the Contract price for the Engineers Office item. If an item for Engineers Office is not specified, the cost of the computer system will be incidental to the payment for Mobilization. In absence of either item, payment will be incidental to the other items specified in the Contract Documents.

CATEGORY 100
PRELIMINARY

DELETE SECTION 109 – FIXED PRICE CONTINGENT ITEMS in its entirety and **REPLACE** with the following:

SECTION 109 – FIXED PRICE CONTINGENT ITEMS

109.01 DESCRIPTION. To provide for certain contingencies during construction, some contracts include Fixed Price Items for use as the work proceeds. These items only apply when included in the proposal with prices established prior to bidding. Should any of these items not be included in the proposal as described above, they shall be addressed as described elsewhere in the Specifications and, if to be paid for, as bid by the Contractor.

Only those items listed below in Table 109.1 may be treated as Fixed Price Contingent Items, and then only if and as directed by the Engineer:

Table 109.1 Fixed Price Contingent Items

Code	Description	Unit of Measure	Fixed Price
109305	BORROW FOR BACKFILLING TRENCHES - PROPER DISPOSAL OF UNSUITABLE MATERIAL	CY	\$80.00
109205	CLASS 3 EXCAVATION/SELECT BACKFILL – PROPER DISPOSAL OF UNSUITABLE MATERIAL	CY	\$130.00
WRITE-IN	TEST PIT EXCAVATION (CONVENTIONAL)	CY	\$360.00
WRITE-IN	TEST PIT EXCAVATION (BY VACUUM)	CY	\$650.00
109405	MIX NO.1 CONCRETE	CY	\$450.00

109.02 MATERIALS. Not applicable.

109.03 CONSTRUCTION.

1. Borrow for Backfilling Trenches - Proper Disposal of Unsuitable Material: Material found to be unsuitable by the Engineer shall be disposed at a location as directed by the Engineer. See Section 203.
2. Class 3 Excavation/Select Backfill - Proper Disposal of Unsuitable Material: Material found to be unsuitable by the Engineer shall be disposed at a location as directed by the Engineer. See Sections 301 and 302.
3. Test Pit Excavation / Conventional Excavation Methods: See Section 205.

4. Test Pit Excavation By Vacuum: See Section 205.
5. Mix No.1 Concrete: This item covers the furnishing and placing of air-entrained concrete work as directed by the Engineer, and furnishing all labor, tools, equipment and appliances necessary to complete the work as directed by the Engineer. See Sections 405, 414, and 902.

109.04 MEASUREMENT AND PAYMENT.

1. ***Borrow for Backfilling Trenches - Proper Disposal of Unsuitable Material:*** Payment for furnishing suitable backfill shall be in accordance with the stipulated price per cubic yard in place and compacted. Price is full compensation for excavating, hauling, depositing and compaction of material and disposal of unsuitable material on-site or offsite. Payment shall not be made for suitable backfill material placed outside of specified trench widths.
2. ***Class 3 Excavation / Select Backfill - Proper Disposal of Unsuitable Material:*** Payment for furnishing select backfill shall be in accordance with the stipulated price per cubic yard in place and compacted. Price shall include disposal of unsuitable material on-site or offsite. Payment shall not be made for select backfill material placed outside of specified trench widths.
3. ***Test Pit Excavation / Conventional Excavation Methods:*** Test Pit Excavation performed by conventional (non-vacuum) excavation equipment will be measured and paid for at the contract unit price per cubic yard for the material actually removed from within the limits specified. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to complete the work. Tamped backfill will not be measured but the cost will be incidental to the Contract unit price per cubic yard for ***Test Pit Excavation / Conventional Excavation Methods***. Any pavement to be replaced will be paid for as specified in Section 106.
4. ***Test Pit Excavation By Vacuum (no depth constraint):*** Test Pit Excavation performed by vacuum excavation equipment will be measured and paid for at the contract unit price per cubic yard excavated by this method. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to complete the work.
5. ***Mix No. 1 Concrete:***
 - A. Price per Cubic Yard:

Payment for furnishing and placing air-entrained concrete work in roads, paving, curbs, gutters, footways, etc., if and as directed, is made at the stipulated price per cubic yard. This price includes furnishing and placing air-entrained concrete work as required and furnishing all labor, tools, equipment and appliances necessary to complete the work as shown, specified and directed.
 - B. Paving Beyond Limits:

Payment is not made for replacing paving beyond limits shown in the Standard Detail Plates. Payment is never made for replacement of damaged paving when the damage is due, in any way, to the Contractor's fault or negligence.

Note: Referring to all test pit excavation fixed price contingent items, test pits shall be limited to: contract tie-in locations, utilities not shown on the Contract Drawings, locations identified by the Contract Documents, and locations as directed by the Engineer. Test pits performed by the Contractor: to identify the location of sewer house connections, water services, water service reconnections, utilities (including buttresses), test stations, gas service lines, traffic signal appurtenances, pilings, or miscellaneous structures; or to identify pavement or subsurface composition; shall not be measured but shall be considered incidental to the Contract.

CATEGORY 200
GRADING

SECTION 205 – TEST PIT EXCAVATION

205.04 MEASUREMENT AND PAYMENT.

INSERT: The following after the first paragraph:

Test Pit Excavation (By Vacuum) will be measured and paid for at the fixed Contract unit price per cubic yard. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to complete the work. Tamped backfill will not be measured but the cost will be incidental to the Contract unit price per each Test Pit excavated. The excavation will be allowed to be left open and plated for up to five (5) days where it is deemed safe by the engineer. Any pavement to be replaced will be paid for as specified in Section 106.

CATEGORY 300
DRAINAGE

SECTION 302 – SELECTED BACKFILL

302.04 MEASUREMENT AND PAYMENT.

DELETE: The last sentence in the paragraph and **REPLACE** with the Following:

Geotextile fabric for each type will be measured in square yards complete in-place. Overlaps and seams will not be measured for separate payment. The accepted quantity of geotextile will be paid for at the contract unit price per square yard, which price shall be full compensation for furnishing, placing, lapping, or seaming material and for all materials, labor, tools, equipment, and incidentals necessary to complete the work.

SECTION 308 – EROSION AND SEDIMENT CONTROL

308.04 MEASUREMENT AND PAYMENT.

DELETE: Item 308.04.17 Silt Fence and **REPLACE** with the following:

308.04.17 Silt Fence

Measurement: The quantity of silt fence to be paid for shall be the actual number of linear feet of silt fence, measured in place from end post to end post of each separate installation. The silt fence must be complete and accepted.

Payment: Silt fence will be paid for at the Contract Unit Price bid per linear foot. Payment will be full compensation for but not limited to the following:

- Furnishing materials;
- Erecting and maintaining the fence;
- Removing accumulated silt;
- Dressing and grassing,
- Removing the fence.

Payment for Silt Fence shall be made as follows:

- Seventy-five percent of the Contract Price bid per linear foot shall be paid when each fence is complete in place.
- Twenty-five percent shall be paid at removal. If the silt fence must be repaired or removed before the end of the work, Contractor shall perform the work at no additional cost to the County.

**CATEGORY 600
SHOULDERS**

**SECTION 609 – CURB, COMBINATION CURB AND GUTTER, AND MONOLITHIC
MEDIAN**

609.04 MEASUREMENT AND PAYMENT.

INSERT: The following:

609.04.06 Removal and Replacement of Existing Curb and Gutter will be measured per linear foot along the face of the curb for the entire length of the work including portion of curb shaped for handicap ramps and through driveways.

Payment: Removal and Replacement of Existing Curb and Gutter will be paid for at the contract unit price bid per linear foot. This price shall include all labor, equipment, and material for excavation, removal, and disposal of existing concrete, backfilling, stone bedding, expansion material, formwork, finishing, curing, etc. for a complete in place installation and installed at the locations as shown on Standard Plates R-20A, R-20B, R-21 and/or as directed by the County Engineer.

CATEGORY 600
SHOULDERS

SECTION 610 – SIDEWALKS

610.04 MEASUREMENT AND PAYMENT.

INSERT: The following:

610.04.05 Measurement: Removal and Replacement of concrete driveways, entrances, and sidewalks will be measured in square feet of finished concrete. Driveways formed in conjunction with standard curb, and curb and gutter, shall be measured in square feet as follows:

- 1) In length from face to face of the curb at the back edge of the driveway.
- 2) In width from the back edge of the driveway to the back edge of the curb extended.

Payment: Removal and Replacement of concrete driveways, entrances, and sidewalk, will be paid for at the contract unit price bid per square yard. This price shall include all labor, equipment, and material for excavation, removal, and disposal of existing concrete, backfilling, stone bedding, expansion material, formwork, finishing, curing, etc. for a complete in place installation as shown in Standard Plates R-15, R15A, R-15B, R-19, and installed at the locations as shown on the construction drawings and/or as directed by the County Engineer.

CATEGORY 900
MATERIALS
SECTION 905 - PIPE

The manufacturer shall furnish certification for all pipe as specified in GP-1.05.

MATERIAL	USE	SPECIFICATION	REMARKS
Ductile Iron Pipe (Note 1)	Sewer Pressure Pressure All	AWWA C 150 and C 151 AWWA C 150 and C 151 AWWA C 115 AWWA C 110 and C 153	Gravity Sewer Class 52 Water Transmission & Sewer Force Main, Class 54, Restrained Joint Pipe and Fittings. Flanged pipe, thickness corresponding to Class 54 Fittings; Restrained Joint Pipe and Fittings
Concrete Pipe			
- Bar Wrapped Concrete Pipe (BWP)	Water	AWWA C 303	Restrained Joint Pipe and Fittings. See Note 2
- Prestressed Pressure Pipe, Steel Cylinder Type (PCCP)	Water & Sewer	AWWA C 301, C 304	Restrained Joint Pipe and Fittings. See Note 3
- Drain Tile	Drainage	M 178	-
- Nonreinforced	Drainage	M 86, Class 3	-
- Reinforced Circular	Drainage & Sewer	M 170, Class IV & V	M 170 Load Bearing Option
- Reinforced Arch	Drainage	M 206	-
- Reinforced Elliptical	Drainage	M 207	M 207 Load Bearing Option Class HE IV
- Low Head Pressure	Drainage	ASTM C 361	-
- End Sections	Drainage	M 170	Class III Pipe Reinforcement Required
Polyethylene Pipe			
- Corrugated Pipe	Drainage	M 294	15" to 24" I.D. (Note 4)
- Corrugated Drainage Pipe	Drainage	M 252	Perforated Underdrain & UD outlet pipes – Type S. Minimum pipe stiffness 50 psi (Note 5)
Polyvinyl Chloride (PVC) Pipe			
(PVC) Pipe	Drainage	M 278	Underdrain Outlet Pipes, Perforated UD (Note 5)
(PVC) Sewer Pipe	Sewer	AASHTO Bridge Sec. 18 PVC Ribbed Pipe	24" or smaller
(PVC) Sewer Pipe	Sewer	ASTM D 3034 SDR35 (4"-15") ASTM F 794 (8"-30"), Open or Dual Wall, Series 46 ASTM F 679 (18"-24")	Jointing: ASTM D 3212 "Push-On" Joints using Locked-in Elastomeric Seal. Joints using Locked-in Elastomeric Seal.
(PVC) Sewer Pipe	Sewer	ASTM D 1785 Sch 40 or 80 ASTM D 2241, D 3139 SDR21	Pressure Sewer (less than 2" dia.) Pressure Sewer (2" or larger dia.)
Preformed Rubber	Drainage	C 990	Joint for Circular Pipe

MATERIAL	USE	SPECIFICATION	REMARKS
Corrugated Steel Pipe, Pipe Arches & Underdrain	Drainage	M 36	For repair & with prior DPW approval only.
Structural Plate Pipe, Pipe-Arches & Arches	Drainage	M 167	NOT USED
Polymer Pre-Coated Corrugated Steel Pipe	Drainage	M 245 & M 246	NOT USED
Corrugated Aluminum Alloy Pipe	Drainage	M 196	NOT USED
Copper Pipe	Water	ASTM B-88	Water service- Type K required.

Note 1 – Pressure rating through 24”: 350 psi. Pressure rating 30”-48”: 300 psi

Note 2 – Detailed drawings and schedules per AWWA C301 Sec 4.3.1 and Affidavit of Compliance per AWWA C301, section 6.3 to be submitted.

Note 3 – Not permitted for sizes greater than 24” diameter.

Note 4 – Underdrain perforations shall conform to F 758.

- 905.01.01 N/A
- 905.01.02 N/A
- 905.01.03 N/A
- 905.01.04 N/A
- 905.01.05 N/A
- 905.01.06 N/A
- 905.01.07 N/A
- 905.01.08 N/A
- 905.01.09 N/A
- 905.01.10 N/A
- 905.01.11 N/A
- 905.01.12 N/A
- 905.01.13 N/A

905.01.14 Marking Ductile Iron Pipe. The weight, class or nominal thickness, and casting period shall be shown on each pipe. The manufacturer's mark, country where cast, year in which the pipe was produced, and the letters "DI" or "DUCTILE" shall be cast or metal stamped on the pipe, and letters and numerals on pipe sizes 14 inches and larger shall be not less than ½ inch in height. When required in the contract documents, initials not exceeding four in number shall be cast or stamped on the pipe. All required markings shall be clear and legible, and cast or metal stamped marks shall be on or near the bell.

When zinc-coated pipe is specified in the Contract Documents, manufacturer’s name shall be marked in the approximate middle of the barrel followed by the word “Zinc” with a 2-inch wide circumferential band of silver / gray-toned coating applied approximately 2 inches on both sides of that marking.

In addition to the requirements mentioned above, all "gauged full length" ductile iron pipe shall be clearly marked as such on the pipe exterior at both the bell and spigot ends, with waterproof lettering of two inch (2") minimum height.

905.01.15 Packaging & Package Marking - Copper Pipe. Each shipping unit shall be legibly marked with the purchase order number, metal or alloy designation, temper, size, total length or piece count or both, and name of supplier. The specification number shall be shown, when specified.

The name or trademark of the manufacturer and the mark indicative of the type shall be permanently (incised) marked on each tube at intervals not greater than 1 ½ feet. Tube in straight lengths shall be further identified throughout its length by means of a continuous colored stripe, symbol, or logo not less than 3/16 inch in height, including a legend repeated at intervals not greater than 3 feet. The legend shall include the type of the tube, name or trademark of the manufacturer or both, and the country of origin. Other information may be included at the option of the manufacturer.

Type K copper tubing shall have a green color stripe. Such color marking is not applicable to tube furnished in annealed straight lengths or coils.

905.01.16 N/A

905.02 Ductile Iron Pipe and Fittings - Water Mains

905.02.01 Pipe

(a) Pipe shall conform to the City of Baltimore Department of Public Works Specifications for Materials, Highways, Bridges, Utilities, and Incidental Structures, dated 2006 (and subsequent amendments) except as modified herein. Pipe shall be in accordance with all the requirements of ANSI/AWWA C151/A21.51 except that the metal thickness shall be as tabulated herein or increased as required. Pipe nominal lengths shall be 18 or 20 feet.

(b) Thickness Determination

For ductile iron pipe furnished by the Contractor, the following table shall be used:

Size	Thickness Class	Wall Thickness (inches)	Outside Diameter (inches)	Working Water Pressure, 5 Feet Cover, Laying Condition B**
3 in.	54	.34	3.96	350 psi
4 in.	54*	.35	4.80	350 psi
6 in.	54*	.37	6.90	350 psi
8 in.	54*	.39	9.05	350 psi
10 in.	54*	.41	11.10	350 psi
12 in.	54*	.43	13.20	350 psi
16 in.	54*	.46	17.40	350 psi
20 in.	54*	.48	21.60	350 psi
24 in.	54*	.50	25.80	350 psi
30 in.	54	.55	32.00	300 psi
36 in.	54	.63	38.30	300 psi
42 in.	54	.71	44.50	300 psi
48 in.	54	.79	50.80	300 psi

* For 4-inch to 24-inch pipe requiring grooved joints, pipe furnished shall be Thickness Class 56.
** Laying Condition B is defined as pipe laid on flat-bottom trench, backfill tamped.

- (c) All pipe and fittings shall be designed and constructed to withstand all external pressure caused by overburden indicated on the profile, traffic loads or any other loads to which the pipe may be subjected. Thickness shall be increased if required due to a change in laying condition or due to excessive cover. Design thickness shall be determined from ANSI/AWWA C150/A21.50; however, in no case shall wall thickness furnished be less than required in the table above.
 - (d) All pipe and fittings 16-inches in diameter or larger (except insulating flanges) shall have joints electrically bonded utilizing a minimum of two (2) bond wires across each joint. In addition, pipe and fittings less than 16-inch in diameter shall have joints electrically bonded where required by individual Contract Documents.
 - (e) Unless indicated otherwise by individual Contract Documents, for the following lengths of each pipe diameter required per Contract, furnish “gauged full length” pipe in the following minimum quantities:
 - 2 – 200 ft.: furnish one (1) length “gauged full length” pipe
 - 201 – 1333 ft.: furnish two (2) lengths “gauged full length” pipe
 - over 1333 ft.: furnish three-percent (3%) of pipe as “gauged full length” pipe, rounded up to next whole length
- “Gauged full length” pipe shall be utilized where it is known that field cuts will be required.
- (f) All pipe and fittings shall be furnished complete with all joining materials.

905.02.02 Fittings

All fittings shall be in accordance with the latest standards of the Baltimore City Water and Wastewater Engineering Division and with ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53. They shall be designed and constructed to withstand a pressure not less than that for the adjacent pipe. Gray iron fittings may be substituted if ductile iron fittings are not available. Fittings 24 inches and smaller shall have a pressure rating of 350 psi. Fittings 30 inches to 48 inches shall have a pressure rating of 250 psi. Consult the Engineer for acceptable pressure ratings for fittings greater than 48 inches.

905.02.03 Lining and Coating

(a) General Pipe and Fittings.

All general pipe and fittings shall be cement-lined, double thickness. This lining shall be sealed with a bituminous seal coat.

The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc applied shall be 200 g/m² of pipe surface area. A finishing bituminous topcoat shall be applied to the zinc. The mean dry film thickness of the

finishing layer shall not be less than 3 mils with a local minimum not less than 2 mils. The zinc coating system shall conform to ISO 8179-1 "Ductile iron pipes – External zinc-based coating – Part 1: Metallic zinc with finishing layer. Second edition 2004-06-01."

Fittings shall be either provided with a Zinc based primer coat that contains a minimum of 85% zinc by weight with bituminous topcoat, or a fusion-bonded epoxy coating on all interior and exterior surfaces (minimum 3 mils).

Fusion-bonded epoxy coatings shall be in accordance with ANSI/AWWA C116/A21.16 and shall be six to eight mil (6-8) in thickness, or as recommended by the manufacturer of the fitting.

Approved zinc paint product:

- Sherwin Williams Corothane I Galvapac 1K Zinc Primer.
- Approved equal.

Cement lining and seal coat shall be in accordance with ANSI/AWWA C104/A21.4. Outside bituminous coating shall be in accordance with ANSI/AWWA C151/A21.51.

(b) Miscellaneous Fittings.

Miscellaneous fittings such as sleeves shall be furnished with a fusion-bonded epoxy coating on all interior and exterior surfaces. Fusion-bonded epoxy coatings shall be in accordance with ANSI/AWWA C116/A21.16 and shall be six to eight mil (6-8) in thickness, or as recommended by the manufacturer of the fitting.

905.02.04 Joints, Non-Restrained

Pipes shall have mechanical joints or rubber gasket push-type joints. Fittings shall have mechanical joints only. All joints shall be in accordance with ANSI/AWWA C111/A21.11.

The maximum permissible deflection for pipelines 4 inches to 24 inches in diameter is given on Detail Plate W-7 of the Standard Details for Construction.

905.02.05 Joints, Restrained

(a) Restrained joints shall be used in those sections shown on the contract drawings or shown in the Standard Details for Construction. Only those listed in the approved Source of Supply or approved by the Engineer shall be used. In cases where approval is required, the Contractor shall submit to the Engineer five (5) copies of the catalog cut along with pull-out strength data. If the Contractor requests restrained joints in lieu of another type of restraint system, he shall submit calculations for the restrained length of pipe in accordance with the guidelines set forth by DIPRA (Ductile Iron Pipe Research Association).

(b) Restrained fittings shall have mechanical joint bells only.

(c) Joint Type and Applications

TABLE 905.02.05 Restrained Joints				
Type	Material	Restrain Mechanism	Working Pressure	Uses And Restrictions
Set Screw Retainer Glands	A-536 Ductile Iron	Hardened Steel Set Screws with knurled and cupped points and torque-limiting twist off nuts		<ol style="list-style-type: none"> 1. Split ring retaining glands not for use on new construction. 2. Not for connection of DIP to existing CIP 3. Use only in areas of no settlement. 4. Use only at pipe or fittings installed \leq 160 feet.
Wedge Action Retainer Glands	A-536 Ductile Iron	Ductile Iron Wedges with heat treated set screws with torque limiting twist off nuts. Restrain mechanism places multiple wedging action against pipe.	4"-16" Pipe: 350psi 20"-48" Pipe: 250psi 2:1 safety factor	<ol style="list-style-type: none"> 1. Used to retain plain end DIP to pipe or fittings with mechanical joint bells per ANSI/AWWA C111/A21.11 2. Joint flexibility to be retained following burial. 3. May be used on CIP if sound & of same outer diameter as DIP. 4. Split ring retaining glands not for use on new construction. 5. Approve for use when: <ol style="list-style-type: none"> a. Straight pipe \leq 160 feet with areas of no settlement. b. Fittings: inflexible (no settlement) or Semi-flexible (fill or bad soils).
Push-Type with Welded-On Lock Rings		Integral cast restraint joint bell, a spigot end with factory welded alloy steel lock ring & proprietary ductile iron restraining ring or locking segments.	4"-16" Pipe: 350psi 20"-48" Pipe: 250psi > 48" Pipe : Consult Engineer	<ol style="list-style-type: none"> 1. Used for positive locking of joints on straight pipe. 2. Field-welded steel lock rings are not permitted. 3. Approved for use on straight pipe, short or long runs, inflexible or semi-flexible conditions.
Push-Type with Integral Restraint Gaskets		Boltless restrained joint system for use with conventional push-on joint pipe. Locking segments to be vulcanized into rubber gasket & shall be of corrosion resistant hardened stainless steel.	350psi 2:1 safety factor	<ol style="list-style-type: none"> 1. Not for use with cast iron pipe (CIP) 2. Gasket from disassembled joint shall not be reinstalled. Use new gasket. 3. Approved for use only on straight pipe, short or long runs, in areas of little or no settlement (non-fill areas only)

905.02.06 Couplings

- (a) All couplings shall be manufactured in accordance with AWWA C219, Bolted, Sleeve-Type Couplings for Plain-End Pipe, except as modified by these Standard Specifications.
- (b) These Standard Specifications cover coupling sizes 4-inches through 24-inches. Consult the Design Division of the Bureau of Engineering and Construction for couplings with a diameter greater than 24 inches.
- (c) All couplings shall be rated for a minimum working pressure of 230 psig and shall be rated for a minimum test pressure of 345 psig.
- (d) Couplings shall be manufactured from carbon steel, stainless steel, or ductile iron and are intended for use in potable water systems only.
- (e) All nuts and bolts shall be either high strength low alloy steel with a baked-on

fluoropolymer coating containing PTFE, or zinc-plated high strength low alloy steel with a Xylan 1424 (PTFE) coating. ANSI 304 stainless steel bolts and tie rods with ANSI 316 stainless steel nuts is optional. Bolts and nuts shall be a minimum 0.50-inch diameter in size.

- (f) Gaskets shall be of the hydraulically assisted type, compounded with an EPDM material, suitable for potable water. Gaskets shall be molded as an integral component of the coupling and shall be circumferentially ribbed to prevent "roll over" and to ensure a watertight seal on any combination of new, pitted, or corroded pipe surfaces.
- (g) Couplings shall be coated both internally and externally with NSF-61 approved fusion-bonded epoxy coatings, or Rilsan nylon, conforming to AWWA C116 (for ductile iron) or AWWA C213 (for carbon steel).
- (h) All couplings shall be of the "stab-fit" design without the need to dismantle the coupling.
- (i) Shop drawings shall be submitted to the Engineer for approval and shall include the following: dimensions, manufacturer's name and model number, weight, working and test pressure ratings, and installation instructions.

Where couplings are used to connect new ductile iron pipe to existing pipe, the Contractor shall be responsible for verifying the outer diameter of the existing pipe before ordering to ensure the proper size coupling is provided.

905.02.07 Accessories

(a) Tie Rods, Nuts, and Bolts

1. Rods for tie rod assemblies shall meet the material requirements of ASTM A193, Grade B7, and shall be threaded for at least eight inches (8") on both ends. Rods shall be three-quarters of an inch (3/4") in diameter unless otherwise noted. Nuts shall meet the requirements of ASTM A194, Grade 2H. Manufactured tie rods and appurtenances shall result in the completed restrained joint assembly having a minimum working pressure rating of two hundred (200) psi.
2. Bolts and studs for strapping and harnessed joints shall be minimum three-quarters of an inch (3/4") in diameter and shall meet requirements of ASTM A307.
3. Shapes, plates, and bars for strapping and harnessed joints shall meet requirements of ASTM A588.
4. All nuts and bolts and harness tie rods shall be either high strength low alloy steel with a baked-on fluoropolymer coating containing PTFE, or zinc-plated high strength low alloy steel with a Xylan 1424 (PTFE) coating.
 - Optional: ANSI 304 stainless steel bolts and tie rods with ANSI 316 stainless steel nuts
5. T-head bolts, harness tie rods, coupling bolts, flanged joint bolts, etc. shall be designed to provide at least one (1) complete thread projecting beyond the nut when properly tightened. Any such threaded unit that fails to meet this requirement shall be replaced at no additional cost to Baltimore County.

NOTE: Tie rod assemblies are no longer acceptable for use at fire hydrant settings.

(b) Wire For Bonded Joints

1. Wire for bonded joints shall be single conductor, stranded copper with high molecular weight polyethylene (HMWPE) insulation (black).
2. Wire size shall be AWG No. 2 for piping and fittings larger than thirty-six inches (36") in diameter, AWG No. 4 for piping and fittings sixteen inches (16") to thirty-six inches (36") in diameter, and (where required) AWG No. 6 for piping and fittings twelve inches (12") in diameter and smaller.

905.06 Polyethylene Encasement for Ductile Iron Pipe

905.06.01 General: Polyethylene encasement for use with ductile iron pipe shall meet all the requirements for ANSI/AWWA C105/A21.5, *Polyethylene Encasement for Ductile Iron Pipe Systems*. Additionally, polyethylene encasement for use with ductile iron pipe systems shall consist of three layers of co-extruded Linear Low Density Polyethylene (LLDPE), fused into a single thickness of not less than eight (8) mils.

The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of antimicrobial biocide to mitigate microbiologically influenced corrosion and a volatile corrosion inhibitor to control galvanic corrosion.

905.06.02 Installation: Polyethylene Ductile iron pipe and the polyethylene encasement used to protect it shall be installed in accordance with AWWA C600 and ANSI/AWWA C105/A21.5 and also in accordance with all recommendations and practices of the AWWA M41, Manual of Water Supply Practices – Ductile Iron Pipe and Fittings. Specifically, the wrap shall be overlapped one foot in each direction at joints and secured in place around the pipe, and any wrap at tap locations shall be taped tightly prior to tapping and inspected for any needed repairs following the tap. The Contractor shall comply with the MODIFIED METHOD A - "Wet Trench Conditions" requirements for installation.

All installations shall be carried out by personnel trained and equipped to meet these various requirements.

