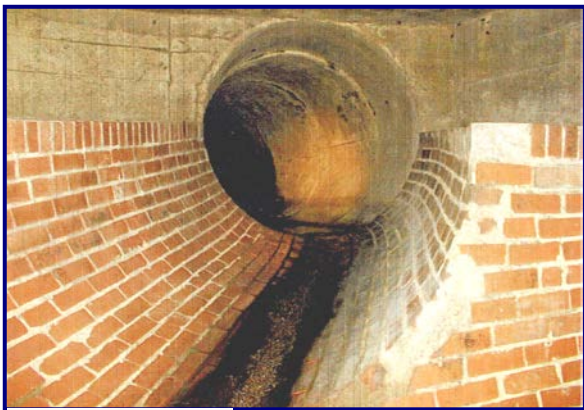


**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**  
Serving the Public • Protecting the Environment



**Year 2016  
Nine Minimum Controls Annual Report  
For  
Combined Sewer System**



**March 2017**

*prepared by*

*Program Consultants Organization*



**GREELEY AND HANSEN**

**JA-UNDERGROUND**

Engineers/Consultants





DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY  
Washington, DC

*Year 2016*  
*Nine Minimum Controls Annual Report*  
*For*  
*Combined Sewer System*

Program Consultants Organization



March 2017

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## **Section 1 Introduction**

### **1.1 PURPOSE**

In accordance with the terms of its National Pollutant Discharge Elimination System (NPDES) permit No. DC0021199 issued on August 31, 2010, issued and administered by the U.S. Environmental Protection Agency (EPA Region III), the District of Columbia Water and Sewer Authority (DC Water) is required to submit an annual report on the implementation of the Nine Minimum Controls for the combined sewer system (CSS). This document is the annual report for calendar year 2016.

### **1.2 DC WATER SEWER SYSTEM**

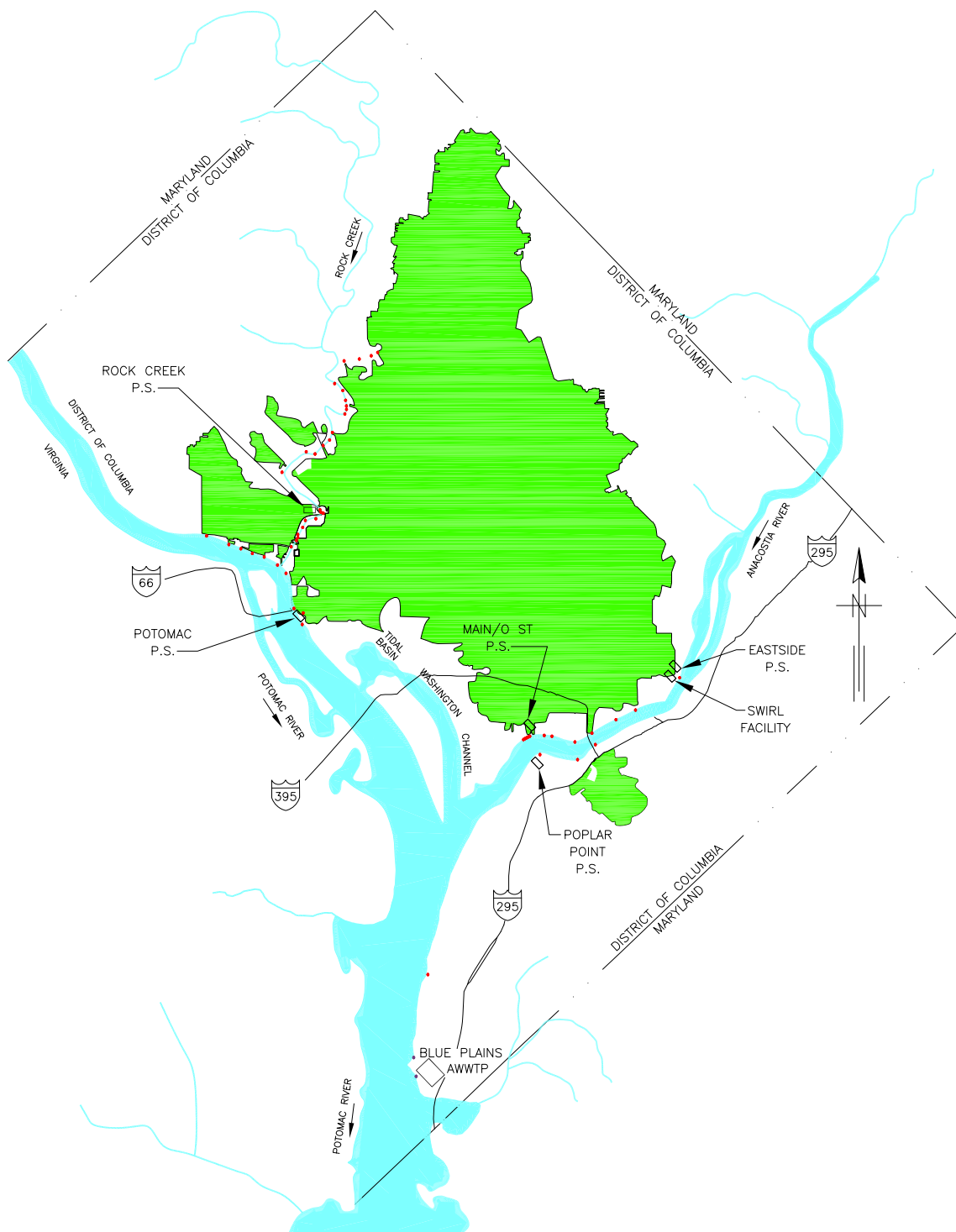
DC Water operates the District's wastewater collection system comprised of separate and combined sewers. Wastewater treatment is provided by the District's Blue Plains Advanced Wastewater Treatment Plant (BPAWWTP). The service area for BPAWWTP covers approximately 735 square miles including parts of suburban Virginia and Maryland. Approximately two-thirds of the District is served by separate sewers, which consist of two independent piping systems: one system for sanitary wastewater (i.e. sewage from homes and businesses) and the other system for storm water. The remaining one-third of the District is served by a CSS, which conveys both storm water and sanitary wastewater in one piping system.

During dry weather, sanitary wastewater collected in the CSS is conveyed to BPAWWTP. During periods of heavy rainfall, the capacity of certain combined sewer structures are exceeded and the excess flow, which is a combination of storm water and sanitary wastewater, is discharged directly to overlying water bodies such as the Anacostia River, Rock Creek, the Potomac River or their tributary waters. This excess flow is called Combined Sewer Overflow (CSO). Release of this excess flow is necessary to prevent short term problems such as flooding in homes, businesses, and streets and long term problems such as depreciation in the value of affected buildings. There are 57 CSO outfalls listed in DC Water's current NPDES Permit, of which 47 are currently active outfalls. The combined sewer area is shown on Figure 1-1.

### **1.3 NPDES PERMIT REQUIREMENTS**

The NPDES permit authorizes DC Water to discharge from the outfalls listed in the permit in accordance with the limitations and other requirements specified in the permit. The permit is effective from September 30, 2010 until September 30, 2015. A copy of the NPDES permit is included in Appendix 1-1.

In accordance with Part II.D.9 of the NPDES permit, a renewal application was submitted to the Environmental Protection Agency (EPA) on March 27, 2015 and the permit is therefore administratively extended until reissuance. EPA is currently working on the permit reissuance.



# LEGEND

- CSO OUTFALL
- WWTP OUTFALL
- COMBINED SEWER AREA
- EXISTING PUMPING STATION

## COMBINED SEWER AREA

SCALE: 1"=10,000'

In accordance with EPA's CSO Policy, DC Water's NPDES Permit requires implementation of EPA's nine minimum controls (NMCs). The NMCs are nonstructural and low cost management practices intended to optimize the existing sewer system to reduce CSOs. The NMCs are as follows:

1. Proper operations and maintenance
2. Maximize use of the collection system for storage
3. Review and modify pretreatment requirements
4. Maximize flow to the Publicly Owned Treatment Works (POTW) for treatment
5. Eliminate dry weather overflows
6. Control solids and floatables in CSO
7. Pollution prevention
8. Public notification
9. Monitoring

The permit requires DC Water to submit an annual report on the NMCs by March 31 of each year covering the prior calendar year. The following is an excerpt from the permit describing the reporting requirements:

1. *"Information submitted in reports shall, in general, be prepared in a tabular format giving dates, times and locations as applicable. The information to be reported of the Nine Minimum Controls Program shall include the following:*
  - a. *CSS Control Structures - Number of inspections conducted, conditions observed (e.g., function normal, blockages, malfunctions repairs needed) and maintenance and repairs performed. For blockages observed provide: the location of blockage, date and time that the blockage was discovered, date and time blockage was corrected, and whether or not a discharge from the outfall to the receiving water was observed. If a discharge was observed, provide an estimate of discharge volume.*
  - b. *Pumping Stations - Number of inspections conducted, numbers of screens and pumps installed and numbers available for service; and preventative maintenance performed. For pumps found not to be available for service, permittee shall report the cause of unavailability, schedule for and status of repairs. For the Main and O Street pumping stations, report the results of visual wet weather surveys and record of overflow screenings.*
  - c. *Northeast Boundary Swirl Facility - Number of inspections conducted, number of screens and swirls installed and numbers available for service; and preventative maintenance performed. Report record of flow treated and screenings removed.*
  - d. *Inflatable Dams and SCADA System - Number of inspections conducted. Number of dams installed and number of dams operational. Occurrence of an overflow and approximate duration of overflow based on inflation status of the dams.*
  - e. *Major Combined Sewers - Upon development of inspection program. Inspections planned, inspections conducted, results of inspections and description and schedule for maintenance and repairs planned and performed.*
  - f. *Wet Weather Overflows - Report the modeled results of the number, volume and average*

*duration of overflows for each active CSO outfall due to wet weather events.*

- g. Dry Weather Overflows - Are prohibited, however, in the event that they do occur, report their location, cause, date and time discovered, action taken, date and time discharge confirmed ceased and actions taken to prevent reoccurrence of the condition causing the overflow. Include an estimate of the overflow volume.*
  - h. Catch Basin Cleaning - Number and location of catch basins required to be cleaned plus the number and location of catch basins actually cleaned.*
  - i. Anacostia River Floatable Debris Removal Program - Number of boats available for service, number of cleaning trips, record of amount and nature of material removed.*
  - j. BMP Demonstration for Solid and Floatable Control - Number of inspections conducted and conditions observed record of material removed at CSO outfalls 018, 040 and 041.*
  - k. Other - Summarize actions and activities under programs for Pollution Prevention, Public Notification and Pretreatment.*
  - l. Wet Weather Flows to Blue Plains WWTP - Upon development of a reporting system, report operations for each wet weather event.*
  - m. CSS Litter Control - Number of meetings or conferences with DPW and NPS. Summary of topics discussed and actions adopted.*
- 2. Report on the following quarterly:*
- a. Northeast Boundary Swirl Facility*
  - b. Inflatable Dams and SCADA System*
  - c. Dry Weather Overflows*
  - d. CSS Control Structures*
  - e. Pumping Stations*
  - f. Wet Weather Flows to Blue Plains*
  - g. Wet Weather Overflows*
  - h. CSS Litter Control*
- 3. Report on the following annually:*
- a. CSS Inventory*
  - b. Major Combined Sewers*
  - c. Catch Basin Cleaning*
  - d. BMP Demonstration for Solid and Floatable Control*
  - e. Anacostia River Floatable Debris Removal Program*
  - f. Other”*



### **1.4 THREE PARTY CONSENT DECREE**

DC Water entered into a Consent Decree (CD) with the U.S. Government and certain citizen plaintiffs to resolve allegations regarding the CSS. The following consent decree was lodged with and entered by the court on June 25, 2003 and October 10, 2003, respectively:

United States District Court for the District of Columbia

Civil Action No. 1:00CV00183TFH

Civil Action No. 02-2511 (TFH)

Consent Decree

There are many overlapping requirements between the CD and the NPDES permit. In most cases, items required to be implemented under the permit are also required to be implemented under the CD, with additional requirements regarding the schedule required for implementation or the nature of implementation. These are noted in the text of this document where relevant to the NMC program.



# **APPENDIX 1-1**

## **NPDES Permit**



**Permit No. DC0021199**

Effective Date: *September 30, 2010*  
Expiration Date: *September 30, 2015*

**AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT  
DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act, as amended, 33 U.S.C. # 1251 et seq.  
(the "Act"),

**District of Columbia Water and Sewer Authority**

is authorized to discharge from the wastewater system and the facility located at

5000 Overlook Avenue, SW  
Washington, D.C. 20032

to receiving waters named Potomac and Anacostia Rivers, Rock Creek, and tributary waters in  
accordance with effluent limitations, monitoring requirements and other conditions set forth in  
parts I, II and III, herein.

Signed this *31<sup>st</sup>* day of *August, 2010*



Jon M. Capacasa, Director  
Water Protection Division  
U.S. Environmental Protection Agency  
Region III



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**District of Columbia Water and Sewer Authority**  
**Waste Water Treatment Facility at Blue Plains and**  
**Associated Combined Sewer System Collection System**

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## **Part I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

### **SECTION A. DEFINITIONS**

When used in this permit, unless otherwise indicated, the following terms shall mean the following:

1. **"Blue Plains"** or **"plant"** or **"POTW"** or **"facility"** means the District of Columbia advanced wastewater treatment plant located at 5000 Overlook Avenue, S.W., Washington, DC, 20032.
2. **"Blue Plains Tunnel"** or **"BPT"** means the tunnel that is part of the CSS which is included in the LTCP and which terminates on the Blue Plains site.
3. **"Combined Sewer System"** or **"CSS"** means the pipelines pumping stations, treatment facilities, and appurtenances in the District of Columbia which are designed to convey wastewater and storm water through a single pipe system to combined sewer overflow outfalls and/or the POTW. The system also includes the selected CSO controls included in the LTCP and all supplements thereto, which are being implemented under the Consent Decree in Consolidated Civil Action No. 1:00CV00183TFH and all amendments thereto.
4. **"Combined Sewer System Flow"** or **"CSSF"** means the conditions that begin when the Influent Flow rate to receive complete treatment at the POTW is greater than 511 mgd. CSSF conditions shall be deemed to cease 4 hours after the Influent Flow rate drops to a rate less than 511 mgd or a period of 4 hours has lapsed since the start of the CSSF conditions, whichever occurs later.
5. **"Complete Treatment"** means passage of all flows through any combination of conveyance and treatment downstream of primary sedimentation that ultimately discharges effluent from Outfall 002, in accordance with the limitations set forth for Outfall 002 found at Part I.B. of this permit.
6. **"Disinfection"** means treatment to reduce E. coli. Disinfection by chlorination shall be followed by dechlorination.
7. **"Dry Weather Flow"** or **"DWF"** means the flow from sewers that convey collection system flow to Blue Plains when such flow is not greater than a rate of 511 mgd.
8. **"Enhanced Clarification"** means the treatment process that provides improved performance over that typically obtained from plain sedimentation, which process includes the recirculation of solids removed from the process or recirculation of other media together with the addition of coagulants.
9. **"Enhanced Clarification Facility"** or **"ECF"** means the combination of process units located on the end of the BPT, designed to empty the BPT and distribute flow from

the BPT to Complete Treatment and to disinfection prior to discharge from Outfall 001; such distribution to be under an operating routine described at Part I.C. footnote (1). These facilities are being constructed under the LTCP.

10. **“Excess Flow Treatment” or “EFT”** means treatment of Influent Flow during CSSF conditions, in East Primary Sedimentation followed by disinfection and dechlorination, for flow rates that exceed the rates required to receive Complete Treatment, up to a maximum rate of 336 mgd. As part of placing the ECF in operation, the EFT facilities shall be permanently disconnected from Outfall 001.
11. **“Influent Flow”** means the following:
  - a. **Influent Flow** to receive complete treatment means the sum of metered flows from sewers that convey collection system flow to Blue Plains and flow emptied from the BPT.
  - b. Prior to placing the ECF in operation, the **Influent Flow** discharged from Outfall 001 means the component of metered flow from sewers that convey collection system flow to Blue Plains and receives EFT.
  - c. After the ECF is placed in operation, the **Influent Flow** discharged from Outfall 001 means the component of flow emptied from the BPT that receives treatment in the ECF and disinfection and dechlorination.
12. **“Long Term Control Plan” or “LTCP”** means the recommended plan for the CSS included in the Combined Sewer System Long Term Control Plan, Final Report, July 2002 prepared by the permittee pursuant to the 1994 CSO Policy and Section 402(q) of the CWA and any supplements thereto. The LTCP Final Report, July 2002, was submitted to EPA and the DC Department of Health, later DC Department of the Environment.
13. **“Measured Flow Rates”** means flows measured to determine rates to be treated and discharged under CSSF conditions. Flow rates shall be metered and rates recorded at intervals not to exceed one (1) hour. An average rate shall be calculated from the metered rate. An average rate means the rate calculated, for the total time that CSSF conditions are in effect, by dividing the sum of the metered rates by the number of rates recorded. Average rates shall be calculated or recorded directly from metered rates. The permittee shall be in compliance with the treatment and discharge requirements for CSSF conditions when average rates are within the following:
  - a. Not less than 0.90 times the rate required to receive Complete Treatment;
  - b. Not greater than 1.1 times the maximum rate permitted to be discharged from Outfall 001.

