GENERAL NOTES

- Water main ductile iron class 54 minimum with zinc coating and V-Bio polyethylene encasement except where noted. WHCs 1-1/2" except where noted.
- 2. Provide anode protection for PVC water main fittings and appurtenances per corrosion control Standard Details.
- 3. Provide continuity test stations for PVC water main at all fire hydrants and where
- indicated.
- 4. Lower WHC where indicated per Std Det W/5.14 except where noted. 5. Outside meters where indicated per Std Det W/5.13 except where noted.
- 6. Mainline gravity sewer and SHCs PVC ASTM D3034 except where noted. SHCs 4" except where noted.
- Steep sewer pipe slopes: ductile iron between MH 2 and MH 3 and PVC C900 between MH 3 and MH 4.
- 8. Ductile iron sewer: zinc basecoat, asphalt topcoat, V-Bio polyethylene encasement, and
- 9. Ductile iron fittings on PVC C900 gravity sewer encased in polyethylene with special
- 10. Sewer at stream crossing: RCP between MH 1 and MH 2 class V with 12' minimum lay
- 11. Provide stakeout and survey controls.
- 12. Schedule pre-construction meeting with Contract Manager at (301) 206-XXXX and Erosion Sediment Control Inspector at (301) 206-8075 minimum 72 hours in advance of meeting. The Utility Sediment Control Permit will be issued at this meeting.
- 13. Coordinate with Maryland Transit Administration for work in vicinity of the Purple Line. 14. Contact the Prince George's County Department of Public Works & Transportation, at (301) 324-2710, 48 hours in advance of starting construction. (Prince George's County
- 15. Contact the Director of Public Works for the City of Bowie at (301) 809-2344, 48 hours prior to the start of construction.
- 16. Contact the Director of Public Works for the City of Gaithersburg at (301) 258-6370, 48
- hours prior to the start of construction for notification purposes only. 17. Before beginning construction contact City of Rockville Utility at (240) 314-8567 48 hours prior to excavation.
- 18. Contact the Director of Public Works, City of Laurel, at (301) 725-0088, 48 hours prior to the start of construction for notification purposes only.
- 19. Contact the City of Cheverly Public Works Department, at (301) 773-2666 to obtain a "Special Utility Permit" prior to start of construction.

Remove any General Note not associated with this project.

Replace XXXX with appropriate line number: Southern Zone (Temple Hills Depot) 7316 Central Zone (Anacostia Depot) 4300 Western Zone (Lyttonsville Depot) 7339 Northern Zone (Gaithersburg Depot) 7363

SEWER SYSTEM REHABILITATION GENERAL NOTES

- Contractor shall not stockpile materials or equipment within the dripline of any tree. Contractor shall provide tree truck protection for all trees within 15 feet of any work (See
- WSSC Standard Detail SC/19.0). Contractor shall be responsible for obtaining staging areas. Mobilization of equipment and materials to and from work areas shall be at no additional cost to the commission. All areas shall be stabilized and restored to existing conditions.
- Perform camera and TV record inspections of manholes and pipes within limits of work for pre and post construction conditions.
- Sewer bypass pumping as shown on these drawings are for diagrammatical purposes only. Contractor shall provide temporary sewer bypass pumping services during construction for sewer and manhole work on active pipelines in accordance with WSSC Specifications, Section 02960.
- Contractor shall make himself familiar with the alignment, grades and/or cross slopes of proposed access roads to his satisfaction. Contractor shall use only construction equipment they deem appropriate to prepare and traverse the proposed access roads in order to perform the work.
- ROE (Right of Entry) agreements provided may have special conditions included with them. In some instances, the engineer has included notes on the design drawings for incorporation into the contract. Contractor shall review the ROE documents to endure all conditions for entry are addressed.
- Despite any changes in field conditions, the contractor at all times shall only work on properties which have granted the contractor access through the ROE agreements.
- These agreements are provided as part of the contract documents. Access paths are constructed within the LOD as shown on these plans & in accordance
- Remove upper manhole sections as necessary to allow installation of CIPP and bypass lines, reconstruct the manholes to match existing conditions and dimensions, sequence work so specified manhole rehabilitation is performed after the respective manhole is
- 10. Inspect sewer main to be cured in placed lined from manhole to manhole by CCTV to measure pipe diameter and length, and to confirm that sewer main is capable of receiving a Cured-In-Place pipe liner. Cost estimate assumes default liner thickness per pipe diameter. Verify required liner thickness and provide calculations to WSSC.
- 11. Prior to initiating construction, contractor shall conduct a field walk over all proposed access road areas with the Pipeline Construction Division's Contract Manager.
- 12. Work shall comply with the current Montgomery or Prince George's County Specifications for Utility Construction Permit. Complete repair (restoration of right of way) shall be made of any and all damages done to the existing improvements in the public right of way caused by construction operations on this site. All lane closures/traffic controls shall comply with the Montgomery or Prince George's County approved traffic control plans, work zone temporary traffic control standards and directions of the right of way inspector.