The installing contractor shall submit an affidavit stating compliance with the requirements and practices of ANSI/AWWA C150/A21.50, ANSI/AWWA C151/A21.51, ANSI/AWWA C105/A21.5, AWWA C600 and M41.

905.07 Fire Hydrants, Water Valves, Meters and Appurtenances

905.07.01 General: All water meter settings, corporation stops, service saddles, fittings of 2" diameter or less and miscellaneous appurtenances of 2" diameter or less shall be "lead-free" as defined in Code of Maryland Regulation (COMAR) 09.20.01.03.

905.07.02 Fire Hydrants:

(a) Approved Models: Only fire hydrants approved by Baltimore City Department of Public Works are accepted.

(b) Hydrant Design: Hydrant barrel shall be a traffic model made in two sections with the flange or adjusting feature located approximately 2 inches above the ground line. The main

valve stem shall be made in two sections with a breakaway coupling. There shall be a minimum of eight nuts and bolts connecting the upper barrel and the lower barrel at the traffic/safety flange.

- (c) **Operating Nut and Cap Nuts:** Operating nuts shall be pentagonally shaped, measuring 1-7/16 inches from the point to the flat on the top surface. To open the hydrant, the nut shall turn counter-clockwise. The direction of the opening shall be shown on the bonnet with a raised arrow.
- (d) **Elbow:** The elbow shall be ductile iron or cast iron ASTM A-126, Class B, standard 6-inch mechanical joint on the inlet end and a flanged connection on the standpipe end.
- (e) **Lower Standpipe:** Lower standpipe shall be made of ductile iron or cast iron ASTM A-126, Class B.
- (f) **Hose Connections:** There shall be one 4.5-inch pumper connection with Baltimore City Standard Threads as shown on Standard Water Detail Plate W-3B and two 2.5- inch hose connections with National Standard Threads.
- (g) **Valve Opening:** The main valve opening of the hydrant shall be not less than 5.25 inches.
- (h) **Bury:** The depth of bury is defined as the distance measured from the base of the elbow to the ground line (bury line) set by the manufacturer. Hydrants shall be furnished to a 5-foot bury unless noted otherwise on the Contract Plans.
- (i) **Manufacturer's origin** shall be cast into the bonnet or upper barrel of the fire hydrant.
- (j) **Coating Requirements:** All fire hydrants to be incorporated into the Metropolitan Water System in Baltimore County shall be furnished with one of the following coating systems:

Fire Hydrant Coating Systems			
	System 1	System 2	System 3
Exterior Ferrous, Above Bury Line			
Primer	High-build Epoxy, 1 coat @ 4.0 - 6.0 mils dft	Electro-deposition (E-coat) Epoxy, 1 coat @ 0.5 – 1.0 mils dft	Heat-fused powder Epoxy, 1 coat @ 5.0 - 6.0 mils dft
Top Coat	Polyurethane enamel, 2 coats @ 1.2 – 2.0 mils dft per coat	Two-component (2K) aliphatic polyurethane, 1 coat at 1.5 – 3.0 mils dft	Heat-fused powder polyester, 1 coat @ 6.0 mils dft
Total Minimum dft	6.4 - 10.0 mils	2.5 mils	11.0 mils
Top Coat Color	Caution Orange	Caution Orange	Caution Orange

Exterior Ferrous, Below Bury Line			
Primer	N/A	Asphalt, 1 coat @1.5 – 3.0 mils dft	Asphalt, 1 coat @1.0 – 3.0 mils dft
Top Coat	High-build Epoxy, 1 coat @ 4.0 - 6.0 mils dft	Asphalt, 1 coat @1.5 – 3.0 mils dft	Asphalt, 1 coat @1.0 – 3.0 mils dft
Total Minimum dft	4.0 – 6.0 mils	2.0 mils	2.0 mils
Interior Ferrous, Elbow (Shoe), & Bottom Plate			
Primer	High-build Epoxy, NSF 61 & AWWA C550 certified, 1 coat @ 4.0 - 6.0 mils dft	Fusion bonded powder Epoxy, NSF 61 & AWWA C550 certified, 1 coat @ 4.0 – 12.0 mils dft	Heat-fused powder Epoxy, NSF 61 & AWWA C550 certified, 1 coat @ 8.0 – 10.0 mils dft
Top Coat	High-build Epoxy, NSF 61 & AWWA C550 certified, 1 coat @ 4.0 - 6.0 mils dft		
Total Minimum dft	8.0 - 12.0 mils		

Surface Preparation: Prepare surfaces to be coated with near white metal blast cleaning in accordance with NACE No.2/SSPC-SP10.

(k) Testing: All fire hydrants shall be shop tested in accordance with AWWA Specification C502.

(l) Certificate of Compliance:

1. The manufacturer shall provide an affidavit certifying that all fire hydrants comply with the construction requirements of Baltimore City and that all fire hydrants comply with the coating requirements of Baltimore County (note: affidavit to indicate Coating System No. furnished).
2. Submit certifications of compliance to the Engineer before delivery of fire hydrants.

(m) Hydrant Tee: To facilitate vertical setting of hydrant valve and hydrant in sloping terrain, or to facilitate installation where a compact installation is either required or preferred, hydrant isolation gate valve (MJxMJ) may be close-coupled to service main utilizing a hydrant tee. Hydrant tee shall be ductile iron compact fitting rated for 350 psi working pressure and shall be manufactured in accordance with AWWA C153. Hydrant tee lining shall be NSF61 certified. Branch end of hydrant tee shall be plain end with ductile iron rotatable (swivel) mechanical joint gland.

905.07.03 Water Valves and Tapping Sleeves

(a) Requirements: Valves and appurtenances shall conform to the specifications and requirements of the Department of Public Works of Baltimore City except as modified herein.

Water Valves		
	Resilient Seat Gate Valves	Rubber-Seated Butterfly Valves**
Applicable Valve Sizes	4" – 24" Diameter	30" – 72" Diameter
Rating	250 psig working pressure	250 psig differential operating pressure
Installation	16" – 24" diameter shall be installed with valve bonnet oriented horizontally or vertically per Contract Plans	Installation in Cast-In-Place vaults sized per plans. Provide one pipeline access assembly adjacent to butterfly valve for access to adjust valve seat. Provide valve overtorque protectors and valve actuators per Baltimore City requirements.
Operation	Clockwise turning to open.	Clockwise turning to open.
Valve gearing	Per Baltimore City requirements.	-
Handwheels / Operating Nuts	AWWA Operating Nuts EXCEPT: large meter setting valves (for meters 3" & above) dewatering valves manual air release valves. valves attached to companion flanges at pipeline access assemblies.	AWWA Operating Nuts
Use as Tapping Valves	Waterway inside diameter shall be ¼" greater than shell cutter. Consult Design Division of BCBECC for applications requiring gate valves in sizes larger than 24" diameter.	-
Bypass	Required only per specific Contract requirements.	-

**Field Certification: Following installation, butterfly valves and operators shall be furnished with a manufacturer's certificate stating that the valves and operators have been installed in accordance with the manufacturer's recommendations, that they have been adjusted and initially operated from the fully closed position to the fully open position and back (minimum of two full cycles) in the presence of the manufacturer's field representative, and that they are operating in accordance with the specific Contract requirements and these Standard Specifications. The manufacturer's field representative shall be a representative from the manufacturer's plant familiar with the actual problems of manufacturing, installing, adjusting, and operating the valves and operators with enough years of experience to determine the successful operation of the valves and operators. The cost for providing a manufacturer's certificate shall be included in the Contract price to provide the butterfly valves and operators.

(b) Joints: Approved joints for valves are as follows:

Approved Joints for Valves		
	Resilient Seat Gate Valves	Rubber-Seated Butterfly Valves
Flanged	ANSI B16.1 – Class 125#	ANSI B16.1 – Class 125# or Class 250# as approved by Engineer, all sizes
Mechanical Joint	AWWA C111	AWWA C111, size 30 inch through 48 inch only
Flanged x Mech. Joint	Tapping Valves Only	-

(c) Tapping Sleeves and Valves:

1. Tapping sleeves for cast iron or ductile iron pipe shall be either the ductile iron body, mechanical joint type; the stainless steel body, full circumferential band type; or the epoxy-coated fabricated steel type. Outlets shall be flanged, shall have recess dimensions in accordance with Manufacturer's Standardization Society Standard Practice SP-60, and shall be fully compatible with tapping valve. Tapping sleeves shall be furnished with a tapped outlet for testing, complete with 3/4-inch standard brass or Type 304 stainless steel square head closure plug.
2. Shop drawings shall be submitted to the Engineer for approval and shall include the following: dimensions, manufacturer's name and model number, weight, working and test pressure ratings, and installation instructions. Contractor shall be responsible for verifying the outer diameter of the pipe before ordering to ensure the proper size sleeve is provided.
3. Unless approved otherwise by the Engineer, gate valves used for tapping shall have flanged x mechanical joint end connections.
 - a. Ductile iron body mechanical joint tapping sleeves shall be rated for a working pressure of 200 psi. Bolts and nuts shall be high-strength, low-alloy steel per AWWA C111; gaskets shall be rubber. All parts in contact with potable water shall be NSF61 certified.
 - b. Stainless steel body full circumferential band tapping sleeves shall be rated for a working pressure of 150 psi. Body, flanged outlet, and flange shall be manufactured from Type 304 stainless steel. Bolts, nuts, and washers shall be manufactured from Type 304 stainless steel; bolts and nuts shall be coated to prevent galling. Sleeve outlet side and sleeve plain side shall be manufactured with triangular sidebars and joined using removable trackhead bolts; lifter bar style sleeves with studs are not acceptable. Gaskets shall be SBR or Buna-N, compounded for water service and shall be NSF61 certified. Body sleeve gasket shall provide full 360-degree contact with the pipe.
 - c. Epoxy-coated fabricated steel tapping sleeves shall be rated for a working pressure of 150 psi. Body, flanged outlet, and flange shall be manufactured from A-36 carbon steel. Bolts, nuts and washers shall be manufactured from Type 304 stainless steel. Bolts and nuts shall be coated to prevent galling. Sleeves shall be lined and coated with 8 to 12 mils fused epoxy. Gaskets shall be SBR or Buna-N, compounded for water service and shall be NSF 61 certified.

(d) Valve Appurtenances:

1. **Pitometer Corporations:** All in-line (non-tapping) gate valves, 16 inches in diameter or greater, and all butterfly valves shall have 1-inch diameter corporations installed on each side of the valve for use with pitometers. Corporations shall be ball valve type rated for 300 psig working pressure, shall have AWWA taper thread inlet, and shall have increased male iron pipe thread outlet with inside driving threads. Provide bronze threaded cap on outlet.

2. **Pipeline Monitoring Corporations:** All butterfly valves installed in conjunction with prestressed concrete cylinder pipe (PCCP) shall have 1.5-inch diameter corporations installed on each side of the valve for use with pipeline monitoring equipment.

Corporations shall be ball valve type rated for 300 psig working pressure and shall have an AWWA taper thread inlet with a male iron pipe thread outlet. Provide bronze threaded cap on outlet if corporation is not initially used for installation of pipeline monitoring equipment.

3. **Pipeline Access Assemblies:**

- a. All butterfly valve vaults shall be provided with pipeline assemblies that provide access for seat adjustment and pipeline maintenance/assessment. Pipeline access assemblies shall be installed immediately adjacent to the valve and shall include the following:

- 1) 24-inch flanged outlet tee, oriented vertically
- 2) 24" x 6" companion flange
- 3) Four ½-inch diameter steel bars welded at 90-degree intervals around the 24-inch flange
- 4) Two 5/8-inch diameter steel pulling irons installed on vault walls below top slab, centered over 24-inch flanged outlet
- 5) 6-inch resilient-seated gate valve, flanged by flanged with handwheel operator, mounted to companion flange for vertical (upward) flow through valve
- 6) 6-inch blind flange mounted to top end of resilient-seated gate valve, drilled and tapped for 1-inch diameter corporation. Provide 1-inch ball-type corporation rated for 300 psig with MNPT inlet and MNPT outlet
- 7) Two 1-inch diameter ball-type pitometer corporations and 1/8-bend couplings installed outboard of butterfly valve and outboard of 24-inch flanged outlet tee. See 905.07.03(d)1
- 8) 30-inch frame and cover with corresponding opening in top slab and brickwork, centered over flanged outlet.

- b. For pipeline access assemblies installed in conjunction with prestressed concrete cylinder pipe (PCCP), also provide two pipeline monitoring corporations as described in 905.07.03(d)2. The pipeline monitoring corporations shall be installed on flanged outlet tees to be provided and shall be placed outboard from all other appurtenances.

4. **Valve Extension Stem and Stem Guides:** Where the depth of a butterfly valve or gate valve (including bypass valve, if so equipped) is such that the operating nut is more than 5 feet below the valve cover surface, a valve extension stem shall be provided to bring the operating nut to a point within 18 inches (below) the valve cover surface.

- a. Valve extension stems shall be of a solid design (no intermediate couplings), 1.25-inch square or round, manufactured from galvanized Schedule 80 steel capable of transferring a torque of 450 foot-pounds without damage. A 2-inch female socket coupling shall be provided at the lower end of the stem, and the coupling shall be pinned to the valve operating nut. A 2-inch AWWA operating nut shall be provided at the upper end of the stem.

- b. Provide adjustable stem guides, with brackets, at 7-foot intervals along extension stems. Stem guides and brackets shall be manufactured from ductile iron. Guide blocks shall be bronze bushed where they come into contact with extension stems.
 - c. For applications where valve extension stems extend into or through valve vault top slabs, support extension stems at top slabs by providing alignment washers or bushing-type floor boxes installed integral with the top slabs.
5. **Special Castings:** Valve vaults, frames and covers or other special castings and other materials must be of the sizes, patterns, and materials shown on the Standard Details or as directed by the Engineer.

905.07.04 Water Meter Settings, Corporation Stops, and Service Saddles

(a) Water Meter Settings and Corporation Stops

Water Meter Settings & Corporation Stops			
	Standard Detail	Rating	Description
3/4" – 1" Supply Lines	W-21, W-22, W-23, W-31	300 psig	Corporation stops with flared copper coupling at main. Stop shall be ball-type corporation valve with an AWWA taper-thread inlet.
3/4" – 1" Supply Lines - connect to Blind Flange	W-28A, B	300 psig	Corporation stops shall be a ball-type corporation valve with a male iron pipe (MIP) thread inlet with flared copper coupling nut outlet. Eighth bend service fitting, female copper thread x flare copper may be utilized to facilitate installation in vault.
1 1/2" – 2" Supply Lines	W-24, 24A, W-25, 26, W-26A, W-32, 33	300 psig	Corporation stops shall be ball-type corporation valve with an AWWA taper-thread inlet with CTS (copper tube size) compression outlet.
1 1/2" – 2" Supply Lines - connect to Blind Flange	W-28A, B	300 psig	Corporation stops shall be a ball-type corporation valve with a male iron pipe (MIP) thread inlet with male iron pipe (MIP) thread outlet. Eighth bend service fitting, female copper thread x female copper thread may be utilized to facilitate vault installation. Provide appropriate 90 degree (ell) coupling to continue meter setting connection.

1. **Insulating Corporation Stops:** Insulating corporation stops for service connections 3/4-inch to 2 inches in diameter shall be provided where required by specific Contract requirements to prevent the flow of stray electrical currents.
 - a. Insulating corporation stop shall consist of a ball-type corporation with AWWA/CC

- taper thread inlet, inert service insulator, and either flare copper nut outlet (¾-inch and 1-inch) or CTS (copper tube size) compression outlet (1.5-inch and 2.0-inch).
- b. The nylon insulator shall have high dielectric, compressive, and impact strength. The insulator skirt shall be extra long to resist electrical bridging or shorting.
 - c. O-ring seal, when required by individual manufacturers, shall be retained in a groove to prevent O-ring loss if tailpiece (outlet) is removed.
 - d. Factory-assembled insulating corporation stop assemblies shall be furnished whenever possible.
2. **Meter Yokes (5/8-inch meters, ¾-inch meters, 1-inch meters):** Meter yokes shall conform to Baltimore City requirements. They shall be manufactured from cast iron and have a corrosion-resistant finish of either epoxy powder coating or black E-coating (Powercron 590). They shall be furnished with ends suitable to connect angle yoke ball valves and shall have support lips to hold water meter and expansion connection. NOTE: Expansion connection and water meter shall be furnished by Baltimore City.
- Meter yokes for twin meters shall be provided with a yoke bar spacer (tie bar) of appropriate length, firmly attached to each yoke bar.
3. **Meter Settings:** Meter settings can consist of either single-yoke meter settings (limited to 1.5-inch supply services), dual-yoke meter settings (limited to ¾-inch and 1-inch meters), or single-flanged meter settings (1.5-inch or 2-inch), as shown on **Standard Details W-24, W-24A, W-25, W-26, W-26A, W-31, W-32, W-33** or included, as appropriate, on **Standard Details W-28A and W-28B**.
- a. Meter settings shall be factory-assembled. Due to the number of fittings required and the use of soldered joints, field-assembled meter settings are not acceptable.
 - i. Factory-assembled meter settings require approval from the Design Division of the Bureau of Engineering & Construction.
 - ii. Factory-assembled meter settings shall be pressure tested to 150 psig.
 - iii. Soldered joints on factory-assembled meter settings shall be lead free.
 - b. All meter settings shall be furnished with horizontal inlet and outlet(s) equipped with FIP threads.
 - c. All inlet and outlet tees shall be furnished with brace eye supports. Inlet and outlet tees shall function as elbows; tees shall not be drilled for by-pass flow.
 - d. All single-yoke meter settings and all single-flanged meter settings shall be furnished with tie bar tube connecting closed (undrilled) port of inlet tee to closed (undrilled) port of outlet tee.
 - e. Tie bar tube shall connect to one (or both) tee(s) with a compression coupling.
 - f. Meter settings shall be constructed from "no-lead" brass and Type K copper tubing.
4. **Fittings:** Fittings shall be of the size and type shown on the Standard Details and in accordance with the following requirements:
- a. Connections to ¾-inch and 1-inch Copper Tubing:
 - i. All connections to terminal ends of ¾-inch and 1-inch copper tubing shall be

- made using flared connections; the use of sweated (soldered) joints to make connections on terminal ends of ¾-inch and 1-inch copper tubing is strictly prohibited.
- ii. Male iron pipe (MIP) thread copper connections for ¾-inch and 1-inch copper tubing shall be straight couplings, copper flare nut x MIP.
 - iii. MIP-thread copper connection to 1-inch tubing is required for connection to inlet and outlet of meter setting shown on Standard Detail W-31.
 - iv. Brass connection at service end of ¾-inch and 1-inch tubing shall be copper flare x FIP.
 - v. All service ends of ¾-inch and 1-inch copper tubing not immediately connected to house service shall be provided with brass or plastic plug (MIP thread) to prevent any foreign matter from entering into pipe.
 - vi. Couplings to join adjacent ends of ¾-inch copper tubing or to join adjacent ends of 1-inch copper tubing shall be three-part union, copper flare x copper flare.
- b. Connections to 1.5-inch and 2-inch Copper Tubing:
- i. All connections to terminal ends of 1.5-inch and 2-inch copper tubing shall be made using copper compression couplings. The use of either sweated (soldered) joints or flared joints to make connection on terminal ends of 1.5-inch and 2-inch copper tubing is strictly prohibited.
 - ii. Commercial copper compression couplings shall be as listed in the approved Source of Supply.
 - iii. Full-size, straight, copper compression coupling x MIP thread shall be used to connect 1.5-inch and 2-inch copper tubing to the following:
 - inlet and outlet of all meter settings shown on Standard Details **W- 24, W-24A, W-25, W-26, W-26A, W-32, and W-33**, or included as appropriate on **Standard Details W-28A and W-28B**.
 - threaded inlet of flanged meter ball valves (2-inch size) (for repairs to factory-assembled meter settings)
 - galvanized cap at service end
 - iv. All service ends of 1.5-inch and 2-inch copper tubing not immediately connected to house service shall be provided with galvanized cap (FIP thread) to prevent any foreign matter from entering the pipe.
 - v. Straight couplings to join adjacent ends of 1.5-inch copper tubing or to join adjacent ends of 2-inch copper tubing shall be copper compression x copper compression.
 - vi. 90-degree (ell) coupling, if required to join right-angle ends of 1.5-inch copper tubing or to join right-angle ends of 2-inch copper tubing, shall be copper compression x copper compression.
 - vii. 90-degree (ell) couplings, if required to connect 1.5-inch copper tubing to an offset (right-angle) FIP-threaded fitting or to connect 2-inch copper tubing to an offset (right-angle) FIP-threaded fitting, shall be copper compression x MIP thread.
 - viii. 90-degree (ell) couplings, if required to connect 1.5-inch copper tubing to an offset (right-angle) MIP-threaded fitting or to connect 2-inch copper tubing to an offset (right-angle) MIP-threaded fitting, shall be copper compression x FIP

- thread.
- ix. Straight coupling, if required to connect 1.5-inch copper tubing to a 1-inch angle-yoke ball valve shall be reduced-size copper compression x MIP thread.
 - c. U-Branch (Meter Spreader) Requirements for Twin Meters:
 - i. U-branch for twin 5/8-inch meters, as shown in **Standard Detail W-22**, shall be of “no lead” brass construction with 7.5-inch center-to-center spacing. Branch connection shall have 1-inch copper flare nut inlet and 3/4-inch MIP thread outlets.
 - ii. U-branch (or Y-branch) for twin 3/4-inch meters, as shown in **Standard Details W-31 and W-32**, shall be of “no lead” brass or Type K copper construction with 9.0-inch center-to-center spacing. Branch connection shall have 1.5-inch copper compression inlet and 1-inch MIP-thread outlets.
 - iii. U-branch (or Y-branch) for twin 1-inch meters, as shown in **Standard Detail W-33**, shall be of “no-lead” brass or Type K copper construction

5. Meter Vaults:

- a. Prefabricated meter vaults shall be of the size indicated on the Standard Details or as approved by the Design Division of the Bureau of Engineering and Construction.
- b. Prefabricated water meter vaults shall be furnished with a standard Meter Frame as shown in the Standard Details, and covers as detailed below:
 - i. Meter vault covers must be in compliance with the minimum structural, physical, and dimensional requirements as stated herein. The Contractor shall submit shop drawings for each size of the water meter vault lids and water vault lid frames for approval prior to ordering. After shop drawings are approved, the Contractor must also submit physical samples of the new water meter vault lid for each size for approval.
 - ii. Water meter vault lids shall be a molded reinforced composite polymer or plastic material, resistant to corrosive environments, non-rusting, nonconductive, lightweight, and allow automated meter reading signals (RF signals) to pass freely through the lid for data read and collection. Meter pit lids shall meet the following:
 - Black in color.
 - Have the words “WATER METER” molded into the lid with raised letters 1 3/4 inch, flat face gothic No. 3, 1/8 inch deep.
 - Have the manufacturer’s name and product number readily visible and molded into the lid.
 - Color stabilized and resistant to ultraviolet radiation, conforming to the testing performance criteria of ASTM G154-06, Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.
 - Resistant to water absorption and meeting the testing performance

- criteria of ASTM D570-98 (2010), Standard Test Method for Water Absorption of Plastics.
- Maintain all of their physical properties, without deformation or degradation, through a temperature range of -20 degrees to +160 degrees Fahrenheit.
 - Have a molded tread pattern for skid resistance designed to minimize accidental slip and fall occurrences and meet ADA (The American with Disabilities Act) requirements with a static coefficient of friction of 0.5 or greater when tested according to the testing performance criteria of ASTM C1028-07, Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
- iii. All 12-inch to 30-inch in diameter meter pit lids, shall be designated as AASHTO H-20 heavy duty suitable for fitting in 12-inch to 30-inch frames in accordance with Baltimore City Standards: BC 873.01 standard 12" meter frame, BC 875.01 standard 18" manhole frame, BC 876.01 standard 24" manhole frame, BC 877.01 standard 30" manhole frame. All the new Water Meter Vault lids 18" to 30" with padlock assembly locking mechanism and Water Meter Vault lids 12" with worm gear locking assembly mechanism will be compatible with, and fit securely with the existing frames. All the new Water Meter Vault lids 18" to 30" with worm gear assembly locking mechanism will be compatible with, and fit securely with the new matching frames to be supplied with the 18" to 30" Water Meter Vault lids.
- iv. All new water meter vault lids shall meet the following requirements:
- Minimum proof load test of 40,000 pounds applied using a 9 inch by 9 inch contact area at the lid center and held for a period of one minute. Reference Standard Specification AASHTO M 306-10.
 - a. For water meter vault lids 12 inches in diameter, where a 9 inch by 9 inch contact area would transfer load directly to the frame or other means of lid support, the test shall be performed using a 40,000 pound proof load concentrated on a smaller contact area.
 - For each nominal size and style of lid, the manufacturer shall submit a certified test report from an independent testing laboratory accredited by the American Association for Laboratory Accreditation, fully disclosing AASHTO M 306-10 test procedures and equipment used, and documenting a successful proof load test of 40,000 pounds. The test report shall be illustrated showing test plate, equipment used, and pictures of top and bottom of the lid.
 - a. Permanent deformation shall not exceed 1/8 inch, with no cracks in the lid. Permanent deformation exceeding 1/8 inch or the appearance of cracks shall be cause for rejection of the manufacturer's lids.

- Water meter vault lids shall have the designation H-20 molded into the lid.
- v. Water meter vault lids up to and including 15 inches in diameter subject to incidental or occasional vehicular traffic (non-heavy traffic areas) or areas not subject to vehicular traffic (driveways, sidewalks, lawns, etc.) shall be designated as medium duty and meet the following requirements:
 - Minimum proof load test of 20,000 pounds applied using a 9 inch by 9 inch contact area at the lid center and held for a period of one minute.
 - a. For water meter vault lids 12 inches in diameter, where a 9 inch by 9 inch contact area would transfer load directly to the frame or other means of lid support, the test shall be performed using a 20,000 pound proof load concentrated on a smaller contact area.
 - For each nominal size and style of lid, the manufacturer shall submit a certified test report from an independent testing laboratory accredited by the American Association for Laboratory Accreditation, fully disclosing test procedures and equipment used, and documenting a successful proof load test of 20,000 pounds. The test report shall be illustrated showing test plate, equipment used, and pictures of top and bottom of the lid.
 - a. Permanent deformation shall not exceed 1/8 inch, with no cracks in the lid. Permanent deformation exceeding 1/8 inch or the appearance of cracks shall be cause for rejection of the manufacturer's lids.
- vi. Water meter vault lids shall include a locking mechanism that will secure the lid in place within the existing frame. Locking mechanisms relying on springs are not acceptable.
 - Worm Gear Assembly Locking Mechanism: The lids shall be secured to the frames by means of a worm gear assembly. Locking mechanisms relying on springs are not acceptable. The worm shall be ductile iron, grade 65-45-12. The pentagon head of the bolt shall measure 27/32" from point to flat, for use with socket of a standard AWWA pentagon key. The top surface of each pentagon bolt shall have recessed arrows that allow the user to indicate the "locked" or "unlocked" position, corresponding to the marking on the top surface of the lid and paddle locks themselves. The shank of the pentagon bolt and the opening of the paddle shall be square to reduce localized stress on the bolt. The lock assemblies shall be retained with a stainless steel machine screw to facilitate field replacement. Swedging, pinning or peening of pentagon screw is not acceptable. To prevent elongation or excessive wear to the hole in the lid, the shank of the pentagon bolt shall not bear directly upon the plastic lid but shall be installed between the pentagon head of the locking bolt and the lid. The washer shall be red brass, UNS

C83600(B584).