14. **“Place in Operation”** means to achieve steady state operation and to operate consistently in such a way as to accomplish the intended function, even though all construction close-out activities (such as completion of a punch list and resolution of contract disputes or close-outs) may not yet be complete.
15. **“Wet Weather Event”** means the condition that occurs as a result of storm water runoff, including snowmelt, entering or being conveyed in the CSS.
16. **“Grab Sample”** - An individual sample collected in less than 15 minutes.
17. **“At Outfall XXX”** - A sample location before the effluent joins or is diluted by any other waste stream, body of water, or substance or as otherwise specified.
18. **“Estimate”** - To be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
19. **“i-s” (immersion stabilization)** - A calibrated device is immersed in the effluent stream until the reading is stabilized.

## SECTION B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 002

Effluent limitations are based upon the design capacity of 370 mgd for Complete Treatment. During the period beginning on the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002 to the Potomac River, subject to the following conditions, discharge limitations and monitoring requirements:

Effluent Characteristic	Discharge Limitations			Other Units (specify)		Monitoring Requirements	
	(lb/day)					Measurement Frequency	Sample Type
	Ave. Monthly	Ave. Weekly		Ave. Monthly	Ave. Weekly		
Flow/day (mgd) (1, 1a, )	N/A (2)	N/A		N/L (3)	N/L	Continuous	Measured
Carbonaceous Biological Oxygen Demand (5 day)	15,429	23,143		5.0 mg/l	7.5 mg/l	Daily	24-hour Composite
Total Suspended Solids (TSS)	21,600	32,400		7.0 mg/l	10.5 mg/l	Daily	24-hour composite
Total Phosphorus	555 (4)	1,080		0.18 mg/l (4)	0.35 mg/l	Daily	24-hour composite
Ammonia Nitrogen:							
Summer (5/1 – 10/31)	12,960	18,823		4.2 mg/l	6.1 mg/l	Daily	24-hour composite
Winter 1 (11/1 – 2/14)	34,253	45,670		11.1 mg/l	14.8 mg/l	Daily	24-hour composite
Winter 2 (2/15 – 4/30)	39,500	52,460		12.8 mg/	17.0 mg/l	Daily	24-hour composite
Dissolved Oxygen	5.0 mg/l minimum daily average. Not less than 4.0 mg/l at any time					Every 2 hours	
Total Residual Chlorine (mg/l) (6)	Non-detectable			Non-detectable		Every 2 hours	Grab
pH (s.u.) (7)	Within limits of 6.0 to 8.5 standard units					Continuous in-situ monitoring and recording	
Total Ortho-phosphate (mg/l)	N/A	N/A		N/L	N/L	Daily	24-hour composite
Alkalinity, total (CaCO <sub>3</sub> ) (mg/l)	N/A	N/A		N/L	N/L	Daily	24-hour composite
Hardness, total (CaCO <sub>3</sub> ) (mg/l)	N/A	N/A		N/L	N/L	Daily	24-hour composite
Nitrite (NO <sub>2</sub> ) (mg/l)	N/A	N/A		N/L	N/L	Daily	24-hour composite

Nitrate (NO <sub>3</sub> ) Total Kjeldahl	N/A	N/A	N/L	N/L	Daily	24-hour composite
Nitrogen (mg/l) (10)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Total Nitrogen (mg/l) (10)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Cadmium (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24-hours
Copper (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24-hours
Iron (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Mercury (total recoverable) (8)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Lead (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Nickel (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Zinc (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
PCBs (12)	N/A	N/A			2 wet and 2 dry weather samples quarterly	24-hour composite
E. coli (maximum 30-day geometric mean for 5 samples minimum)	N/A	N/A	126 cfu/100 ml Geometric mean	N/L	1 /day	Grab

(1) Conditions and limitations for flows discharged from Outfall 002 shall be as follows:

Flow Condition and Period	Times	Measured Influent Flow Rates to Receive Complete Treatment
<b>A. DWF, through permit expiration date</b> <b>B. CSSF</b> 1. From effective date of permit and following placing ECF in operation unless otherwise authorized or approved by EPA 2. Until Completion of Nitrification Denitrification Facilities upgrade, but no later than March 1, 2011 3. During construction of improvements to existing nitrogen removal facilities, period(s) to be determined by permittee and EPA from completion of design and construction schedules for the length of time required for such construction, but no later than July 14, 2014. 4. During construction of the ECF and tie-ins to the existing facilities. Periods to be determined by permittee and EPA from completion of design and construction schedules.	<b>All times</b>  First 4 hours After 4 hours  First 4 hours After 4 hours  First 4 hours After 4 hours  First 4 hours After 4 hours	<b>Up to and including 511 mgd</b>  Up to and including 555 mgd Up to and including 511 mgd  Up to and including 511 mgd Up to and including 450 mgd  Up to and including 511 mgd Up to and including 450 mgd

- (1a) Flows reported for locations required under this permit are based on flows metered by the Blue Plains metering system. This system produces information to report flows by direct metering or through calculations using the results from multiple meters.
- (2) N/A Not Applicable
- (3) N/L No Limit, monitoring only
- (4) The phosphorus limitation of 0.18 mg/l is based on the Potomac Strategy Management Commission Agreement and the best technical information available at the time of permit issuance. In addition, based upon available data of full plant BNR process operation, the monthly average is expressed as a 12 month rolling average. In any 12 month period no one month may exceed a mass of 1080 lbs/day and 0.35 mg/l. During full plant BNR, the 12 month rolling average mass for a month shall be the total mass for the month plus the total mass for the previous eleven (11) months divided by the total number of days in the 12 month period. The 12 month rolling average concentration for a month shall be the total mass for the 12 month period divided by the average daily flow (in mgd) for the 12 month period times 8.34. No single month in any 12 month period used to calculate a 12 month rolling average shall exceed a monthly average limit of 490 kg/day (1080 lb/day) and 0.35 mg/l.
- (5) Continuous in situ monitoring and recording of dissolved oxygen shall continue. The monitoring requirements shall be understood to require twelve (12) readings from the continuous recording per day.
- (6) When the total residual chlorine (TRC) analysis of the final effluent at Outfall 002 results in a detectable measurement, the permittee shall take steps to achieve a non-detectable TRC concentration. See Special Condition Part IV Section C.
- (7) The permittee is required to be in compliance with the pH limitations specified above for 99% of the time for any calendar month. The total excursion time allowed for any calendar month is 7 hours, 26 minutes and no individual excursion shall exceed 60 minutes.
- (8) The permittee shall sample the effluent for mercury using the most sensitive test Method 1631 E. The method detection limit, and the method used to perform the mercury analysis shall be submitted with the discharge monitoring reports.
- (9) The permittee shall monitor the effluent at Outfall 002 for the metals listed above in accordance with the conditions set forth below. Report results in micrograms per liter.
- a. The permittee shall test for additional metals, and priority pollutants (Appendix A to 40 C.F.R. Part 423) twice in five (5) years during the term of this permit. One such testing shall be in the third year of the permit and the second shall be in the last year of the permit.

- b. All analytical methods will be EPA approved methodologies found in 40 C.F.R. Part 136.
- c. The quantification level (QL) shall be the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. Usually, units for the QL are in micrograms per liter.
- d. Permittee shall analyze each grab sample and report the average of the four samples. Alternatively, the permittee may prepare a composite of the grab samples in the laboratory by proportioning to flow and analyze the laboratory composite sample.

- (10) As provided in Part IV Section D of this permit, the permittee shall operate the plant, including the nitrogen removal process to meet the total nitrogen effluent limit of not more than 4,377,580 pounds per year which is assigned to Outfall 002.

Total nitrogen concentration shall be the sum of organic nitrogen, ammonia nitrogen and (NO<sub>2</sub> + NO<sub>3</sub>) - N concentrations (e.g., Total Nitrogen = Total Kjeldahl nitrogen + NO<sub>2</sub> as N + NO<sub>3</sub> as N).

The total nitrogen effluent for Outfall 002 shall be calculated on a daily basis as the mass load in pounds per day derived from the daily total nitrogen concentration from Outfall 002, times the associated daily flow. The daily total nitrogen mass load shall be summed during each calendar year to determine the annual mass load.

- (11) The Permittee shall report any substantial changes in the volume or character of pollutants being introduced into the POTW.

- (12) See Part IV.F, Special Conditions for additional PCB monitoring requirements.



## PART I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### SECTION C. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 001

Discharge from Outfall 001 to the Potomac River is approved as an anticipated bypass, provided the permittee is in compliance with the LTCP implementation schedule requirements of the March 23, 2005 Consent Decree entered into in *United States v. DCWASA, et al*, Consolidated Civil Action No. 1:CV00183TFH and any supplements or modifications thereto and subject to the following conditions, discharge limitations and monitoring requirements. Beginning from the effective date of this permit and lasting through the expiration date, Influent Flow discharged from Outfall 001 shall receive treatment as follows:

a. Excess Flow Treatment (EFT) until the ECF is placed in operation.

b. After the ECF is placed in operation, Influent Flow shall receive treatment in the ECF followed by disinfection and dechlorination.

Effluent Characteristic	Discharge Limitations			Other Units (specify)		Monitoring Requirements	
	Kg/day (lb/day)	Ave Monthly	Ave Weekly	Ave Monthly	Ave Weekly	Measurement Frequency	Sample Type (6)
<b>Flow/discharge (mgd) (1) (1a)</b>							
<b>Carbonaceous Biochemical Oxygen Demand (5-day)</b>	N/A	N/A	N/A (2)	N/L (3)	N/L	Continuous	Measured
<b>Total Suspended Solids (TSS)</b>	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
<b>pH (s.u.)</b>	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
<b>PCBs (9)</b>						2 wet weather per quarter	Grab
<b>E.coli – (cfu/100 ml)</b>	N/A	N/A	N/A	N/L	N/L	Every 8 hours, not less than one sample per discharge	Grab
<b>Total Residual Chlorine (mg/l) (5)</b>	Non-detectable			Non-detectable		Every 2 hours, not less than one sample per discharge	Grab
<b>Total Nitrogen (10)</b>	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
<b>Total Phosphorus</b>	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)

(1) Conditions and limitations for Influent Flow discharged from Outfall 001 shall be as follows:

FLOW CONDITION AND PERIOD	TIMES	MEASURED FLOW RATES FOR OUFALL 001
A. DWF	All times	No discharge permitted
B. CSSF		
1. From effective date of permit and lasting until ECF is placed in operation.	All times	Up to and including 336 mgd above rates to receive complete treatment under Part I.B for Outfall 002
2. Following ECF being placed in operation, for emptying the BPT under an operating routine that provides for:  a. Conveying flow from the BPT through the ECF or transfer to complete treatment;  b. Regulating the discharge of ECF effluent to maintain a rate of 511 mgd through complete treatment while optimizing conditions for maintaining the availability of the storage volume in the BPT such as that the occurrence of CSOs is minimized;  c. No discharge of flow from the BPT from Outfall 001 when DWF conditions exist; and  d. Limiting discharge of ECF effluent from Outfall001 to a maximum rate of 225 mgd; provided that any discharge of ECF effluent from Outfall 001 shall not occur except for the purpose of maintaining the availability of storage volume in the BPT to the extent that the occurrence of CSOs is minimized.	All times	Up to a maximum of 225 mgd

(1a) Flows reported for locations required under this permit are based on flows metered by the Blue Plains metering system. This system produces information to report flows by direct metering or through calculations using the results from multiple meters.

(2) N/A means not applicable.

(3) N/L means no Limit, monitoring only.

(4) Collect one grab sample every two (2) hours and flow composite samples during each calendar day discharge. Analyze and obtain the concentration of the composited sample obtained each calendar day. Determine the mass load discharged for each day using the daily

concentration and the average flow rate recorded for that calendar day. Sum the daily mass loads obtained each calendar year to obtain the total mass load discharged in the calendar year.

- (5) See Part IV, Section C for additional Chlorination/Dechlorination monitoring requirements.
- (6) All pollutant sampling shall commence no later than two (2) hours after a discharge has begun to occur at Outfall 001. Samples are not required for discharges lasting less than two (2) hours. The two hour delay does not apply to flow monitoring.
- (7) Authorization of CSO-related bypasses under this provision may be modified or terminated when there is a substantial increase in the volume or character of pollutants being introduced into the POTW.
- (8) Permittee shall provide notice to the permitting authority of the discharges for Outfall 001 within 24 hours of the commencement of the discharge.
- (9) See Part IV, Section F for additional PCB monitoring and reduction requirements.
- (10) After the ECF is placed in operation, the permittee shall evaluate performance in accordance with Part III.D.4.a. through e. The performance assessment for Outfall 001 shall be submitted with each application for permit reissuance.

## SECTION D. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 019<sup>(1)</sup>

Outfall 019 is the discharge from the Northeast Boundary Swirl Concentrator Facility to the Anacostia River. Treatment includes: screening, swirl concentration, chlorination and dechlorination. These effluent limitations and monitoring requirements become effective from issuance date through the expiration date of this permit. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			Monitoring Requirements	
	Kg/day (lb/day)		Other units (specify)	Measurement Frequency	Sample Type
	Ave Monthly	Ave Weekly	Ave Monthly		
Flow/day (mgd)	N/A (2)	N/A	N/L (3)	Continuous	Measured
Total Suspended Solids (mg/l)	N/A	N/A	N/L	Per discharge	Composite (4)
E.coli (cfu/100 ml)	N/A	N/A	N/L	Every 8 hours, first sample within 2 hours of beginning of discharge	Grab
Total Residual Chlorine (mg/l) (5)	N/A	N/A	N/L	Every 2 hours	Grab
Nitrate(NO <sub>3</sub> )	N/A	N/A	N/L	per discharge	24-hr. Composite (4)
Total Kjeldahl Nitrogen (7)	N/A	N/A	N/L	per discharge	24-hr. Composite (4)
Total Nitrogen	N/A	N/A	N/L	per discharge	24-hr. Composite (4)
Total Phosphorus	N/A	N/A	N/L	per discharge	24-hr. Composite (4)
Carbonaceous Biological Oxygen Demand	N/A	N/A	N/L	Per Discharge	Composite (4)

- (2) The Northeast Boundary Swirl Facility operates during wet weather events that produce flows which exceed the capacity of the upstream Eastside Interceptor. The facility provides treatment for up to 400 mgd of combined sewer overflow. The facility provides screening of influent combined sewage, concentration of solids in the swirl tanks, and disinfection and

dechlorination of effluent. The concentrated, solids-bearing underflow from the swirl is pumped by the Eastside Pumping Station to the Blue Plains Wastewater Treatment Plant.

- (2) N/A Not Applicable
- (3) N/L No Limit, monitoring only
- (4) Collect one grab sample every two (2) hours beginning within 2 hours of the start of the discharge, composite samples up to a maximum of 24 hours. Permittee shall analyze the composited sample. If the permittee is unable to collect the first sample within 2 hours of the start of the discharge permittee shall explain in writing why it was unable to collect the required sample. The monthly average shall be determined by dividing the daily average event or events concentration by the total number of days the event(s) occurred per month.
- (5) See Part IV.C for additional Chlorination/Dechlorination monitoring requirements.
- (6) All sampling shall commence no later than two (2) hours after a discharge has begun to occur at Outfall 019. Samples are not required for discharges lasting less than (2) two hours. The two hour delay does not apply to flow monitoring, which is required to be continuous.
- (7) The permittee may either monitor for TKN or Ammonia, whichever sampling is currently being performed.

Note: The rate of flow necessary to trigger the Northeast Boundary Swirl is 15 mgd. The purpose of this facility is to achieve maximum diversion of flow at the Structure 24 Dams on the Northeast Boundary Sewer, and to concentrate the pollutants in that flow to a smaller flow which can be handled by the available capacity of the Eastside Pump Station. The North East Boundary Swirl Facility has a total design flow rate of 400 mgd.

## **PART II. STANDARD CONDITIONS FOR NPDES PERMITS**

### **SECTION A. GENERAL CONDITIONS**

#### **1. Duty to Comply**

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and may result in an enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

#### **2. Water Quality Standards Compliance**

Consistent with the Clean Water Act, Section 301(b)(1)(C), the permittee may not discharge in excess of any limitation necessary to meet applicable water quality standards including those of the District of Columbia set forth in Chapter 21 of the District of Columbia Municipal Regulations, Chapter 11 (2006).

The limitations and conditions in this permit for the discharges from Blue Plains and the CSS are limitations that are necessary to meet the applicable water quality standards, including those of the District of Columbia referenced above.

#### **3. Penalties for Violations of Permit Conditions**

##### **a. Criminal Penalties**

i. Negligent Violations. Section 309(c) (1) of the Clean Water Act (CWA), 33 U.S.C. § 1319(c) (1), provides that any person who negligently violates any permit, condition or limitation implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA, is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year or both.

ii. Knowing Violations. Section 309(c)(2) of the CWA, 33 U.S.C. § 1319(c)(2), provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years or both.

iii. Knowing Endangerment. Section 309(c)(3) of the CWA, 33 U.S.C. § 1319(c)(3), provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA, and knows at the time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 years or both.

iv. False Statement. Section 309(c)(4) of the CWA, 33 U.S.C. § 1319(c)(4), provides that any person who knowingly makes any false material statement, representation or certification in any application, record, report, plan or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years or by both. False statements concerning matters with the jurisdiction of a federal agency are also punishable pursuant to 18 U.S.C. § 1001 by a prison term of up to five years, a fine imposed under Title 18, Crimes and Criminal Procedure, of the United States Code, or both.

b. Civil Penalties

i. The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 318 or 405 of the Act is subject to a civil judicial penalty not to exceed \$37,500 per day for each violation.

c. Administrative Penalties.

i. The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Act is subject to an administrative penalty as follows:

(a) Class I Penalty. Section 309(g)(2)(A) provides that a civil penalty shall not exceed \$16,000 per violation nor shall the maximum amount exceed \$37,500.