EROSION AND SEDIMENT CONTROL NOTES

- All utility installation must be in conformance with the conditions of the Soil Conservation District/County/MDE sediment control approved plan number #XXXXXXXX issued mm/dd/yyyy.
- WSSC Erosion & Sediment Control Permit will be issued at the Pre-construction
- Contact WSSC Environmental Programs Unit 48 hours prior to utility installation at (301) 206-8075.

BLOCKING NOTES

- Restrain fire hydrants to main per Std. Detail B/2.1
- Restrain valve to main per Std. Detail B/2.0 where indicated. Restrain 12" W on Broad Street from the TS&V at station 0+00 to the cap at station
- For special detail of thrust blocks at connection to existing 24" PCCP, see sheet 3.
- Block 30" 1/8 horizontal bend at station 3+14 per Standard Detail B/1.0 using following
- dimensions: D11'-0", E 6'-0", F 2'-0" and G 5'-0". Restrain 8"x6" reducer from station 1+41 to station 2+72.
- Unless indicated otherwise, block unrestrained bends, tees, tapping sleeves, and caps per blocking details.

DEPENDENCY NOTE

The sewer/water main constructed under this contract cannot be Released for is Released for Service. Service until contract

THIS DRAWING SUPERSEDES PLAN **APPROVED (Previously approved date).**

| RESTORATION SCHEDULE | | | | |
|------------------------------|--------------|--------------------|--|--|
| Location | Grading Type | Restoration Type | | |
| MH 1 to MH 1+65' | II | Е | | |
| MH 1 + 65' to MH 1 + 200' | IV | See Wetlands Notes | | |
| MH 1 + 200' to MH 2 | III | D | | |
| MH 2 to MH 2 + 10' | I | С | | |
| Water sta. 0+30 to sta. 5+10 | III | F | | |
| All other areas | 1 | Pavement | | |

Grading type from WSSC Specifications 02315 Earthwork.

* LHG *

Restoration Type from WSSC Specifications 02920 Lawns and Grasses (1.2 Restoration).

| SEWAGE FLOW TABULATION | | | | |
|------------------------|-------------------------|---------------|-------------|--|
| Number | Туре | Flow Factor | Flow | |
| 500 | Proposed SF Detached | 280 gpd/DU | 140,000 gpd | |
| 100 | Garden Apartments | 150 gpd/DU | 15,000 gpd | |
| 100,000 GSF | Office | 0.892 gpd/GSF | 89,200 gpd | |
| | • | | | |

NOTE: SEE APPENDIX "C" IN THE PIPELINE DESIGN MANUAL FOR FLOW FACTORS.

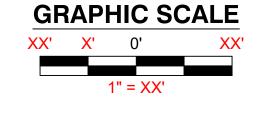
SERVICE CATEGORIES **ADDITIONAL ITEMS TO BE SHOWN ON PLAN (if applicable)** HYDRAULIC GRADES

-ADDITIONAL PROJECT SPECIFIC NOTES/ITEMS

-SEQUENCE OF CONSTRUCTION

Total Average Wastewater Flow = 244,200 gpd





STANDARD NOTES FOR D.R. AND D.I. PLANS

The notes on these sheets are for reference ONLY, use when applicable. Text in red is informational text and should be updated or removed. All notes may require modification to meet your specific design plan needs.

All text on plans and profiles must be a minimum height of $\frac{1}{10}$ of an inch.

1 - 5/8" \leq Size $\leq 2 - 0$ SEAL 1 - 5/8" \leq Size $\leq 2 - 6$

SEAL.