- *Paddle Lock Assembly Locking Mechanism*: The lids shall be secured to the existing frame by means of two paddle lock assemblies. The top surface of the lid must have “locked” and “unlocked” markings that correspond with the position of the paddle locks. The paddles shall be ductile iron, grade 65-45-12. The pentagon locking bolts shall be machined from Manganese Bronze UNS C86400 (B584). The pentagon head of the bolt shall measure 27/32” from point to flat, for use with socket of a standard AWWA pentagon key. The top surface of each pentagon bolt shall have recessed arrows that allow the user to indicate the “locked” or “unlocked” position, corresponding to the marking on the top surface of the lid and paddle locks themselves. The shank of the pentagon bolt and the opening of the paddle shall be square to reduce localized stress on the bolt. The paddle lock assemblies shall be retained with a stainless steel machine screw to facilitate field replacement. Swedging, pinning or peening of pentagon screw is not acceptable. To prevent elongation or excessive wear to the hole in the lid, the shank of the pentagon bolt shall not bear directly upon the plastic lid but shall be installed between the pentagon head of the locking bolt and the lid. The washer shall be red brass, UNS C83600(B584).
 - All Water Meter Vault lids 18-inch to 30-inch in diameter with worm gear assembly shall be supplied with a matching frame.
- vii. Meter pit lids shall have non-metallic mounting brackets for radio transmitters. Mounting brackets can either be molded directly to the underside of the lid, or be post mounted to the underside of the lid. If post mounted, each post shall have a brass insert into which a stainless steel screw is threaded.
- The mounting brackets shall be capable of accepting 1 or 2 Itron 100W ERTs.
 - Lids shall be furnished with the quantity of brackets necessary for the number of radio transmitters required at each meter vault installation.
- viii. Meter pit lids are to be guaranteed for a period of one (1) year from date of shipment against all defects in workmanship and materials.
- Copies of the Warranty/Guarantee shall be furnished to the County by the Contractor.
 - Defective and unsuitable lids shall be rejected by the County at no cost to the County. The Contractor shall make good such defects in a manner satisfactory to the County.
- c. Meter vaults for housing (single or twin) 5/8-inch, ¾-inch, and 1-inch meters generally shall be constructed of pre-cast concrete. Subject to the approval of the Design Division of the Bureau of Engineering and Construction, meter vaults constructed from high-density polyethylene (HDPE) may be substituted for concrete meter vaults in non-traffic areas.

- i. Concrete meter vaults shall have materials, wall thickness, and reinforcement in accordance with AASHTO M-170.
- ii. HDPE meter vaults, when approved, shall be manufactured from heavy wall, high-density polyethylene, minimum nominal wall thickness of ½- inch, and shall be able to withstand a vertical freestanding load of 20,000 pounds. Meter vaults shall be of one-piece molded construction, shall have a top flange for frame and cover seating, and shall have a bottom flange for anti-settling at the base. Service Saddles for Tapping Pipe: Where shown on specific Standard Details, provide service saddles for tapping PCCP, ductile iron or cast iron pipe. Internal threads for connecting the corporation stop shall be AWWA standard threads (Type “CC”) per AWWA C 800.

(b) Service Saddles for Tapping Pipe: Where shown on specific Standard Details, provide service saddles for tapping PCCP, ductile iron or cast iron pipe. Internal threads for connecting the corporation stop shall be AWWA standard threads (Type “CC”) per AWWA C 800.

Service Saddles			
Purpose	Tapping ductile iron or cast iron pipe		Tapping PCCP
Body	Brass (alloy) Body	Ductile Iron Body: Four-bolt design with nylon or epoxy coating over entire body	Body and outlet: A 536 ductile iron, fusion epoxy coated.
Straps	Double flattened silicon bronze straps	Dual or single-wide Type 304 stainless steel band(s); welds treated for add'l. corrosion resistance	Type 304 stainless steel
Hardware	Nuts: brass alloy with integral washers	Nuts & washers: Type 304 stainless steel; coat bolts (studs) & nuts to prevent galling.	Washers: A 536 ductile iron; outlet bolts: corrosion resistant, hi-strength low alloy steel
Gasket	Buna-N rubber or equal, compounded for potable water	Buna-N or EPDM, NSF 61 certified, compounded for water service	Buna-N, NSF 61 certified, compounded for water service
Applicable Requirements	ANSI/AWWA C 800		
Working pressure	200 psig	200 psig	150 psig

905.07.05 Miscellaneous Appurtenances

(a) Corporation Stop in Air Release Valve Applications (Standard Detail W-8):

- 1. Corporations for connection to ductile iron pipe (sizes 4-inch to 30-inch) or PCCP (sizes 16-inch to 30-inch) shall be ball-valve type rated for 300 psig working pressure, shall have AWWA taper thread inlet, and shall have female iron pipe (FIP) thread outlet.
- 2. Corporations for connection to 4-inch and 6-inch blind flanges (pipe diameters 36

inches and larger) shall be ball-valve type rated for 300 psig working pressure, shall have male iron pipe (MIP) thread inlet, and shall have MIP thread outlet. Provide 1/8 bend coupling, FIP thread inlet x copper flare outlet, on end of corporation.

(b) Corporation Stop in Blow-Off Valve Applications (see Standard Detail W-11):

Corporations for connection to ductile iron pipe with diameters 4 inches to 12 inches shall be ball-valve type rated for 300 psig working pressure, shall have AWWA taper thread inlet, and shall have female iron pipe (FIP) thread outlet.

(c) Brass or Bronze Gate Valve with Handwheel shall be used in air release applications for 4-inch to 30-inch pipe (see **Standard Detail W-8**) and shall be used in blow-off applications for 4-inch to 12-inch pipe (see **Standard Detail W-11**). Gate valve shall be manufactured from heavy-duty brass or bronze, shall be rated for 200 psig working pressure, shall be fully ported with solid wedge disc, shall have FIP thread ends and non-rising stem, and shall be provided with iron or aluminum handwheel.

See appropriate **Standard Detail (W-8 or W-11)** for size requirements.

(d) Brass Pipe: Provide threaded seamless brass pipe, extra strong, of appropriate length and diameter, as required by **Standard Details W-8 and W-11**.

CATEGORY 1000
UTILITY CONSTRUCTION

SECTION 1001 – GENERAL REQUIREMENTS

DELETE 1001.03.04 Excavation in its entirety and **REPLACE** with the following:

1001.03.04 Excavation. Excavation shall be by open cut except where and to such extent the Engineer permits, authorizes or requires that the Contractor excavate by tunneling. No extra compensation is allowed for tunneling over the cost of open cut unless provided for in the bid item or negotiated by the Engineer. Generally, trenches may be excavated and refilled either by hand or by machinery as the Contractor chooses. However, the Contractor has no claim, and no extra compensation is allowed, if hand excavation or refilling is required to protect adjacent properties or improvements.

(a) Excavation of Trenches. Trench Requirements During Pipe Installation:

Prior to the start of trench excavation, the Contractor shall thoroughly familiarize himself with the latest OSHA requirements relating to the work specified.

Trenches for pipes or structures shall be excavated to the lines and grades or elevations shown on the plans or as directed by the Engineer. The width of trench in which pipe is placed shall be sufficient to permit thorough tamping/compaction of the backfill under the haunches and around the pipe. Bell holes shall be excavated in the bottoms and sides of trenches to permit the proper making of joints, without extra payment therefore. The sides of trenches shall be vertical to the top of the pipe and practically plumb above this point with the following exception: in unimproved areas and in proposed subdivision streets, unless otherwise noted, sloping or benching of sides of trenches shall be permitted in accordance with the latest OSHA requirements from a point one foot minimum above the top of the pipe for pipes greater than 24 inches and from a point 3 feet above pipe subgrade for pipes 24 inches or less in diameter. The maximum depth of sloping shall be 8 feet below existing trench ground surface. Sloping or benching will not be allowed in locations where it might affect the subgrade of existing utilities or proposed water lines. A minimum of 18 inches clearance shall be maintained between existing utilities and the sloped side of the excavation for the new utility. When conditions are encountered which, in the opinion of the Engineer, render it impracticable to slope or bench sides, then the sides of trenches shall be practically plumb as stated above. Payment limits for any additional excavation or backfill shall be based upon excavated trench width and shall not exceed the limits shown on Baltimore County's Standard Detail G-6, ***Trench and Trench Payment Width***.

All trench bracing or support systems shall comply with the latest requirements of the Maryland Occupational Safety and Health Administration (MOSHA) and the Federal Occupational Safety and Health Administration (OSHA).

- (1) **Single Tier Provision.** If the Contractor elects to use single-tier bracing (either solid sheeting or metal trenching box), applicable contract item payments are based on excavated trench width and shall not exceed the limits shown on Standard Details G-6 and G-7
- *Trench Width plus 2 feet,*
 - *Crusher Run Paving Width plus 2 feet, and*
 - *Finished Paving Width plus 2 feet.*
- (2) **Double Tier Provision.** If the Contractor elects to use double-tier bracing (either solid sheeting or metal trenching box), 16 feet or more above invert in an excavation, the applicable contingent items associated with the bottom tier are based on (1) above. The applicable contract items associated with the top tier are based on excavated trench width and shall not exceed the limits shown on Standard Details G-6 and G-7
- *Trench Width plus 4 feet*
 - *Crusher Run Paving Width plus 4 feet, and*
 - *Finished Paving Width plus 4 feet.*
- (3) **Trench Width Around Appurtenances.** Through areas of appurtenant construction (manholes, inlets, etc.) total trench width must be 4 feet greater than the outside width of the appurtenance for a total distance of 4 feet longer than its outside length. If depth is over 16 feet, trench width will be increased to 6 feet greater than the outside width of the appurtenance for the portion over 16 feet deep. Item payments are based on these widths.
- (4) **Non-Continuous sheeting.** If the Contractor elects to use non-continuous sheeting, no additions to Trench Width are allowed.
- (5) **Use of trench boxes with flexible pipe.** Prior to construction of pipe systems involving use of flexible metal or plastic pipe, the Contractor shall present and obtain approval from the Engineer for a trench design that will allow use of a trench box without disturbing placed and compacted pipe bedding and/or haunching used to support flexible pipes. The Engineer shall require that sheeting be left in place in lieu of using trench boxes if the movement of a trench box will disturb placed and compacted pipe bedding and/or haunching used to support flexible pipes. If the Engineer determines that disturbance of compacted pipe support material has occurred, the Contractor shall be solely responsible for replacement or repair to pipe alignment and compacted supporting material to the satisfaction of the Engineer in the event that any such disturbance occurs.
- (b) **Dewatering Excavations.** The Contractor is completely responsible for adequately controlling water present in the excavation. He must provide for the disposal of water removed from excavations in such a manner as not to cause damage to public or private property or to any portion of the work completed or in progress, and he must not create any impediment to the use of any area by the public, or be in violation of MDE or Baltimore County Department of Environmental Protection and Sustainability requirements. During construction of storm water drains, sanitary sewers and water mains, the Contractor must

not discharge into existing sanitary sewers.

- (c) **Condition of Excavation.** The Contractor is responsible for the condition of all excavation made by him. He must remove all slides and caves, without extra compensation, at whatever time and under whatever circumstances they occur. The Contractor is also responsible for sizing and application of sheeting and shoring, as well as the methods and procedures employed to incorporate all labor and materials.
- (d) **Rock Bottom.** Where the bottom of the trench at subgrade is in rock, excavation shall be carried at least 6 inches below the specified subgrade with a minimum of 4 inches under bells. The trench bottom shall be restored to subgrade with earth or granular material as approved by the Engineer. Excavation and refill to the 6-inch depth will be paid for as contingent fixed price item ***Class 3 Excavation and Selected Backfill*** with proper onsite / offsite disposal as applicable (by Template method) except as otherwise directed by the Contract Documents.
- (e) **Unstable Bottom.** If the bottom of the trench at subgrade is in unstable or unsuitable material, excavate to the depth ordered by the Engineer. Restore the trench bottom to subgrade with Selected Backfill. All excavation and refill is paid for as contingent fixed price item ***Class 3 Excavation/Select Backfill – Proper Disposal of Unsuitable Material***.
- (f) **Ownership of Excavated Material.** The Contractor has no property right in any material taken from any excavation, and he must not remove any earth, sand or other material from the site of the work except on direction or written permission of the Engineer.

If the material excavated from the trench is a combination of materials that are suitable and unsuitable for backfill based upon strata or location, the Contractor shall be responsible for separating the suitable material for use as backfill in accordance with the instructions of the Engineer. All costs associated with this effort shall be included in the price of the pipe or structure being installed.

- (g) **Length of Open Trench.** The Contractor shall not leave open a greater length of trench in any location in advance of the completed structure placed therein, than is authorized or directed by the Engineer. Trenches left open and unattended shall be properly secured.
- (h) **Refilling Trench.**
 - (1) **Required by Engineer.** At any time, the Engineer may require the refilling of open trenches over completed pipelines if he believes such action is necessary. The Contractor has no claim for extra compensation even though, to accomplish the refilling, he must temporarily stop excavation or other work at any place.
 - (2) **Work Stoppage.** If work is stopped on a trench for any reason except by order of the Engineer, and if the excavation is left open for an unreasonable time in advance of construction, the Contractor, if so directed, shall refill the trench at his own cost and shall not open it again until he is ready to complete the structure therein. If the

Contractor refuses or fails to refill the trench completely within 48 hours after notice, the Engineer shall cause the ditch to be refilled, and the County will charge the expense to the Contractor and will retain same out of any monies due or to become due to him under the contract.

(3) Refilling Procedures.

Refilling shall normally be accomplished by the use of suitable material, excavated on the project, which is free from large lumps, clods or rocks except as noted below and which can be compacted to the degree specified by normal means. Suitable material shall not be frozen or composed of ash, cinders, organic matter or other refuse. If suitable material is not available on the project or if directed by the Engineer, ***Borrow for Backfilling Trenches – Proper Disposal of Unsuitable Material***, contingent fixed price items, shall be used. Payment limits for these materials shall be in accordance with the widths shown in the Standard Details.

No rock shall be allowed in refilling until earth has been placed at least 2 feet over the pipes or structure. Above this, except for the last 1 foot, small stones not larger than 10 inches in their greatest dimension will be permitted in an amount not to exceed 20 percent of the volume of the backfill. Within these limits the stones will be well distributed throughout the mass.

Use all suitable excavated material for backfill or store for future use. Do not waste excavated material without approval. Prior to using excavated material as backfill, remove boulders, logs, and other unsuitable material. Dispose of unsuitable material in an approved disposal area.

(4) Compaction Around Pipes.

Prior to beginning excavation, the Contractor shall present the Engineer with manufacturer-approved specifications for compaction to be used for the particular pipe material being installed. The pipe to which the manufacturer-approved specifications apply shall be installed in full compliance with these specifications, except as otherwise directed by the Contract Documents.

For rigid pipes such as reinforced concrete pipe and for ductile iron pipes, the following compaction specifications shall be used: Suitable material shall be carefully placed around the pipe and brought up evenly along both sides of the pipe to a depth of 2 feet over the pipe or structure. This initial backfill shall be carefully placed and tamped by approved mechanical means in 6-inch layers, to a minimum of 92 percent of AASHTO T-180 density. Care shall be exercised during this operation in order to insure that the pipe is not damaged and the alignment of the utility is not disturbed.

In unimproved areas outside the existing or proposed road right-of-way, unless trench compaction as used within road right-of-way is specified on the Plans, compaction shall be accomplished as follows for the remaining depth of trench. Backfill material shall be placed in 12-inch layers and compacted in such a manner that a completely dense refill is obtained which is free of voids and not susceptible to settlement.

In all County and State roads, trench compaction as described below, will be required for rigid pipe and ductile iron pipe within rights-of-way except as noted on the Contract Drawings. The area extending from 2 feet above a pipe to the subgrade shall be refilled in layers not to exceed 8 inches. The refill shall be tamped by approved mechanical means and compacted to not less than 92 percent of the maximum density at optimum moisture content, as determined by the modified Proctor method, AASHTO designation T-180, to within the top foot of subgrade. Within County roads the top foot of subgrade shall be compacted to 95 percent of the maximum density determined as noted above. Within State rights-of-way, the top foot of subgrade shall be compacted to 97 percent of the maximum density determined as noted above.

In all proposed subdivision roads where rigid pipe and/or ductile iron pipe are used, the area extending from two feet above a pipe to the subgrade shall be refilled in layers not to exceed 12 inches. The refill shall be tamped by approved mechanical means to ensure no consolidation or settlement. If a waiver of 60-day maintenance of stone base is desired, the Developer must contact the Division of Construction Contracts Administration for application prior to grading. For all material with moisture content more than 3 percent above optimum, the material shall be compacted to a minimum of 98 percent AASHTO T-180 density at existing moisture content. Soils more than 3 percent below optimum moisture content shall be wetted to bring the moisture content to within plus or minus 3 percent of optimum.

Prior to placement of the stone road base or subbase, the subgrade will be inspected and tested for structural capacity in accordance with existing procedures. In those instances where additional subgrade preparation is required to increase pavement support, the following procedures shall apply:

- a. Undercut trench backfill 1 foot plus an overcut of 2 feet on each side of the trench.
- b. Place soil reinforcing geotextile meeting AASHTO M-288 Class SE or ST as applicable or an equivalent reinforcing grid, as specified, and fill to original subgrade with Aggregate Base Course.
- c. Aggregate backfill shall be rutted, regraded and compacted prior to pavement base construction.

Insofar as Specifications for mechanical tamping equipment or methods are concerned, no specific requirements are included in these Specifications other than the use of any particular type of equipment is subject to approval of the Engineer, and that he has the sole right to judge what equipment is suitable for the uses intended.

After the completion of refilling, all material not used therein shall be removed and disposed of in such a manner and to such a point as approved or directed by the Engineer; and all roads, sidewalks and other places on the line of the work shall be left clean and in good order. The Contractor shall clean up without extra compensation. If

the Contractor fails to do such work within a reasonable time after receipt of notice, the Engineer shall arrange for the necessary clean up effort, and the cost will be retained out of monies due to or to become due to the Contractor, under the Contract.

- (i) Place magnetically detectable plastic tape in the trench immediately above the structural backfill. The minimum thickness of the tape shall be 5.5 mils and the minimum tensile strength shall be 5000 psi. Demark the tape as to its purpose (i.e., "STORM DRAIN").
- (j) **Maintenance of Refilled Excavations Outside Paved Areas: Reshaping.** At his own expense, the Contractor shall maintain refilled excavation in proper conditions as specified herein. Just before final restoration or final inspection, the Contractor shall give the trench surfaces a final reshaping where necessary.

CATEGORY 1000
UTILITY CONSTRUCTION

SECTION 1003 – WATER MAINS

INSERT the following after the end of section 1003.03.07

1003.03.08 POLYETHYLENE ENCASEMENT.

- a) The work shall consist of furnishing and installing Polyethylene Encasement for Ductile Iron Pipe – All Sizes and Fittings. The Contractor shall comply with the requirements and practices of ANSI/AWWA C150/A21.50, ANSI/AWWA C151/A21.51, ANSI/AWWA C105/A21.5, AWWA C600 and M41. The Contractor shall comply with the MODIFIED METHOD A - “Wet Trench Conditions” requirements for installation.
- b) All material, construction methods, handling, and maintenance shall be in accordance with the requirements specified in standard ANSI/AWWA C105/A21.5.



Note: When placing the polyethylene material on the pipe, ensure to take up the slack in the tube along the barrel of the pipe to make a snug, but not tight, folding excess polyethylene back over the top of the pipe. Edge of fold should not face upwards as material can be filled with backfill material and encasement could easily tear.

A Step-by Step Guide For Installing Polyethylene Encasement on Ductile Iron Pipe

Polyethylene encasement is placed on Ductile Iron Pipe to prevent corrosion. It does not have to be sealed watertight, but it should be installed so that no dirt or bedding material comes in contact with the pipe. All lumps of clay, mud, cinders, etc.. on the pipe surface should be removed before the pipe is covered with polyethylene. If the polyethylene is damaged, it must be repaired before the trench is backfilled.

Small holes or tears can be repaired with a piece of tape placed over the hole. Large holes or tears should be repaired by taping another piece of polyethylene over the hole.

Overlaps, ends, and repairs can be held in place with tape or plastic tie straps until the trench is backfilled.

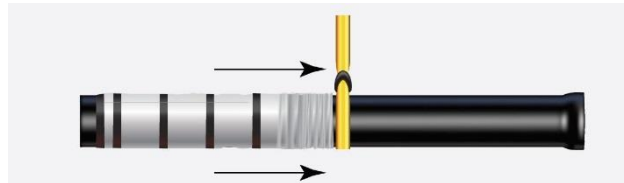
Other general tips for proper installation include:

- Quality of installation is more important than the actual sequence followed.
- When lifting polyethylene-encased pipe with a backhoe, use a fabric-type “sling” or padded cable to protect the polyethylene.
- When installing polyethylene encasement below the water table or in areas subject to tidal action, seal both ends of the tube as thoroughly as possible with polyethylene compatible adhesive tape or plastic tie straps at the joint overlap. Additionally, place circumferential wraps of tape or tie straps at 2-foot intervals along the barrel of the pipe to help minimize the space between the encasement and the pipe.

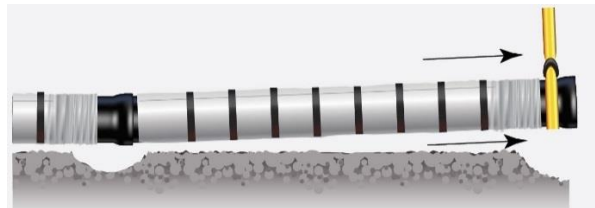
Wet Trench Installation



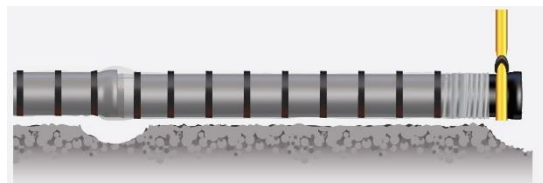
Step 1 : Cut section of polyethylene tube approximately 2-feet longer than the pipe section. Remove all lumps of clay, mud, cinders, or other material that might have accumulated on the pipe surface during storage. Slip the polyethylene tube around the pipe, starting at the spigot end. Bunch the tube accordion fashion on the end of the pipe. Pull back the overhanging end of the tube and circumferentially tape it to the barrel of the pipe behind the insertion line. After assembly of the joint, the tape should be as close to the face of the bell as possible but not so close to the spigot end that it interferes with the gasket.



Step 2: Take up the slack in the tube along the barrel making a snug fit and fold over the excess polyethylene. Apply circumferential wraps of tape every two feet until you run out of room. This is extremely important to avoid the sagging of the film at the bottom of the pipe.



Step 3: Dig a shallow bell hole in the trench bottom, lower the pipe and make up the joint. Slide the sling to the bell and lift slightly to provide clearance to slide the encasement to the end. Continue to snugly fold over and tape at 2 foot intervals to secure the polyethylene.



Step 4: Make the overlap of the polyethylene tube by pulling back the bunched polyethylene from the preceding length of pipe and ensure there is at least a 12” overlap. Secure the polyethylene with a circumferential wrap of tape at the overlap and behind the preceding bell.

Step 5: Repair any damage to the polyethylene and backfill according to AWWA C600 as described in Modified Method A.

Tapping Polyethylene- Encased Pipe

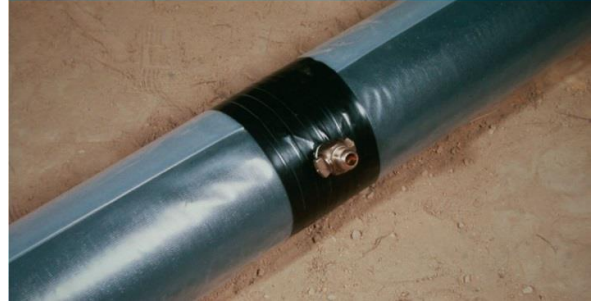
When tapping polyethylene-encased Ductile Iron Pipe, the following procedure is recommended.

Step 1



Wrap two or three layers of polyethylene adhesive tape completely around the pipe to cover the area where the tapping machine and padded chain will be mounted.

Step 3



After making the direct service connection, inspect the entire circumferential area for damage and make any necessary repairs.

Step 2



Mount the tapping machine on the pipe area covered by the polyethylene adhesive tape. Then make the tap and install the corporation stop directly through the tape and polyethylene.

Step 4



Wrap any connected copper service line within three (3) feet of the pipe with polyethylene or dielectric tape.

Step 5

Backfill trench as described before.

CATEGORY 1000
UTILITY CONSTRUCTION

SECTION 1003 – WATER MAINS

DELETE 1003.04 MEASUREMENT AND PAYMENT in its entirety and **REPLACE** with the following:

1003.04 MEASUREMENT AND PAYMENT

A. Water mains

Measurements for payment of water mains are made horizontally along the centerline of the trench through all fittings and valves except between vertical bends where measurement is made along the center of the pipe, including all fittings. The list of pipe fittings shown on water drawings is for convenience only. In case of discrepancy between the list of pipe fittings and the drawings, the drawings will govern.

Water Mains are paid for at the Contract unit price per linear foot for the particular size and type of pipe specified on the Plans or directed by the Engineer. The Contract price bid shall include: cutting of paving; test pitting in advance of laying the pipe; unclassified excavation and refill; furnishing and placing backfill in the pipe embedment zone; removal, storage and re-handling of excavated material; bracing; temporary and permanent caps, plugs, jacks and buttresses, pumping and other disposal of water; furnishing and placing of pipe; furnishing and installing the polyethylene encasement; concrete anchors; buttresses, fittings and appurtenances exclusive of valves, vaults and fire hydrants; chlorination and field testing, and all labor, equipment and work necessary to complete the work.

The excavation and the refill necessary to locate the end of an existing water main for a tie-in shall be paid for under the applicable Bid Item for contingent Test Pit Excavation.

No separate measurement and payment will be made for Polyethylene Encasement of Ductile Iron pipe and fittings; encasement and/or dielectric wrapping of service lines, the required overlapping, any necessary wrapping or repair. This items of work will be considered incidental to the water main bid item.

CATEGORY 1000
UTILITY CONSTRUCTION

SECTION 1004 – WATER VALVES AND VAULTS

DELETE 1004.04 MEASUREMENT AND PAYMENT in its entirety and **REPLACE** with the following:

1004.04 MEASUREMENT AND PAYMENT

Tapping Gate Valve and Vault, Vertical; Gate Valve and Vault, Vertical are measured on the basis of the number of each type and size built or replaced as shown on the Plans or as directed by the Engineer.

Valves and vaults are paid for at the contract unit price bid per each for the particular type and size installed or replaced, the bid price shall include all unclassified excavation and refill; removal, storage and re-handling of excavated material; bracing; pumping or other disposal of water; corporations when called for; corporation saddle, and all materials, tools and labor necessary to complete the item.

1. For tapping gate valves, price shall also include cost to measure diameter of parent pipe prior to tapping; cost of furnishing and installing tapping saddle; cost of tapping operations and equipment; pressure testing; disinfection; and all costs associated with hiring tapping specialists and/or pipeline representatives. Test pits for accessing the parent pipeline prior to tapping to determine pipeline diameter and location of existing joints and fittings shall be paid for under the appropriate Test Pit pay item and shall be performed only with the prior approval of the Engineer.
2. For replacing existing gate valves, price shall also include the pipe stub, restrained joints, restrained coupling or equivalent, cutting and removal of existing pipe, preparation of existing pipe for re-connection, rigging and all vault work.