(b) Class II Penalty. Section 1319(g)(2)(A) provides that a civil penalty shall not exceed \$16,000 per violation nor shall the maximum amount exceed \$177,500.

4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Permit Actions

In accordance with 40 C.F.R. § 122.62, this permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d. Information newly acquired by the Agency, and which was unavailable at the time of reissuance, and would have justified the application of different permit conditions at the time of issuance, including but not limited to the results of the studies, planning, or monitoring described and/or required by this permit;
- e. Facility modifications, additions, and/or expansions;
- f. Any anticipated change in the facility discharge, including any new significant industrial discharge or changes in the quantity or quality of existing industrial discharges that will result in new or increased discharges of pollutants; or
- g. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. When a permit is modified, only conditions subject to modification are reopened.

#### 6. Toxic Pollutants

Notwithstanding Section A.4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and the permittee so notified.

The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

#### 7. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Section B.2) and "Upsets" (Section B.3), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.



8. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

9. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

10. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

11. Severability

The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

12. Transfer of Permit

In the event of any change in ownership or control of facilities from which the authorized discharge emanates, the permit may be transferred to another person if:

- a. The current permittee notifies the EPA, in writing, of the proposed transfer at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement, between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- c. The EPA does not notify the current permittee and the new permittee of intent to modify, revoke and reissue, or terminate the permit and require that a new application be submitted.

### 13. Construction Authorizations

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

### 14. Reopener Provision

This permit may be modified or revoked and reissued as provided pursuant to 40 CFR § 122.62 and § 124.5 to:

- a. include new or revised conditions developed to comply with any State or Federal law or regulation that addresses CSOs that is adopted or promulgated subsequent to the effective date of this permit. This includes, but is not limited to: Water Quality Standards and Total Maximum Daily Loads (TMDLs);
- b. to include new or revised conditions if new information, not available at the time of permit issuance, indicates that CSO controls imposed under the permit have failed to ensure the attainment of State WQS;
- c. include new or revised conditions based on new information resulting from implementation of the Long Term Control Plan (LTCP) referenced at Part III.C of this permit.
- d. include new or revised conditions based on the results of Endangered Species Act Section 7 consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service ( FWS, NMFS or collectively, the "Services").

In addition, this permit may be modified or revoked and reissued for any reason specified in 40 C.F.R. §122.62.

### 15. Endangered Species

The United States Fish and Wildlife Service (FWS) has indicated that there are no Federally listed threatened or endangered species subject to its jurisdiction downstream of the Blue Plains outfalls, in the vicinity of the Potomac River in the District of Columbia and Maryland. The National Marine Fisheries Service (NMFS) has indicated that the endangered shortnose sturgeon occurs in the Potomac River, including within the District of Columbia and that several species of endangered sea turtles (leather back sea turtles, loggerhead turtles, Kemp's ridley and green sea turtles), are known to be present in the Chesapeake Bay. Pursuant to Section 7 of the Endangered Species Act, EPA and NMFS have consulted on this permit and NMFS has concurred with EPA's determination that that issuance of the permit is "not likely to adversely affect" listed species under NMFS jurisdiction. Wastewater discharges, construction, or any other activity that adversely affects a federally listed endangered or threatened species are not authorized under the terms of this permit.

The permit limits and monitoring required by this permit will allow further evaluation of potential effects on the threatened and endangered species. EPA requires that the permittee submit to NMFS an annual compilation of the Discharge Monitoring Reports (DMRs), which may be used by NMFS to further assess effects on endangered or threatened species. If these data indicate it is appropriate, requirements of this NPDES permit may be modified to prevent adverse impacts on habitats or endangered and threatened species.

The set of DMRs for the calendar year are to be submitted by February 15 of the following year to:

The National Marine Fisheries Service  
Protected Resource Division  
1 Blackburn Drive  
Gloucester, MA 01930  
Attention: Danielle Palmer

DC Department of the Environment  
Fisheries and Wildlife Division  
1200 First, N.E. 5<sup>th</sup> floor  
Washington, DC 20002  
Attention: Sylvia Whitworth

## **SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS**

### **1. Proper Operation and Maintenance**

The permittee shall at all times properly operate, inspect and maintain all facilities and systems of treatment and control (and related appurtenances, including but not limited to, sewers, intercepting chambers, interceptors, combined sewer overflows, pumping stations and emergency bypasses) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation and maintenance of back-up or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit.

### **2. Bypass of Treatment Facilities**

#### **a. Definitions**

- i. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

- ii. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.

b. Bypass not exceeding limitations

- i. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section.

c. Notice

- i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section D.6 (24-hour notice).

d. Prohibition of bypass.

- i. Bypass is prohibited and the EPA may take enforcement action against a permittee for bypass, unless:
  - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  - (c) The permittee submitted notices as required under Paragraph 2.c of this section.
- ii. The EPA may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraphs (a), (b), and (c) of this section.

### 3. Upset Conditions

- a. Definition: "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. Effect of an upset: An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph 3.c of this section are met. Administrative determination by the Agency on upset claims of the permittee, made before commencement of an action for noncompliance, are not final administrative actions and therefore subject to judicial review.
- c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
  - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
  - ii. The permitted facility was at the time being properly operated;
  - iii. The permittee submitted notice of the upset as required in Section D.6; and
  - iv. The permittee complied with any remedial measures required under Section A.3.
- d. Burden of proof: In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

## **SECTION C. MONITORING AND RECORDS**

### 1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points as defined at Part II, Section C.11 of this permit. Monitoring points shall not be changed without notification to and the approval of the EPA.

2. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 C.F.R. Part 136, unless other test procedures have been specified in this permit. Monitoring data required by this permit shall be summarized on an average monthly or 7 consecutive day basis or as indicated for Mercury in Part I.B. Calculations shall be based on the average daily flow.

4. Reporting of Monitoring Results

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1). DMRs shall be submitted to EPA on a monthly basis. Monitoring results obtained during the previous month shall be summarized and reported on a DMR form postmarked no later than the 28th day of the following month. Copies of DMRs signed and certified as required by Section D.10, and all other reports required by Part II, Section D, Reporting Requirements shall be submitted to the EPA and to the District of Columbia Department of the Environment (DC DOE) at the following addresses:

U.S. Environmental Protection Agency, Region III  
NPDES Discharge Monitoring Reports (3WP31)  
1650 Arch Street  
Philadelphia, Pennsylvania 19103

and

DC Department of the Environment  
Water Quality Division  
1200 1<sup>st</sup> Street  
N.E., 5<sup>th</sup> Floor,  
Washington DC 20002

In addition, in accordance with Part II.A.14 above, by February 15 of the subsequent year, all DMRs for the previous year shall be sent to the NMFS.

5. Monitoring and Analytical Equipment Maintenance

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to insure accuracy of measurements and shall insure that both calibration and maintenance activities will be conducted.

6. Analytical Quality Control

An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results, shall be maintained by the permittee or designated commercial laboratory.

7. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 C.F.R. 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR form. Such frequency shall also be indicated.

8. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. Records for sewage sludge monitoring shall be retained in accordance with Part IV, Section B of this permit. These periods may be extended by request of the EPA at any time.

9. Record Contents

Records of monitoring information shall include:

- a. The date, exact place, time and methods of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility activity is located or conducted, or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

**SECTION D. REPORTING REQUIREMENTS**

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee may submit to the permitting authority requests for modification of this provision in accordance with future promulgated regulations.

2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

This permit is not transferable to any person except after notice to EPA as specified in Part II, Section A, Paragraph 11. EPA may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act. Any transfer must otherwise be in accordance with 40 C.F.R. §122.61.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part II, Section C, Paragraph 4 (Reporting of Monitoring Results).



5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance must include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

6. Twenty-Four Hour Reporting

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the noncompliance. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, prevent recurrence of the noncompliance, and the steps taken to minimize any adverse impact to navigable waters. The following shall be included as information which must be reported within 24 hours:

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- b. Any upset which exceeds any effluent limitation in the permit.
- c. Violation of a maximum daily discharge limitation for any of the pollutants listed by EPA in the permit, to be reported to EPA within 24 hours.

The EPA may waive the written report on a case-by-case basis if the oral report has been received within 24 hours and the EPA determines that the noncompliance does not endanger health or the environment.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section D, Paragraphs 1, 4, 5, and 6 at the time monitoring reports are submitted. The reports shall contain the information listed in Paragraph 6.

8. Duty to Provide Information

The permittee shall furnish to the EPA, within a reasonable time, any information which the EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the EPA, upon request, copies of records required to be kept by this permit.

9. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. 40 C.F.R. §122.21(d). The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. In the event that a timely and complete reapplication has been submitted and the Director is unable, through no fault of the permittee, to issue a new permit before the expiration date of this permit, the terms and conditions of this permit are automatically continued and remain fully effective and enforceable.

10. Signatory Requirements

All applications, reports or information submitted to the Director shall be signed and certified as required by 40 C.F.R. 122.22. Knowingly making false statements, representations, or certifications is subject to penalty.

11. Availability of Reports

Unless a confidentiality claim is asserted pursuant to 40 C.F.R. Part 2, all reports submitted in accordance with the terms of this permit shall be available for public inspection at the offices of the Director. If a confidentiality claim is asserted, the report will be disclosed only in accordance with the procedures in 40 C.F.R. Part 2. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.

12. Penalties for Falsification of Reports

The Clean Water Act at Section 309 (c)(4), provides that any person who knowingly makes any false representation or certification in any record or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon a first conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or by both. For a conviction of a person for a violation committed after a first conviction of such person, punishment shall be by fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

13. Correction of Reports

If the permittee becomes aware that it submitted incorrect information in any report to the Director, it shall promptly submit the correct information.

## **SECTION E. PUBLIC ACCOUNTABILITY**

The permittee shall undertake an overall program of public accountability, including quarterly summary reports to inform all users of the sanitary system and local government officials and the general public of the extent of actual compliance with permit requirements and conditions. To facilitate public information, the permittee shall use available means such as posting quarterly summary reports on its website, inserts with water and sewer bills or other means to distribute this information to the public. In addition, the permittee shall include in this report information on the efficacy of all (on and off site) operations used in the disposal of sludge from the Blue Plains WWTP. Reports shall be provided to at least the following:

Secretary, Maryland Department of the Environment  
Executive Director, Virginia Dept. of Environmental Quality  
Director, DC Department of the Environment  
Chief of Maintenance, National Park Service  
Director, Interstate Commission of the Potomac River Basin  
Director, Metropolitan Washington Council of Governments  
Director, Water Protection Division, US EPA, Region III

### PART III. COMBINED SEWER SYSTEM

#### SECTION A. GENERAL

The permittee operates a Combined Sewer System (CSS). The CSS includes the combined sewer overflow (CSO) and other Outfalls listed below as indicated by footnotes. During the period beginning with the permit effective date and lasting until the permit expiration date, the permittee is authorized to discharge from the CSOs listed below, as specified in the following paragraphs and sections.

<b>Outfall (1)</b>	<b>Overflow Structure Location</b>	<b>Receiving Stream</b>	<b>Latitude and Longitude (approximate)</b>
003	Bolling AFB	Potomac River	N 38 49 51 W 77 01 32
004 (2)	Emergency relief for Poplar Point Sewage Pumping Station, SE	Anacostia River, East Side	N 38 51 57 W 77 00 18
005	Chicago Street and Railroad Station, SE	Anacostia River, East Side	N 38 52 08 W 76 59 36
006	Good Hope Road, West Of Nichols Ave.,SE	Anacostia River, East Side	N 38 52 16 W 76 59 28
007	13 <sup>th</sup> Street and Ridge Place,SE	Anacostia River, East Side	N 38 52 16 W 76 59 19
008 (2)	Anacostia Ave. west of Blaine St. NE – relief for Anacostia Main Interceptor	Anacostia River, East Side	N 38 53 29 W 76 57 46
009	2 <sup>nd</sup> Street, 300 feet North of N Place, SE	Anacostia River, West Side	N 38 52 21 W 77 00 15
010	O Street Sewage Pumping Station, SE	Anacostia River, West Side	N 38 52 23 W 77 00 14
011	South of Main Sewage Pumping Station, SE (pumped overflow)	Anacostia River, West Side	N 38 52 22 W 77 00 17
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	Anacostia River, West Side	N 38 52 22 W 77 00 17
012	North of Main Sewage Pumping Station, SE	Anacostia River, West Side	N 38 52 22 W 77 00 09

013	4 <sup>th</sup> and N Streets, SE	Anacostia River, West Side	N 38 52 22 W 77 00 09
014	6 <sup>th</sup> and M Streets, SE	Anacostia River, West Side	N 38 52 23 W 76 59 09
015	9 <sup>th</sup> and M Streets, SE	Anacostia River	N 38 52 18 W 76 59 38
016	12 <sup>th</sup> and M Streets, SE	Anacostia River, West Side	N 38 52 20 76 59 28
017	14 <sup>th</sup> and M Streets, SE	Anacostia River	N 38 52 31 W 76 59 28
018	Barney Circle and Pennsylvania Ave, SE	Anacostia River	N 38 52 39 W 76 58 57
019	NE Boundary Trunk, Vic. Of 25 <sup>th</sup> and E Sts., SE	Anacostia River, West Side	N 38 52 21 W 77 00 09
020	23 <sup>rd</sup> Street, North of Constitution Ave, NW	Potomac River, East Side	N 38 53 10 W 77 03 03
021	Northeast of Roosevelt Bridge, NW	Potomac River, East Side	N 38 53 19 W 77 03 11
022	27 <sup>th</sup> and K Streets, NW	Potomac River, East Side	N 38 53 52 W 77 03 27
023	Abandoned (Formerly 29 <sup>th</sup> And K Streets, NW)	Potomac River, East Side	Not Available
024	30 <sup>th</sup> and K Streets, NW	Potomac River, East Side	N 38 54 05 W 77 03 31
025	31 <sup>st</sup> and K Streets, NW	Potomac River, East Side	N 38 54 03 W 77 03 44
026	Wisconsin Avenue and K St., NW	Potomac River, East Side	N 38 54 06 W 77 03 47
027	Water Street West of Street, NW	Potomac River, East Side	N 38 54 13 W 77 03 57
028	36 <sup>th</sup> and M Streets, NW	Potomac River, East Side	N 38 54 13 W 77 04 18
029	Canal Road 1000 feet east of Rock Creek, NW	Potomac River, East Side	N 38 49 00 W 77 01 40
030	Abandoned (Formerly Foxhall and Canal Roads, NW)	Potomac River, East Side	Not Available
031	Pennsylvania Avenue, East Rock Creek, NW	Rock Creek, East Side	N 38 54 23 W 77 03 22
032	26 <sup>th</sup> and M Streets, NW	Rock Creek, East Side	N 38 54 22 W 77 03 17
033	N Street extended West of 25 <sup>th</sup> Street,NW	Rock Creek, East Side	N 38 54 26 W 77 03 18

034	23 <sup>rd</sup> and O Streets, SW	Rock Creek, East Side	N 38 54 36 W 77 03 05
035	22 <sup>nd</sup> Street south of Q Street, NW	Rock Creek, East Side	N 38 54 33 W 77 03 00
036	22 <sup>nd</sup> Street South of Q Street, NW	Rock Creek, East Side	N 38 54 38 W 77 03 06
037	Northwest of Belmont and Rock Creek and Potomac Parkway	Rock Creek, East Side	N 38 55 02 W 77 03 04
038	North of Belmont Road, east of Kalorama Circle, NW	Rock Creek, East Side	N 38 55 08 W 77 03 05
039	Connecticut Avenue East of Creek, NW	Rock Creek, East Side	N 38 55 18 W 77 02 56
040	Biltmore Street extended east of Rock Creek, NW	Rock Creek, East Side	N 38 55 40 W 77 02 43
041	Ontario extended and Rock Creek Parkway	Rock Creek, East Side	N 38 55 40 W 77 02 43
042	Harvard Street and Rock Creek Parkway, NW	Rock Creek	N 38 55 42 W 77 02 43
043	Adams Mill Road South of Irving Street, NW	Rock Creek, East Side	N 38 55 42 W 77 02 42
044	Kenyon Street and Adams Mill Road, NW	Rock Creek East Side	N 38 55 44 W 77 02 44
045	Adams Mill Road and Lamont Street, NW	Rock Creek, East Side	N 38 55 50 W 77 02 49
046	Park Road south of Piney Branch Parkway, NW	Rock Creek, East Side	N 38 56 06 W 77 02 45
047	Ingleside Terrace extended and Piney Branch Parkway	Rock Creek, East Side	N 38 56 10 W 77 02 36
048	Mt. Pleasant Street extended and Piney Branch Parkway	Rock Creek, East Side	N 38 56 15 W 77 02 23
049	Piney Branch and Lamont Street, NW	Rock Creek, East Side	N 38 56 12 W 77 02 19
050	28 <sup>th</sup> Street west of 16 <sup>th</sup> Street, NW	Rock Creek, East Side	N 38 54 14 W 77 03 23
051	Olive Street extended and Rock Creek Parkway, NW	Rock Creek, East Side	N 38 54 32 W 77 03 11
052	O Street extended and Rock Creek Parkway, NW	Rock Creek, West Side	N 38 54 31 W 77 03 16
053	O Street west of Rock Creek Parkway, NW	Rock Creek, West Side	N 38 55 18 W 77 01 40

054	West Side of Rock Creek 300 ft. south of Mass.Ave, NW	Rock Creek, West Side	N 38 54 34 W 77 03 02
055	Abandoned		
056	Normanstone Drive extended west of Rock Creek, NW	Rock Creek, West Side	N 38 55 02 W 77 03 04
057	28 <sup>th</sup> Street extended West of Rock Creek, NW	Rock Creek, West Side	N 38 55 18 W 77 03 09
058	Connecticut Avenue and Rock Creek Parkway, NW	Rock Creek, West Side	N 38 55 16 W 77 03 02
059	Luzon Valley [SEPARATED]	Rock Creek, West Side	N 38 57 54 W 77 02 13
060	P St and 26 <sup>th</sup> St, NW	Rock Creek, West Side	Not Available
061 (2)	Hayes St. & Anacostia Ave NE – Emergency relief for Upper Anacostia Sewage Pumping Station	Tributary to Anacostia – East Side	Not Available
062 (2)	Earl Place, NE - Emergency relief for Earl Place Sewage Pumping Station	Tributary to Anacostia – West Side	Not Available

- (1) All outfalls are CSO outfalls unless noted otherwise.
- (2) These outfalls are recognized in the permit as emergency relief locations; they are not CSO Outfalls. Discharges are prohibited under Part III.B.1.e(i) and are reportable under Part III.B.1.e(iii) and Part II.D.2 and 7.