PROFESSIONAL CERTIFICATION

EXPIRATION DATE:

ENGINEER CAN CONFIRM THE ADC GRIDS WITHIN

WSSC WERI SYSTEM UNDER THE LAYER LIST, BASE

VICINITY MAP

SCALE 1": MAP UNITS

* Co. PAGE PAGE# GRID GRID#

REVISIONS

FOR LOCATION OF UTILITIES CALL 8-1-1 OR 1-800-257-777

OR LOG ON TO www.call811.com or www.missutility.ne

48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY

CONTENT AND SELECTING GRID ADC 2007

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

THE BEST OF MY PROFESSIONAL KNOWLEDGE AND HAS

BEEN ESTABLISHED BY A FIELD RUN SURVEY USING

ACCEPTABLE SURVEYING METHODS BY MYSELF AND/OR

SOMEONE UNDER MY DIRECT SUPERVISION ON

EMAIL ADDRESS:

LICENSE NO.:

ENGINEER'S/SURVEYOR'S AS-BUILT CERTIFICATION I HEREBY CERTIFY THAT THE AS-BUILT INFORMATION AS SHOWN IN (RED OR GREEN) HEREIN IS ACCURATE TO

). ALL AS-BUILT DATA IS SHOWN IN 'BOXES'

EXPIRATION DATE:

AS BUILT DATA

CONTRACT MANAGER NAME CONTRACTOR NAME INSPECTOR NAME

LINE & GRADE NAME MM/DD/YYYY DATE STARTED

MM/DD/YYYY DATE COMPLETED TYPE PIPE W TYPE OF PIPE S TYPE OF PIPE

TYPE MANHOLES TYPE OF MANHOLES DATE FINALED MM/DD/YYYY

NAME FINALED BY

NOTE: ADD THE NOTE ON THE RIGHT IF PROPOSED OR EXISTING C.I.P. SIZE PIPE

ARE SHOWN ON THIS PLAN.

THESE DOCUMENTS CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT PRIOR WSSC **APPROVAL**

ASEMENT REQUIRED - ON PROP. Y or N - OFF PROP. Y

CONTRACT CONTRACT#

OF #

WASHINGTON SUBURBAN SANITARY COMMISSION



NAME: ADDRESS: CONTACT : CONTACT EMAIL;

NAME: Sole Proprietor or Firm nam REGISTRATION #: Of sole Proprietor or Firm Contact person's name Contact person's address including City, State and Zip PROJECT (WATER/SEWER) RELOCATION **SUBDIVISION**

DRAINAGE BASIN NAME / MINIBASIN ##

ELECTION DISTRICT NAME & #

200'S 200'SHEET#

NO



DATE REVISIONS

1 - 5/8" <u>≤ Size ≤ 2 -</u> 0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

EMAIL ADDRESS:

LICENSE NO.:____EXPIRATION DATE:

ENGINEER'S/SURVEYOR'S AS-BUILT CERTIFICATION

SEAL.

I HEREBY CERTIFY THAT THE AS-BUILT INFORMATION AS SHOWN IN (RED OR GREEN) HEREIN IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND HAS BEEN ESTABLISHED BY A FIELD RUN SURVEY USING ACCEPTABLE SURVEYING METHODS BY MYSELF AND/OR SOMEONE UNDER MY DIRECT SUPERVISION ON _____). ALL AS-BUILT DATA IS SHOWN IN 'BOXES'.

EMAIL ADDRESS:

LICENSE NO.: _____EXPIRATION DATE:

ADD THE NOTE TO THE RIGHT IF PROPOSED OR EXISTING C.I.P. SIZE PIPE IS SHOWN ON THIS PLAN.

THESE DOCUMENTS CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT PRIOR WSSC o

APPROVAL

GRAPHIC SCALE

ELECTION DISTRICT NAME & # PROJECT (WATER/SEWER) RELOCATION

CONTRACT CONTRACT#

200'S 200'SHEET#

WASHINGTON SUBURBAN SANITARY COMMISSION WSSCWATER

NAME: Sole Proprietor or Firm name
REGISTRATION #: Of sole Proprietor or Firm
CONTACT: Contact person's name
ADDRESS: Contact person's address including City, State and Zip
PHONE: Contact person's phone number
CONTACT EMAIL: Contact person's full email address

SUBDIVISION

NO #