The State Highway Administration **does not allow** the use of sectional vaults within its Rights-of-way. In cases where a vaults is required within the State ROW, Contractor shall use 48-inch precast manhole with doghouse opening, in accordance with ***Standard Detail Plate S-4***. *No separate payment will be made if using 48-inch precast manholes in State's ROW.*

Payment for gate valves and vaults installed, payment for tapping gate valves and vaults installed, and payment for replacing existing gate valves shall not be made until the Contractor demonstrates to the Engineer that each valve and vault has been installed properly and the operating nut is fully accessible from above. For those locations where corporations are called for, operating key shall also be accessible from above.

Any shutdown of existing or new installed valves must be done by Baltimore City or their representative (aka Xylem/Wachs Water Services). Shutdown requests must be done 10

working days prior to the scheduled shutdown. Requests can be made by filling out the Wachs shutdown request form found in the appendix. All impacted customers must be notified 48 hours in advance of any planned shutdown. No extra payment will be made for coordinating this shutdown work.

**CATEGORY 1000
UTILITY CONSTRUCTION**

SECTION 1005 – WATER HOUSE SERVICE, WATER METER SETTING, AND VAULTS

DELETE this section in its entirety and **REPLACE** with the following:

SECTION 1005 – WATER HOUSE SERVICE, WATER METER SETTING, AND VAULTS

1005.01 DESCRIPTION. This item consists of copper or ductile iron pipes with appurtenant meter housings and connections to the parent main, of the diameter shown on the Plans, arranged and constructed according to the Standard Details and these Specifications, and located as shown on the Plans or as directed by the Engineer.

1005.02 MATERIALS.

Ductile Iron Pipe	905
Copper Pipe	905
Cast Iron Frames & Covers	905
Meter Vaults	905

1005.03 CONSTRUCTION METHODS.

1005.03.01 Delivery, Storage, Handling and Operation.

1. Care shall be exercised in handling and delivery of pipe, its fittings, valves and hydrants to prevent damage to these items and their coatings and linings. Under no circumstances shall pipe, fittings, valves or hydrants be permitted to drop, roll or skid against another pipe section or fitting. Belt slings shall be used as directed by the Engineer for handling pipe, fittings, valves and hydrants. Dropped pipe, fittings, valves or hydrants and items with apparent damage shall be removed from the work site. Pipe, fittings, valves and hydrants shall be placed for storage in an area away from roads, traffic and unrelated construction activity.
2. Stored materials shall be kept safe from damage. Pipe, fittings, valves and hydrants shall not be stacked higher than manufacturer’s recommended limits and wood spacers shall be utilized as recommended by the manufacturer or required by the Engineer. Meter settings and (non-sectional) meter vaults shall not be stacked. Pipe, fittings, hydrants and valves shall be kept from contact with the ground through use of supporting rails, timbers or other suitable support materials. Pipes, fittings, valves and hydrants shall not be stored within a designated flood area.
3. Pipe, fitting, valve and hydrant interiors shall be kept free of soil, and other foreign matter at all times. Watertight plugs shall be used in pipes when pipe is not in the process of being placed, as applicable. Fire hydrants and valves shall be drained and

stored so that they are protected from damage by freezing.

4. Under no circumstances shall any portion of a valve shaft, actuator or waterway be used to lift or position a valve or hydrant. Storage instructions from the manufacturer shall accompany gate and butterfly valves and be retained by the Engineer. The Contractor shall follow these instructions at all times when storing and handling these valves.
5. Gaskets stored for use with mechanical joints, push-on joints, and flanged joints shall be kept in a cool location out of direct sunlight, as shall rubber/resilient seats for valves and hydrants. Gaskets and seats may not come into contact with petroleum products, ozone sources, engine exhaust, sanitary waste or cleaning solvents. Gaskets shall be used on a first-in-first-out basis.
6. During construction, pipe, fittings, valves and hydrants shall be placed as near as practical to the joint where it will be laid, with sufficient support so that neither end touches the ground and so that movement is prevented.
7. The Contractor shall provide proper and suitable tools for the safe and convenient handling and laying of pipes and fittings.
8. Pipe, fittings, valves and hydrants shall be handled and installed only by experienced workers with pipe laying experience.
9. The Contractor shall not operate valves. The Contractor shall contact Baltimore City to make arrangements for City personnel to open and close valves.

1005.03.02 Installing Water Services and Water Meter Settings (2 inches and smaller):

1. All services shall be laid to the grade and lines in accordance with the Contract Documents or as directed by the Engineer.
2. All meter vaults shall be set at the location shown in the Standard Details, unless directed otherwise by the Engineer.
3. Special care shall be taken to insure that the service lines are well bedded on a solid foundation. Extreme care shall be taken during installation to ensure that copper tubing is not crimped, gouged or otherwise detrimentally damaged. Copper tubing shall not be installed near sharp stones or ledge that could cause damage to the tubing. The Contractor shall repair any defects resulting from settlement at the Contractor's expense.
4. Copper tubing between tap and water meter (or factory-assembled meter setting) shall be installed as one continuous length of tubing (no intermediate joints or connections), unless otherwise approved by the Engineer. Similarly, copper tubing between water meter and cap or plug at service end shall be installed as one continuous length of tubing.
5. Copper tubing shall be installed without sharp turns or bends. Smooth vertical bends are required for installations shown in Standard Details W-21, W-22, and W-23. Smooth horizontal bends are required for installation as shown in Standard Detail W-28A. Contractor shall have available and shall utilize a pipe bending mandrel to bend copper tubing at no additional cost to the County, if so directed by the Engineer.
6. Only proper tube cutters shall be used to cut copper tubing; hacksaws and other similar equipment that result in rough edges are strictly prohibited.

7. Flared connections shall be provided only where indicated in the Standard Details. Contractor shall prepare the tubing end to be flared by using a reamer to remove burrs from the inside of the tubing. Then the Contractor shall utilize a flaring tool to create the flare on the end of the tubing.
8. Compression type couplings shall be provided where indicated in the Standard Details or as directed by the Engineer. Copper tubing ends to receive compression couplings shall be properly prepared to ensure strong, water-tight connections.
 - a. Contractor shall de-burr copper tubing ends using tools designed for the work.
 - b. Contractor shall re-round copper tubing ends using proper rounding tool.
9. Soft set pipe thread compound shall be used on all threaded connections to ensure a drip tight seal. Pipe thread compound shall be NSF61 approved for contact with potable water.
10. Only smooth jawed wrenches are permitted to tighten fittings and connections.
11. Water service connections may be installed by open-cut or by boring at the Contractor's option except when a method is specified by the Engineer.
12. All pipe and fittings shall be thoroughly cleaned before being installed and shall be kept clean until acceptance of the completed work.
13. All services shall be thoroughly flushed with potable water in the presence of the Engineer.
14. All service ends not immediately connected to house service shall be provided with either a cap or plug (see Standard Details) to prevent any foreign matter from entering the pipe. The Contractor shall mark the end of each water service not immediately connected to house service by providing a 2" x 6" wood post painted with blue paint. Post shall be approximately 4 feet long and driven into the ground approximately 18 inches.
15. Meters and meter settings shall be installed level and with the long axis of the meter installed perpendicular to the curb and gutter (existing or proposed) or edge of pavement (existing or proposed). Where the meter or meter setting is remote from the roadway, the long axis of the meter shall be aligned with the centerline of the water service.
16. Meter vaults shall be installed in non-traffic areas only; do not locate in driveway unless otherwise noted on the Contract Drawings or directed by the Engineer.
17. All meter vaults shall be bedded on firm undisturbed earth in combination with bricks or pre-cast vault bottom sections. Meter vaults shall be installed level. For circular meter vaults, vaults shall be centered over meter valves and fittings such that there is a uniform gap between meter valves and fittings and the inside surface of the vault. In no case shall any vault be installed such that the inside surface of the vault is in direct contact with any meter valve, fitting, or tubing.

1005.03.03 Installing Corporation Stops:

1. General
 - a. Protect the threads on corporation stops at all times.
 - b. Use a good thread sealant on the inlet threads to provide a leak-proof connection. Petroleum-based products that might damage seals or o-rings are strictly prohibited.
 - c. Use only a smooth jawed wrench to handle the corporation stop. Grip the corporation stop by using the flats provided nearest the thread being installed. Pipe wrenches with serrated jaws are strictly prohibited and shall be cause for rejection of the corporation assembly.
2. Orientation and Location
 - a. Corporations used for standard water service connections ($\frac{3}{4}$ inches to 2 inches) to either iron pipe or prestressed concrete cylinder pipe shall be installed at a 45-degree angle up from the horizontal. Additionally, maintain a minimum separation (as measured along the pipe centerline) of 18 inches between other service connections or pipe joints.
 - b. For service connections to other pipeline materials, consult the Design Division of the Bureau of Engineering and Construction.
 - c. ***Corporations used in pitometer, pipeline monitoring, blow off, or air release applications shall be installed in the vertical position.***
 - d. Corporations used to install small domestic meters in FM meter vaults shall be installed in the horizontal direction, unless directed otherwise by the Engineer.
3. All connections to the water distribution system shall be made under full water service pressure unless otherwise approved by the Engineer. Install corporation taps in water mains only after they are chlorinated and tested according to Section 1003.03.07.
4. Tapping pipe shall be performed using a tapping machine specifically designed for that purpose. Follow tapping machine instructions and these Specifications.
 - a. For iron pipe, use a service saddle to tap the pipe where required by the Standard Details. Corporation stop shall be assembled with the machine until it feels solid; do not attempt to force the corporation stop to its permanent tightness with the machine. After tapping the pipe, remove the machine and provide final tightening of the corporation stop using an appropriate wrench.

For applications utilizing a service saddle, begin assembly by cleaning pipe surface thoroughly. Mount the saddle on the pipe with the outlet in the required orientation. Using a calibrated torque wrench, tighten the saddle nuts in accordance with the manufacturer's recommendation. Install the corporation; after installation, recheck the saddle torque and retighten if necessary.

1005.03.04 N/A

1005.03.05 Copper Service Lines. Take special care in placing precast meter vaults over copper service lines to ensure that the vault does not bear on the service and lessen its size.

Service lines and tail pieces must have a minimum bury as shown on Standard Details. Tail pieces on 3/4-inch to 2-inch service lines must extend 5 feet past right-of-way line unless otherwise noted.

1005.04 MEASUREMENT AND PAYMENT.

1005.04.01 Water house services and fittings are measured along the centerline of the pipe and through fittings. Water house services are paid for at the contract unit price per linear foot for the pertinent size and type of pipe involved. This price shall include all material, fittings, pavement cutting, driving sleeves, unclassified excavation and refill, removal, storage and re-handling of excavated materials, bracing, pumping and other disposal of water, labor and all incidentals necessary to complete the work.

1005.04.02 Water Service Tap and Corporation will be measured on the basis of the number of each type and size built or replaced as shown on the Plans or as directed by the Engineer.

Water Service Taps and Corporations are paid for at the contract unit price bid per each for the particular type and size installed or replaced, the bid price shall include all unclassified excavation and refill; removal, storage and re-handling of excavated material; bracing; pumping or other disposal of water; and all materials, tools and labor necessary to complete the item. Price shall also include cost to measure diameter of parent pipe prior to tapping; cost of furnishing and installing tapping saddle; cost of tapping operations and equipment; pressure testing; disinfection; and all costs associated with hiring tapping specialists and/or pipeline representatives. Test pits for accessing the parent pipeline prior to tapping to determine pipeline diameter and location of existing joints and fittings shall be paid for under the appropriate Test Pit pay item and shall be performed only with the prior approval of the Engineer.

1005.04.03 Meter Frames, Covers and Vaults will be measured on the basis of the number of each type and size built or replaced as shown on the Plans or as directed by the Engineer. Payment for Meter Frames and Vaults will include vaults, frames and covers, fittings as shown on the Standard Details or Plans and all labor and incidentals necessary to complete the item.

Payment for *Meter Frames, Covers and Vaults* for Meters 2 Inches and Smaller installed shall not be made until the Contractor demonstrates to the Engineer that each meter installation and vault has been installed properly. Additionally, payment shall not be made until the required survey data has been provided.

1005.04.04 Water Meter Setting will be measured on the basis of the number of each type and size built or replaced as shown on the Plans or as directed by the Engineer. Payment for Water Meter Setting will include all fittings as shown on the Standard Details or Plans and all labor and incidentals necessary to complete the item.

Payment for Water Meter Setting installed shall not be made until the Contractor demonstrates to the Engineer that each meter setting, meter, vault, and frame and cover has been installed properly. Additionally, payment shall not be made until the required survey data has been provided.

CATEGORY 1000
UTILITY CONSTRUCTION

SECTION 1006 – FIRE HYDRANTS

DELETE this section in its entirety and **REPLACE** with the following:

SECTION 1006 – FIRE HYDRANTS

1006.01 DESCRIPTION. This work consists of the installation of fire hydrants in, or related to, the locations specified on the Plans or as directed by the Engineer according to these Specifications.

1006.02 MATERIALS. Only fire hydrants and restrained joints approved by the Baltimore City Department of Public Works are accepted. See Section 905.

1006.03 CONSTRUCTION REQUIREMENTS.

1006.03.01 Delivery, Storage, Handling and Operation: See 1005.03.01.

1006.03.02 Installing and Commissioning Fire Hydrants:

1. Submit **Certificate of Compliance** to the Engineer as described in 905.07.01(l) of these Standard Specifications.
2. Fire hydrants shall be installed and restrained in accordance with Plate W-3A of the Standard Details. Hydrants shall be set within a stone drainage well (No. 57 stone) extending the full width of the trench. Stone shall be placed at least six inches (6") above the connection between the base (shoe) and the lower barrel.
1. **Elevation.** Install hydrants at an elevation recommended by the manufacturer for replacement of the breakaway bolts, in accordance with the requirements shown on Standard Detail W-3A. Install extension pieces if necessary.
4. **Hydrant leads** shall be laid level on a firm foundation, and the hydrant shall be set plumb. Backfill around the hydrant shall be compacted to 92-percent of AASHTO T-180 density.
5. Install hydrants with a **concrete collar** 6-inches thick, 2-feet wide by 2-feet long (6" x 2' x 2') around the hydrant barrel at or near the ground line. Install expansion joint material between the concrete collar and the hydrant barrel. Concrete collar shall be cast monolithically.
6. Unless indicated otherwise on the Contract Documents, install fire hydrant such that the 4.5-inch outlet (pumper outlet) faces the adjacent curb or edge of pavement.
7. When thrust blocks are installed behind the hydrant base (shoe), drain holes shall not be blocked or plugged.

8. Hydrant operating nut and hydrant outlet caps shall be operated using an appropriately sized 5-sided wrench only. Hydrant nuts and/or caps that have been damaged due to the use of inappropriate tools (including, but not limited to, pipe wrenches) shall be replaced as directed by the Engineer at no additional cost to the County.
9. Following installation, all fire hydrants shall be given a flush test performed by the Contractor in the presence of the Engineer. The Contractor shall install a diffuser on the 4.5-inch nozzle and shall open the hydrant to demonstrate that the hydrant is functioning properly and to demonstrate that there are no obstructions or debris in the hydrant lead. Following the flush test, the Contractor shall remove the diffuser and shall reinstall the outlet cap.

1006.03.03 Relocating Hydrants. This work consists of relocating a fire hydrant by extending or shortening the hydrant lead while preserving the hydrant valve, vault, and the connection to the parent main. See 1006.03.02.

1. The Contractor shall determine whether the hydrant valve has been restrained to the tee or tapping saddle before removing the hydrant. If the valve is not restrained to tee or saddle, or if use of restrained joints cannot be verified, the Contractor shall (1) block the hydrant valve in the valve vault before arranging with Baltimore City to close the valve, or (2) make arrangements with Baltimore City to isolate the entire hydrant lead by isolating the parent main.
2. The Contractor shall remove the entire hydrant, existing stone drainage well, filter fabric, brick support, buttress, and concrete shock slab or sidewalk section, as applicable. The Contractor shall remove existing hydrant lead pipe as required. The Contractor shall provide a new hydrant, restrained to lead pipe, shall provide any necessary new hydrant lead pipe, and shall provide a new stone drainage well, new filter fabric, new brick support, a new buttress and a new concrete shock slab or sidewalk section.

1006.03.04 Remove Existing Fire Hydrant and Replace with New Fire Hydrant. This work consists of removing a fire hydrant and replacing it with a new fire hydrant at the same location. See 1006.03.02.

1. See 1006.03.03, #1 for requirements prior to removing hydrant.
2. The Contractor shall remove the entire hydrant, existing stone drainage well, filter fabric, brick support, buttress, and concrete shock slab or sidewalk section, as applicable. The Contractor shall provide a new hydrant, restrained to lead pipe, shall provide any necessary new hydrant lead pipe, and shall provide a new stone drainage well, new filter fabric, new brick support, a new buttress and a new concrete shock slab or sidewalk section.

1006.04 MEASUREMENT AND PAYMENT. *Hydrant installation or Relocation* is measured on the basis of the number of hydrants installed, relocated or removed and replaced as shown on the Plans or as directed by the Engineer.

Hydrants, complete in place, are paid for at the contract unit price per each for the 6 inch size

installed, relocated or removed and replaced. This price paid shall include all excavation and refill, bracing, pumping and other disposal of water, concrete buttresses, and material, tools and labor necessary to complete the item. Extension pieces that were not included on the Plans, but required due to field conditions, are paid for as extra work. The hydrant valve and vault, connection to the parent main, and new or replacement hydrant lead pipe and fittings shall be paid for as part of other bid items in the Contract.

Payment for fire hydrants installed shall not be made until a satisfactory flush test has been performed.

CATEGORY 1000
UTILITY CONSTRUCTION

SECTION 1011 – ABANDONMENT OF WATER APPURTENANCES

DELETE this section in its entirety and **REPLACE** with the following:

**SECTION 1011 – ABANDONMENT OF WATER MAINS
AND APPURTENANCES**

1011.01 DESCRIPTION. This work shall consist of the disposition of existing water mains and appurtenances of the water system noted on the Contract Drawings to be abandoned or removed and restoration of the site.

1011.02 MATERIALS. Not applicable.

1011.03 CONSTRUCTION.

1. Fire hydrants, water valves, and frames and covers to be abandoned shall become the property of the Contractor. Unless otherwise noted on the Contract Drawings, water mains shall be abandoned in place.
2. The Contractor shall remove water meters which are to be abandoned and return them to Baltimore City as directed.
3. The Contractor shall remove the top portions of valve vaults, meter vaults, and roadway boxes to be abandoned to a depth of 18 inches below final grade. The Contractor shall remove both upper and lower barrels of hydrants to be abandoned. As applicable for valves to be abandoned, the Contractor shall: abandon the valve in place, remove the valve in its entirety, or remove the valve bonnet and stem; such that no portion of the valve is within 18-inches of final grade. Contractor shall cap or plug all openings for water mains to be abandoned. Contractor shall backfill all disturbed areas.
4. The Contractor shall restore the surface with materials appropriate to the site as directed by the Engineer.

1011.04 MEASUREMENT AND PAYMENT.

1. All work under this item will not be measured. Costs of Abandonment of Water Mains and/or Water Appurtenances are to be considered incidental to other bid items and the costs associated included in the price bid for items of new construction. This shall include but not be limited to any removal of existing cast iron pipe, removal of fire hydrants, removal of frame & cover, removal and abandonment of vaults; removal of blow-off valve and vaults; and any other work associated with the abandonment of existing water mains.
2. Restoration of the surface will be paid for under the items bids for seed and mulch, sod, bituminous concrete for permanent trench repair, or concrete sidewalk, as applicable.

CATEGORY 1000
UTILITY CONSTRUCTION

INSERT: The following:

SECTION 1012 – TEMPORARY WATER SERVICE BYPASS

1012.01 DESCRIPTION. This work consists of the supply of a pressurized, temporary water service. Work includes, but is not limited to, the following:

- 2” & 4” temporary bypass piping
- temporary service lines and fittings
- temporary hydrant connections and disconnections

1012.02 MATERIALS. The Contractor shall furnish all materials, labor, and equipment and perform all operations related to the temporary services in strict adherence with the specifications and the applicable drawings, and AWWA Standard C602, unless contradicted by these Specifications. All temporary piping and hose bypass must be NSF approved.

1012.03 CONSTRUCTION METHODS.

1012.03.01 Installing and commissioning of temporary water service

- (a) Water for temporary bypass lines shall be taken from the nearest available fire hydrants or from below ground installations, as shown on the plan. All dwellings, shops, and places of business served by the mains to be replaced shall be provided with temporary service connections, whether occupied at the time or not.
- (b) The pipe and other materials which are to be furnished by the Contractor for use as temporary service pipe shall be clean, watertight, and fully adequate to withstand existing pressures and all other conditions of use and shall be approved by the Engineer. The temporary line and corporations shall be installed in such as manner as to produce a minimum hazard and inconvenience to the public. Whenever possible, protruding bolts should be turned away from the streets. Temporary bypass lines that cross public roadways shall be placed below existing road surface. The temporary service hoses that cross the roads should be protected with a plank, asphalt ramp, sleeve or other approved method.
- (c) The Contractor shall furnish, install, and maintain all bypass pipe and other appurtenances for consumers deprived of water during the cleaning and structural lining operations. Connections and disconnections of temporary bypasses to consumer services and all back cleaning shall be done by the Contractor.
- (d) Prior to placing the temporary bypass main into service, it shall be chlorinated in accordance with the requirements of these specifications. The temporary bypass main is to be flushed after chlorination.

- (e) The Contractor shall maintain the temporary water service lines in a safe and operative condition at all times and shall be responsible for the protection of life, property, and the prevention of injury to persons and structures. Safeguards shall be provided by the Contractor to the satisfaction of the Engineer, but such provision shall not relieve the Contractor of full responsibility for the adequacy of protection. Temporary bypass lines or services crossing a driveway shall be ramped over with wooden or metal planking or with bituminous concrete placed upon 15-pound felt if this is satisfactory to the property owners. These temporary vehicular crossings shall be maintained to the satisfaction of the Engineer and the property owner. Where temporary 4-inch mains cross roads and driveways, the temporary mains shall be STEEL and buried. Exceptions for driveway crossings must be in writing from property owner(s); all other temporary bypass piping shall be placed in the gutter unless given special permission to do otherwise by a Baltimore County Engineer or Inspector associated with this job.
- (f) All temporary or notched water meter covers shall be painted safety orange.
- (g) Where temporary bypass lines cross sidewalks, suitable means should be provided to allow safe pedestrian passage at all times. Temporary connections should be made in the meter vaults unless approved by the Engineer. The meter vaults should be covered with slotted planks or another approved method.
- (h) The service and meter locations shown on the contract drawings should be verified by the Contractor. Where the Contractor must connect domestic service to the bypass piping, the service lead must be sized to at least equal the existing service lead but never smaller. Should it be required, it will be the total responsibility of the Contractor to store the consumer's water meters in a safe place during rehabilitation. The County will not assume any liability for damage or theft to water meters that have been removed by the Contractor and have been left at the job site.
- (i) All meters must be tagged for proper identification as directed by the Engineer.
- (j) The pipe and fittings shall provide adequate water tightness, and care shall be exercised throughout the installation of any temporary pipe and service fittings to avoid any possible pollution of any mains or house services or contamination of the temporary pipe itself. During freezing, stormy or inclement weather, no work shall be done except that which is incidental to the cleaning or structural lining unless otherwise directed by the Engineer. No bypass pipe or service connection shall be installed during freezing weather, and such pipes already in use shall be removed or drained. Freezing weather should be expected after November 15. If the Contractor cannot finish by that time, the Contractor should finish in the spring unless an extension of contract time is approved by the Engineer. The Contractor shall be allowed to proceed with mobilization between March 15 and April 1 without any working days assessed against him. However, no water mains should be broken into or temporary services be activated until April 1.
- (k) Temporary service fire hydrants shall replace all existing hydrants deactivated for the new water main work. Temporary fire service hydrants shall be supplied by minimum 4-inch diameter temporary service pipes.

- (l) Upon restoration to service of water mains, the Contractor shall remove any corresponding section of temporary bypass pipes and shall leave the streets, sidewalks, and adjacent property in a neat and orderly condition and in every respect equal to their original condition.

Meter Caps: All 5/8-inch meters shall be capped on both ends with Watts A 685 Hose Caps, or equivalent equal, to prevent any contamination to the inside of the meter. The contractor shall cap larger meters with appropriate material approved by the area engineer to prevent any contamination.

- (m) In general, the temporary bypass lines shall be constructed as indicated on the drawings. However, additional temporary lines or connections may be required dependent on field conditions.

- (n) Contractor shall provide a gate valve preceded by a check valve at the end of temporary bypass piping. Additionally Contractor shall provide sufficient piping to allow for constant flushing of temporary bypass piping when temperatures are expected to exceed 70 degrees Fahrenheit. This is intended to alleviate the number of complaints that would exist due to water quality issues.

1012.03.02 Notification to Property Owners

- (a) Before commencing work in an area, the Contractor shall notify Baltimore County's Chief Bureau of Utilities, at 410-887-1893. The Contractor must give the Chief of Bureau of Utilities the trailer phone number, fax number, and twenty-four (24) hour emergency number.
- (b) The Contractor shall notify all property owners adjacent to the work in advance of the work. There shall be two (2) types of notices: one for property owners whose water service will be temporarily interrupted while their service connections are being connected and disconnected from temporary bypass piping; and one for property owners whose water service will not be interrupted. Notices shall be printed on heavy card stock. Notices shall be secured to door handles at least 48 hours in advance of the work at each location. Contractor shall submit samples of notices to the Engineer for approval.

The notice should be similar to the following:

"Resident:

On or about (date), (company) will be replacing old water mains in this area. The work is being done to reduce incidents of rusty water and to restore the initial pipeline capacity for fire protection in this neighborhood. During this period, your house (will/will not) be served by a temporary water supply line. This work is being done for your benefit, and we would appreciate your cooperation for the inconvenience during this period.

Telephone Number- Contractor (answering service refer to 1012.03.03)

Baltimore County Construction Contracts Administration Division: 410-887-3531"

- (c) The Contractor is to notify the County Engineer in writing five (5) days prior to the desired date of work. This action is used to notify the effected County costumers of the interruption to service that will accrue as well as the coordination with the Baltimore City valve crews.

1012.03.03 Emergency Service

- (a) The Contractor is to have an answering service for emergency response on a 24-hour, 7-day week basis. The Contractor will contact the County on matters relating to this project and Baltimore City on matters not relating to this project. Two (2) cellular phones are to be supplied by the Contractor: one (1) for the superintendent and one (1) for the person responsible for the bypass pipe. Contact information is to be provided to the Engineer.

1012.04 MEASUREMENT AND PAYMENT.

- (a) Measurement for payment of Temporary Bypass lines will be made horizontally along the centerline of the bypass pipe including fittings.

Temporary Bypass Lines are paid for at the Contract unit price per linear foot for the particular type of bypass pipe laid as specified on the plans or as directed by the Engineer. The contract price bid shall include the cost of notifications; furnishing, installing, maintaining and removing all pipe; pipe fittings; hardware; water supply connection backflow preventers and reduced pressure zone devices; testing; mainline valves; cost of backflow devices from the County Department of Public Works; connections to existing water mains; joint materials; making pipe joints; flushing; sampling taps; chlorinating; scheduling and assisting with obtaining health samples; health sample costs; ramping at sidewalks and driveways; preparation and distribution of service interruption notices; maintaining bypass pipe, road crossings and service connections throughout duration of project; and furnishing all labor, material and equipment necessary to complete work.

1. Temporary fire hydrants, connections to temporary feed hydrants, and all fittings and appurtenances furnished and installed as part of the temporary bypass piping will not be measured but shall be considered incidental to the temporary bypass lines bid item.