## **SECTION B. TECHNOLOGY-BASED CSS REQUIREMENTS**

The permittee is required to control combined sewer overflows in accordance with the CSO Policy (April 1994). The permittee shall comply with the nine minimum technology-based conditions set forth below.

1. Nine Minimum Controls (NMC) Program
  - a. Operation and Maintenance - The permittee shall implement proper operation and maintenance programs for the sewer system and all CSO outfalls, in accordance with the program set forth below, with consideration given to the following: regular sewer inspections, sewer, catch basin and regulator cleaning; equipment and sewer collection system repair or replacement, where necessary; and disconnection of illegal connections.
    - i. Maintain a CSS inventory. Prepare an inspection plan and submit updated inventory information with each annual report as follows:
      - (a) List of CSO outfalls and emergency relief locations from Part III, Section A, COMBINED SEWER SYSTEM - GENERAL of this permit.
      - (b) Combined Sewer Overflow Structures. Include designation, location, description of operation, capacity and diagram or drawing of each structure. Include similar information for each inflatable dam.
      - (c) Outfall Structures. Include designation, location and description of each structure. Include a diagram or drawing and a picture as available and practicable. Describe outfalls characteristic at high and low tide (e.g., submerged, partially submerged, not submerged). Identify whether or not each structure is equipped with a tide gate.
      - (d) Supervisory Control and Data Acquisition (SCADA) System. Include a functional description, and list of information provided by the SCADA system for the CSS.
      - (e) Rain Gages. List location and description of rain gauges installed Within the CSS.
    - ii. Inspect CSS control structures (regulator structures and tide gates) at least once per month.
    - iii. Inspect pumping stations at least once per month.



- iv. Inspect Northeast Boundary Swirl Facility at least once per month.
  - v. Inspect inflatable dams and CSS SCADA system at least once per month.
  - vi. Develop an inspection program for the major combined sewers where each major combined sewer is inspected on a rotating schedule of sufficient frequency to maintain capacity requirements.
  - vii. Inspect outfall structures annually.
  - viii. Following rehabilitation, operate and maintain the Main, "O" Street, Potomac and Poplar Point and Eastside Pumping stations to provide firm pumping capacities of 240 MGD, 45 MGD, 460 MGD, 45 MGD and 45 MGD respectively.
- b. Use Collection System for Storage
- i. Operate and maintain inflatable dams to optimize storage in the CSS.
- c. Pretreatment Program
- i. Use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs.
  - ii. Use pretreatment regulations to require permitted significant industrial users (SIUs) discharging directly to the CSS to establish management practices to limit (e.g., use of control, detention or prohibition) batch discharges during wet weather conditions to the maximum extent feasible. Conduct an annual inspection of the above users to identify the existence of any batch discharges. Evaluate batch discharges identified to determine whether and to what extent limitations are appropriate during wet weather, taking into consideration volume, frequency, characteristics and the need to protect life and property.
- d. Maximize Flow to Blue Plains
- i. During wet weather, operate the pumping stations and collection system to deliver the maximum flow possible to Blue Plains within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant. Develop a reporting system to show that operation of the pumping stations has been maximized during wet weather and that the maximum flow possible is being delivered to Blue Plains for treatment within the constraints of the pumping stations, collection system and treatment plant. Report such operations for each wet weather event.
  - ii. Maintain pumps to maximize flow to Blue Plains.

- iii. The permittee shall ensure that the collection system has the capacity to convey flows at a rate totaling at least 1076 mgd to Blue Plains for treatment.
- e. Eliminate Dry Weather Overflows (DWOs)
  - i. Dry weather overflows from CSO outfalls are prohibited. When the permittee detects a dry weather overflow, the permittee shall begin corrective action immediately. The permittee shall inspect the dry weather overflow each subsequent day until the overflow has been eliminated.
  - ii. Maintain a program to enlist public support for reporting DWOs.
  - iii. Receive reports of DWOs on a 24-hour basis. Each dry weather overflow confirmed by the Permittee shall be reported to District of Columbia Department of the Environment (DDOE) and EPA Region III within 24 hours.
- f. Control Solid and Floatable Materials in CSOs
  - i. Screen pumped overflows at the Main and O Street Pumping Stations.
  - ii. Screen flow into the Northeast Boundary Swirl Facility.
  - iii. Operate and maintain end of pipe solid and floatable BMP demonstration controls until termination of the demonstrations at locations as follows:
    - (a) End of pipe netting system at CSO Outfall 018. Bar rack at CSO Outfall 041 at Structure Number 62.
    - (b) Bar rack at CSO Outfall 040 at Structure 61.
    - (c) Inspect BMP demonstration controls at least once per month. Clean BMPs following wet weather events on a schedule that maintains capture functions.
  - iv. Clean 85 percent of the 8200 catch basins in the combined sewer area at least annually. Inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.

The Anacostia River CSO areas inspection schedule is an interim schedule until permanent solids and floatable control facilities are placed in operation as part of the Long Term Control Plan. As permanent facilities are placed in operation, in each combined sewer area, the permittee may petition EPA to reduce the cleaning frequency to once per year in that area.

- v. Operate the Anacostia River Floatable Debris Removal Program. This program comprises pick up of debris by skimmer and support boats on a regular weekly schedule, weather and river conditions permitting.
- vi. Advise the D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. Document these efforts in quarterly CSO reports.
- vii. Implement an ongoing, appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewershed, including public service announcements, public school presentations and stenciling programs.
- viii. Prepare lesson plan materials to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. Make the materials available to D.C. Public elementary schools for their use. Offer to make presentations to schools on the lesson plan and the CSO program at up to 6 occasions per year.

g. Pollution Prevention

- i. Conduct regular public education programs to advise citizens of proper disposal of substances (e.g., household wastes, plastics, paper products, oils, leaves and the use of fertilizer).
- ii. Conduct tours of Blue Plains to educate public on aspects of CSO control that can be enhanced with public assistance.
- iii. Use the pretreatment program to encourage industrial waste reduction through recycling and improved housekeeping.
- iv. Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.
- v. Coordinate where feasible and practicable WASA's pollution prevention programs with those of D.C. government agencies such as the following partial list of pollutant prevention programs conducted by District of Columbia government agencies:
  - (a) Department of Public Works Programs
    - (i) Curbside recycling
    - (ii) Leaf pickup

- (iii) Public trash receptacles
- (iv) Household hazardous waste collection
- (v) Residential bulk refuse collection and self-Service disposal
- (vi) Campaign against rats
- (vii) Support of community cleanup programs ("Helping Hand")
- (viii) Enforcement of illegal dumping operations
- (ix) Street cleaning and sweeping
- (x) Public education for DPW Solid Waste Education And Enforcement Program ("SWEEP")

(b) Department of Environment Programs

- (i) Public education and assistance
- (ii) Enforcement of storm water and erosion/sedimentation control regulations

h. Public Notification

i. Operate a light on the Anacostia River and a light on the Potomac River to notify river users of CSO events. Lights will be operated by a signal from a representative CSO outfall on each river. A light (color A) will be illuminated during a CSO occurrence and a second light (color B) will be illuminated for 24 hours after a CSO has stopped.

ii. Maintain a website with information on: (a) nature of CSO discharges; (b) locations of CSOs; (c) potential health threats of CSOs; (d) record of CSO events by outfall with number, average duration and volume for the prior three month calendar quarter based on modeled results; (e) description of light system on the Anacostia River and Potomac River that advises river users of times that CSOs are actually occurring; and (f) nature and duration of conditions potentially harmful to users of receiving waters during and after a CSO event.

iii. Prepare and distribute semi-annually in sewer bills an informational pamphlet with information similar to that listed under h.ii above.

iv. Distribute a pamphlet semi-annually to locations (e.g., boathouses, marinas, water sports shops) frequented by receiving water users. The pamphlet shall include information similar to that listed under h.i above. Distribution will be to the extent permitted by owners of the locations.

v. Prepare and maintain an information bulletin to distribute to callers requesting information on the CSS and CSOs.

vi. Include updates and status of CSS and CSO plans and programs in information distributed under h. i, ii, iii, and iv above.

- vii. Maintain warning signs at all CSOs.
- i. Monitoring
  - i. Operate and maintain the SCADA system that monitors activation of selected CSO outfalls.
  - ii. Monitor and record the condition of the bar racks at the Main and O Street Pumping Stations storm,/CSO pumps to assess their ability to trap floatables.
  - iii. Monitor and record debris removed by the Anacostia River Floatable Debris Removal Program.
  - iv. Monitor and record flow, screenings removal and disinfection and dechlorination at the Northeast Boundary (NEB) Swirl Facility.
  - v. Monitor and record demonstration floatables removal; (a) at the end of pipe netting system at Outfall 018; (b) at bar rack at Outfall 041; and c) at the bar rack at Outfall 040 for the duration of the demonstration project.
  - vi. Monitor and record rainfall at a minimum of four (4) locations in the CSS. Locate rain gages at sites which are different from those used in the development of the LTCP. Report the number, volume and average duration of overflows for each active CSO outfall. The information shall be prepared using the latest model of the CSS, based on the measured storm event data and the operation of the inflatable dams for the previous calendar year.

#### **SECTION C. Water Quality Based Combined Sewer System (CSS) Requirements**

1. The Long Term Control Plan (LTCP) for the District of Columbia CSS including supplements thereto, provides for the control of CSO discharges to comply with the District of Columbia water quality standards in the Anacostia River, Rock Creek and its Piney Branch tributary and the Potomac River.
2. The permittee shall implement and effectively operate and maintain the CSO controls identified in the LTCP and any supplements thereto.
3. The LTCP for the District of Columbia CSS provides for the control of CSO discharges to the Anacostia River, Rock Creek and its Piney Branch tributary and the Potomac River. The LTCP facilities for controlling discharges to the above-named receiving waters include, among other things, diversion structures, a system of underground storage tunnels, pumping stations and outfall and overflow structures. The facilities shall, within the capacities provided, divert combined sewer flows to the storage tunnels, store combined sewer flow and convey stored combined sewer flow to Blue Plains for treatment.

4. The permittee shall effectively operate and maintain the LTCP CSO control facilities in accordance with the limitations and conditions set forth below.
5. Discharges from CSO Outfalls and tunnel overflow structures are prohibited except during wet weather events when one or more of the following conditions exist:
  - a. The associated tunnels serving individual CSO outfalls and tunnel overflow structures are filled to their design capacities.
  - b. Combined sewer flow is being transferred from individual CSO outfalls to the associated storage tunnel or diversion sewer at not less than minimum diversion rates listed below.
6. Solids and floatables capture shall be provided for all overflows prior to discharge to receiving waters.
7. All combined sewer flow stored in the Anacostia River, Northeast Boundary, Piney Branch and the Potomac River storage tunnels shall be emptied in such a manner as to maximize treatment of the stored flows through complete treatment at Blue Plains and to optimize conditions for maintaining the availability of storage volume in the tunnels system.
8. Storage tunnels shall have minimum design capacities as follows:
  - a. Anacostia River and Northeast Boundary Tunnels - 157 million gallons
  - b. Piney Branch Tunnel - 9.5 million gallons
  - c. Potomac River Tunnel - 58 million gallons
9. Minimum diversion capacities from CSO outfalls to storage tunnels or interceptors and monitoring of diversions shall be as follows:

a. Anacostia CSO Control Systems

CSO Outfall	Drainage Area	Minimum Diversion Capacity For CSO Control (mgd)	Diversion to Tunnel or Diversion Sewer	Monitoring
005	Fort Stanton	22	Tunnel	(2)
006	Fort Stanton	to be separated	n/a	n/a

007	Fort Stanton	44	Tunnel	(3)
009	Canal Street	21	Tunnel	(2)
010and011	B St/NJ Ave	180	Tunnel	(3)
012	Tiber Creek	221	Tunnel	(3)
013	Canal Street Sewer	17	Tunnel	(2)
014	Navy Yard/M St.; 6 <sup>th</sup> St-7 <sup>th</sup> St	61	Tunnel	(2)
015	Navy Yard/M St.; 9 <sup>th</sup> St	22	Tunnel	(2)
016 <sup>(1)</sup>	Navy Yard/M St.; 12 <sup>th</sup> St - 9 <sup>th</sup> St.	86	Tunnel	(2)
017 <sup>(1)</sup>	Navy Yard/M St.; 14 <sup>th</sup> St to Penn Ave	65	Tunnel	(2)
018	Barney Circle	57	Tunnel	(2)
019	Northeast Boundary	1,160	Tunnel	(3)

b. Potomac CSO Control Systems

CSO Outfall	Drainage Area	Minimum Diversion Capacity for CSO Control (mgd)	Diversion To Tunnel or Diversion Sewer	Monitoring
020	Easby Point	297	Tunnel	(3)
021	Slash Run	530	Tunnel	(3)
022	I St - 22 <sup>nd</sup> St. NW	333	Tunnel	(3)
024 <sup>(1)</sup>	West of Rock Creek Diversion Sewer	66	Tunnel	(2)

025 <sup>(1)</sup>	31 <sup>st</sup> & K St NW	3	Tunnel	(2)
026 <sup>(1)</sup>	Water St Dist (WRC)	0	Tunnel	(2)
027 <sup>(1)</sup>	Georgetown	92	Tunnel	(2)
028 <sup>(1)</sup>	37 <sup>th</sup> St. Georgetown	9	Tunnel	(2)
029	College Pond	133	Tunnel	(3)

c. Rock Creek CSO Control Systems

CSO Outfall	Drainage Area	Minimum Diversion Capacity for CSO Control (mgd)	Diversion to Tunnel or Diversion Sewer	Monitoring
031	Penn Ave	to be separated	n/a	n/a
032	26 <sup>th</sup> St - M St	6	Interceptor	(4)
033	N St - 25 <sup>th</sup>	5	Interceptor	(3)
034	Slash Run	6	Interceptor	(4)
035	NW Boundary	290	Interceptor	(4)
036	Mass Ave & 24 <sup>th</sup> St	29	Interceptor	(3)
037	Kalamora Circle West	to be separated	n/a	n/a
038	Kalamora Circle East	5	Interceptor	(4)
039	Belmont Rd	28	Interceptor	(4)
040	Biltmore Rd	12	interceptor	(4)
041	Ontario Rd	14	Interceptor	(4)
042	Quarry Rd	19	Interceptor	(4)
043	Irving St	35	Interceptor	(4)
044	Kenyon St	4	interceptor	(4)
045	Lamont St	8	Interceptor	(4)
046	Park Rd	9	Interceptor	(4)
047	Ingleside Terr	10	Interceptor	(3)
048	Oak St/Mt Pleasant	11	Interceptor	(4)



049	Piney Branch	468	Tunnel	(3)
050	M St - 27 <sup>th</sup> St	21	interceptor	(4)
051	Olive-29th St	4	Interceptor	(4)
052	O St - 31 <sup>st</sup> St	56	Interceptor	(4)
053	O St	to be separated	n/a	n/a
054	West Rock Cr Diversion Sewer	(5)	Interceptor	(4)
055	Abandoned	n/a	n/a	n/a
056	Normanstone Dr	(5)	Interceptor	(4)
057	Cleveland - 28 <sup>th</sup> St & Conn Ave	33	Interceptor	(3)
058	Conn Ave	to be separated	n/a	n/a
059	16 <sup>th</sup> and Rittenhouse Sts, NW	Separated	n/a	(4)

- (1) These outfalls have been consolidated. Diversion capacity listed is that required for CSO control.
- (2) Diversion capacity validated by construction performance test, no additional monitoring required.
- (3) Continuous flow measurement of diversion and outfall. Provision for temporary sampling on diversion and outfalls.
- (4) Diversion capacities from the referenced outfalls have been estimated based on computer modeling.
- (5) These CSOs are emergency reliefs for the West Rock Creek Diversion sewer. There is no tributary drainage area, and flow diversion does not occur at these CSOs. The performance of these CSOs will be validated by computer modeling, no additional monitoring required.