BALTIMORE COUNTY, MARYLAND

Inter-Office Correspondence



To: Charu Malhotra
Stormwater Management
Environmental Protection and Sustainability

Date: September 30, 2022

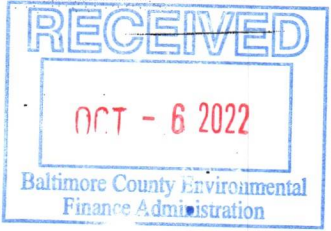
From: Paul A. Dennis
Environmental Impact Review
Environmental Protection and Sustainability

Project Name: Water Main, Hospital Drive/Lennings Lane, EPS # 220256
Type of Plan: Sediment Control/Grading Plans
Engineer/Consultant: Baltimore County DPWT, Jos. Venturina
Plan Date: August 26, 2022

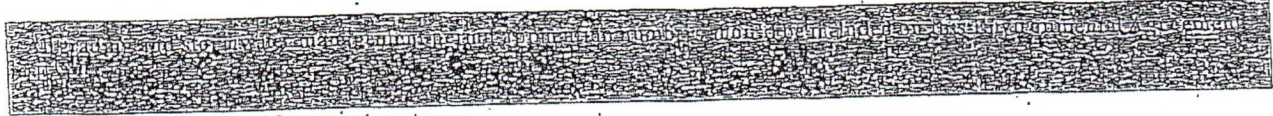
Environmental Impact Review (EIR) has completed an evaluation of the above referenced plan(s).
The following recommendations are made:

Approved Not Approved

If there are any questions concerning this matter, please contact me at 410-887-3980.



BALTIMORE COUNTY, MARYLAND
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY
ENVIRONMENTAL AGREEMENT



ENVIRONMENTAL AGREEMENT for:

Project Name: HOSPITAL DR. & LENNINGS LA. WATER MAIN REPLACEMENT
Plat Reference: _____
Tax Acct. No. _____
Total Estimated Cost: \$ 2.3 M +/-
(All Environmental Securities)

M 220256

Grading Permit # CEN22-000177
Stormwater Management Permit # _____
EIR Plan #'s _____

THIS ENVIRONMENTAL AGREEMENT, NUMBER EA2022-00168 made this _____ day of _____ by and between Baltimore County, hereinafter referred to as the applicant, party of the first part, and BALTIMORE COUNTY, MARYLAND, a political subdivision of the State of Maryland, hereinafter referred to as the County, party of the second part

WHEREAS, the applicant agrees to implement all environmental measures as set forth in this agreement, at no cost to the County, including:

	AMOUNT	APP./DATE
a. Grading, erosion and sediment control Required performance security amount	N/A	DVL
b. Storm water management Required performance security amount (List facilities separately)	N/A	DVL
c. Forest conservation Required performance security amount	N/A	DVL
d. Forest buffer mitigation Required performance security amount	N/A	DVL
e. Wetland mitigation Required performance security amount	N/A	DVL
f. Chesapeake Bay Critical Area mitigation Required performance security amount	N/A	DVL
g. Other (Specify) _____ Required performance security amount	N/A	DVL

EnvAgre2
6/22/98; rev. 4/03/02; rev. 9/22/04; rev. 12-5-13

Now, THEREFORE, THIS AGREEMENT WITNESSETH:
THAT, for and in consideration of the provisions and benefits herein contained, the parties do hereby agree as follows:

1. The applicant agrees:
 - a. To implement all required environmental measures for this project in accordance with applicable permits, plans and performance requirements.
 - b. To post security(ies) with the County as required in Baltimore County Code Section 32-4-312, in accordance with applicable time frames and procedures specified in the Baltimore County Code and the Department of Environmental Protection and Resource Management Policy, Rules and Regulations Manual.
 - c. To process any request(s) for reduction to security(ies) in accordance with Baltimore County Code Section 32-4-313 and the Department of Environmental Protection and Resource Management Policy, Rules and Regulations Manual.

WITNESS the signatures of:

Date 10/6/22

Signed D'Andrea L. Walker (Seal)

D'Andrea L. Walker- Director of Public Works

Witness [Signature]

Address COUNTY OFFICE BUILDING

111 W. CHESAPEAKE AVE

TOWSON MD 21204

APPROVED

By [Signature]
Director of Environmental Protection and Sustainability
[Signature]

10/6/22
DATE

rev. 4/03/02; rev. 9/22/04; rev. 12/5/13



JOHN A. OLSZEWSKI, JR.
County Executive
STORMWATER MANAGEMENT

DAVID V. LYKENS, *Director*
Department of Environmental Protection
and Sustainability
410-887-3768

Department of Environmental Protection & Sustainability
Interoffice Memorandum

TO: Erin McKenna-Streyle, Chief
Water Design Section
Department of Public Works

FROM: Kritty Udhin, P.E., Manager
Stormwater Management

DATE: October 11, 2022

SUBJECT: Hospital Drive/Lennings La. Water Main Replacement
Stormwater Management Variance
Back River Watershed
Project I.D. M220256
EPS Tracking # 06-22-3775

This office has reviewed the information submitted and finds that a stormwater management variance can be granted for this project under Section 33-4-113 (a) (2) of Title 4 of the Baltimore County Code. Section 33-4-114 (a) (2) allows a stormwater management variance to be granted if there are exceptional circumstances such that strict adherence to the provisions of this section would result in unreasonable hardship or practical difficulty and not fulfill the intent of the regulations.

This project is for the replacement of existing 8" and 12" water main by cut and cover along Hospital Drive and Lennings Lane. The existing cover conditions will be re-established once the water mains are replaced. Although the disturbed area is in excess of 5,000 square feet, there will be no increase in impervious area or runoff resulting from the project.

Please contact Charu Malhotra, P.E. at 410 887-3768 should you have any questions.

KU:cm

APPENDICES

Baltimore City & Baltimore County Contractor Shutdown Request Form

Date Form Submitted _____

Submittal # _____

Please note that the following request form ***must be emailed ten (10) working days*** prior to requested shutdown date. Please email request to **John.Watford@baltimorecity.gov**

and copy: Opinder.Singh@baltimorecity.gov

Kris.Carter@baltimorecity.gov

Brian.Ball@baltimorecity.gov

Dale.Walker@baltimorecity.gov

(shutdowns on mains >12 -inch)

(shutdowns on mains >12 -inch)

If you have any questions, or need additional assistance, please call **Mr. Watford** at **410-396-3671**.

General Information

<input type="checkbox"/> Contract <input type="checkbox"/> Developer's Agreement (Check One)	Charge No: (For Contract Only)	Contract / D.A. Name & Number:
--	--------------------------------	--------------------------------

Contact Information

<input type="checkbox"/> Resident Engineer or <input type="checkbox"/> Field Inspector Name: (Check One)	Resident Engineer or Field Inspector Phone #: Email:	
Contractor Name:	Contractor Phone #:	Contractor Email:
Field Contact Name:	Field Contact Phone #:	

Shutdown Information

Requested Date / Time	
Requested Rain Date / Time (Due to cancellation/postponement)	
Description of Work	
Location of Construction (address and/or street from point A to point B) <input type="checkbox"/> Copy of Relevant D.A./ Contract Drawing Attached	
Estimated Time of Water Work Construction	
Number of Services Affected	
Significant Consumers Affected	

Resident Engineer / Field

Contractor

Date

8' 0"

GREEN BORDER

2"

2"



FULL COLOR COUNTY SEAL

BALTIMORE COUNTY DPWT HOSPITAL DRIVE AND LENNINGS LANE WATER MAIN REPLACEMENT

Baltimore County Executive
John A. Olszewski Jr.
and the Baltimore County Council

DEPARTMENT of PUBLIC WORKS &
TRANSPORTATION
Contract No.: 22171 WX0
For Additional Information
Call: 410-887-3531

ENGINEER: _____
CONTRACTOR: _____

4' 0"

2"

2"

4" X 4" POSTS

3/4" EXTERIOR PLYWOOD

GREEN LETTERS
ON LUMINOUS WHITE BACKGROUND

NOTE: All costs of furnishing, erecting & maintaining the "Improvement Sign", including posts, shall be included in the "Lump Sum" bid. For MOBILIZATION. Contractor to provide 2 sign (s).

EX. GRADE

3' 0"

224

SECTION IV

Permits



Baltimore County, Maryland
Department of Permits, Approvals, and Inspections
BUILDING PERMIT

Permit Number: CEN22-000177

Permit Type: Commercial Enviromental

Sub Type: Grading

Date Issued: 04/05/2023

Expiration Date: 04/04/2025

Table with 2 columns: Property Information and Lot Size and Setbacks. Property Information includes address, city, tax ID, district, and use details. Lot Size and Setbacks includes size and setback measurements for front, rear, right, and left yards.

Owner Information

Owner: D'Andrea L. Walker- DPW & T Director
Owner Address: 111 W. Chesapeake Avenue, Towson, MD, 21204
Tenant: n/a
Applicant: Jos Venturina

C. Pete Gutwald, AICP, Director

E. John Bryan, Building Engineer

*Please log into your account to get up-to-date information regarding the permit process and related inspections. Refer to the Permit Number when making inquires.



Baltimore County, Maryland
Department of Permits, Approvals, and Inspections
BUILDING PERMIT

Permit Number: CEN22-000177

Permit Type: Commercial Environmental

Sub Type: Grading

Date Issued: 04/05/2023

Expiration Date: 04/04/2025

Building Permit Contractor

Name of Contractor:

Phone Number:

Address:

City, State, Zip: , ,

Is Owner Contractor?:

Building Permit Information

Description of Work: Grading for the installation of 8" and 12" water mains to replace existing 8" and 12" water mains including replacing and installing fire hydrants. Work will be done along Hospital Drive, Mayflower Road and Lennings Lane. No grade change. This is a "County Job" Capital Project. Disturbed area 22265sf. This permit expires two years from date of issue. No construction to begin until pre-construction meeting. Failure to comply will result in penalties. Schedule pre-construction through your portal.

C. Pete Gutwald, AICP, Director

E. John Bryan, Building Engineer

*Please log into your account to get up-to-date information regarding the permit process and related inspections. Refer to the Permit Number when making inquiries.

SECTION V

Proposal

This Section to be
Completed by Time of Bid

SECTION - V
PROPOSAL

DESCRIPTION OF WORK

Bid Opening via Teleconference WebEx: Tuesday, September 12, 2023 @ 10:45 A.M. EST. via, WebEx Phone Number 1-415-655-0001, Access Code Number 2312 581 7877.

Begin Work within Fifteen (15) Days after NOTICE TO PROCEED.

Working Days for Completion: Three Hundred Sixty (360) WORKING DAYS

Liquidated and Other Damages: FIVE HUNDRED DOLLARS (\$500.00) PER WORKING DAY

Cost Group “E” (\$2,500,001 to \$5,000,000)” (Prequalified contractors with a Cost Group restriction must bid within the dollar amount stated on their Certificate of Prequalification)

Work Classification: F2 with a A2 subcontractor

TO BALTIMORE COUNTY, MARYLAND: Furnish and install approximately 4,883 linear feet (LF) of 8” Ductile Iron Pipe & Fittings – Class 54, zinc coated with polyethylene encasement. Furnish and install approximately 1,932 linear feet (LF) of 12” Ductile Iron Pipe & Fittings – Class 54, zinc coated with polyethylene encasement. ***Rosedale – District 14c6.***

The following listed Drawing Number(s) are collectively the “Drawings”, and are hereby incorporated in the Contract.

<u>Job Order No. / Project No.</u>	<u>Drawing Number’s</u>
231-203-0067-0732 / 030670732	2021 – 2303 thru 2315 / 2022 – 1915 thru 1929

Note: No successful bidder may withdraw their bid within Ninety (90) days after the opening thereof.

A Pre-bid will be held on Wednesday, August 30, 2023 @ 10:30 A.M. EST. via WebEx PH. 1-415-655-0001, Access Code 2315 755 6432. This meeting will cover only Wage Rates & MBE. No project questions will be discussed.

The Contractor hereby declares that it has carefully examined the solicitation, plans and specifications, form of contract, Special Provisions and Drawings (collectively the “Contract Documents”). The Contractor also hereby declares that it has carefully examined the February 2000 “Standard Specifications for Construction and Materials” and “Standard Details for Construction,” collectively the “Applicable County Law” and any and all Department of Public Works revisions thereto as of the date of advertisement. The Contract Documents, the Applicable County Law and the Department of Public Works revisions thereto are collectively the “Specifications” and are incorporated herein. Copies of any and all Department of Public Works revisions including but not limited to Addendum No. 3 and General Conditions Building Projects, are on file and available in the Division of Construction Contracts Administration, County Office Building, Towson, Maryland, and can be downloaded and printed from the internet using Acrobat Reader at:

<http://www.baltimorecountymd.gov/Agencies/publicworks/standardsandspecs/specsanddetails.html>

Also, the Contractor has, to its satisfaction, examined the locality of the proposed work and agrees to furnish all labor, tools, materials, machinery, equipment, and other means of construction called for in the manner provided in the Specifications for the prices shown on the next page(s) and as evidenced by Contractor’s signature on the last page thereof.

SCHEDULE OF PRICES

NOTE: The Bidder shall fill out this Proposal, write in the unit prices in clear numerals, and make the extensions.

For complete information concerning these items, see Specifications and contract forms.

C O N T R A C T - P R O P O S A L

CONTRACT NUMBER Project NUMBER ELECTION DISTRICT NUMBER ESTIMATE OF WORKING DAYS
 22171WX0 030670732 14C6 360

-----PROJECT DESCRIPTION-----
 HOSPITAL DRIVE & LENNINGS LANE 8" & 12" WATER MAIN REPLACEMENT

CONTRACTOR NAME - _____ PREQUAL.NO. - _____ VENDOR NO. - _____
 ADDRESS - _____ TELE.NO. - _____

BID/ALT ITEM	DESCRIPTION OF ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	BID UNIT PRICE	ESTIMATE TOTAL PRICE
1	MOBILIZATION	LS	--N/A--	---N/A---	-----*--
2	CONSTRUCTION STAKEOUT	LS	--N/A--	---N/A---	-----*--
3	MAINTENANCE OF TRAFFIC	LS	--N/A--	---N/A---	-----*--
4	ENGINEERS OFFICE #2	EA	1	-----*--	-----*--
5	12" DIP & FITTINGS - CLASS 54, ZINC COATED W/ POLYETHYLENE ENCASEMENT	LF	1,932	-----*--	-----*--
6	8" DIP & FITTINGS - CLASS 54, ZINC COATED W/ POLYETHYLENE ENCASEMENT	LF	4,883	-----*--	-----*--

C - INDICATES CONTINGENT ITEMS

22171WX0 PAGE - 1

* - IF NO CENTS, WRITE NO-CENTS

* - TWO DIGIT CENTS IN UNIT & TOTAL PRICES ONLY.

BID/ALT ITEM	DESCRIPTION OF ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	BID UNIT PRICE	ESTIMATE TOTAL PRICE
7	6" DIP & FITTINGS - CLASS 54, ZINC COATED W/ POLYETHYLENE ENCASEMENT	LF	165	*	*
8	4" DIP & FITTINGS - CLASS 54, ZINC COATED W/ POLYETHYLENE ENCASEMENT	LF	22	*	*
9	4 IN. TEMPORARY BY-PASS LINES	LF	5,258	*	*
10	2 IN. TEMPORARY BY-PASS LINES	LF	1,719	*	*
11	12 IN. VALVE & VAULT - VERTICAL	EA	4	*	*
12	8 IN. VALVE & VAULT - VERTICAL	EA	9	*	*
13	6 IN. VALVE & VAULT - VERTICAL	EA	8	*	*
14	4 IN. VALVE & VAULT - VERTICAL	EA	1	*	*
15	6 IN. FIRE HYDRANT, FURNISH & INSTALL	EA	7	*	*
16	REMOVE EXISTING FIRE HYDRANT AND VALVE	EA	7	*	*

C - INDICATES CONTINGENT ITEMS

22171WX0

PAGE - 2

* - IF NO CENTS, WRITE NO-CENTS

* - TWO DIGIT CENTS IN UNIT & TOTAL PRICES ONLY.

BID/ALT ITEM	DESCRIPTION OF ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	BID UNIT PRICE	ESTIMATE TOTAL PRICE
17	3/4 IN. WATER SERVICE TAP & CORPORATION	EA	47	*	*
18	3/4 IN. COPPER WATER SERVICE & FITTINGS	LF	470	*	*
19	1 IN. WATER SERVICE TAP & CORPORATION	EA	5	*	*
20	1 IN. COPPER WATER SERVICE & FITTINGS	LF	50	*	*
21	1-1/2 IN. WATER SERVICE TAP & CORPORATION	EA	2	*	*
22	1-1/2 IN. COPPER WATER SERVICE & FITTINGS	LF	20	*	*
23	2 IN. WATER SERVICE TAP & CORPORATION	EA	1	*	*
24	2 IN. COPPER WATER SERVICE & FITTINGS	LF	10	*	*
25	INLET PROTECTION - CURB	EA	9	*	*
26	PLACING FURNISHED TOPSOIL 4 IN. DEPTH	SY	20	*	*
27	SILT FENCE	LF	800	*	*

C - INDICATES CONTINGENT ITEMS

22171WX0

PAGE - 3

* - IF NO CENTS, WRITE NO-CENTS

* - TWO DIGIT CENTS IN UNIT & TOTAL PRICES ONLY.

BID/ALT ITEM	DESCRIPTION OF ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	BID UNIT PRICE	ESTIMATE TOTAL PRICE
28	SEEDING	SY	20	*	*
29	MULCHING	SY	50	*	*
30	CALCIUM CHLORIDE	TON	2	*	*
31	REMOVE & REPLACEMENT EXISTING CURB AND GUTTER	LF	200	*	*
32	REMOVE & REPLACE CONCRETE SIDEWALK	SF	24	*	*
33	GRADED AGGREGATE BASE - MAINTENANCE OF TRAFFIC/ STAGE 1	TON	2,400	*	*
34	HOT MIX ASPHALT - TEMPORARY TRENCH REPAIR - STAGE 1	TON	293	*	*
35	HOT MIX ASPHALT SUPERPAVE 9.5MM - PG64-22, LOW ESALS (OVERLAY)	TON	373	*	*
36	HOT MIX ASPHALT SUPERPAVE 12.5MM - PG64-22, LOW ESALS (BASE)	TON	560	*	*
37 C	MILLING EXISTING PAVEMENT - 2" DEPTH	SY	5,500	*	*

C - INDICATES CONTINGENT ITEMS

22171WX0

PAGE - 4

* - IF NO CENTS, WRITE NO-CENTS

* - TWO DIGIT CENTS IN UNIT & TOTAL PRICES ONLY.

BID/ALT ITEM	DESCRIPTION OF ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	BID UNIT PRICE	ESTIMATE TOTAL PRICE
38 C	REPLACEMENT OF METER SETTING - ALL SIZES	EA	5	*	*
39 C	REPLACEMENT OF METER VAULT, FRAME AND COVER	EA	5	*	*
40 C	GEOTEXTILE	SY	1,000	*	*
41 C	TEST PIT EXCAVATION (TRADITIONAL METHOD)				
	--- AT --- FIXED --- PRICE --- SHOWN ---	CY	20	360.00	7,200.00
42 C	TEST PIT EXCAVATION (VACUUM)				
	--- AT --- FIXED --- PRICE --- SHOWN ---	CY	20	650.00	13,000.00
43 C	CL.3 EXCAVATION/SELECT BACKFILL W PROPER DISP DISPOSAL OF UNSUITABLE MATERIAL				
	--- AT --- FIXED --- PRICE --- SHOWN ---	CY	480	130.00	62,400.00
44 C	MIX NO. 1 CONCRETE				
	--- AT --- FIXED --- PRICE --- SHOWN ---	CY	10	450.00	4,500.00
45 C	BORROW FOR BACKFILLING TRENCHES W PROPER DISP DISPOSAL OF UNSUITABLE MATERIAL				
	--- AT --- FIXED --- PRICE --- SHOWN ---	CY	2,200	80.00	176,000.00
>>> TOTAL COST FOR CONTRACT --- 22171WX0				\$	* <

C - INDICATES CONTINGENT ITEMS

22171WX0

PAGE - 5

* - IF NO CENTS, WRITE NO-CENTS

* - TWO DIGIT CENTS IN UNIT & TOTAL PRICES ONLY.

BID/ALT ITEM	----- DESCRIPTION OF ITEM -----	UNIT OF MEASURE	ESTIMATED QUANTITY	----- BID UNIT PRICE	ESTIMATE TOTAL PRICE
-----------------	---------------------------------	--------------------	-----------------------	-------------------------	-------------------------

DOLLARS AND _____/100

TOTAL COST FOR CONTRACT IN WORDS _____

OFFICER SIGNATURE

TITLE

C - INDICATES CONTINGENT ITEMS

22171WX0

PAGE - 6

* - IF NO CENTS, WRITE NO-CENTS

* - TWO DIGIT CENTS IN UNIT & TOTAL PRICES ONLY.

PROPOSAL AFFIDAVIT

1. AUTHORIZED REPRESENTATIVE

I HEREBY AFFIRM THAT:

I am the [title] _____ and the duly authorized representative of [business] _____ (the "Business") and that I possess the legal authority to make this Affidavit on behalf of myself and the Business for which I am acting.

2. PROPOSAL CERTIFICATION

THE UNDERSIGNED HEREBY ACKNOWLEDGES receipt of the following Addenda (list by number and date):

_____.

Accompanying this Proposal is a Bid Bond in an amount of 5% of the bid, the exact amount to be determined by the difference between the low bid and the next lowest bid, if two or more bids are received, or 5% of the bid if one bid is received. This guarantees payment to Baltimore County of the amount thus determined as liquidated damages in case of default in any matter specified as required before award or in any matter resulting in failure to execute and deliver an Agreement, together with Payment and Performance Bonds, after award.

3. AFFIRMATION REGARDING BRIBERY CONVICTIONS

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the Business, nor any of its officers, directors, partners, or any of its employees directly involved in obtaining or performing contracts with public bodies (as is defined in Section 16-101(f) of the State Finance and Procurement Article of the Annotated Code of Maryland), has been convicted of, or has had probation before judgment imposed pursuant to Section 6-225 of the Criminal Procedure Article of the Annotated Code of Maryland, or has pleaded nolo contendere to a charge of, bribery, attempted bribery, or conspiracy to bribe in violation of Maryland law, or of the law of any other state or federal law, except as follows [indicate the reasons why the affirmation cannot be given and list any conviction, plea, or imposition of probation before judgment with the date, court, official or administrative body, the sentence or disposition, the name(s) of person(s) involved, and their current positions and responsibilities with the Business]:

_____.

4. AFFIRMATION REGARDING OTHER CONVICTIONS

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the Business, nor any of its officers, directors, partners, or any of its employees directly involved in obtaining or performing contracts with public bodies, has:

- (1) Been convicted under state or federal statute of a criminal offense incident to obtaining, attempting to obtain, or performing a public or private contract, fraud, embezzlement, theft, forgery, falsification or destruction of records, or receiving stolen property;
- (2) Been convicted of any criminal violation of a state or federal antitrust statute;

(3) Been convicted under the provisions of Title 18 of the United States Code for violation of the Racketeer Influenced and Corrupt Organization Act, 18 U.S.C. §1961, et seq., or the Mail Fraud Act, 18 U.S.C. §1341, et seq., for acts arising out of the submission of bids or proposals for a public or private contract;

(4) Been convicted of a violation of the State Minority Business Enterprise Law, Section 14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland;

(5) Been convicted of conspiracy to commit any act or omission that would constitute grounds for conviction or liability under any law or statute described in subsection (1), (2), (3), or (4) above;

(6) Been found civilly liable under a state or federal antitrust statute for acts or omissions in connection with the submission of bids or proposals for a public or private contract;

(7) Admitted in writing or under oath, during the course of an official investigation or other proceedings, acts or omissions that would constitute grounds for conviction or liability under any law or statute described above, except as follows [indicate reasons why the affirmations cannot be given, and list any conviction, plea, or imposition of probation before judgment with the date, court, official or administrative body, the sentence or disposition, the name(s) of the person(s) involved and their current positions and responsibilities with the Business, and the status of any debarment]:

5. AFFIRMATION REGARDING DEBARMENT

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the Business, nor any of its officers, directors, partners, or any of its employees directly involved in obtaining or performing contracts with public bodies, has ever been suspended or debarred (including being issued a limited denial of participation) by any public entity, except as follows [list each debarment or suspension providing the dates of the suspension or debarment, the name of the public entity and the status of the proceeding, the name(s) of the person(s) involved and their current positions and responsibilities with the Business, the grounds of the debarment or suspension, and the details of each person's involvement in any activity that formed the grounds of the debarment or suspension]:

6. AFFIRMATION REGARDING DEBARMENT OF RELATED ENTITIES

I FURTHER AFFIRM THAT:

(1) The Business was not established and it does not operate in a manner designed to evade the application of or defeat the purpose of debarment pursuant to Sections 16-101, et seq., of the State Finance and Procurement Article of the Annotated Code of Maryland; and

(2) The Business is not a successor, assignee, subsidiary, or affiliate of a suspended or debarred business, except as follows: [you must indicate the reasons why the affirmations cannot be given without qualification]:

7. SUB-CONTRACT AFFIRMATION

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the Business, has knowingly entered into a contract with a public body under which a person debarred or suspended under Title 16 of the State Finance and Procurement Article of the Annotated Code of Maryland will provide, directly or indirectly, supplies, services, architectural services, construction related services, leases of real property, or construction.

8. AFFIRMATION REGARDING COLLUSION

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the Business, nor any of its officers, directors, members or partners, nor any of its employees, have in any way:

(1) Agreed, conspired, connived, or colluded to produce a deceptive show of competition in the compilation of the accompanying bid or offer that is being submitted;

(2) In any manner, directly or indirectly, entered into any agreement of any kind to fix the bid price or price proposal of the bidder or offeror or of any competitor, or otherwise take any action in restraint of free competitive bidding in connection with the contract for which the accompanying bid or offer is submitted;

(3) Colluded with anyone to obtain information concerning the bid that would give the Business an unfair advantage over others.

9. POLITICAL CONTRIBUTION DISCLOSURE AFFIRMATION

I FURTHER AFFIRM THAT:

The Business affirms that it is aware of, and will comply with, the provisions of Sections 14-101 through 14-108 of the Election Law Article of the Annotated Code of Maryland, which require that every person who makes, during any 12-month period, one or more contracts, with one or more Maryland governmental entities involving cumulative consideration, or at least \$200,000.00, shall file with the State Board of Elections certain specified information to include disclosure of attributable political contributions in excess of \$500 during defined reporting periods.

10. CERTIFICATION OF CORPORATION REGISTRATION AND TAX PAYMENT

I FURTHER AFFIRM THAT:

(1) The Business is a _____ (State) (Corporation), (LLC), (Partnership), (Sole Proprietor/Individual), (Other: _____), that it **is** registered in accordance with the Corporations and Associations Article of the Annotated Code of Maryland, that it **is** in good standing in the State of Maryland, and that it **has** filed all of its annual reports, together with filing fees, with the Maryland State Department of Assessments and Taxation, and that the name and address of its resident agent filed with the State Department of Assessments and Taxation is:

Name: _____
Address: _____

(If none, so state).

(2) Except as validly contested, the Business has paid, or has arranged for payment of, all taxes due the State of Maryland and Baltimore County, and has filed all required returns and reports with the Comptroller of the Treasury, the State Department of Assessments and Taxation, and the Employment Security Administration, as applicable, and will have paid all withholding taxes due the State of Maryland prior to final settlement.

11. CONTINGENT FEES

I FURTHER AFFIRM THAT:

The Business has not employed or retained any person, partnership, corporation, or other entity, other than a bona fide employee or agent working for the Business, to solicit or secure the Contract, and that the Business has not paid or agreed to pay any person, partnership, corporation, or other entity, other than a bona fide employee or agent, any fee or other consideration contingent on the making of the Contract.

12. NONDISCRIMINATION IN EMPLOYMENT STATEMENT

I FURTHER AFFIRM THAT:

During the performance of any contract awarded of which this affidavit is a part:

(1) The Business will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, national origin, marital status, sexual orientation, genetic information, or disability unrelated in nature and extent so as to reasonably preclude the performance of the employment, or because of the individual's refusal to submit to a genetic test or make available the results of a genetic test. The Business will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, age, national origin, marital status, sexual orientation, genetic information, or disability unrelated in nature and extent so as to reasonably preclude the performance of the employment, or because of the individual's refusal to submit to a genetic test or make available the results of a genetic test. Such action shall include, but not be limited to the following: employment, promotion, upgrading, demotion or transfer, rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Business agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the owner setting forth provisions of this nondiscrimination clause.

(2) The Business will, in all solicitations or advertisements for employees placed by or on behalf of the Business, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, national origin, marital status, sexual orientation, genetic information, or disability unrelated in nature and extent so as to reasonably preclude the performance of the employment, or because of the individual's refusal to submit to a genetic test or make available the results of a genetic test.

(3) The Business shall send to each labor union or representative of workers with which the Business has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the owner, advising the said labor union or workers' representative of these commitments, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The Business shall furnish, if requested by the County, a compliance report concerning our employment practices and policies in order for the County to ascertain compliance with the special provisions of this affidavit concerning nondiscrimination in employment.

(5) In the event of the Business's noncompliance with the nondiscrimination clause of this affidavit, the contract may be canceled, terminated, or suspended in whole or in part, and the Business may be declared ineligible for further County work.

(6) The Business shall include the special provisions outlined herein pertaining to nondiscrimination in employment in every subcontract, so that such nondiscrimination in employment provisions shall be binding on each subcontractor or vendor.

13. FOREIGN CONTRACTS

I FURTHER AFFIRM THAT:

The Business affirms that it is aware of, and will comply with, the provisions of Sections 10-2-110 Article 10. Finance, Title 2 – Purchasing, Baltimore County Code 2003, which requires that prior to the award of a contract for services under the provisions of this title, and during the entire term of a contract award, the bidder or vendor shall disclose to the County whether any services covered by the bid or contract, including any subcontracted services, will be performed outside the United States. The disclosure shall be made to the Office of Budget and Finance, Purchasing Bureau.

14. MINORITY BUSINESS ENTERPRISE AND FEMALE CONTRACTORS

THIS BUSINESS INTENDS to affirmatively seek out and consider minority business enterprises to participate in this contract as subcontractors and/or suppliers of materials and services.

THE UNDERSIGNED UNDERSTANDS AND AGREES: that any and all subcontracting of supplies and services in connection with this contract, whether undertaken before or after award of contract, will be in accordance with the Minority Business Enterprise and Female Contractor requirement included in the Bid Proposal package and incorporated herein as if fully set forth; and

THE UNDERSIGNED ALSO UNDERSTANDS AND AGREES that no subcontracting will be approved until Baltimore County has reviewed and approved the affirmative actions taken by this firm.

15. REQUIREMENTS FOR EXECUTING AFFIDAVIT & PROPOSAL

The Affidavit must be signed in ink in order for the bid to be accepted and that the Proposal must be typewritten or filled out in ink.

THE UNDERSIGNED ALSO UNDERSTANDS that:

Proposals submitted by an INDIVIDUAL must be signed by an individual.

Proposals submitted by a PARTNERSHIP must be signed by the partner who is legally authorized authority to bind the partnership. Attach a copy of the Partnership Agreement and a duly certified resolution evidencing the authority of the partner so signing on behalf of the partnership.

Proposals submitted by a CORPORATION must be signed by a legally authorized officer of the corporation and attested to by the Corporate Secretary. Attach a copy of the Articles of Incorporation, By-Laws and a duly certified Board Resolution evidencing the authority of the officer so signing on behalf of the corporation.

Proposals submitted by a LIMITED LIABILITY COMPANY must be signed by a legally authorized member of the company and attested to. Attach a copy of the Operating Agreement, Articles of Organization and a duly certified resolution evidencing the authority of the member so signing on behalf of the limited liability company.

NOTE: The contractor may file with the County a list of the names of those officers, partners or members, as applicable, having legal authority to execute documents on behalf of and legally bind the contractor, duly certified, as applicable and legally required, together with the aforesaid corporate documents, which shall remain in full force and effect until such time as the County Department of Public Works Construction Contract Administration is advised in writing to the contrary.

16. **ACKNOWLEDGMENT**

I ACKNOWLEDGE THAT this Affidavit is to be furnished to the County and may be distributed to units of (1) Baltimore County; (2) the State of Maryland; (3) other counties or political subdivisions of the State of Maryland; (4) other states; and (5) the federal government. I further acknowledge that this Affidavit is subject to applicable laws of the United States and the State of Maryland, both criminal and civil, and that nothing in this Affidavit or any contract resulting from the submission of this bid or proposal shall be construed to supersede, amend, modify or waive, on behalf of Baltimore County, or the State of Maryland or any unit of the State of Maryland having jurisdiction, the exercise of any statutory right or remedy conferred by the Constitution and the laws of Maryland with respect to any misrepresentation made or any violation of the obligations, terms and covenants undertaken by the Business with respect to (a) this Affidavit, (b) the contract, and (3) other Affidavits comprising part of the contract.

I DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THIS AFFIDAVIT ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

WITNESS/ATTEST:

Date:_____

By:_____
Name:
Title:
(Authorized Representative and Affiant)

BID BOND

Principal _____

Business Address of Principal _____

Surety _____

Obligee: **BALTIMORE COUNTY, MARYLAND**
A body corporate and politic

A Corporation of the State of _____ and authorized to do business in Maryland

Five Percent of Bid Amount _____ \$ _____ 5% of Bid

Penal Sum of Bond [shall be determined pursuant to latest revised Specification / G.P. 2.07 (2000 Ed.)]

Hospital Drive & Lennings Lane 8" & 12" Water Main Replacement
Contract Name

22171 WX0
Contract Number/Proposal Item Number

KNOW ALL MEN BY THESE PRESENTS, that we, the Principal, above named, and Surety, above named, and authorized to do business in the State of Maryland, are held and firmly bound unto the Obligee, above named, in the penal sum of the amount stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that if the aforesaid Principal is the apparent low bidder and complies with all specified matters required before award or if the aforesaid Principal is awarded the contract, the said Principal will, within the time required, execute and deliver to the Obligee a formal contract and good and sufficient payment and performance bonds in the form provided by the Obligee, then, this obligation to be void; otherwise the Principal and Surety will, upon demand, pay unto the Obligee the entire Penal Sum of this Bid Bond as liquidated damages.

THE SURETY FURTHER GUARANTEES No Proposal will be considered unless accompanied by a guaranty of the amount specified in the Proposal in the form of either a certified check, bank cashier's check or a Bid Bond on the form provided therein or an exact facsimile thereof. The Bid Bond must be executed by a Surety that is, as of the date of the Bid: (a) licensed in the State of Maryland, (b) rated "B" or better by the A.M. Best Company, (c) on federal funded projects, authorized by the underwriting limitation contained in the U.S. Department of the Treasury Circular 570, as amended, to guaranty the amount of the Bid, and (d) in good standing as determined by the County's Engineer. The Bid Bond must guaranty payment to the County of liquidated damages as follows: (a) if only one Bid is received, the guaranteed payment shall be five (5%) percent of the Bidder's Bid amount, (b) if two or more Bids are received, the guaranteed payment shall be the difference between the Bidder's Bid amount and the next lowest Bid amount, subject to the limitation that the guaranteed payment not be greater than five (5%) percent of the Bidder's Bid amount. This Bid Bond is required in case the successful Bidder, after issuance of notice of Award, fails to comply, timely and completely, with each of the requirements set forth under Section GP-3.04.

Signed and sealed _____
Date

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

In Presence of:

Individual Principal

Witness: _____

as to: _____ (SEAL)

Print Name: _____

Print Name: _____

Corporate Principal

In Presence of:

(Name of Corporation)

Witness: _____

By: _____

Print Name: _____

Print Name: _____ (SEAL)

Title: _____

Surety

(Name of Surety)

Business Address: _____

Witness: _____

By: _____ Affix

Print Name: _____

Print Name: _____ Corporate

Title: _____ Seal

Blank

Blank

**BALTIMORE COUNTY
PREVAILING WAGE AND LOCAL HIRING**

AFFIDAVIT

(Project Name) _____

Proposal No.: _____

Project No.: _____

On behalf of _____, I do solemnly declare and affirm,
(Contractor)
under penalty of perjury, that to the best of my knowledge, information, and belief:

1. I have submitted all documentation in accordance with Baltimore County Code §-10-2-506 and -§-10-2-507 regarding the prevailing wage and local hiring laws and requirements of the Prevailing Wage guidelines located at ([Prevailing Wage Law](#)), and that I have read and agree to all provisions of said law, as amended, and have a continuing obligation to be compliant with any changes to the law.

2. I shall not knowingly provide any false information relating to payroll documentation and or hiring of local employees for capital improvement contracts that are subject to the prevailing wage and/or local hiring laws of Baltimore County. I further attest and certify that all documentation relating to the same will be accurate and complete and will remain accurate and complete on an ongoing basis, and will reflect the payroll and/or local hiring status of contractors, subcontractors, apprentices, and independent contractors performing work for the Contract (contract number _____). I acknowledge that I have been informed and am aware of the foregoing requirements and that I am authorized to make this certification on behalf of myself and all subcontractors and parties performing work pursuant to this Contract.

3. I certify and attest that I am an officer or agent of the Contractor or subcontractor who supervises the payment of employees. I understand and agree that all documentation related to prevailing wages and/or local hiring required by law shall be submitted to Baltimore County's Prevailing Wage Administrator or designee before any surety is released or final payment due under the terms of the Contract is made.

4. I further certify and attest that I will have personal knowledge of the wages paid to all employees of _____ for work performed on the Contract and of all of the hours worked, and that I am an authorized agent of the Contractor and assume responsibility for my actions.

5. I further certify and attest that _____ will comply with prevailing wage rates set by the State of Maryland as the same apply to the Contract and are a part of the bid documents and Contract, and that _____ will comply with applicable local hiring requirements.

6. I attest and certify that, if the Contract is subject to the local hiring requirement under 10-2-507 of the Baltimore County Code, _____ will make best efforts to ensure that residents of Baltimore County constitute 51% of the new hires made for the Contract, subject to all exceptions allowable by law.

7. I certify and attest that, if the Contract is subject to prevailing wage requirements, no rebates or deductions will be made, directly or indirectly, from any wages paid in connection with the Contract, other than those provided for by law.

8. I certify and attest that, if awarded the Contract and if the Contract is subject to prevailing wage law, I will submit certified payroll to the County through its Prevailing Wage software, PRISM. (<https://baltimorecounty.prismcompliance.com/>)

Contractor/Bidder/Offeror

By

Printed Name

Printed Title

Date

Phone

Email

License Number

BALTIMORE COUNTY, MARYLAND

Prevailing Wage and Local Hiring Contract Requirements and Policies

The Contractor and all Subcontractors must comply with the Prevailing Wage Law and Local Hiring Requirements contained in Baltimore County Code § 10-2-506 and § 10-2-507, respectively, as amended. Prevailing wage means the wage rate paid by employers that is determined by a governmental authority, based upon a particular geographic area, for a given class of labor and type of project. The County will use the prevailing wage established by the State of Maryland Commissioner of Labor and Industry for state funded construction contracts in the county at the time of award. These rates include the basic hourly rate and fringe benefits. Apprentices must be paid at least the rate that the state's apprenticeship and training council sets for an apprentice in the trade involved, based on a percentage of the prevailing wage rate in that trade. Any Contractor that is subject to the prevailing wage or local hiring law will be required to agree to the below provisions:

For the purposes of these requirements, an employee means an apprentice, laborer or mechanic employed by a contractor or subcontractor on a capital improvement project with a value of over \$300,000 and a County-subsidized capital project with a value over \$5,000,000.

Capital Improvement Project does not include blanket order or open end agreements, capital improvement projects subject to a federal or state prevailing wage law, awarded without competition; with another governmental entity; to the extent the contractor is precluded from compliance by the terms of any federal or state law, contract or grant; entered into pursuant to Baltimore County Code § 10-2-310(e); entered into as a joint or cooperative purchase or entered into as an emergency purchase.

The purpose of a prevailing wage is to ensure that contractors institute local hiring practices for Capital Improvement contracts and Capital Projects under certain circumstances as required by law, and that the Contractor's employees who work on capital improvement contracts are paid the going rate for their services. The prevailing wage rates are established by the State of Maryland Department of Labor and apply to all of the Contractor's employees and any and all Subcontractors. The Contractor and all Subcontractors must comply with all of the requirements of the Prevailing Wage Law including, but not limited to, the following:

1. Pay employees the prescribed rate as annually established by the State of Maryland Commissioner of Labor and Industry; the prevailing wage rates in effect on the date a solicitation is issued will apply throughout the term of a contract resulting from that solicitation. . Contractor or subcontractor may NOT split or subdivide a capital improvement contract, pay an employee through a third party, treat an employee as a subcontractor or independent contractor to avoid any requirement of the County's prevailing wage law; or employ an individual classified as a helper or trainee to perform direct and measurable work on a capital improvement contract.

2. Pay employees at a rate equal to or more than the prevailing wage rate currently in effect for the type of work performed
3. Pay employees overtime for work (I) more than eight hours in any single calendar day; (II) more than 40 hours in a work week; or (III) on a Sunday or a legal holiday.
4. Classify employees in their proper work classification in conformance with the schedule established by the State of Maryland Commissioner of Labor and Industry.
5. May only make fair and reasonable deductions that are (1) required by law; (2) authorized in a written agreement between an employee and contractor or subcontractor signed at the beginning of employment that concerns food, sleeping quarters, or similar items; and submitted by the contractor or subcontractor to the Director of the County's Prevailing Wage Program; or required or allowed by a collective bargaining agreement between a bona fide labor organization and a contractor or subcontractor.

Electronically submit a certified copy of payroll records through <https://baltimorecounty.prismcompliance.com/> within 14 days after the end of each payroll period, to verify that Prevailing Wage rates have been paid to employees.

6. Retain records for a period of five (5) years after the work is completed and permit the Director of the County Prevailing Wage Program, or his designee, to inspect the payroll records at a reasonable time and as often as necessary.
7. Payroll records shall contain a statement signed by the contractor or subcontractor certifying that the payroll records are complete and correct; the wage rates are not less than required by the Prevailing Wage law; and the rate of pay and classification for each employee accurately reflects the work the employee performed.
8. All payroll records shall include the name, address, telephone number and email address of the contractor or subcontractor; the name and location of the job; and each employee's name, current address, unless previously reported; specific work classification; daily basic time and overtime hours; total basic time and overtime hours for the payroll period; rate of pay; fringe benefits by type and amount; and gross wages. Late submission of copies of any payroll records may be deemed deficient by the County until the required records are provided, and the County may postpone processing payments due under the Contract or under an agreement to finance the Contract.
9. Submit to random or regular audits and investigation of any complaint of a violation of the County's prevailing wage and local hiring laws and requirements.
10. Make best efforts to fill at least 51% of new jobs required to complete the capital improvement contract or capital project with Baltimore County residents.

Submit monthly reports on the form designated by and to the Director of the Department of Economic and Workforce Development relating to local hiring with respect to a capital

improvement contract over \$300,000 and County-subsidized capital project receiving assistance over \$5,000,000 that includes 1) the number of new hires needed for the contract or project, 2) the number of County residents hired during the reporting period, 3) the total number of all employees hired during the contract period, 4) best efforts made to fill open positions with County residents, and 5) for new hires: name, last four (4) digits of the social security number, job title, hire date, address and referral source.

11. Agree that any and all disputes will be handled as set forth in the County's Prevailing Wage and Local Hiring laws. as a condition of award

12. In the event the County determines that a provision of the Prevailing Wage Law has been violated, the County shall issue a written decision, including appropriate sanctions, and may withhold payment due the Contractor in an amount sufficient to pay each employee of the Contractor or any Subcontractors the full amount of wages due under the Prevailing Wage Law, and an amount sufficient to satisfy a liability of a Contractor for liquidated damages as provided under the Prevailing Wage Law, pending a final decision on the violation by the County. The Contractor may appeal a written decision of the Director of Economic and Workforce Development to the Office of Administrative Hearings ("OAH"), that the Contractor violated a provision of the Prevailing Wage Law, within ten (10) working days after receiving a copy of the decision. OAH will conduct a hearing upon the receipt of a timely appeal. If no appeal, the decision of the Director of Economic and Workforce Development or his designee becomes final. A Contractor who is found to have violated the provisions of the Prevailing Wage or Local Hiring laws intentionally, may not be awarded a County contract or work on any County project for a period of one year from the date of the OAH determination..

13. May not discharge, or otherwise retaliate against, an employee for asserting any right under the Prevailing Wage Law or for filing a complaint of a violation;

14. An aggrieved employee is a third-party beneficiary of this Contract and may by civil action recover the difference between the prevailing wage for the type of work performed and the amount actually received, with interest and a reasonable attorney's fee.

15. Each Contract subject to the Prevailing Wage Law may specify the payment of liquidated damages to the County by the Contractor for any noncompliance with the Prevailing Wage Law. Liquidated damages are:

- 1) \$10 for each calendar day that the payroll records are late; \$20 for each day that an employee is misclassified and paid less than the prevailing wage rate; and a civil penalty \$50 per violation of the requirement to post the prevailing wage rates at the work site.

These liquidated damages are solely related to prevailing wage and local hiring compliance and do not negate any other remedies available or set forth in the Contract, including delay damages or actual damages. These remedies are separate, in addition to, and not in lieu of any remedies available and set forth in the Contract for other breaches or defaults under the Contract.

16. Where the initial Contract Sum is \$300,000 or below, but it is subsequently increased and exceeds \$300,000 due to an approved Contract Modification, the amount of any such Contract Modification that causes the Contract Sum to exceed \$300,000 is subject to the Prevailing Wage Law and Local Hiring requirements.

17. The Contractor and all Subcontractors must post a clearly legible statement of each prevailing wage rate in a prominent and easily accessible place at the Work Site during the entire time Work is being performed, in English and any other language that is primarily spoken by the employees, at the Work Site.

Classification	Modification Reason	Basic Hourly Rate	Borrowed From	Fringe Benefit Payment
CARPENTER	AD	\$31.40		\$14.02
CARPENTER - SHORING SCAFFOLD BUILDER	AD	\$31.40		\$14.02
CEMENT MASON	AD	\$20.00	025	\$4.53
ELECTRICIAN	AD	\$42.80	510	\$18.18
IRONWORKER - FENCE ERECTOR	AD	\$28.23	025	\$19.64
IRONWORKER - REINFORCING	AD	\$29.67		\$22.74
IRONWORKER - STRUCTURAL	AD	\$34.85	027	\$25.17
LABORER - AIR TOOL OPERATOR	AD	\$23.16		\$6.64
LABORER - ASPHALT PAVER	AD	\$23.16		\$6.64
LABORER - ASPHALT RAKER	AD	\$23.16		\$6.64
LABORER - BLASTER - DYNAMITE	AD	\$23.16		\$6.64
LABORER - BURNER	AD	\$23.16		\$6.64
LABORER - COMMON	AD	\$23.16		\$6.64
LABORER - CONCRETE PUDDLER	AD	\$23.16		\$6.64
LABORER - CONCRETE SURFACER	AD	\$23.16		\$6.64
LABORER - CONCRETE TENDER	AD	\$23.16		\$6.64
LABORER - CONCRETE VIBRATOR	AD	\$23.16		\$6.64
LABORER - DENSITY GAUGE	AD	\$23.16		\$6.64
LABORER - FIREPROOFER - MIXER	AD	\$23.16		\$6.64
LABORER - FLAGGER	AD	\$23.16		\$6.64
LABORER - GRADE CHECKER	AD	\$23.16		\$6.64
LABORER - HAND ROLLER	AD	\$23.16		\$6.64
LABORER - HAZARDOUS MATERIAL HANDLER	AD	\$23.16		\$6.64
LABORER - JACKHAMMER	AD	\$23.16		\$6.64
LABORER - LANDSCAPING	AD	\$23.16		\$6.64
LABORER - LAYOUT	AD	\$23.16		\$6.64
LABORER - LUTEMAN	AD	\$23.16		\$6.64
LABORER - MASON TENDER	AD	\$23.16		\$6.64
LABORER - MORTAR MIXER	AD	\$23.16		\$6.64
LABORER - PIPELAYER	AD	\$23.16		\$6.64
LABORER - PLASTERER - HANDLER	AD	\$23.16		\$6.64
LABORER - SCAFFOLD BUILDER	AD	\$23.16		\$6.64
LABORER - TAMPER	AD	\$23.16		\$6.64
MARINE - DIVER	AD	\$41.54		\$16.51
MARINE - DIVER TENDER	AD	\$34.62		\$16.51
MARINE - WELDER	AD	\$27.44	510	\$1.39
MILLWRIGHT	AD	\$34.90		\$17.16
PAINTER - BRIDGE	AD	\$41.68		\$15.08
PILED RIVER	AD	\$34.62		\$16.51
POWER EQUIPMENT OPERATOR - ASPHALT DISTRIBUTOR	AD	\$30.05	510	\$12.60
POWER EQUIPMENT OPERATOR - BACKHOE	AD	\$30.95		\$12.60
POWER EQUIPMENT OPERATOR - BOOM TRUCK	AD	\$30.50	027	\$9.65
POWER EQUIPMENT OPERATOR - BROOM / SWEEPER	AD	\$27.99		\$12.60
POWER EQUIPMENT OPERATOR - BULLDOZER	AD	\$30.95		\$12.60

POWER EQUIPMENT OPERATOR - CONCRETE PUMP	AD	\$31.50		\$9.65
POWER EQUIPMENT OPERATOR - CRANE	AD	\$38.70		\$16.40
POWER EQUIPMENT OPERATOR - DRILL - RIG	AD	\$30.95		\$12.60
POWER EQUIPMENT OPERATOR - EXCAVATOR	AD	\$30.95		\$12.60
POWER EQUIPMENT OPERATOR - FORKLIFT	AD	\$27.99		\$12.60
POWER EQUIPMENT OPERATOR - GRADALL	AD	\$31.95		\$12.60
POWER EQUIPMENT OPERATOR - GRADER	AD	\$31.95		\$12.60
POWER EQUIPMENT OPERATOR - GUARD RAIL POST DRIVER	AD	\$24.85	027	\$11.55
POWER EQUIPMENT OPERATOR - LOADER	AD	\$30.95		\$12.60
POWER EQUIPMENT OPERATOR - MECHANIC	AD	\$30.95		\$12.60
POWER EQUIPMENT OPERATOR - MILLING MACHINE	AD	\$30.95		\$12.60
POWER EQUIPMENT OPERATOR - OILER	AD	\$30.89		\$0.00
POWER EQUIPMENT OPERATOR - PAVER	AD	\$30.05		\$12.60
POWER EQUIPMENT OPERATOR - ROLLER - ASPHALT	AD	\$30.05		\$12.60
POWER EQUIPMENT OPERATOR - ROLLER - EARTH	AD	\$27.99		\$12.60
POWER EQUIPMENT OPERATOR - SKID STEER (BOBCAT)	AD	\$27.99		\$12.60
POWER EQUIPMENT OPERATOR - SKIDDER	AD	\$26.89	025	\$12.10
POWER EQUIPMENT OPERATOR - TRENCHER	AD	\$33.89	025	\$22.91
POWER EQUIPMENT OPERATOR-VACUUM TRUCK	AD	\$35.00		\$13.35
TRUCK DRIVER - DUMP	AD	\$22.00	003	\$11.21
TRUCK DRIVER - DUMP - ARTICULATING	AD	\$22.00		\$5.10
TRUCK DRIVER - FLATBED	AD	\$22.50	003	\$6.50
TRUCK DRIVER - LOWBOY	AD	\$32.50	027	\$0.00
TRUCK DRIVER - TACK/TAR TRUCK	AD	\$24.94		\$7.58
TRUCK DRIVER - TANDEM AD	AD	\$30.68	025	\$21.12
TRUCK DRIVER - TRACTOR TRAILER	AD	\$26.95	510	\$11.15
TRUCK DRIVER - WATER	AD	\$24.94		\$9.22

BALTIMORE COUNTY, MARYLAND
USE OF MINORITY BUSINESS ENTERPRISES AND WOMEN'S BUSINESS ENTERPRISES

IN
COUNTY CONTRACTS
MBE/WBE Plan Package



Office of Budget and Finance
Historic Courthouse
400 Washington Ave
Towson, Maryland 21244
410-887-3407

www.baltimorecountymd.gov/go/mwbe
@BaCoBiz4All



PROSPECTIVE BIDDERS/OFFERORS

Baltimore County Executive Order 2017-003 Use of Minority Business Enterprises and Women's Business Enterprises states:

SECTION 6. BID REQUIREMENTS.

(A)(1) All bidders shall submit a list of all subcontractors contacted in preparation of their bid package or proposal.

(2) The list shall include the service to be performed, bid amount, and the race/ethnicity/gender of the business owner(s).

(B)(1) All bidders shall submit a list of all subcontractors to be used on a county contract in the bid package.

(2) This list shall include all subcontractors (both MBE/WBE and non MBE/WBE) used, the service to be performed, the total amount to be paid, and the race/ethnicity/gender of the owner.

If the solicitation includes a MBE/WBE **subcontracting** goal, you **MUST** demonstrate “**Good Faith**” effort either by:

1. Complete and sign FORM A, FORM B (to include FORM B-Prime if MBE/WBE Prime wishes to count towards the goal) and FORM C **listing all subcontractors** with the initial bid submission.
 - a. *All Forms must be completed and signed. However, FORM C **MUST** be completed and signed by both the prime and the MBE/WBE subcontractor.*
- OR**
2. If you are unable to meet any portion of the goal, you **MUST** do one of the following:
 - a. If you are requesting a **partial waiver**, complete and sign FORM A with initial bid submission. FORM B (to include FORM B-Prime if MBE/WBE Prime wishes to count towards the goal) and FORM C (**listing all subcontractors**). In addition, complete, sign and submit FORM D and FORM E **accompanied with all supporting documentation** for the portion of the goal that will not be achieved as specified on FORM A.
 - b. If you are requesting a **full waiver**, complete and sign FORM A indicating your intent to request a full waiver **accompanied with a completed and signed FORM C listing all subcontractors**, FORM D and FORM E **accompanied with all supporting documentation. This MUST be submitted with the initial bid as specified on FORM A.**
 - c. *All Forms must be completed and signed. FORM C and FORM D **MUST** be completed and properly signed by both the Prime **AND** the MBE/WBE subcontractor(s).*

NOTE: The MBE/WBE **subcontracting** goal applies to **ALL** prime/general contractors including certified and non-certified minority and women owned firms. **However, a Minority-owned or a Women-owned prime may self-perform up to 50% of MBE/WBE subcontracting goal set in the solicitation. The MBE/WBE primes that wish to count towards the goal must list themselves on all appropriate forms.**

10/25/2019

MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE REQUIREMENTS (MBE/WBE): The resulting minority and women business participation requirement for this contract is 25%.

_.1 Each Prime Contractor must comply with all Minority Business Enterprise and Women Business Enterprises (MBE/WBE) participation requirements. Included with this solicitation package are copies of the County's MBE/WBE policy and provisions and MBE/WBE participation schedule forms. All MBE/WBE participation forms must be completed, executed, and **returned with the bid, proposal or qualifications** if a goal has been assigned. MBE/WBE participation forms are available online at www.baltimorecountymd.gov/go/mwbe or you may contact the buyer on the solicitation.