10. With each DMR, report operations of the monitored CSO control facilities by systems as follows:

- a. Volume into and out of storage tunnels;
- b. Diversion rates into storage tunnels;
- c. Discharge rates from outfalls;
- d. Start and end time of wet weather event;
- e. Time when storage tunnel became filled to minimum required capacity;

- f. All discharges from outfalls occurring prior to storage tunnel being filled to minimum required capacity and at less than minimum required diversion rates;
- g. Volume of overflows from outfalls;
- h. Results of any overflow or diversion sampling.

#### **SECTION D. POST CONSTRUCTION MONITORING**

The permittee shall implement a phased post-construction monitoring program to obtain information on rainfall, the volume and character of overflows and receiving waters characteristics. The monitoring phases shall be as follows:

<b>Phase</b>	<b>Post-Construction Condition</b>
1	Following the placement in operation of the inflatable dams and pumping stations rehabilitation.
2	Following the placement in operation of the Anacostia, Rock Creek and Potomac storage tunnels, respectively, As each tunnel is placed in operation.
3	Following the placement in operation of the complete CSO tunnels storage system

1. Phase I monitoring shall be in accordance with the following:

##### CSO Systems

<b>Monitoring Type</b>	<b>Anacostia River</b>	<b>Potomac River</b>	<b>Frequency (3)</b>
Rainfall Monitoring (1)	1 gauge in Northeast Boundary  1 gauge in Tiber Creek	1 gauge in Slash Run	Continuous
CSO Overflow (flow and volume) (1)	Northeast Boundary CSO 019  B ST/NJ Ave pumped overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 024	Continuous
CSO Overflow Sampling (2)	1 sampling station at Northeast Boundary	n/a	4 storms minimum approximately 1 hr sample interval for each storm.
Receiving Water Monitoring - Dissolved Oxygen (4)	Continuous DO Monitors	Continuous DO Monitors	approximately 30 minute intervals

Receiving Water Monitoring - Bacteria, Field Parameters(2)(4)	Bacteria Samples	Bacteria Samples	4 storms minimum
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- (1) Temporary gauges, meters and samplers to be installed.
  - (2) Samples shall be analyzed for fecal coliform, E.coli, CBOD5 and TSS.
  - (3) Monitoring shall be conducted for a continuous period of 12 months.
  - (4) The permittee is responsible for submitting all data, however, it is acceptable to use data developed by other sources.
2. Phase 2 monitoring shall be in accordance with the following:

CSO Systems

Monitoring Type	Anacostia	Potomac	Rock Creek	Frequency
Rainfall Monitoring (1)	1 gauge in Northeast Boundary  1 gauge in Tiber Creek	1 gauge in Slash Run  1 gauge in College Pond	1 gauge in Piney Branch	Continuous
CSO Overflow Monitoring and Diversion to Storage Monitoring (2)	Northeast Boundary CSO 019  Fort Stanton CSO 007  B ST/NJ Ave Pumped Overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 029	Piney Branch CSO 049	Continuous
Tunnel Storage Level Monitoring (2)	1 sensor in Tunnel	1 sensor in tunnel	1 sensor in tunnel	Continuous
CSO Overflow Sampling (2) (3)	Sampling stations at Northeast Boundary CSO 019 and CSO 10	Sampling stations at CSO 020 and CSO 021	1 sampling station at CSO 049	4 storms minimum approx. 1 hour sample interval for each storm
Receiving Water Monitoring - Dissolved Oxygen (5)	Continuous DO monitors (5)	Continuous DO monitors (5)	n/a	approx. 30 minute intervals (5)

Receiving Water Monitoring - Bacteria, Field Parameters (3)	Use data from existing monitors and establish at least 6 other locations	Use data from existing monitors and establish at least 3 other locations	Use data from existing monitors and establish at least 7 other locations	once per week for bacteria and once per quarter for all other substances
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- (1) Temporary gauges to be installed.
- (2) Shall use facilities and equipment installed as part of CSO control systems.
- (3) Sampling shall be analyzed for fecal coliform, E.coli, mercury, arsenic, cadmium, total chromium, copper, lead, nickel, selenium, silver, zinc, chromium VI, hardness, cyanide, pesticides, PCBs, volatiles and semivolatiles, DO, ammonia as N, TKN, total phosphorus, and ortho-phosphorus. Metals shall be analyzed as dissolved and total recoverable.
- (4) Monitoring shall be conducted for a continuous period of 12 months, in each CSO system after appropriate facilities are placed in operation.
- (5) Permittee is responsible for submitting all data, however, it is acceptable to submit data provided by other sources.

3. Phase 3 monitoring shall be in accordance with the following:

CSO Systems

Monitoring Type	Anacostia River	Potomac River	Rock Creek	Frequency (4)
Rainfall Monitoring (1)	1 gauge in Northwest Boundary 1 gauge in Tiber Creek	1 gauge in Slash Run  1 gauge in College Pond	1 gauge in Piney Branch	Continuous
CSO Monitoring and Diversion to Storage Monitoring (2)	Northeast Boundary CSO 019  Fort Stanton CSO 007  B St/NJ Ave Pumped Overflow CSO 010	Potomac Pumping Station CSO 021  College Pond CSO 029	Piney Branch CSO 049	Continuous
Tunnel Storage Level Monitoring (2)	L sensor in Tunnel	1 sensor in Tunnel	1 sensor in tunnel	Continuous
CSO Overflow Sampling (2) (3)	Sampling stations at CSO 019 and CSO 010	Sampling stations at CSO 021 and 020	1 sampling station at CSO 049	4 storms maximum approx. 1 hour sample interval for each storm
Receiving water Monitoring - Dissolved Oxygen (5)	continuous DO monitors	continuous DO monitors	n/a	approx 30 minute intervals

Receiving water monitoring-bacteria, field parameters (3) (5)	establish at least 6 locations	Establish at least 6 locations	7 other locations	once per week for bacteria and once per quarter for all other parameters
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- (1) Temporary gauges will be installed.
- (2) Shall use facilities and equipment installed as part of CSO control systems.
- (3) Sampling shall be analyzed for fecal coliform, E.coli, CBOD5, TSS, the 126 priority pollutants, mercury, arsenic, cadmium, total chromium, copper, lead, nickel, selenium, silver, zinc, chromium VI, hardness, cyanide, pesticides, PCBs, volatiles, semi-volatiles, DO, ammonia as N, TKN, total phosphorus and ortho-phosphorus. Metals shall be analyzed as dissolved and total recoverable.
- (4) Monitoring shall be conducted for a continuous period of 12 months.
- (5) The permittee is responsible for submitting all monitoring data.

4. Results from the monitoring phases shall be used to assess the performance of CSO controls against predictions established as part of LTCP development and its supplements. Performance assessments shall be prepared by the permittee and submitted to EPA within 180 days of completion of a monitoring phase. In general, the assessments shall include:

- a. Comparison of monitored overflow magnitude and duration with the LTCP predictions;
- b. Comparison of monitored water quality in receiving waters with LTCP predictions;
- c. Comparison of monitored CSO reductions with LTCP reductions;
- d. Comparison of performance to TMDLs and allocations established for CSOs and approved bypasses in the receiving waters; and
- e. Overall evaluation as to whether or not CSO controls are providing degree of control predicted for LTCP conditions and whether or not modifications or additions to the LTCP are required.

#### **SECTION E. CSO STATUS REPORTS AND SCHEDULES**

1. Progress reports are to be provided to EPA for all activities scheduled or completed in accordance with the terms of this permit. Such reports shall be submitted in quarterly and annual reports which summarize actions and activities undertaken to comply with Part III, Section B.1. and Part III, Section C of this permit (Nine Minimum Controls Program and the LTCP). Reports shall be submitted to EPA and DDOE as follows:
  - a. Submit quarterly reports on the 28<sup>th</sup> day of April, the 28<sup>th</sup> day of July, the 28<sup>th</sup> day of October and the 28<sup>th</sup> day of January. Reports shall summarize information through the last day of the month prior to the month in which the report is due. The first quarterly report shall be submitted for the first full quarter following the effective date of the permit.

- b. Submit annual reports by March 31 of each year summarizing information for the previous calendar year. The first annual report shall be submitted for the first full year following the effective date of the permit.
2. Information submitted in reports shall, in general, be prepared in a tabular format giving dates, times and locations as applicable. The information to be reported of the Nine Minimum Controls Program shall include the following:
- a. CSS Control Structures - Number of inspections conducted, conditions observed (e.g., function normal, blockages, malfunctions, repairs needed) and maintenance and repairs performed. For blockages observed provide: the location of blockage, date and time that the blockage was discovered, date and time blockage was corrected, and whether or not a discharge from the outfall to the receiving water was observed. If a discharge was observed, provide an estimate of discharge volume.
  - b. Pumping Stations - Number of inspections conducted, numbers of screens and pumps installed and numbers available for service; and preventative maintenance performed. For pumps found not to be available for service, permittee shall report the cause of unavailability, schedule for and status of repairs. For the Main and O Street pumping stations, report the results of visual wet weather surveys and record of overflow screenings.
  - c. Northeast Boundary Swirl Facility - Number of inspections conducted, number of screens and swirls installed and numbers available for service; and preventative maintenance performed. Report record of flow treated and screenings removed.
  - d. Inflatable Dams and SCADA System - Number of inspections conducted. Number of dams installed and number of dams operational. Occurrence of an overflow and approximate duration of overflow based on dams inflation status.
  - e. Major Combined Sewers - Upon development of inspection program. Inspections planned, inspections conducted, results of inspections and description and schedule for maintenance and repairs planned and performed.
  - f. Wet Weather Overflows - Report the modeled results of the number, volume and average duration of overflows for each active CSO outfall due to wet weather events.
  - g. Dry Weather Overflows - Are prohibited, however, in the event that they do occur, report their location, cause, date and time discovered, action taken, date and time discharge confirmed ceased and actions taken to prevent reoccurrence of the condition causing the overflow. Include an estimate of the overflow volume.

- h. Catch Basin Cleaning - Number and location of catch basins required to be cleaned plus the number and location of catch basins actually cleaned.
  - i. Anacostia River Floatable Debris Removal Program - Number of boats available for service, number of cleaning trips, record of amount and nature of material removed.
  - j. BMP Demonstration for Solid and Floatable Control - Number of inspections conducted and conditions observed, and records of material removed at CSO outfalls 018, 040 and 041.
  - k. Other - Summarize actions and activities under programs for Pollution Prevention, Public Notification and Pretreatment.
  - l. Wet Weather Flows to Blue Plains WWTP - Upon development of a reporting system, report operations for each wet weather event.
  - m. CSS Litter Control - Number of meetings or conferences with DPW and NPS. Summary of topics discussed and actions adopted.
3. Report on the following quarterly:
- a. Northeast Boundary Swirl Facility
  - b. Inflatable Dams and SCADA System
  - c. Dry Weather Overflows
  - d. CSS Control Structures
  - e. Pumping Stations
  - f. Wet Weather Flows to Blue Plains
  - g. Wet Weather Overflows
  - h. CSS Litter Control
4. Report on the following annually:
- a. CSS Inventory
  - b. Major Combined Sewers
  - c. Catch Basin Cleaning
  - d. BMP Demonstration for Solid and Floatable Control
  - e. Anacostia River Floatable Debris Removal Program
  - f. Other

## **PART IV. SPECIAL CONDITIONS**

### **SECTION A. PRETREATMENT**

#### **Pretreatment Conditions for Program Implementation**

- 1. General Requirements - The permittee shall operate and implement an industrial pretreatment program in accordance with the federal Clean Water Act and the federal General Pretreatment Regulations at 40 C.F.R. Part 403. The program shall also be

implemented in accordance with the permittee's pretreatment program and any modifications thereto submitted by the permittee and approved by the EPA.

2. Annual Report - In accordance with 40 C.F.R. § 403.12(i), the permittee shall submit an Annual Report by March 31 of each year to EPA that describes the permittee's pretreatment activities for the previous calendar year. The Annual Report shall include a description of pretreatment activities in all municipalities from which wastewater is received at the permittee's POTW. At a minimum, the Annual Report shall include the following:

- a. Industrial Listing - The Annual Report shall contain an updated industrial listing showing the name and address of all current Significant Industrial Users (SIUs) and Non-Significant Categorical Industrial Users (NSCIUs) as defined by 40 C.F.R. § 403.3 and the categorical standard, if any, applicable to each. The listing must: (1) identify any users that are subject to reduced reporting requirements under 40 C.F.R. § 403.12(e)(3); (2) identify which users are NSCIUs; (3) identify any users that have been granted a monitoring waiver in accordance with 40 C.F.R. § 403.12(e)(2) as well as the pollutants for which the waiver was granted and the date of the last POTW sampling event for each of those pollutants; and (4) identify any categorical industrial users that have been given mass-based limits in place of concentration-based categorical limits in accordance with 40 C.F.R. § 403.6(c)(5) or concentration-based limits in place of mass-based categorical limits in accordance with 40 C.F.R. § 403.6(c)(6). In addition, the report shall contain a summary of any trucked or hauled wastewater accepted into the POTW including the source of the wastewater (domestic, commercial, or industrial) and the discharge point(s) designated by the POTW for acceptance of such wastewater. For each industrial source, the report shall indicate the name and address of the industrial source, the average amount of wastewater received per discharge day, a brief description of the type of process operations conducted at the industrial facility, whether the source facility is a categorical industrial user (including NSCIUs), significant industrial user, or non-significant industrial user, and any controls imposed on the user;
- b. Control Mechanism Issuance - The Annual Report shall contain a summary of SIU control mechanism issuance, including a list of issuance and expiration dates for each SIU. For each general control mechanism issued, provide the names of all SIUs covered by the general control mechanism and an explanation of how the users meet the criteria under 40 C.F.R. § 403.8(f)(1)(iii)(A) for issuance of a general control mechanism.
- c. Sampling and Inspection - The Annual Report shall contain a summary of the number and type of inspections and samplings of SIUs by the permittee, including a list of all SIUs either not sampled or not inspected, and the reason that the sampling and/or inspection was not conducted. For any user subject to reduced reporting under 40 C.F.R. § 403.12(e)(3), the list shall include the date of the last POTW sampling and the date of the last POTW inspection of the user. In addition, the report shall include a summary of the number of self-monitoring events conducted by each SIU and the number required to be conducted, including a list of all SIUs that did not submit the required number of reports and the reason why the reports were not submitted. For NSCIUs, the report shall provide the date of the compliance certification required under 40 C.F.R. § 403.12(q);



- d. **Industrial User (IU) Compliance and POTW Enforcement** - The Annual Report shall contain a summary of the number and type of violations of pretreatment standards and requirements, including local limits, and the actions taken by the permittee to obtain compliance, including compliance schedules, penalty assessments, and actions for injunctive relief. The report shall state whether each SIU was in significant noncompliance, as that term is defined in 40 C.F.R. § 403.8(f)(2)(viii), including the parameter(s) in violation, the period of violation, the actions taken by the POTW in response to the violations, and the compliance status at the end of the reporting period. A copy of the publication of users meeting the significant noncompliance criteria shall be included. In addition, the report shall provide a list of users previously designated as NSCIUs that have violated (to any extent) any pretreatment standard or requirement during the year and the date and description of the violation(s);
- e. **Summary of POTW Operations** - The Annual Report shall contain a summary of any interference, pass-through, or permit violations by the POTW and indicate the following: (1) which (if any) NPDES violations may be attributed to industrial users; (2) which IU(s) are responsible for such violations; and (3) actions taken to address these events. The report shall also include all sampling and analysis of POTW treatment plant influent, effluent, and sludge for local limits and priority pollutants identified pursuant to section 303(d) of the Clean Water Act, 33 U.S.C. § 1313(d), and conducted during the year;
- f. **Pretreatment Program Changes** - The Annual Report shall contain a summary of any changes made or proposed to the approved program during the period covered by the report and the date of submission to EPA;
- g. **Signatory Requirements** - The Annual Report shall be signed by a principal executive officer, ranking elected official or other duly authorized employee in accordance with 40 C.F.R. § 403.12(m). Any such authorization must be made in writing and identify an individual or position having responsibility for the overall operation of the POTW or pretreatment program.
3. **Pretreatment Monitoring** - The permittee shall conduct monitoring at its treatment plant that, at a minimum, includes quarterly influent, effluent, and sludge analysis for all pollutants for which local limits have been established, and an annual priority pollutant scan for influent and sludge.
4. **Notification of Pass-Through or Interference** - The permittee shall notify EPA, in writing, of any instance of pass-through or interference, as defined at 40 C.F.R. § 403.3(p) and (k), respectively, known or suspected to be related to an industrial discharge from an IU into the POTW. The notification shall be attached to the Discharge Monitoring Report submitted to EPA and shall describe the incident, including the date, time, length, cause (including the responsible user if known), and the steps taken by the permittee and the IU (if identified) to address the incident. A copy of the notification shall also be sent to the EPA Pretreatment Coordinator at the address provided below.
5. **Headworks Analysis** - The permittee shall submit to EPA a reevaluation of its local limits based on a headworks analysis of its treatment plant within 1 (one) year of permit issuance. In order to ensure that the permittee's discharge complies with water quality

standards, the reevaluation of the local limits shall be conducted using, among other things, any water quality standards applicable to the pollutants included in the reevaluation unless the permit includes a limit for that pollutant. The list of pollutants to be evaluated, as well as a sampling plan for collection of necessary data, shall be submitted to EPA within 3 (three) months of permit issuance. Within 4 (four) months of acceptance of the headworks analysis by the Approval Authority, the permittee shall adopt the revised local limits and notify all contributing municipalities of the need to adopt the revised local limits.