_.2 The Prime Contractor shall comply with the required participation levels on a cumulative basis for the full term of the contract. The Prime Contractor shall estimate the participation level (for the full term of the contract) for each subcontractor and/or supplier listed on the participation schedule.

_.3 If no minimum participation level has been assigned, the Prime Contractor shall nevertheless make a genuine good faith effort to comply with the County's MBE/WBE minimum participation goal even if the Prime Contractor has the capability to complete the work with its own workforce. The Prime Contractor shall make a good faith effort to obtain MBE/WBE subcontractor participation. The selected MBE/WBE subcontractor(s) must perform a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved.

Certified Minority-owned or Certified Women-owned Prime Contractors may count their participation for up to 50% of the solicitation goal. Certified firms must make a good faith effort to obtain MBE/WBE subcontractor participation for the remaining portion of the goal. Example: 20% MBE/WBE participation goal. Certified Minority-owned or Certified Women-owned firm bidding as the prime may count for 10% of the goal provided they are self-performing the work. The remaining 10% must be subcontracted to an MDOT and/or City of Baltimore certified firm.

If the materials or supplies are purchased from an MBE/WBE supplier, 60% of the cost of the materials or supplies from the certified MBE/WBE supplier will be counted toward the MBE/WBE goal.

The failure of a Bidder/Offeror to properly complete and submit the appropriate MBE/WBE plan forms and, if applicable, required Good Faith Effort (GFE) documentation shall result in the bid/proposal being deemed as nonresponsive and not susceptible of being selected for award.

x.x Within 10 working days of receiving notification that the Bidder/Offeror is the apparent awardee, the Bidder/Offeror shall provide the following documentation to the Buyer:

a. BCG FORM C-Subcontractor MBE-WBE SUBCONTRACTOR PARTICIPATION NOTICE OF INTENT TO AWARD accompanied by a fully executed copy of the subcontract for each subcontractor.

b. Any other documentation required by the Buyer to ascertain Bidder's/Offeror's susceptibility of being selected for award in connection with the certified MBE/WBE participation goal.

NOTE: If the apparent awardee fails to return each completed document within the required time, THE PROCUREMENT OFFICER MAY DETERMINE THAT THE APPARENT AWARDEE IS NOT RESPONSIBLE AND THEREFORE NOT SUSCEPTIBLE FOR CONTRACT AWARD.

x.x Prospective Bidders/Offerors are advised to carefully review the Minority and Disadvantage Business Enterprise Package regarding MBE/WBE or DBE participation.

x.x All MBE/WBE subcontractors must be MDOT or Baltimore City certified at the time of bid/proposals submission to count towards the MBE/WBE solicitation subcontract goal.

x.x If the Bidder/Offeror is a certified Minority or Women Business Enterprise, it should be so indicated with the certification number in the Bid or Technical Proposal.

4. Under circumstances where mobilization payments are issued to the Prime Contractor, the subcontractor shall be paid an amount equal to their participation percentage no later than five (5) business days before they are required to mobilize to perform the contracted work.

The Prime Contractor shall submit proof of mobilization payment to subcontractors when the subcontractor performs their initial item of work in the MBE/WBE Compliance portal.

5. **Prompt Payment**

The Prime Contractor agrees to pay each subcontractor under this contract for satisfactory performance of its responsibilities under the applicable subcontract within 30 days of the subcontractor's satisfactory completion of the work as accepted by Baltimore County, Maryland. The Prime Contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractor's satisfactory completion of work. Any delay or postponement of payment from the above referenced time frame may occur only for good cause

following written approval of Baltimore County, Maryland. This clause applies to both MBE/WBE and non-MBE/WBE subcontracts.

- The Prime Contractor shall report the subcontractor's mobilization cost as the initial payment in the PRiSM Compliance Portal found under Compliance Reporting for Prime and Sub-Contractors at www.baltimorecountymd.gov/go/MBE/WBE.
- The Prime Contractor must include in its subcontracts language providing that the Prime Contractor and the subcontractors will use appropriate alternative dispute resolution mechanisms to resolve payment disputes.
- The Prime Contractor will not be reimbursed for work performed by subcontractors unless and until the Prime Contractor ensures that the subcontractors are promptly paid for the work they have performed.
- Prime Contractors may be subject to liquidated damages pursuant to Maryland and/or Baltimore County law, to ensure that MBE/WBEs and other contractors are fully and promptly paid.

_.6 All Prime Contractors and MBE/WBE and/or DBE subcontractors are required to report monthly to the County through the online Compliance Portal (PRISM). The portal can be found under *Compliance Reporting for Prime and Sub-Contractors* at www.baltimorecountymd.gov/go/MBE/WBE. Prime Contractors must provide a contact person and contact information for the MBE/WBE compliance reporting. If the Prime Contractor cannot submit its report on time, it must notify the County MBE/WBE Office and request additional time to submit the report. Failure to report in a timely manner may result in a finding of noncompliance, and may result in a finding of default under the terms of the contract. The County, in its sole discretion, may require additional reports regarding MBE/WBE. Questions regarding the use of this system can be directed to the MBE/WBE Office at mwbe@baltimorecountymd.gov or call 410-887-3407.

Revised 4/5/2023

BALTIMORE COUNTY, MARYLAND **MBE/WBE PARTICIPATION SUMMARY**

Executive Order: Minority business enterprises and women business enterprises (MBE/WBE) shall have the maximum opportunity to participate in the performance of contracts financed in whole, or in certain circumstances, in part with County funds. Accordingly, on December 6, 2022, the County Executive adopted the EXECUTIVE ORDER No. 2022-005 addressing MBE/WBE participation in County contracts. The Executive Order may be found on the Baltimore County website at www.baltimorecountymd.gov/go/mwbe.

Each Contract: The County shall establish a minimum MBE/WBE participation amount for each contract, as applicable.

Bidder/Officer Responsibility: The bidder/officer shall ensure that MBE/WBE participation occurs in accordance with the contract requirements and the County Executive's Executive Order. All bidder/officers shall ensure that MBE/WBE have the maximum opportunity to compete for and perform County contracts, as applicable. Baltimore County, Maryland, and/or its bidders/officers and contractors shall not discriminate on the basis of race, color, national origin, disability or sex in the award and performance of any County contract.

APPROVED MBE/WBE LISTINGS

Published compilations of approved and certified MBE/WBE, contractors, subcontractors, material suppliers, etc. include:

1. DIRECTORY OF MINORITY BUSINESS ENTERPRISE (MDOT):
<https://marylandmdbe.mdbecert.com/>
2. MINORITY BUSINESS DIRECTORY OF THE CITY OF BALTIMORE:
<http://cityservices.baltimorecity.gov/mwboo/>

BIDDER/OFFEROR'S ACTIONS

Seeking Firms: The bidder/officer will seek commitments by subcontract or otherwise from MBE/WBE firms for supplies and/or services, any combined value of which equals or exceeds the required percentage of MBE/WBE participation goal for the County contract. However a MBE/WBE Prime that affirms its MBE/WBE status on the Minority and/or Women Prime Participation Affidavit may count up to 50% of the goal.

1. Expenditures for Materials and Supplies: **REGULAR DEALER**: A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a regular dealer, the firm must engage in as its principal business and in its own name, the purchase and sale of the products in question. A regular dealer in such bulk items as cement, gravel, stone and petroleum need not keep such products in stock, if it owns or operates distribution equipment. Brokers and Packagers shall not be regarded as manufacturers or regular dealers within the meaning of this section.

A **Regular Dealer** must be engaged in selling the product in question to the public. This is important in distinguishing a **Regular Dealer**, which has a regular trade with a variety of customers, from a firm which performs supply-like functions on an ad hoc basis or for any one or two contractors with whom it has a special relationship.

A business that simply transfers title of a product from manufacturer to ultimate purchaser (e.g. broker or sales representative who re-invoices a product from the producing company to the

BALTIMORE COUNTY, MARYLAND
MBE/WBE PARTICIPATION SUMMARY

recipient or contractor) or a firm that puts a product in a container for delivery **would not** be considered a **Regular Dealer**.

A supplier of bulk goods may qualify as a **Regular Dealer** if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment (e.g., a fleet of trucks), the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party, (e.g., a prime contractor) or leases such a party's trucks on an ad hoc basis for a specific job.

Any participating DBE/MBE must serve a commercially useful function on a contract and not function as a broker, unless certified as a broker (insurance, real estate, etc). A firm is considered to perform a commercially useful function when it executes a distinct element of work by actually performing, managing and supervising the work involved and/or negotiating the cost of, arranging and accepting delivery of, and paying for the materials or supplies required for the work of its contract. **A contractor may count toward its DBE/MBE goal 60 percent of its expenditures for materials and supplies required under the contract and obtained from a DBE/MBE, regular dealer and 100 percent of such expenditures to a DBE/MBE manufacturer.**¹

2. Customary Fees: Fees may be counted by a contractor towards its DBE/MBE goals for the following expenditures to DBE/MBE firms that are not manufacturers or regular dealers:
 - a. The fees or commissions charged for providing a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies required for performance of the contract, provided that the fee or commission is determined by the County to be reasonable and not excessive as compared with fees customarily allowed for similar services.
 - b. The fees charged for delivery of materials and supplies required on a job site (but not the cost of the materials and supplies themselves) when the hauler, trucker, or delivery service is not also the manufacturer of or a regular dealer in the materials and supplies, provided that the fee is determined by the County to be reasonable and not excessive as compared with fees customarily allowed for similar services.
 - c. The fees or commissions charged for providing any bonds or insurance specifically required for the performance of the contract, provided that the fee or commission is determined by the County to be reasonable and not excessive as compared with fees customarily allowed for similar services.

Information to be supplied: All bidders/offerors shall submit the following information to the County at the time of bid submission:

1. The name of an employee designated as the bidder/offeror's liaison to the County's Minority Business Enterprise Unit.

¹ MDOT MBE Manual https://www.mdot.maryland.gov/MBE_DOCS/mbe_manual.pdf
PB 056 Revised 4/3/2023

BALTIMORE COUNTY, MARYLAND
MBE/WBE PARTICIPATION SUMMARY

2. The following forms shall be completed and submitted
 - Certified MBE/WBE Utilization and Fair Solicitation Affidavit (**Form A**); from among those names appearing in the Approved MBE/WBE Listings (excepting Federal Highway Administration projects, which exclusively require DBE approved and certified by the Maryland Department of Transportation Certification Committee);
 - A MBE/WBE Participation (**Form B**) completed and signed by the prime contractor and MBE/WBE for each MBE/WBE listed on the Form.
 - A MBE/WBE Disclosure and Participation Statement (**Form C**) completed and signed by the prime contractor and MBE/WBE firms for each MBE/WBE listed on the Form. Form C must match what is stated on Form B.
 - If applicable, MBE/WBE Subcontractor Unavailable Certificate (**Form D**) completed and signed by the prime contractor and MBE/WBE for each MBE/WBE listed on the Form.
3. If applicable, MBE/WBE Outreach Efforts - Compliance Statement (**Form E**) completed and signed by the Bidder/Offeror. The prime shall submit a list of all subcontractors.
4. If the bidder/offeror intends to fulfill the MBE/WBE requirements by use of a joint venture, he/she must submit a Joint Venture Disclosure Affidavit (**Form D-EEO-006-A and B**) showing the extent of MBE/WBE participation. If a bidder/offeror intends to use an MBE/WBE joint venture as a subcontractor to meet its MBE/WBE requirements, the affidavit must be submitted through the bidder/offeror by the proposed subcontractors and signed by all parties.
5. If the bidder/offeror's proposed MBE/WBE participation does not meet the MBE/WBE contract requirements, information sufficient to demonstrate that the bidder/offeror has made every effort to meet the requirements must be submitted. (See DETERMINATION OF BID RESPONSIVENESS hereafter)

RECORDS AND REPORTS

Returning Records: The bidder/offeror must keep such records as are necessary to determine compliance with its MBE/WBE utilization requirements:

1. The MBE/WBE and non-minority contractors, type of work being performed, actual values of work and services.
2. Documentation of all correspondence, contacts, telephone calls, etc., to obtain MBE/WBE services for the contract.
3. All prime contractors and MBE/WBE sub-contractors are required to report monthly to the County through an online system called PRISM. If the contractor cannot submit his/her report on time, he/she will notify the County MBE/WBE office and request additional time to submit the report. Failure of the contractor to report in a timely manner may result in a finding of noncompliance.
4. The County in its sole discretion and/or upon written request may require additional reports regarding MBE/WBE.

BALTIMORE COUNTY, MARYLAND
MBE/WBE PARTICIPATION SUMMARY

- a. **Prompt Payment of Subcontractors:** It is the policy of the Baltimore County Government MWBE Office that a contractor shall promptly pay a subcontractor any undisputed amount to which a subcontractor is entitled under a procurement contract.

The Prime Contractor agrees to pay each subcontractor under this contract for satisfactory performance of its responsibilities under the applicable subcontract within 30 days of the subcontractor's satisfactory completion of the work as accepted by Baltimore County, Maryland. The Prime Contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractor's satisfactory completion of work. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of Baltimore County, Maryland. This clause applies to both MBE/WBE and non-MBE/WBE subcontracts.

1. The Prime Contractor must include in its subcontracts language providing that the Prime Contractor and the subcontractors will use appropriate alternative dispute resolution mechanisms to resolve payment disputes.
2. The Prime Contractor will not be reimbursed for work performed by subcontractors unless and until the Prime Contractor ensures that the subcontractors are promptly paid for the work they have performed.
3. Prime Contractors may be subject to liquidated damages pursuant to Maryland and/or Baltimore County law, to ensure that DBEs and other contractors are fully and promptly paid.

Retaining Records: All MBE/WBE records must be retained for 3 years following the expiration or any earlier termination of the contract and shall be available for inspection and photocopying by the County.

Investigation and Notification: Whenever the County believes the bidder/offeror, contractor, or any subcontractor may not be operating in compliance with the MBE/WBE requirements, the County may, in its sole discretion, conduct an investigation. If the County finds the bidder/offeror, contractor, or any subcontractor is not in compliance with the MBE/WBE requirements, the County may exercise any and all rights and remedies available to the County, under the contract, at law or equity, as deemed applicable and appropriate by the County in its sole discretion.

DETERMINATION OF BID RESPONSIVENESS

Request for Deviation: If the bidder/offeror is unable to procure from MBE/WBE firms (by subcontract or otherwise), supplies and services, any combined value of which equals the required percentage of the total value of the contract, the bidder/offeror may request, in writing, a deviation or waiver of the contract requirements. To obtain such a waiver, the bidder/offeror must submit the following information at the time bids are due:

The request for waiver request shall include (1) a signed unavailability statement (Form D) executed by all MBEs and WBEs that the bidder/offeror solicited for participation and (2) Outreach Efforts/Compliance Statement (Form E) that demonstrates the bidder/offeror's good faith efforts to comply with the contract requirements, including copies of solicitation documentation to all potential subcontractors:

BALTIMORE COUNTY, MARYLAND
MBE/WBE PARTICIPATION SUMMARY

Emails, letters, facsimile transmittals and confirmations containing plans, specifications, and anticipated time schedule for portions of the work to be performed and meeting notes and agendas clearly identifying the certified MBE or WBE classification and dates that the bidder/offeror contacted each MBE/WBE; and

Telephone logs containing names, addresses, dates, telephone numbers, work to be performed, anticipated time schedule and classification of certified MBEs and WBEs contacted.

Bid Rejection: The failure of any bidder/offeror (including the apparent low bidder/offeror) to provide a responsive MBE/WBE Plan as required by the solicitation may result in the bidder/offeror being deemed non-responsive and the County's rejection of the bid.

Liquidated Damages If the County issues a notice of intent to award contract to the apparent low bidder/offeror who provided a responsive MBE/WBE Plan, but, if after said notice and before execution of Contract Documents, it is determined by the County that the apparent low bidder/offeror has failed to comply with the MBE/WBE Plan, such failure may result in the recommendation by the appropriate Procurement Official to annul the award and forfeit the bidder/offeror's Proposal Guaranty to the County, not as a penalty, but as liquidated damages, it being acknowledged that actual damages will be difficult if not impossible to accurately measure. In addition, the County may proceed as it determines to be in its best interest, including but not limited to, the Notice of Award may be made to the next lowest responsive and responsible bidder/offeror or the work may be re-advertised.

Penalties: Baltimore County, Maryland (the "County") requires all Prime Contractors and all Subcontractors to submit monthly reports through an online MBE/WBE Compliance Portal (PRISM). The Portal can be found under Compliance Reporting for Primes and Subcontractors at <https://baltimorecounty.prismcompliance.com/>

To ensure that reports are filed in a timely manner, and that MBE/WBE requirements are met, the County will assess penalties for non-compliance, as follows:

- (a) For failure to file timely monthly reports:
 - a. Assessment of a late fee of \$10 per day per task, up to a maximum of \$1,500 per task and/or
 - b. For multiple violations, termination of the contract for convenience or for default, with the contractor suspended from participating in County contracts for five (5) years.
- (b) For failure to meet MBE/WBE requirements:
 - a. Assessment of a liquidated damages of up to 10% of the contract value; and/or
 - b. Termination of the contract for convenience, with the contractor suspended from participating in County contracts for five (5) years together with assessment of a liquidated damages of up to 10% of the contract value; and/or
 - c. Termination of the contract for default together with assessment of a liquidated damages of 10% of the contract value.

Contract Breach: If, after execution of a County contract, the contractor becomes aware it may or will fail to fulfill the applicable MBE/WBE requirements and/or may or will deviate from the contractor's bid response/contract terms, the contractor shall promptly advise the County of this in writing. Thereafter, the County will determine what action or remedy is appropriate on a case-by-case basis, in the County's sole discretion.

BALTIMORE COUNTY, MARYLAND
MBE/WBE PARTICIPATION SUMMARY

Approval Required for Changes: Any and all changes to the MBE/WBE subcontractors or the type or amount of work to be performed by such subcontractors during the contract term must be mutually agreeable to the County and the contractor and shall be documented via a contract amendment, executed by legally authorized representatives of the County and the contractor.

Cooperation in Reviews: The bidder/offeror will cooperate with the County in any reviews of the contractor's procedures and practices with respect to MBE or WBE firms, which the County may from time to time conduct in its sole discretion.

Other: If the documents used to determine the contractor's efforts, achievement of, and/or the status of an MBE/WBE requirement or fulfillment thereof contain false, misleading or misrepresented information, the contractor may be declared in breach of the contract and the County may take any and all actions and/or seek remedies available to the County under the contract, at law, or in equity. If an MBE/WBE is disqualified by any public entity, including but not limited to, Baltimore City, the State or MDOT, at any time after award or during the term of the contract, the County may, in its sole discretion, require the prime contractor to promptly submit for County approval, the contractor's plans for fulfilling the required MBE/WBE participation under the contract, and/or request such detail and additional information as the County, in its discretion deems appropriate.



PRIME CONTRACTOR MINORITY AND WOMEN PARTICIPATION AFFIDAVIT

A. AUTHORIZED REPRESENTATIVE

I HEREBY AFFIRM THAT:

I am the [title] _____ and the duly authorized representative of [business] _____ (the "Business") and that I possess the legal authority to make this Affidavit on behalf of myself and the Business for which I am acting.

B. AFFIRMATION REGARDING MINORITY AND WOMEN PARTICIPATION

I FURTHER AFFIRM THAT:

I am aware that, pursuant to the July 27, 2017 Executive Order of Baltimore County, Maryland, the following words have the meanings indicated.

(A) "Minority Business Enterprise" or "MBE" means a business enterprise that is owned, operated and controlled by one or more minority group members (African American, Hispanic American, Asian American, or Native American) who have at least 51% ownership and in which the minority group members have operational and managerial control, interest in capital and earnings commensurate with their percentage of ownership.

(B) "Women's Business Enterprise" or "WBE" means a business enterprise that is owned, operated and controlled by one or more women who have at least 51% ownership and in which the women have operational and managerial control, interest in capital and earnings commensurate with their percentage of ownership.

___ The Prime is a MBE or WBE

Maryland State Department of Transportation (MDOT) # _____

City of Baltimore # _____

Name Other Jurisdiction: _____ # _____

The ownership of the Noncertified MBE/WBE business consists of ___% minorities and ___% women (for a total of ___%), each of which has operational and managerial control, interest in capital and earnings commensurate with their percent ownership.

_____% African American ____% Hispanic American ____% Women
_____% Asian American ____% Native American ____% Disadvantaged (DBE)

___ The MBE/WBE prime anticipates meeting up to 50% of the stated participation goal with its own workforce. **MBE/WBE primes percentage must be stated on the MBE/WBE PRIME PARTICIPATION SCHEDULE (FORM B) to count towards the goal.**

___ The prime anticipates does not anticipate utilizing subcontractors for ___% of the work of the contract requirements, of which it anticipates ___% will be MBEs and ___% will be WBEs.

I DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THIS AFFIDAVIT ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

Date: _____

By: _____
(Authorized Representative and Affiant's Name and Title)

BALTIMORE COUNTY, MARYLAND
Certified MBE/WBE Utilization and Fair Solicitation Affidavit
(FORM A)

**This document must be completed and submitted with Bid/Proposal to Baltimore County.*

NOTE: If you do not complete and submit this form with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer NON-RESPONSIVE and accordingly the COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

* * * * *

I acknowledge the goal for solicitation #22171 WX0 is a minimum of 25%. This goal must be met by any combination of the MBE/WBE subcontractors. However, for instances where the Prime is counting up to 50% of the goal, the remaining goal balance must be met by any combination of the MBE/WBE subcontractors.

- The goal breakdown is as follow::
 - _____ % Minority/Women Prime
 - _____ % for certified MBE-owned businesses and/or
 - _____ % for certified WBE-owned businesses.

I have made a good-faith effort to achieve this MBE/WBE solicitation requirement. If awarded the contract, I will comply with this MBE/WBE contract requirement and will continue to use my best efforts to increase MBE/WBE participation during the contract term.

PLEASE CHECK ONE BOX (EITHER 1, 2, OR 3)

- 1 Prime has met the MBE/WBE contract requirements for this solicitation and contract. I submit the MBE/WBE Participation Form B and Form C, along with this Affidavit, which details how the Prime will achieve the contract requirements. Submit a complete list of all additional subcontractors

Or

- 2 After having made a good-faith effort to achieve the MBE/WBE requirements, the Prime can only achieve partial success. I submit the MBE/WBE Participation Form B, Form C, Form D and Form E along with this Affidavit, which details how the Prime will partially achieve the contract requirements. Submit a complete list of all additional subcontractors

I request a partial waiver and will meet the following MBE/WBE participation goals:

- Partial waiver of MBE/WBE subcontract participation::
 - _____ % Minority/Women Prime
 - _____ % for certified MBE-owned businesses and/or
 - _____ % for certified WBE-owned businesses.

- Or**
- 3 After having made a good faith effort to achieve the MBE/WBE requirements for this contract, the Prime is unable to achieve the requirements and/or sub requirements for this contract. I submit the MBE/WBE Participation Form D and Form E, along with this Affidavit, which details the steps the Prime has taken in an attempt to achieve the contract requirements. Therefore, I request a full waiver.

IF YOU HAVE CHECKED BOX 2 OR 3, THE FOLLOWING IS APPLICABLE:

- 1) If a bidder is unable to comply with the goals established in a bid for a project, the bidder may submit a request for a waiver at the time of bid submission. However, occasions for granting waivers will be limited.

BALTIMORE COUNTY, MARYLAND
Certified MBE/WBE Utilization and Fair Solicitation Affidavit
(FORM A)

- 2) The request for waiver shall include documentation that demonstrates the bidder's good faith efforts to comply with the goals, including:
- (I) Signed unavailability statements from all MBEs and WBEs that the bidder solicited for participation; and
 - (II) Copies of solicitation documentation to include the scope of services to be performed by the subcontractors accompanied with the following:
 - (a) Emails, letters, facsimile transmittals and confirmations containing plans, specifications, and anticipated time schedule for portions of the work to be performed and meeting notes and agendas clearly identifying the certified MBE or WBE classification and dates that the bidder contacted each; and
 - (b) Telephone logs containing names, addresses, dates, telephone numbers, work to be performed, anticipated time schedule and classification of certified MBEs and WBEs contacted.
 - (c) Responses from MBE/WBE firms contacted to fulfill the goal.

As I have checked Box 2 or 3 of this Affidavit, I understand I must submit the following supporting documentation with the bid:

- *MBE/WBE Participation Schedule* (Form B)
- *MBE/WBE Disclosure and Participation Statement* (Form C)
- *MBE/WBE Subcontractors Unavailable Certificate* (Form D) (if applicable)
- *MBE/WBE Outreach Efforts – Compliance Statement* (Form E) (if applicable)

I acknowledge that the MBE/WBE subcontractors/suppliers listed on the *MBE/WBE Participation Schedule* (Form B) will be used to accomplish the percentage of MBE/WBE participation that the Prime shall achieve. A fully executed Form C must match Form B.

In the solicitation of subcontract quotations or offers, MBE/WBE subcontractors were provided the same information and amount of time to respond, as were non-MBE/WBE subcontractors.

The solicitation process was conducted in such a manner so as to not place MBE/WBE subcontractors at a competitive disadvantage to non-MBE/WBE subcontractors.

I solemnly affirm under the penalties of perjury that this Affidavit is true to the best of my knowledge, information, and belief.

Bidder/Offeror Name	Phone Number
Address	Affiant Signature
Address (continued)	Printed Name & Title
E-mail address	Date

**BALTIMORE COUNTY, MARYLAND
SUBCONTRACTOR PARTICIPATION SCHEDULE
(FORM B)**

**This document must be completed and submitted with Bid/Proposal to Baltimore County.*

NOTE: If you do not complete and submit this form with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer NON-RESPONSIVE and accordingly the COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

Prime Name	Prime Address, Telephone Number and Email
Bid/Proposal Name and Number	Project Location
	Base Bid \$ _____
1. Subcontractor Name and Tax ID	Subcontractor Address
Telephone Number _____ Fax Number _____ Select One: <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> SBE <input type="checkbox"/> N/A Provide if Applicable: <input type="checkbox"/> MDOT <input type="checkbox"/> Baltimore City # _____	Minority Status (If applicable): <input type="checkbox"/> African American <input type="checkbox"/> Disabled <input type="checkbox"/> Alaska Native <input type="checkbox"/> Disadvantaged Corporation <input type="checkbox"/> Asian American <input type="checkbox"/> Female <input type="checkbox"/> Asian American Sub-continent <input type="checkbox"/> American Indian <input type="checkbox"/> Pacific <input type="checkbox"/> Hispanic American <input type="checkbox"/> <input type="checkbox"/> Native American <input type="checkbox"/> Small Business <input type="checkbox"/> Other
NAICS Code(s), Work to be Performed and Dollar Amount	Percent of Total Contract
2. Subcontractor Name and Tax ID	Subcontractor Address
Telephone Number _____ Fax Number _____ Select Once: <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> SBE <input type="checkbox"/> N/A Provide if Applicable; <input type="checkbox"/> MDOT <input type="checkbox"/> Baltimore City # _____	Minority Status <input type="checkbox"/> African American <input type="checkbox"/> Disabled <input type="checkbox"/> Alaska Native <input type="checkbox"/> Disadvantaged Corporation <input type="checkbox"/> Asian American <input type="checkbox"/> Female American Indian <input type="checkbox"/> Asian American Sub-continent <input type="checkbox"/> Hispanic American <input type="checkbox"/> Pacific <input type="checkbox"/> Native American <input type="checkbox"/> Small Business <input type="checkbox"/> Other
NAICS Code(s), Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract
3. Subcontractor Name and Tax ID	Subcontractor Address
Telephone Number _____ Fax Number _____ Select Once: <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> SBE <input type="checkbox"/> N/A Provide if Applicable: <input type="checkbox"/> MDOT <input type="checkbox"/> Baltimore City # _____	Minority Status <input type="checkbox"/> African American <input type="checkbox"/> Disabled <input type="checkbox"/> Alaska Native <input type="checkbox"/> Disadvantaged Corporation <input type="checkbox"/> Asian American <input type="checkbox"/> Female American Indian <input type="checkbox"/> Asian American Sub-continent <input type="checkbox"/> Hispanic American <input type="checkbox"/> Pacific <input type="checkbox"/> Native American <input type="checkbox"/> Small Business <input type="checkbox"/> Other
NAICS Code(s), Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract
Subcontractor Total Dollar Amount	Total Subcontractor Percent of Entire Contract
Form Prepared by: Name/Date: _____ Title: _____ Email: _____	Reviewed and Accepted by Baltimore County Minority Business Enterprise Office Name _____ Title _____ Date _____

<input type="checkbox"/> MBE or <input type="checkbox"/> WBE Prime Participation	_____ %	\$ _____
Total MBE Subcontracting Participation	_____ %	\$ _____
Total WBE Subcontracting Participation	_____ %	\$ _____
Total MBE/WBE Participation	_____ %	\$ _____
Total SB/SBE Participation	_____ %	\$ _____

BALTIMORE COUNTY, MARYLAND

**MBE/WBE PRIME PARTICIPATION SCHEDULE
(Form B-Prime)**

PLEASE COMPLETE AND SUBMIT THIS FORM TO ATTEST EACH SPECIFIC ITEM OF WORK THAT YOUR MBE/WBE PRIME FIRM WILL PERFORM USING ITS OWN WORKFORCE PERTAINING TO THE PERCENTAGE STATED MBE/WBE PARTICIPATION SCHEDULE (FORM B) FOR PURPOSES OF MEETING THE MBE/WBE PARTICIPATION GOALS.