6. Changes to Pretreatment Program - EPA or the permittee may initiate program modification at any time to reflect changing conditions at the POTW, which may include (but are not limited to) the following reasons:
  - a. The program is not implemented in accordance with 40 C.F.R. Part 403;
  - b. Problems such as interference, pass-through, or sludge contamination develop or continue;
  - c. Federal, State, or local requirements change;
  - d. Changes are needed to assure protection of waters of the United States. Program modification is necessary whenever there is a significant change in the operation of the Pretreatment Program that differs from the information in the permittee's submission, as approved under 40 C.F.R. § 403.11.
7. Procedure for Pretreatment Program Changes - Upon submittal by the permittee, and written notice of approval by EPA to the permittee of any changes to the permittee's approved pretreatment program, such changes are effective and binding upon the permittee unless the permittee objects within 30 days of receipt of the written notice of approval. Any such objection must be submitted in writing to EPA at the address shown below.
8. Correspondence - Pretreatment correspondence shall be submitted to EPA at the following address:

Pretreatment Coordinator (3WP41)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

## **SECTION B. STANDARD SLUDGE CONDITIONS**

1. The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices, including 40 C.F.R. 503 and 40 C.F.R. 258 which are hereby incorporated as part of the permit by reference, and the Clean Water Act (CWA) Part 405(d) technical standards.

If an applicable management or practice or numerical limitation for pollutants in sewage sludge more stringent than existing federal and state regulations is

promulgated under Part 405(d) of the CWA, this permit shall be modified to conform to the promulgated regulations.

2. The permittee shall give notice to the Director of any change(s) planned or in the permittee's sludge use or disposal practice.
3. A change in the permittee's sludge use or disposal practice is a cause for modification of the permit. It is a cause for revocation and reissuance of the permit if the permittee requests or agrees.
4. The permittee shall submit an annual sludge report containing the information required in 40 C.F.R. 503 by February 19 each year. The report shall cover the previous calendar year. The sludge report shall be submitted to"

U.S. EPA, Region III  
Water Protection Division  
Office of NPDES Permitting and Enforcement  
(3WP42)  
1650 Arch Street  
Philadelphia, PA 19103 - 2029

#### **SECTION C. CHLORINATION/DECHLORINATION**

1. The permittee shall report chlorine dosage (on a pound basis) per discharge event on Outfall 001. Dosage figures shall be submitted with the DMR for the month of the discharge event.
2. The concentration of Total Residual Chlorine (TRC) in the final effluent after dechlorination shall not exceed not-detectable. The permittee is required to achieve non-detectable for TRC as measured by 0.10 mg/l.

When the TRC concentration in the final effluent results in a detectable measurement (above 0.10 mg/l) the permittee shall take immediate steps to achieve a non-detectable concentration.

The permittee shall resample TRC within one hour after the original grab sample measurement. If this grab sample shows a non-detectable amount as measured by 0.10 mg/l or less, then the original sample shall be considered in compliance. If this grab sample shows a detectable amount, above 0.10 mg/l, then the permittee shall retest in the second hour after the original non-compliance. If this grab sample in the second hour after the original non-compliance shows a not detectable amount as measured by 0.10 mg/l or less, then the sample shall be considered in compliance, but if the grab sample is above 0.10 mg/l then it will be considered a violation and recorded on the DMR. Each subsequent hourly sample above 0.10 mg/l shall be enumerated on the DMR until the effluent returns to compliance.

Whenever there is an initial detectable TRC concentration, all subsequent sampling results shall be tabulated and reported with the DMRs and the time required to achieve the TRC of 0.10 mg/l. The analytical method used and the detection limit for each sample should be included on the data tabulation.

For purposes of reporting on the DMR form, a non-detectable result shall be reported as zero. For a violation(s) of the limit, the maximum chlorine residual for the month and the total number of excursions in that month should be recorded in the appropriate column on the DMR form. The permittee shall operate the dechlorination facilities in a manner which will ensure continuous compliance with the TRC non-detectable limit.

All analytical testing for TRC shall be in accordance with 40 C.F.R. Part 136, Amperometric Titration or DPD Ferrous Titrimetric Method.

#### **SECTION D. TOTAL NITROGEN COMPLIANCE SCHEDULE**

1. The total nitrogen (TN) effluent limit from the Blue Plains plant, for Outfall 002 shall be 4,377,580 pounds per year. Improvements to the existing nitrogen removal facilities to achieve this limit shall occur no later than the dates in the following schedule:
  - a. Award contract for Construction – December 31, 2011;
  - b. Place in operation – July 14, 2014
  - c. Begin compliance with TN effluent limit – January 1, 2015.
2. Progress Reports: Beginning six months from the effective date of this permit and every six months until January 1, 2015, the permittee shall submit reports detailing progress towards completion of each of the above requirements. In addition, no later than 14 days following each of the dates set forth above, the permittee shall notify EPA in writing of its compliance or non-compliance with these requirements.

#### **SECTION E. STORM WATER MANAGEMENT**

##### **1. Storm Water Pollution Prevention Plan**

###### **a. General**

A Storm Water Pollution Prevention Plan (SWPP) was developed for this facility in accordance with the factors outlined in 40 C.F.R.125.3 (d)(2)or (3), as appropriate. The plan identifies potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharge associated with sludge handling operations or other portions of the waste water treatment plant as appropriate.

b. Plan Review

The plan shall be retained on site at the facility. The permittee shall make plans available upon request to the EPA. The EPA may notify the permittee at the time that the plan does not meet one or more of the requirements of this Part. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan require modification in order to meet the minimum requirements of this Part. Within 30 days of such notification, the permittee shall make the required changes to the plan and shall submit to EPA a written certification that the requested changes have been made.

c. Plan Modification

The permittee shall amend the plan whenever;

- i. There is a change in design, construction, operation or maintenance which has a significant effect on the potential for the discharge of pollutants to the waters of the United States; or
- ii. EPA notifies the permittee of its finding that the SWPPP is inadequate in eliminating or minimizing pollutants from identified sources, or that the SWPPP is inadequate to prevent the facility from causing, or having a reasonable potential to cause or contribute to a violation of the D.C. Water Quality Standards.

## **SECTION F. PCB MONITORING AND REDUCTION**

1. The permittee shall monitor quarterly for PCBs at Outfalls 001 and 002 during the term of this permit using composite or grab samples as specified for these outfalls at Part I of this permit. The samples for Outfall 002 shall represent 2 dry weather and 2 wet weather samples quarterly during the term of this permit. Samples from Outfall 001 shall represent 2 wet weather samples quarterly during the term of this permit. During the first year of the permit, the permittee shall also monitor plant influent during one of the corresponding wet weather and one of the corresponding dry weather sampling events.

For the purpose of obtaining samples, dry weather means no measurable rain at Ronald Reagan National Airport in the prior 72 hours and wet weather means a condition when the average daily plant influent flow is greater than 511 mgd.

Samples shall be analyzed using Method 1668B. After the permittee has collected four quarterly samples from Outfall 002 and 001, the permittee may request a waiver from EPA for the remaining samples. Documentation shall be submitted with the waiver request to demonstrate why other sampling is not necessary. If the results of the monitoring indicate actual or potential exceedance of the Waste Load Allocation, and upon notification by EPA, the permittee shall within 120 days submit to EPA for comment a work plan and schedule for

preparation and implementation of a Pollution Minimization Plan (PMP) and other submittals or analyses of PCB data. Such submittals may include an assessment of PCBs in the initial source intake water to determine the net contributions of PCBs introduced to the treatment works and an analysis of the net reductions provided by treatment.

2. The PMP developed from the work plan shall include, but not necessarily be limited to:
  - a. The name and contact information for an individual who will serve as the permittee's contact for information concerning the PMP.
  - b. A narrative discussion together with necessary supporting data, charts, maps, diagrams and similar material of the permittee's CSO service area (CSO Area) including the location of all outfalls.
  - c. A time schedule with milestone dates.
  - d. Description of all known materials, equipment, processes, soil areas or facilities within the CSO area from which PCBs are known or suspected to be released, directly or indirectly into a CSO, including a description of the entry pathway if that is known. Pollutant concentrations, if known shall be reported.
  - e. Description of all known materials, processes, soil area or facilities within the CSO Area that are known to contain PCBs, but are not known to be releasing PCBs within the District's CSO Area.
  - f. During the term of this permit, the permittee shall collect and analyze at least twelve (12) in-stream samples for PCBs. Samples shall be taken simultaneously upstream and downstream of CSO outfalls and the PMP shall include planned locations for the monitoring.
  - g. The permittee shall develop a report of all known PCB sources within the CSO system that the permittee believes or has reason to believe may require some control measure to reduce its discharge of PCBs. The permittee shall work with the Interstate Commission on the Potomac River Basin (ICPRB), and other appropriate agencies, to develop a plan of action to control the discharge of PCBs from these sources.
  - h. The permittee shall develop and implement a program to identify whether industrial users have the potential to contribute to PCBs. Because PCBs may be contributed from many industrial processes, principally through oils which are contaminated by PCBs and may be rinsed and discharged into the sewer system, the permittee shall include PCBs as a sampling requirement for facilities with known or suspected sources of

PCBs. In addition, the permittee shall conduct period reviews of its industrial database, including analytical scans of suspected sources to determine whether PCBs are being discharged in detectable concentrations.

- i. The permittee shall demonstrate its compliance with the PMP by reporting the number of known sites, the number of sites referred for action and the results of the in-stream sampling activity and any other actions taken to further the goals of the PMP. The permittee shall report on PMP implementation annually by February 15 and the report shall cover the preceding calendar year.

## SECTION G. WHOLE EFFLUENT TOXICITY (WET) TESTING

1. In accordance with 40 C.F.R. § 122.21(j)(5), the permittee must conduct and provide the results of WET tests for chronic toxicity for Outfall 002 and acute toxicity for Outfall 001.
2. Testing Frequency
  - a. For the duration of this permit, these results must include quarterly testing on 24-hour composite effluent samples for Outfall 002, and grab samples for Outfall 001 beginning within three months of the effective date of the permit. The permittee shall conduct the toxicity tests, using a minimum of two species, using the fish fathead minnow - *Pimephales promelas* and the invertebrate species *Ceriodaphnia dubia*. Upon the completion of the last of four quarterly tests, the permittee may petition EPA for a reduction in the frequency of this testing.
  - b. In addition, pursuant to 40 C.F.R. 122.21(5)(iv)(A), the permittee shall submit the results of four quarterly tests for Outfalls 001 and 002 for a year immediately preceding the next permit application with its application for permit reissuance.
3. Monitoring
  - a. *Outfall 001.* Species and toxicity test methods for estimating the acute toxicity of NPDES effluents are found in the fifth edition of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA/821/R-02/012, 2002; Table 1A, 40 C.F.R. Part 136). The permittee shall conduct definitive 96-hour static renewal toxicity tests using a vertebrate species, the fathead minnow - *Pimephales promelas*, and definitive 96-hour static renewal toxicity tests using the invertebrate species, *Ceriodaphnia dubia* for Outfall 001. Each test will include a control and the permitted IWC of 45% concentrations in order to quantify any measurable acute toxicity. These renewal tests will need to have sufficient volume collected by grab during the storm event to use for the start of the test, the additional test renewals and TIE, if necessary.

During the first year of the WET studies the permittee shall use the multiple species required above. For the following years the permittee may perform the study using the most sensitive species only.

- b. For *Outfall 002*. Species and toxicity test methods for estimating the chronic toxicity of NPDES effluents are found in the fourth edition of *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002; Table 1A, 40 C.F.R. Part 136)(Chronic Test Methods Manual). The permittee shall conduct static renewal toxicity tests with a vertebrate species, the fathead minnow - *Pimephales promelas*, and an invertebrate species - *Ceriodaphnia dubia* for Outfall 002.

#### 4. WET Requirements

- a. For *Outfall 001*, the acute WET requirement for this discharge is “Pass” for any one test result. For this permit, the determination of Pass or Fail from a single-effluent-concentration (paired) acute toxicity test is determined using a one-tailed hypothesis test called a “t-test”. As discussed in paragraph 7. below, a mixing zone is authorized at Outfall 001. The resulting in-stream waste concentration (IWC) for Outfall 001 is 45%. The objective of a Pass or Fail test is to determine if survival in the single treatment (45% effluent) is significantly different from survival in the control (0% effluent). Following Section 11.3 in the Acute Test Methods Manual (EPA/821/R-02, 2002), the t statistic for the single-effluent-concentration acute toxicity test shall be calculated and compared with the critical t set at the 5% level of significance. If the calculated t does not exceed the critical t, then the mean responses for the single treatment and control are declared “not statistically different” and the permittee shall report “pass” on the DMR form. If the calculated t does exceed the critical t, then the mean responses for a single treatment and control are declared “statistically different” and the permittee shall report “fail” on the DMR form. This permit requires a TIE to be conducted on the original sample if the acute WET test is reported as “fail”.
- b. There are no chronic toxicity effluent limits for Outfall 002. Quarterly monitoring of chronic toxicity shall be conducted. If four consecutive chronic tests demonstrate an IC25 greater than the IWC of 52%, calculated for outfall 002, the permittee may request that EPA re-evaluate the effects of Outfall 002’s effluent upon the aquatic community and reduce or remove the WET testing frequency for the remainder of the permit cycle. If any of the quarterly chronic tests result in an IC25 less than the IWC of 52%, the permittee shall follow the requirements in paragraph G.8.b. below.

To properly conduct chronic WET tests, the laboratory must prepare a series of effluent dilutions which are specific to the permittee’s discharge. The permittee must inform the laboratory of the proper dilution series. The dilution series must include at least one dilution below the IWC. Based upon the calculated IWC, the recommended series for the chronic tests is 100, 72, 52, 38 and 27 percent effluent.



## 5. Reporting Results

All information reported must be based on data collected through analysis conducted using 40 C.F.R. Section 136 Table 1A methods. In addition, all data must comply with QA/QC requirements of 40 C.F.R. Part 136 and other appropriate QA/QC requirements for standard methods not addressed by 40 C.F.R. Part 136.

The permittee shall notify the permitting authority and DC DOE in writing within 14 days of an exceedance of a chronic or acute WET permit trigger. This notification shall describe actions the permittee has taken or will take to investigate, identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s) that no action has been taken.

Results for toxicity testing shall be submitted with the DMRs for the month in which the toxicity was conducted.

### Additional Reporting Requirements

The permittee shall provide the results of all WET tests conducted during the four and one-half years prior to application for a new permit.

## 7. Mixing Zones

Pursuant to the District of Columbia Water Quality Standards (WQS) (21 DCMR 1105.7), a mixing zone may be allowed for point source discharges of pollutants on a case-by-case basis where it is demonstrated that allowing a small area impact will not adversely affect the waterbody as a whole. Specific conditions apply. In accordance with the DC WQS, EPA is allowing the use of mixing zones for chronic WET testing, as long as the conditions of 21 DCMR 1105.7 are met. WASA may make a request in writing for a mixing zone for one or both outfalls. The request should demonstrate how the discharge meets the conditions of 21 DCMR 1105.5.

## 8. Accelerated Toxicity Testing and Toxicity Reduction Evaluation (TRE) Toxicity Identification Evaluation (TIE) Process

- a. *For Outfall 001.* The acute permit trigger is defined as the IWC. If an acute permit trigger is exceeded, then the permittee shall begin TIE testing using the excess of the original sample collected. This test shall begin immediately upon receipt of test results exceeding the acute WET trigger. If an acute trigger is exceeded, the permittee shall conduct two additional toxicity tests using the same species and test method as soon as additional Outfall 001 CSO releases occur. If the additional toxicity tests do not exceed the specified acute WET permit trigger, then the permittee may return to their regular testing frequency.

If a toxicant(s) is identified in the TIE process, the permittee shall develop a detailed TRE Workplan which shall include, at a minimum, the additional actions the permittee shall take to investigate, identify and correct the problem.

- b. *For Outfall 002.* The chronic permit trigger is defined as the IWC for outfall 002. If the chronic permit trigger is exceeded, then the permittee shall conduct two additional toxicity tests using the same species and test method. The tests shall begin within 14 days of receipt of test results exceeding the chronic WET trigger. If one of the additional toxicity tests exceeds a chronic WET permit trigger, then, within 30 days of the receipt of this confirmation test result, the permittee shall initiate a TRE using the U.S.EPA *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA/833/B-99/002) (1999). The TRE Workplan shall include, at a minimum, additional actions to be taken by the permittee to investigate, identify, and correct the causes of toxicity; actions the permittee will take to mitigate the impact of the discharge and prevent the recurrence of the toxicity; and a schedule to implement required remedial actions.
- c. During the pendency of the TRE/TIE process, the permittee shall continue quarterly acute and/or chronic WET testing.
- d. In the event that a toxicant is identified and a remedy can be quickly implemented (e.g., lowering concentrations of chlorine or ammonia), such remedy should be implemented as quickly as possible and prior to the development and submission of a TRE Workplan.