**This document must be completed and submitted with Bid/Proposal to Baltimore County.*

NOTE: If you do not complete and submit this form with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer NON-RESPONSIVE and accordingly the COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

Provided that _____ (Prime Contractor's Name) with Certification Number _____ is awarded the County contract in conjunction with Solicitation No. _____, such MBE Prime Contractor intends to perform with its own forces at least \$ _____ which equals to ___% of the Total Contract Amount for performing the following products/services for the Contract:

NAICS CODE	WORK ITEM, SPECIFICATION NUMBER, LINE ITEMS OR WORK CATEGORIES (IF APPLICABLE). FOR CONSTRUCTION PROJECTS, GENERAL CONDITIONS MUST BE LISTED SEPARATELY.	DESCRIPTION OF SPECIFIC PRODUCTS AND/OR SERVICES	VALUE OF THE WORK

<p>MBE PRIME CONTRACTOR</p> <p>Signature of Representative: _____</p> <p>Printed Name and Title: _____</p> <p>Firm's Name: _____</p> <p>Federal Identification Number: _____</p> <p>Address: _____</p> <p>Telephone: _____</p> <p>Date: _____</p> <p>Certified <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Certifying Jurisdiction _____</p>	<p>MBE PRIME CONTRACTOR</p> <p>Minority Status:</p> <p><input type="checkbox"/> African American</p> <p><input type="checkbox"/> Hispanic American</p> <p><input type="checkbox"/> Women</p> <p><input type="checkbox"/> Asian American</p> <p><input type="checkbox"/> Native American</p> <p><input type="checkbox"/> Disadvantaged</p>
---	--

**BALTIMORE COUNTY, MARYLAND
SUBCONTRACTOR DISCLOSURE AND PARTICIPATION STATEMENT
(FORM C)**

**This document must be completed and submitted with Bid/Proposal to Baltimore County.*

NOTE: If you do not complete and submit this form with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer NON-RESPONSIVE and accordingly the COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

NOTE: ANY INCONSISTENCY BETWEEN THIS FORM AND FORM B MBE/WBE PARTICIPATION MAY RENDER A BID/PROPOSAL NON-RESPONSIVE AND THE COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

Contract Name, Bid/Proposal Number: _____

Name of Prime: _____

Name of MBE/WBE Subcontractor: _____

Print Representative Name, Title

Best Contact Information

MDOT Baltimore City

_____ Certification Number

MBE WBE SBE N/A

1. NAICS Code(s), Work/Services to be performed by MBE/WBE Subcontractor: _____

2. Subcontract Amount: \$ _____ or _____ % of the County contract cost.

3. Bonds - Amount and type required of Subcontractor if any: _____

4. MBE/WBE Anticipated Commencement Date: _____ Completion Date: _____

5. This is a MBE-Owned Business Firm: Yes _____ No _____

6. This is a WBE-Owned Business Firm: Yes _____ No _____

NOTE: If the Prime is notified that it will be awarded the above referenced contract, the undersigned MBE/WBE subcontractor and Prime must enter into a subcontract for the work/service indicated above upon the Prime's execution of a contract for the above referenced project with the Baltimore County, and provide a copy of the fully executed MBE/WBE SUBCONTRACTOR PARTICIPATION NOTICE OF INTENT TO AWARD (FORM C-Subcontractor) accompanied with the anticipated Work Breakdown Schedule (providing the subcontractor's mobilization timeframe) to mwbe@baltimorecountymd.gov within 10 calendar days of receipt by the Prime of FORM C-Subcontractor from the County. The undersigned subcontractor is a MDOT or Baltimore City certified MBE/WBE firm. The terms and conditions stated above are consistent with our agreements.

Signature of MBE/WBE Subcontractor: _____ Date: _____

MBE/WBE Subcontractor's Printed Name and Title: _____

The terms and conditions stated above are consistent with our agreements.

Signature of Prime: _____ Date: _____

Prime's Printed Name and Title: _____

**BALTIMORE COUNTY, MARYLAND
MBE/WBE –UNAVAILABILITY CERTIFICATE
(FORM D)**

**If applicable, this document must be completed and submitted with Bid/Proposal to Baltimore County.*

NOTE: If you do not complete and submit this form with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer NON-RESPONSIVE and accordingly the COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

1. It is hereby certified that the firm of _____
(Name of Minority firm)

located at _____
(Number) (Street)

(City) (State) (Zip)

was offered an opportunity to bid on the _____ contract.

2. The _____ (MBE/WBE Firm), is either unavailable for the work/service or unable to prepare a bid for this project for the following reason(s):

Signature of Minority Firms MBE/WBE

Representative Title

Date

MDOT/Baltimore City Certification #

Telephone #

3. PRIME'S SIGNATURE AND CERTIFICATION

I certify under oath that I contacted the Certified MBE/WBE and they advised me that they are unavailable, unable to perform the work/services for the above-contract or failed to respond to repeated requests for a price proposal for the above-contract.

Signature of Prime

Title

Date

BALTIMORE COUNTY, MARYLAND
MBE/WBE - OUTREACH EFFORTS - COMPLIANCE STATEMENT
(FORM E)

**This document must be completed and submitted with Bid/Proposal to Baltimore County.*

NOTE: If you do not complete and submit this form with your bid or offer to the County, the County may, in its sole discretion, deem your bid or offer NON-RESPONSIVE and accordingly the COUNTY WILL NOT CONSIDER YOU FOR CONTRACT AWARD.

In conjunction with the bid or offer submitted in response to Solicitation Number _____, I state the following:

1. Bidder/Offeror identified opportunities to subcontract in these specific work categories:

2. Attached to this form are copies of the solicitation documentation in accordance with Section 6 (E) Bid Requirements of the Executive Order, used to solicit certified MBE/WBEs for the subcontract opportunities accompanied with the signed MBE/WBE Subcontractor Unavailability Certificate (Form D).

3. Bidder/Offeror made the following attempts to solicit MBE/WBEs:

Signature – Bidder Offeror

Print or Type Name of Firm

Street Address

City State Zip Code

Date



DONALD I. MOHLER III
County Executive

KEITH DORSEY, Director
Office of Budget and Finance

To: Contractors/Consultants

From: Minority and Women Business Enterprise Office

Date: July 19, 2018

Subject: Compliance Reporting - Penalties

Baltimore County, Maryland (the "County") requires all Prime Contractors and all Subcontractors to submit monthly reports through an online MBE/WBE Compliance Portal (PRISM). The Portal can be found under Compliance Reporting for Primes and Subcontractors at www.baltimorecountymd.gov/go/mwbe.

The County has found that a number of companies are failing to file reports in a timely manner, which makes it difficult for the County to verify compliance. As a result, the County has determined to assess penalties for non-compliance, effective September 1, 2018, as follows:

- (a) For failure to file timely monthly reports:
 - (i) Assessment of a late fee of \$10 per day per task, up to a maximum of \$1,500 per task; and/or
 - (ii) For multiple violations, termination of the contract for convenience or for default, with the contractor suspended from participating in County contracts for five (5) years.
- (b) For failure to meet MBE/WBE requirements:
 - (i) Assessment of a penalty of up to 10% of the contract value; and/or
 - (ii) Termination of the contract for convenience, with the contractor suspended from participating in County contracts for five (5) years together with assessment of a penalty of up to 10% of the contract value; and/or
 - (iii) Termination of the contract for default together with assessment of a penalty of 10% of the contract value.

Each action and/or remedy described above is at the sole discretion of the County, and is in addition to any damages which the County may be entitled to under the contract.

This short video can be used as guidance on submitting the Prime to Subcontractor Payment Reporting:

http://stage.prismcompliance.com/etc/movies/vendor_contractpayment_tutorial.htm

If after contract expiration it has been determined the MBE/WBE firms named were not used, or were under used, by the contractor and supporting documentation was not provided and approved by the County, the contractor may be assessed a penalty of up to 10% of the contract value and/or suspended from participating in County contracts for 5 years.

Questions regarding this correspondence and/or the use of this system can be directed to the MBE Office at mwbe@baltimorecountymd.gov or call (410) 887-3407.

Cc: File

SECTION VI

POST AWARD DOCUMENTS

**This Section to be Completed
by Successful Bidder after Award**

C O N T R A C T A G R E E M E N T

THIS CONTRACT AGREEMENT (“Contract”), IS MADE THIS _____ day of _____ 20____, by and between Baltimore County, Maryland, a body corporate and politic (“County”), and _____, (“Contractor”).

WITNESSETH, that the Contractor, for and in consideration of the payment or payments herein specified and agreed to by the County, hereby covenants and agrees to furnish and deliver all the materials and to do and perform all the work, services, and labor in fulfillment of the requirements of Contract No. 22171 WX0 (“Project”) in strict conformity with the solicitation, plans, specifications, special provisions, any and all addenda, and the proposal, at the prices named therein, and all of which are collectively the Proposal, and said Proposal is attached hereto and made a part thereof.

The Project shall be done in strict compliance with (i) the Proposal, (ii) the Baltimore County Department of Public Works February 2000 “Standard Specifications for Construction and Materials” and “Standard Details for Construction” (iii) and any and all revisions thereto as of the date of advertisement, including but not limited to the supplemental specification known as Addendum 3 and General Conditions Building Projects, as applicable, and all of which (i-iii) are made a part hereof and incorporated herein (collectively, the “Specifications”). Contractor understands and agrees it is Contractor’s responsibility and obligation to obtain a copy of the “Specifications” and agrees the Specifications are incorporated herein. Copies of the revisions are on file and available at the Division of Construction Contracts Administration, County Office Building, Towson, Maryland, and are on the County’s website at <http://www.baltimorecountymd.gov/Agencies/publicworks/standardsandspecs/specsanddetails.html>. In the event of a conflict between (a) the February 2000 ”Standard Specifications for Construction and Materials” and “Standard Details for Construction” and (b) the supplemental specification known as Addendum 3 and General Conditions Building Projects, as applicable, then (b) the supplemental specification shall control.

The Project shall be subject to the inspection and approval of the Director of Public Works and Transportation for Baltimore County, or his authorized representative, and in the event any portion thereof shall be rejected by said Director or his representative as defective or unsuitable, then the said portion shall be removed and replaced and be performed anew to the satisfaction and approval of the said Director or his representative at the cost and expense of the Contractor.

THE CONTRACTOR AFFIRMS that it is aware of, and will comply with, the provisions of Sections 14-101 through 14-108 of the Election Law Article of the Annotated Code of Maryland, as the same may be amended from time to time, which require that every person who makes, during any 12-month period, one or more contracts, with one or more Maryland governmental entities involving cumulative consideration, of at least \$200,000.00, to file with the State Board of Elections certain specified information to include disclosure of attributable political contributions in excess of \$500 during defined reporting periods.

THE CONTRACTOR FURTHER COVENANTS AND AGREES that all the Project shall be furnished, performed and delivered, in every respect, to the satisfaction and approval of the Director of Public Works and Transportation, aforesaid, on or before the expiration of **Three Hundred Sixty (360) WORKING DAYS** (the “Contract Period”) after written notice has been given by the Director or his/her authorized representative to begin the work.

IT IS AGREED THAT TIME IS OF THE ESSENCE. In the event the Contractor fails to achieve Final Completion and Final Acceptance of the Contract work within the Contract Period specified herein, plus any extensions thereto agreed to in writing by a legally authorized representative of the County pursuant to the terms of this Contract, then Contractor shall pay the County the sum of **FIVE HUNDRED DOLLARS (\$500.00)** as Liquidated Damages for each **WORKING DAY** after the expiration of the Contract Period, as may be extended by the County, until the Contractor achieves Final Completion and Final Acceptance of the Project.

Contractor’s Initials

Date

IT IS FURTHER AGREED that:

- (a) These Liquidated Damages are a reasonable estimate of the County's damages solely due to the public's loss of use of the Project during the delay period and is not a penalty.
- (b) It is very difficult, if not impossible, to accurately measure the damages to the County due to the public's loss of use of the Project during the delay period.
- (c) Notwithstanding GP 8.09 of the Baltimore County Standard Specification for Construction, in addition to the damages due to the public's loss of use of the Project during the delay period, the County is likely to incur additional direct costs during the delay period, including but not limited to, costs for construction management, consultants, architectural services, office trailer and supplies, utilities, County employees' time, County vehicles, and such other costs that the County will incur to continue administration of the construction and the Contract during the delay period, all of which will be monitored by the County, and if so required by the County, the Contractor shall pay such actual damages incurred during the delay period. THE PARTIES HERETO UNDERSTAND AND AGREE THAT CONTRACTOR'S OBLIGATION TO PAY THE COUNTY FOR ACTUAL DAMAGES DURING THE DELAY PERIOD SHALL BE IN ADDITION TO THE CONTRACTOR'S OBLIGATION TO PAY THE LIQUIDATED DAMAGES DUE TO THE PUBLIC'S LOSS OF USE OF THE PROJECT.
- (d) The County shall have the right, but not the obligation, to deduct the Liquidated Damages due to the public's loss of use of the Project, and the County's actual costs and costs to continue administration of the construction and the Contract, from any monies due or any monies that may become due to the Contractor.

IT IS DISTINCTLY UNDERSTOOD AND AGREED that no claim for extra work, material or overhead not specifically provided for in the Contract will be allowed by the County, nor shall the Contractor do any work or furnish any materials not covered by this Contract and the Specifications, unless the same is ordered in writing by a legally authorized representative of the Department of Public Works and Transportation in accordance with the terms of the Contract. Any such work or materials which may be done or furnished by the Contractor without any such written order first being given shall be at said Contractor's sole risk, cost and expense and Contractor hereby covenants and agrees that without such written order, Contractor shall make no claim for compensation for work, materials, or overhead so done or furnished.

NOTWITHSTANDING GP 4.06 OF THE BALTIMORE COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION, IT IS SPECIFICALLY AGREED that the Contractor shall have no entitlement to damages arising out of delay, disruption, interference or hindrance from any cause whatsoever. However, this provision shall not preclude recovery or damages by the Contractor for hindrances or delays due solely to fraud or gross negligence on the part of the County or its agents.

IT IS FURTHER DISTINCTLY AGREED that the said Contractor shall not assign this Contract, nor any part thereof, nor any right to any of the monies to be paid hereunder, nor shall any part of the work to be done or material furnished under said Contract be sublet without the prior written consent of a legally authorized representative of the Department of Public Works and Transportation in accordance with the terms of this Contract. Further, the acceptance of the final payment by the Contractor shall effectuate a release in full of all claims against County and its officials, employees, representatives, and agents arising out of, or by reason of the Project and this Contract.

The Contractor shall review government issued identification and badge all employees of the Contractor and its subcontractors. The Contractor shall also review all federal forms, including but not limited to I-9's, for compliance as well as copies of all employment eligibility and identity documentation maintained to the extent required by law.

The Bonds, given by the Contractor in a sum equal to the total contract price of the Project in compliance with the terms and provisions of this Contract, are hereby attached and incorporated herein.

IT IS AGREED that in the event that the County is delayed or prevented from timely execution of this Contract, the Contractor releases County and agrees Contractor shall have no action, claim or demand against County therefore.

Contractor's Initials

Date

THE CONTRACTOR HEREBY FURTHER AGREES to receive the prices set forth in the Proposal incorporated herein as full compensation for the completion of the Project and, in all respects, to complete said Contract to the satisfaction of the County.

THE CONTRACTOR REPRESENTS AND WARRANTS:

- (i) it is duly formed and validly existing under the laws of the State of _____;
- (ii) it is in good standing in the State of Maryland;
- (iii) it has the power and authority to consummate the obligations and responsibilities contemplated hereby, and has taken all necessary action to authorize the execution, delivery and performance required under this Contract;
- (iv) the Contractor and the person executing this Contract for the Contractor each warrant that he/she is duly authorized by the Contractor to execute and seal this Contract on the Contractor's behalf;
- (v) the warranties of merchantability and fitness for a particular purpose and use and warranties of title and against infringement, and all express warranties contained in this Contract, including but not limited to the Proposal (and any sample or model presented by Contractor and expressly accepted by the County) shall apply to the portion of this Contract pertaining to or for goods;
- (vi) all representations and warranties made in the Proposal and herein remain true and correct in all respects when made, as of the date of this Contract, and throughout the term of this Contract; and
- (vii) there exists no actual or potential conflict of interest between its performance under this Contract and its engagement or involvement in any other personal or professional activities and in the event such conflict or potential conflict arises during the term of this Contract, the Contractor shall immediately advise the County in writing thereof.

THE CONTRACTOR shall not disclose any documentation and information of any kind or nature disclosed to the Contractor in the course of its performance of duties hereunder without the express prior written consent of the County.

Those sections in this Contract which by their nature are intended to survive, including but not limited to, Contractor's representations and warranties, confidential information, and indemnification shall survive the termination of this Contract.

IN WITNESS WHEREOF, the Contractor has hereunto set its hand and seal the day and year first above written.

CONTRACTOR NAME: _____

WITNESS FEDERAL TAX ID or SS #: _____

_____ By: _____ (Seal)

_____ Name: _____

Type (Print) Name

Title: _____ Date: _____

WITNESS: BALTIMORE COUNTY, MARYLAND

_____ By: _____ Date: _____
Executive Secretary Stacy L. Rodgers, County Administrative Officer

Type (Print) Name

APPROVED FOR FORM AND LEGAL SUFFICIENCY* (Subject to execution by the duly authorized Administrative official and Chairperson of the County Council, as indicated).

APPROVED: _____ Date: _____

D'Andrea L. Walker, Director
Department of Public Works and Transportation

Office of the County Attorney
*Approval of Form and Legal Sufficiency does not convey approval or disapproval of the substantive nature of this transaction. Approval is based upon typeset documents. All modifications require re-approval.

PERFORMANCE BOND

Bond No. _____

Principal _____

Business Address of Principal _____

Surety _____

Obligee: **BALTIMORE COUNTY, MARYLAND**
A body corporate and politic

A Corporation of the State of _____ and authorized to do business in Maryland

Penal Sum of Bond (express in words and figures)

DOLLARS \$ _____

Hospital Drive & Lennings Lane 8" & 12" Water Main Replacement

Date of Contract _____ 20 _____

Contract Name
22171 WX0

Date Bond Executed _____ 20 _____

Contract Number

KNOW ALL MEN BY THESE PRESENTS, that we, the PRINCIPAL, above-named, and SURETY, above-named, and authorized to do business in the State of Maryland, are held and firmly bound unto the OBLIGEE, above-named, in the penal sum of the amount stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, THE PRINCIPAL entered into a certain contract with the OBLIGEE described and dated as shown above and is required to provide this bond pursuant to Maryland State law and/or County law and the contract.

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

THE SURETY FURTHER GUARANTEES That it is (a) licensed in the State of Maryland, (b) rated "B" or better by the A.M. Best Company, (c) on federal funded projects, authorized by the underwriting limitation contained in the U.S. Department of the Treasury Circular 570, as amended, to guaranty the amount of the Bid, and (d) in good standing as determined by the County's Engineer. A Performance Bond is required for each and every Contract in excess of twenty-five thousand (\$25,000). A Performance Bond shall be in the amount equal to at least one hundred (100%) percent of the Contract price. The fully executed Performance Bond shall be delivered by the Bidder to the Department's Division of Construction Contracts Administration no later than the time the Contract is to be executed by the Contractor.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals on the date indicated above, the name and seal of each party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

In Presence of: _____ **Individual Principal**

Witness: _____ as to: _____ (SEAL)

Print Name: _____ Print Name: _____

Attest: _____ **Corporate Principal**

(Name of Corporation)

Witness: _____ By: _____ Affix

Print Name: _____ Print Name: _____ Corporate

Title: _____ Seal

Attest: _____ **Surety**

(Name of Surety)

Business Address: _____

Witness: _____ By: _____ Affix

Print Name: _____ Print Name: _____ Corporate

Title: _____ Seal

Reviewed for Baltimore County Requirements

Office of the County Attorney

PAYMENT BOND

Bond Number _____

Principal _____

Business Address of Principal _____

Surety _____

Obligee: **BALTIMORE COUNTY, MARYLAND**
A body corporate and politic

A Corporation of the State of _____ and authorized to do business in Maryland

Penal Sum of Bond (express in words and figures) _____
DOLLARS \$ _____

Hospital Drive & Lennings Lane 8" & 12" Water Main Replacement
Contract Name _____ Date of Contract _____ 20 _____

22171 WX0
Contract Number _____ Date Bond Executed _____ 20 _____

KNOW ALL MEN BY THESE PRESENTS, that we, the PRINCIPAL, above-named, and SURETY, above-named, and authorized to do business in the State of Maryland, are held and firmly bound unto the OBLIGEE, above-named, in the penal sum of the amount stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, THE PRINCIPAL entered into a certain contract with the OBLIGEE described and dated as shown above and is required to provide this bond pursuant to Maryland State law and/or County Law and the contract.

NOW, THEREFORE, the condition of this obligation is such that if the aforesaid PRINCIPAL shall promptly make payments to all persons supplying labor and/or material to the PRINCIPAL and to any subcontractor of the PRINCIPAL in the prosecution of the work provided for in said contract and any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the SURETY being hereby waived, then, this obligation to be void; otherwise to remain in full force and effect.

THE SURETY FURTHER GUARANTEES That it is (a) licensed in the State of Maryland, (b) rated "B" or better by the A.M. Best Company, (c) on federal funded projects, authorized by the underwriting limitation contained in the U.S. Department of the Treasury Circular 570, as amended, to guaranty the amount of the Bid, and (d) in good standing as determined by the County's Engineer. A Payment Bond is required for each and every Contract in excess of twenty-five thousand (\$25,000). A Payment Bond shall be in the amount equal to at least one hundred (100%) percent of the Contract price. The fully executed Payment Bond shall be delivered by the Bidder to the Department's Division of Construction Contracts Administration no later than the time the Contract is to be executed by the Contractor.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals on the date indicated above, the name and seal of each party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

In Presence of: _____ Individual Principal

Witness: _____ as to: _____ (SEAL)

Print Name: _____ Print Name: _____

Attest: _____ Corporate Principal

(Name of Corporation)

Witness: _____ By: _____ Affix

Print Name: _____ Print Name: _____ Corporate

Title: _____ Seal

Attest: _____ Surety

(Name of Surety)

Business Address: _____

Witness: _____ By: _____ Affix

Print Name: _____ Print Name: _____ Corporate

Title: _____ Seal

Reviewed for Baltimore County Requirements

_____ Office of the County Attorney



INSURANCE PROVISIONS

1. GENERAL REQUIREMENTS

- 1.1 Coverages Required:
Unless otherwise required by the specifications or the contract, the Contractor/Vendor shall purchase and maintain the insurance coverage's listed herein.
- 1.2 Certificate of Insurance:
Before starting work on the contract, or prior to the execution of the Contract on those bid, the Contractor/Vendor shall provide Baltimore County, Maryland with verification of insurance coverage evidencing the required coverages.
- 1.3 Baltimore County as Insured:
The coverage required, excluding Workers' Compensation and Employers' Liability and Medical Malpractice Liability/Professional Liability/Errors and Omissions Liability, must include Baltimore County, Maryland and its agents, employees, officers, directors, and appointed and elected officials as an additional insured.
- 1.4 Contractor's/Vendor's Responsibility:
The providing of any insurance herein does not relieve the Contractor/Vendor of any of the responsibilities or obligations the Contractor/Vendor has assumed in the contract or for which the Contractor/Vendor may be liable by law or otherwise.
- 1.5 Failure to Provide Insurance:
Failure to provide and continue in force the required insurance shall be deemed a material breach of the contract. The Contractor/Vendor must maintain the insurance coverages required under the terms and conditions on this Contract while this Contract is in effect including renewal and extension terms.

the performance of the Contract including but not limited to: (a) Collapse of, or structural injury to, any building or structure; (b) Damage to underground property; or

(c) Damage arising out of blasting or explosion.

2.2 Automobile Liability Insurance

- 2.2.1 Minimum Limits of Coverage:
Bodily Injury Liability and Property Damage Liability
Combined Single Limit - \$500,000 any one accident.
- 2.2.2 Minimum Coverages to be Included:
Such insurance shall provide coverage for all owned, non-owned and hired automobiles.

2.3 Workers' Compensation and Employers' Liability Insurance

Such insurance must contain statutory coverage, including Employers' Liability insurance with limits of at least:
Bodily Injury by Accident - \$250,000 each accident
Bodily Injury by Disease - \$500,000 policy limit
Bodily Injury by Disease - \$250,000 each employee

2.4 Valuable Papers and Records Coverage and Electronic Data Processing (Data and Media) Coverage

Minimum Limits of Coverage:
\$100,000 Per Claim and Each Occurrence
\$100,000 in the Aggregate

2.5 Other

Such other insurance in form and amount as may be customary for the type of business being under taken by the Contractor/Vendor.

2. INSURANCE COVERAGES

2.1 General Liability Insurance

- 2.1.1 Minimum Limits of Coverage:
Personal Injury Liability and Property Damage Liability
Combined Single Limit - \$500,000 each occurrence.
- 2.1.2 Such insurance shall protect the Contractor/Vendor from claims which may arise out of, or result from, the Contractor's/Vendor's operations under the contract, whether such operations be by the Contractor/Vendor, any subcontractor, anyone directly or indirectly employed by the Contractor/Vendor or Subcontractor, or anyone for whose acts any of the above may be liable.
- 2.1.3 Minimum Coverages to be Included:
(a) Independent Contractor's coverage;
(b) Completed Operations and Products Liability coverage; (c) Contractual Liability coverage.
- 2.1.4 Damages not to be Excluded:
Such insurance shall contain no exclusions applying to operations by the Contractor/Vendor or any Subcontractor in