## Section 2 Operation and Maintenance

### 2.1 NPDES PERMIT REQUIREMENTS

The NPDES permit includes requirements for the NMC program related to operation and maintenance. The permit requires DC Water to:

- Maintain a CSS inventory - prepare an inspection plan and submit updated inventory information with each annual report as follows:
  - List of CSO outfalls and emergency relief locations
  - Combined Sewer Overflow Structures - designation, location, description of operation, capacity and diagram or drawing of each structure. Include similar information for each inflatable dam.
  - Outfall Structures. Include designation, location and description of each structure. Include a diagram or drawing and a picture as available and practicable. Describe outfalls characteristic at high and low tide (e.g., submerged, partially submerged, not submerged). Identify whether or not each structure is equipped with a tide gate.
  - Supervisory Control and Data Acquisition (SCADA) System. Include a functional description, and list of information provided by the SCADA system for the CSS.
  - Rain Gages. List location and description of rain gauges installed within the CSS.
- Inspect CSS control structures (regulator structures and tide gates) at least once per month.
- Inspect pumping stations at least once per month.
- Inspect Northeast Boundary Swirl Facility at least once per month.
- Inspect inflatable dams and CSS SCADA system at least once per month.
- Develop an inspection program for the major combined sewers where each major combined sewer is inspected on a rotating schedule of sufficient frequency to maintain capacity requirements.
- Inspect outfall structures annually.
- Following rehabilitation, operate and maintain the Main, “O” Street, Potomac and Poplar Point and East Side Pumping stations to provide firm pumping capacities of 240 mgd, 45 mgd, 460 mgd 45 mgd and 45 mgd respectively.

### 2.2 CSS SYSTEM INVENTORY

#### 2.2.1 Pipes, Manholes and Catch Basins

A schematic of the major conveyance pipelines and pumping stations in the DC Water's sewer system is presented on Figure 2-1. It is convenient to think of the drainage areas and CSS as being divided into two subsystems - an Anacostia system and a Potomac/Rock Creek system. The Northeast Boundary, Navy Yard, Fort Stanton, and Tiber Creek drainage areas are part of the Anacostia system. The other drainage areas are part of the Potomac/Rock Creek system, with the B St/New Jersey Avenue drainage area serving as a link between the Anacostia and Potomac/Rock Creek systems. The ratio of maximum design capacity to dry weather capacity of the two systems is significantly different. Prior studies indicate this factor is approximately two for the Northeast Boundary Trunk Sewer. However, this factor is typically significantly higher for trunk sewers and interceptors serving the Potomac/Rock Creek system, allowing them to carry more wet weather flow before discharging to receiving waters.

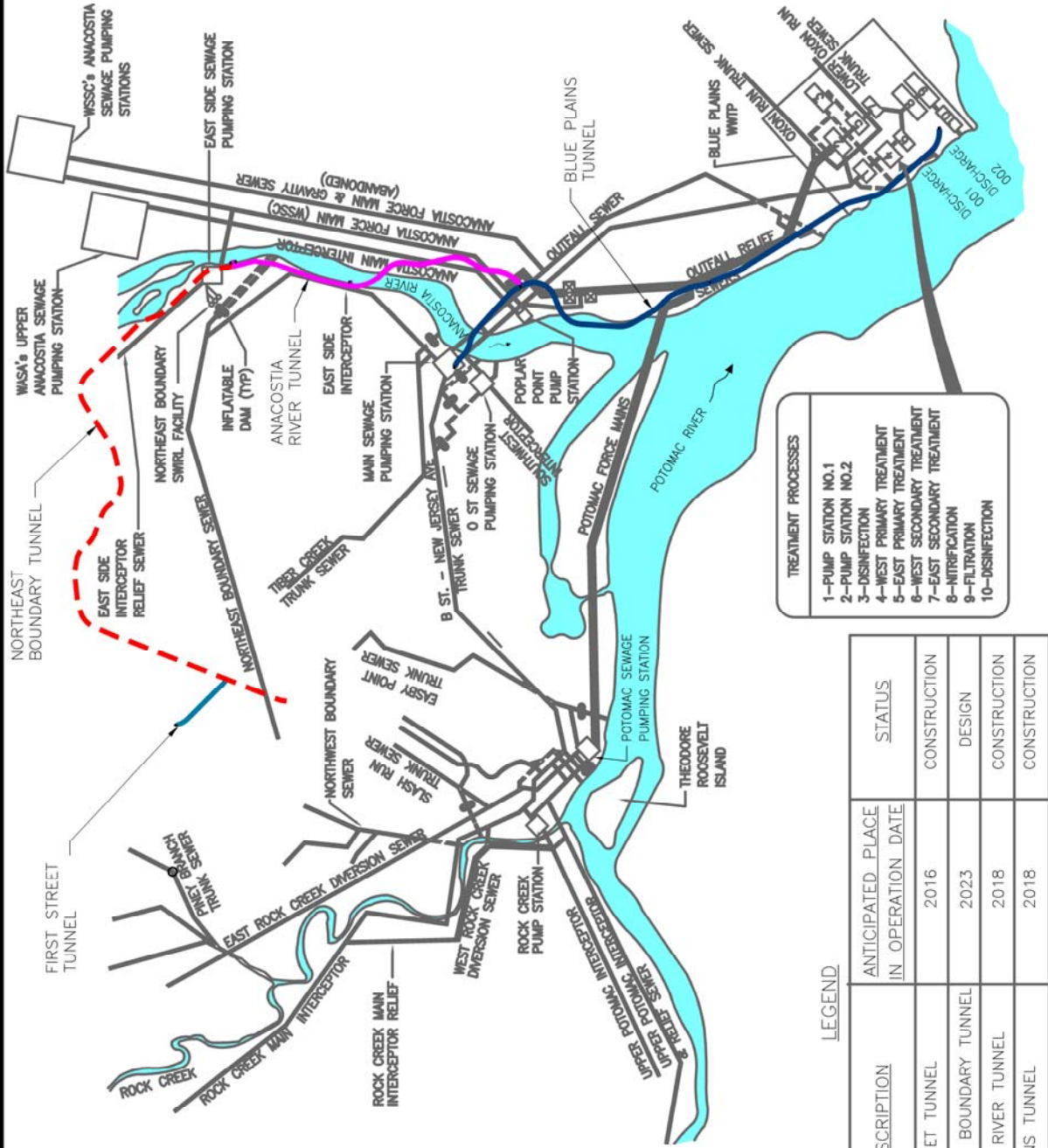
DC Water has approximately 550 paper 24" x 36" maps showing the sewer system in the District. These maps have been digitized into a GIS system. Based on this digitization, the following is an inventory of the combined sewer system:

**Table 2-1**  
**CSS Inventory**

<i>Item</i>	<i>Units</i>	<i>Estimated Quantity</i>
Combined Sewers		
< 18"	Miles	375
≥ 18" to < 24"	Miles	79
≥ 24" to < 42"	Miles	80
≥ 42" to < 72"	Miles	39
≥ 72" to < 108"	Miles	40
≥ 108"	Miles	39
Total	Miles	652
Manholes	Each	18,240
Catch basins	Each	10,871

On the counter maps, approximately 10 percent of the pipe length had no information on pipe size. For purposes of the inventory, these pipes were assumed to have diameters in the same proportion as the pipes with known diameters.

FIGURE 2-1



LEGEND

SEWER SYSTEM	DESCRIPTION	ANTICIPATED PLACE IN OPERATION DATE	STATUS
—	FIRST STREET TUNNEL	2016	CONSTRUCTION
- - -	NORTHEAST BOUNDARY TUNNEL	2023	DESIGN
—	ANACOSTIA RIVER TUNNEL	2018	CONSTRUCTION
—	BLUE PLAINS TUNNEL	2018	CONSTRUCTION

SEWER SYSTEM SCHEMATIC

SCALE: NOT TO SCALE

### 2.2.2 Outfalls and Regulator Structures

#### Outfalls

There are 63 outfalls listed in DC Water's NPDES permit. They are summarized as follows:

- 2 outfalls (NPDES 001 and 002) are the outfalls for the Wet Weather Treatment Facility and Blue Plains Advanced Wastewater Treatment Plant
- 4 outfalls (NPDES 004, 008, 061, 062) are emergency relief locations
- 57 outfalls are CSOs. Three of these outfalls have been abandoned and seven have been separated, leaving a total of 47 active CSO outfalls as follows:
  - 14 CSOs discharge to the Anacostia River
  - 10 CSOs discharge to the Potomac River
  - 23 CSOs discharge to Rock Creek or its tributaries

In accordance with the LTCP Consent Decree, DC Water has separated CSO 006 to the Anacostia River, and CSOs 031, 037, 053 057, 058 and 059 to Rock Creek. The outfall list will be updated when the permit is reissued.

#### Regulator Structures

Regulator structures control the amount of flow diverted to interceptors, which convey wastewater to BPAWWTP. During dry weather, flows are diverted to BPAWWTP for treatment. During wet weather events, the regulators divert combined sewage, the mixture of sanitary wastewater and storm water, within the system up to design capacities. When flows exceed the capacities of the system, the regulator structures divert excess flow to CSO outfalls, which discharge to the receiving waters. Release of the combined sewer overflow to the outfalls is necessary to prevent flooding in homes, businesses, and streets. The frequency and volume of discharge from each of these structures varies depending on the relative capacity of the downstream interceptor, the hydraulic geometry of the overflow structure itself, storm intensities and duration, and the size of the contributing drainage area.

DC Water maintains an updated inventory on the location, configuration and status of its outfalls and regulator structures in its "Structures Book", which is included as Appendix 2-1.

The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As a result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP. These are summarized in Appendix 2-2.

### 2.2.3 Inflatable Dams

DC Water operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-2. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The installation consists of the dam, attachment hardware, mechanical inflation equipment housed in a nearby vault, air piping and valves, an over-pressure blowoff tank and an automatic control system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically based on a signal from an upstream level sensor. During dry weather conditions the dams are normally maintained fully inflated under low pressure.

**Table 2-2**  
**Inflatable Dam Locations**

<i>Structure Number</i>	<i>Location</i>	<i>Combined Sewer</i>	<i>Number of Dams</i>
14	Main Pumping Station – West Side	B St. – New Jersey Ave. Trunk Sewer	2
15	South Capitol and E Sts., SE	B St. – New Jersey Ave. Trunk Sewer	1
15a	Half and L Sts., SE	B St. – New Jersey Ave. Trunk Sewer	1
16	Main Pumping Station – East Side	Tiber Creek Trunk Sewer	2
24	RFK Memorial Stadium – South Parking Lot	Northeast Boundary Sewer	3
34	23rd and Constitution, NW	Easby Point Trunk Sewer	1
35	Kennedy Center - East Parking Lot	East Rock Creek Diversion Sewer	1
52	22nd St., between M and N Sts., NW	Slash Run Trunk Sewer	1
Total Number of Inflatable Dams			12

Inflatable dam locations and details are shown on DC Water’s “Structures Book”, which is included as Appendix 2-1.

### 2.2.4 Northeast Boundary Swirl Facility

The NEBSF is located at the south end of the RFK Stadium parking lot, on the west bank of the Anacostia River, and adjacent to the East Side Pumping Station. This facility went into operation in January 1991. This facility provides treatment and disinfection for up to 400 mgd of combined sewer overflow, during storm events, before discharging to the Anacostia River at CSO Outfall 019. Flow in excess of 400 mgd overflows to the Anacostia River. Three inflatable dams control the routing of flows to the NEBSF and to the Anacostia River. There are two flow meters: one controls the operation of the dam and the second records flow through the facility.

Treatment processes at this facility include mechanical screening of influent combined sewage, followed by concentration of solid materials in three swirl concentrator tanks and disinfection of the treated effluent. The concentrated, solids-bearing underflow is discharged to the 48-inch East Side Interceptor Relief Sewer, where it flows by gravity to the East Side Pumping Station. The East Side Pumping Station then pumps the discharge to BPAWWTP.

### 2.2.5 CSS Pumping Stations

Virtually all the wastewater that is conveyed to BPAWWTP, including the contribution from surrounding jurisdictions and federal facilities, must be pumped. The major CSS facilities that pump wastewater to Blue Plains are as follows:

- Potomac Pumping Station: This station was designed to have a firm capacity of 460 mgd and pumps the wastewater from the Potomac/Rock Creek system to BPAWWTP via force mains that cross under the Anacostia River at the confluence with the Potomac River. It also conveys wastewater loads from surrounding jurisdictions that enter the District via the Rock Creek Main Interceptor and the Potomac Interceptor. This station is manned 24 hours per day, seven days per week.
- Main Pumping Station: This station is split into a sanitary side and a storm side. Main PS has three-90 mgd pumps and one-60 mgd pump. The sanitary side primarily handles dry weather flows. Main PS pumps wastewater from the Tiber Creek and B Street/New Jersey Ave. drainage areas, as well as flows from the Potomac/Rock Creek system that enters the B St/NJ Ave. Trunk Sewer, under the Anacostia River via siphons to BPAWWTP. This station is providing a firm sanitary pumping capacity of 240 mgd. The storm side is used during wet weather events, with a firm capacity of 400 mgd, to convey storm overflows to the Anacostia River and prevent flooding of basements and streets in the surrounding low-lying drainage areas. This pumping station is manned 24 hours per day, seven days per week.
- “O” Street Pumping Station: Like Main Pumping Station, this station is split into sanitary and storm sides and was designed to have firm capacities of 45 and 500 mgd, respectively. The sanitary side pumps wastewater from the Southwest Interceptor, which serves a low-lying area, to one of the siphons that run under the Anacostia River to BPAWWTP. The storm side pumps combined sewage from the B Street/New Jersey Avenue Relief Sewer, which serves a low-lying area of the B Street/New Jersey Avenue drainage area, to the Anacostia River. This station is manned 24 hours per day, seven days per week.
- Poplar Point Pumping Station: This unmanned station was designed to have a firm capacity of 45 mgd and pumps combined wastewater from the Anacostia Main Interceptor and



Anacostia Force Main to the Outfall Sewers that lead to BPAWWTP. The Anacostia Main Interceptor conveys the combined and sanitary flows from the portion of the District that is east of the Anacostia River.

- East Side Pumping Station: This unmanned station was designed to have a firm capacity of 45 mgd and pumps separate sanitary wastewater from the East Side Interceptor Relief Sewer. During storm events, the East Side Interceptor Relief Sewer also transports the concentrated underflow from the Northeast Boundary Swirl Facility (NEBSF). All flows are pumped through a force main beneath the Anacostia River and into the 108" Anacostia River Force Main.

Pumping Station locations and details are shown on DC Water's "Structures Book", which is included as Appendix 2-1.

### 2.2.6 SCADA System

The SCADA System used by DC Water is designed to perform three major functions:

1. Receive data from sites associated with the certain CSO abatement projects and display this data in various formats.
2. Provide the capability of controlling the inflatable dams, the Outfall Sewer Control Gates and various processes at the Northeast Boundary Swirl Facility.
3. Transfer selected data from the master control station at the Blue Plains Wastewater Treatment Plant Administration Building to a local area network computer system for archiving and later retrieval.

The primary monitoring and control station is located in the control room at the Main Sewage Pumping Station. The second master control station is located in the central operations room inside the Blue Plains Administration Building. Although this second station has the same monitoring and capabilities as the first, it functions primarily to transfer data to a permanent database on a local area computer network.

The SCADA System monitors the following remote stations:

- Inflatable Dams
- Outfall Sewer Control Gates
- Northeast Boundary Swirl Facility
- Blue Plains Pump Station No. 2 overflow monitor receiving station

## Operation and Maintenance

Control of these sites is automatic, except for the Outfall Sewer Control Gates, and local to each site. The SCADA System allows an operator to monitor and manually cause certain processes and functions to occur at the different facilities.

At the inflatable dams, the SCADA System monitors the following information:

- Alarms
- Blower motor operation
- Dam inflation/deflation
- Vault temperature
- Emergency alarm
- Upstream water Level
- Downstream water Level (at Structure Numbers 14, 16, 24 and 34)
- Solenoid valves operation
- Dam pressure

At the inflatable dam sites, the system is used to indicate and record the occurrence of CSO overflows and their approximate duration.

The SCADA System also monitors the intrusion alarms at the Northeast Boundary Swirl Facility and indicates which pumps are on at the pumping stations.

### 2.2.7 Rain Gages

DC Water operates four rain gages in the combined sewer area. The gages were placed in operation in April 2003. This data is collected and reported in the Department of Sewer Services Monthly Operations report. Gage locations are as follows:

**Table 2-3**  
**Rain Gage Locations**

<i>Rain Gage</i>	<i>Combined Sewer Drainage</i>
Main Sewage Pumping Station	Tiber Creek
Rock Creek Sewage Pumping Station	West Rock Creek Diversion Sewer
Brentwood Reservoir	Northeast Boundary
Bryant Street Water Pumping Station	Northeast Boundary

## 2.3 FACILITY INSPECTIONS AND MAINTENANCE

DC Water inspects and maintains outfall structures, regulator structures, inflatable dams, the NEB Swirl Facility and the pumping stations in accordance with its NPDES permit. There is a regular schedule for inspection and maintenance of each facility as shown on Table 2-4.

**Table 2-4**  
**CSO Control Structures Inspection and Maintenance Schedule**

<i>CSO Control Structure</i>	<i>Inspection Interval</i>	<i>Maintenance</i>	
		<i>Interval</i>	<i>Type</i>
Regulator Structures	Monthly	Monthly	Preventive Maintenance
Outfall Structures and Tide Gates	Monthly	Monthly	Preventive Maintenance
CSS Pumping Stations	Monthly	Monthly	Preventive Maintenance
NEB Swirl Facility	Monthly	Monthly	Preventive Maintenance
Inflatable Dams	Monthly	Monthly	Preventive Maintenance

DC Water reports on the occurrence of inspections and maintenance in quarterly reports to EPA Region III. Excerpts from these reports are included in the Appendices as follows:

- Regulator Structures: Appendix 2-3
- Outfall Structures and Tide Gates: Appendix 2-4
- CSS Pumping Stations: Appendix 2-5
- NEB Swirl Facility: Appendix 2-6
- Inflatable Dams: Appendix 2-7

## 2.4 INSPECTION PROGRAM FOR MAJOR COMBINED SEWERS

The NPDES permit requires DC Water to develop an inspection program for the major combined sewers on a rotating schedule of sufficient frequency to maintain capacity requirements. In accordance with the requirements of the 3-Party Consent Decree, DC Water prepared an Operation and Maintenance Manual (O & M Manual) for the CSS and submitted this to EPA Region III in June 2004. The O & M Manual included an inspection program for the major combined sewers. The inspection frequency is shown on Table 2-5. The specific sewer reaches in the District that comprise the categories listed in the table are included in the O & M Manual.

**Table 2-5**  
**Inspection Frequencies**

<i>Sewer Type</i>	<i>Inspection Frequency, years</i>
Outfall Sewers (listed)	25
Major Combined Sewers (listed)	25

From 2004 to 2005, inspection of the outfall sewers (these are the major combined sewers between Blue Plains and the pumping stations) was performed. Based on these inspections, DC Water prepared and submitted to EPA Region III recommendations regarding rehabilitation of the pipeline to achieve 1076 MGD of conveyance capacity by October 2006. On April 1, 2011, DC Water

## **Operation and Maintenance**

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completed rehabilitating portions of the outfall sewers and met the Three-Party Consent Decree requirement.

DC Water has completed three inspection contracts in 2016 and one inspection contract is currently underway. They are:

- "Sewer Cleaning and Inspection Contract 10" was awarded in September 2013 and was composed of approximately 66,000 linear feet of sanitary, combined, storm sewer mains. DC Water completed a total of 90,500 linear feet of the sewer inspection work under this Contract. A change order to inspect sewers in Rock Creek Park expanded the scope of this Contract. A second change order was executed for the inspection of storm sewers in the Hickey Run watershed. This contract was completed in June 2016.
- "Sewer Cleaning and Inspection Contract 11" was awarded in October 2014, and was composed of approximately 113,500 linear feet of sanitary, and combined sewer mains. DC Water completed a total of 113,500 linear feet of sewer inspection work under this Contract. This Contract was completed in January 2016.
- "Sewer Cleaning and Inspection Contract 12" was awarded in November 2014, and was composed of approximately 110,800 linear feet of sanitary, and combined sewer mains. A total of 110,800 linear feet were inspected in this Contract. This Contract was closed in February 2016.
- "Sewer Cleaning and Inspection Contract 14" was awarded in October 2015, and is composed of approximately 227,000 linear feet of sanitary, combined, storm sewer mains and lateral services. The Contractor has completed 95% of the work assigned in the contract and is scheduled to be completed in April 2017.

### **2.5 OPERATION AND MAINTENANCE OF PUMPING STATIONS**

The permit requires that Main, "O" Street, Potomac, Poplar Point and Eastside Pumping Stations be operated and maintained to provide firm pumping capacities of 240 mgd (sanitary), 45 mgd (sanitary), 460 mgd, 45 mgd and 45 mgd, respectively, after they are rehabilitated. In accordance with the Three-Party Consent Decree, all rehabilitations have been completed.

## **APPENDIX 2-1**

### **Structures Book**

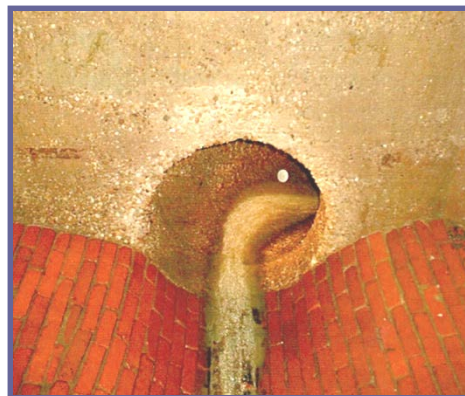




**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**  
Serving the Public • Protecting the Environment

# Combined Sewer System Structures Book

**December 2016**



Program Consultants Organization:



**GREELEY AND HANSEN**

**JA · UNDERGROUND**

Engineers/Consultants





DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY  
Washington, D.C.

*Combined Sewer System Structures Book*

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<b>Regulators, Inflatable Dams and Other Structures</b>				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
1	West Side Emergency Overflow, BPWWTP	Bulkheaded	CD-23-24 SW	001
1a	East Side Emergency Overflow, BPWWTP	Bulkheaded	CD-23-24 SW	001
1b	Bolling AFB, 650 ft. north of the south line of the Base, SW	Junction	CD-21-22 SW	-
1c	First St. south of Joliet Street, SW	Junction	AB-23-24 SE	-
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Regulator	CD-19-20 SW	003
2a	Potomac Force Main Crossover	Junction	AB-13-14 SW	-
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Regulator	AB-10-20 SW	003
5	Poplar Point Pumping Station	Emergency San. Relief	AB-9-10 SE	004
5a	North of Anacostia Drive and South Capitol St Bridge, SE	Junction	AB-7-8 SE	-
5b	North of S. Capitol St and Firth Sterling Ave SE	Junction	AB-7-8 SE	-
5c	North of S. Capitol St and Firth Sterling Ave SE	Junction	AB-9-10 SE	-
6	Chicago Street and Railroad Ave, SE	Regulator	CD-9-10 SE	005
7	W Street. and Railroad Ave, SE	Regulator	CD-9-10 SE	005
8	Good Hope Rd, west of Nichols Ave, SE	Regulator	CD-7-8 SE	006
9	13 <sup>th</sup> Street and S Street, SE	Regulator	EF-7-8 SE	007
9a	13 <sup>th</sup> Street and Ridge Place, SE	Regulator	EF-7-8 SE	007
9b	11 <sup>th</sup> Street Bridge and DC 295 SB	Regulator	EF-7-8 SE	007
10	Anacostia Ave, west of Blaine Street, NE	Emergency San. Relief	IK-1-2 NE	008
10a	Hayes and Anacostia Ave, NE	Emergency San. Relief	LM-5-6 NE	061
11	"O" Street Pumping Station	Regulator	A-6 SE	011(a)
12	Storm Pump Discharge at Main Pumping Station	Regulator	A-6 SE	011
12a	N Street between 2nd and Canal Streets SE	Bulkheaded	B-6 SE	-
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	Regulator	A-6 SE	009
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	Regulator – Inflatable Dam	A-6 SE	011(a)
15	South Capitol and E Streets	Regulator – Inflatable Dam	A-3 SW	010
15a	Half and L Streets, SE	Regulator – Inflatable Dam	A-5 SE	010
15b	South Capitol and I Streets	Regulator	A-4 SE	010
15c	South Capitol and I Streets	Regulator	A-5 SW	010
15d	2nd and D Streets, SW	Siphon	A-2 SW	-
15e-1	South of 16th St Loop, NW	Flood Control	F-1 SW	-

<b>Regulators, Inflatable Dams and Other Structures</b>				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
15e-2	Independence Ave East of 17 <sup>th</sup> St	Flood Control	F-2 SW	
15f	10th and Constitution Ave, NW	Flood Control	D-1 NW	-
16	North of Main Sewage Pumping Station	Regulator – Inflatable Dam	B-5 SE	012
17	4 <sup>th</sup> and N Streets, SE, Both Extended	Regulator	B-6 SE	013
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	Regulator	C-4 SE	013
18	6 <sup>th</sup> and M Streets, SE	Regulator	B-5 SE	014
18a	Tingey Street SE and 5 1 / 2 Street SE	Regulator	B-5 SE	014
19, 19b	9 <sup>th</sup> and M Streets, SE	Regulator	C-5 SE	015
19a, 19c	9 <sup>th</sup> and M Streets, SE	Regulator	C-5 SE	015
20	12 <sup>th</sup> and M Streets, SE	Regulator	D-5 SE	016
20a	12 <sup>th</sup> and M Streets, SE	Regulator	D-5 SE	016
20b	12 <sup>th</sup> and M Streets, SE	Regulator	D-5 SE	016
21, 21a	14 <sup>th</sup> and M Streets, SE	Regulator	E-5 SE	017
22a	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018
22b	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018
22c	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018
22d	Kentucky Ave and Potomac Street, SE	Regulator	F-3 SE	018
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	Regulator	E-2 SE	018
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	Regulator	G-1 SE	019
24	Northeast Boundary Sewer at Northeast Boundary Swirl Facility	Regulator – Inflatable Dam	GH-1-2 SE	019
24a	East Capitol St, west of RFK stadium	Regulator	GH-1-2 SE	019
24b	East Capitol St, west of RFK stadium	Junction	GH-1-2 SE	-
24c	East Capitol St, west of RFK stadium	Junction	GH-1-2 SE	-
24d	East Capitol St, west of RFK stadium	Siphon	GH-1-2 SE	-
28	21 <sup>st</sup> and Constitution Ave, NW	Regulator	H-1 NW	020
28a	14th and Constitution Ave, NW	Bulkheaded	E-1 NW	-
28b	14th and Constitution Ave, NW	Bulkheaded	E-1 NW	-
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	Regulator	H-1 NW	020
30	17 <sup>th</sup> and D Streets, NW	Regulator	G-2N NW	020
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	Regulator	E-2 NW	020
32	10th and New York Ave, NW	Abandoned	D-4 NW	-

<b>Regulators, Inflatable Dams and Other Structures</b>				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
33	10 <sup>th</sup> and F Streets, NW	Regulator	D-3 NW	020
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	Regulator – Inflatable Dam	I-1 NW	020
34a	23 <sup>rd</sup> Street near C Street, NW	Regulator	I-1, NW	020
35	Northeast of Roosevelt Bridge, NW	Regulator – Inflatable Dam	I-1 NW	021
35a	26th and D Streets, NW (Kennedy Center Garage)	Junction	K-2 NW	-
35b	27th and G Streets, NW	Junction	K-3 NW	-
36	27 <sup>th</sup> and I Streets, NW	Regulator	K-4 NW	022
36a	New Hampshire Ave and Eye Street, NW	Regulator	I-4 NW	022
36b	19 <sup>th</sup> and L Streets, NW	Regulator	G-5 NW	022, 034
36c	18 <sup>th</sup> and L Streets, NW	Junction	G-5 NW	-
36d	17 <sup>th</sup> and L Streets, NW	Regulator	F-5 NW	022, 034
36e	17 <sup>th</sup> and L Streets, NW	Junction	F-5 NW	-
36f	18 <sup>th</sup> and M Streets, NW	Junction	G-5 NW	-
36g	18 <sup>th</sup> and M Streets, NW	Regulator	G-5 NW	022, 034
36h	18 <sup>th</sup> and M Streets, NW	Regulator	G-5 NW	022, 034
37	27 <sup>th</sup> and Eye Streets, NW	Regulator	K-4 NW	022
37a	North of 27 <sup>th</sup> and Eye Streets, NW	Junction	K-4 NW	-
38	29 <sup>th</sup> and K Streets, NW	Regulator	K-4 NW	024
38a	30 <sup>th</sup> Street, south of K Street, NW	Regulator	K-4 NW	024
38b	East of 30th St and Virginia Ave, NW	Siphon	K-4 NW	-
39	30 <sup>th</sup> and K Streets, NW	Bulkheaded	K-4 NW	-
39a	30 <sup>th</sup> and K Streets, NW	Regulator	K-4 NW	024
39b	30 <sup>th</sup> and K Streets, NW	Regulator	K-4 NW	024
40	Jefferson and K Streets, NW	Bulkheaded	L-4 NW	-
40a	Jefferson and K Streets, NW	Storm	L-4 NW	-
40b	Jefferson and K Streets, NW	Storm	L-4 NW	-
41	31 <sup>st</sup> and K Streets, NW	Storm	L-4 NW	-
41a	31 <sup>st</sup> and K Streets, NW	Storm	L-4 NW	-
41b	31 <sup>st</sup> and K Streets, NW	Regulator	L-4 NW	025
41c	31 <sup>st</sup> and K Streets, NW	Regulator	L-4 NW	025
42	Wisconsin Ave and K Street, NW	Regulator	L-4 NW	026

<b>Regulators, Inflatable Dams and Other Structures</b>				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
42a	Wisconsin Ave and K Street, NW	Storm	L-4 NW	-
43	Potomac and Water Streets, NW	Regulator	M-5 NW	027
43a	Potomac and Water Streets, NW	Regulator	M-5 NW	027
44	Water Street, west of Potomac St, NW	Regulator	M-5 NW	027
45	36 <sup>th</sup> and M Streets, NW	Regulator	N-5 NW	028
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	Regulator	O-5 NW	029
47	38 <sup>th</sup> Street and Reservoir Road, NW	Regulator	N-8 NW	029
47a	37 <sup>th</sup> and T Streets, NW	Regulator	N-9 NW	029
47b	37 <sup>th</sup> and T Streets, NW	Regulator	N-9 NW	029
47c	38 <sup>th</sup> and W Streets, NW	Regulator	O-10 NW	029
48	Canal Rd and Foxhall Rd, NW	Abandoned	O-6 NW	030
49	Pennsylvania Ave, east side of Rock Creek, NW	Regulator	K-5 NW	031
50	26 and M Streets, NW	Regulator	L-5 NW	032
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	Regulator	I-6 NW	033
52	22 <sup>nd</sup> Street between M and N Streets, NW	Regulator – Inflatable Dam	H-6 NW	034
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	Regulator	H-6 NW	034
53	22 <sup>nd</sup> and M Streets, NW	Regulator	H-5 NW	022, 034
53a	22 <sup>nd</sup> and M Streets, NW	Regulator	H-5 NW	022, 034
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	Regulator	H-5 NW	022, 034
53c	L and 22 <sup>nd</sup> Streets, NW	Regulator	H-5 NW	022
54	23 <sup>rd</sup> and O Streets, NW	Regulator	H-6 NW	034
55	22 <sup>nd</sup> Street, south of Q Street, NW	Regulator	H-7 NW	035
55a	22 <sup>nd</sup> Street, south of Q Street, NW	Regulator	H-7 NW	035
56	23 <sup>rd</sup> and Massachusetts Ave, NW	Regulator	I-8 NW	036
57	23 <sup>rd</sup> Street, south of Q Street, NW	Regulator	I-7 NW	036
58	Northwest of Belmont Rd and Rock Creek and Potomac Parkway, NW	Regulator	K-10 NW	037
59	North of Belmont Rd, east of Kalorama Cir, NW	Regulator	I-10 NW	038
60	Connecticut Ave, east of Rock Creek, NW	Regulator	IK-11-12 NW	039
61	Biltmore St, Extended, east of Rock Creek, NW	Regulator	H-11 NW	040
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	Regulator	H-13 NW	041
63	Harvard Street and Rock Creek Parkway, NW	Regulator	G-13 NW	042

<b>Regulators, Inflatable Dams and Other Structures</b>				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
64	Adams Mill Road, south of Irving Street, NW	Regulator	G-13 NW	043
65	Kenyon Street and Adams Mill Road, NW	Regulator	G-14 NW	044
65a	Kenyon Street and Adams Mill Road, NW	Regulator	H-14 NW	044
66	Adams Mill Road and Lamont Street, NW	Regulator	H-14 NW	045
67	Park Rd, south of Piney Branch Pkwy, NW	Regulator	H-16 NW	046
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	Regulator	G-16 NW	047
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	Regulator	G-16 NW	048
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	Regulator	EF-17-18 NW	049
70a	5th and Hamilton St NW	Junction	CD-21-22 NW	-
70b	5th and Hamilton St NW	Junction	CD-21-22 NW	-
70c	5th and Ingraham St NW	Junction	CD-21-22 NW	-
70d	5th and Ingraham St NW	Junction	CD-21-22 NW	-
70e	5th and Ingraham St NW	Junction	CD-21-22 NW	-
70f	5th and Missouri Ave NW	Junction	CD-23-24 NW	-
70g	5th and Missouri Ave NW	Junction	CD-23-24 NW	-
70h	5th and Missouri Ave NW	Junction	CD-23-24 NW	-
70i	5 <sup>th</sup> and Quackenbos Streets, NW	Regulator	CD-25-26 NW	049
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	Regulator	K-5 NW	050
72	Olive Street Extended and Rock Creek Pkwy, NW	Regulator	K-6 NW	051
72a	Olive Street Extended and Rock Creek Pkwy, NW	Regulator	K-6 NW	051
73	O Street Extended and Rock Creek Parkway, NW	Regulator	I-6 NW	052
74	Q Street, west of Rock Creek, NW	Regulator	I-7 NW	053
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	Regulator	K-9 NW	054
75a	Montrose Park Sewer	Junction	K-9 NW	-
76	Massachusetts Ave and Whitehaven St, N.W.	Abandoned	K-10 NW	055
77	Normanstone Dr Extended, west of Rock Creek, NW	Regulator	K-10 NW	056
77a	Normanstone Dr and Normanstone Lane, NW	Regulator	IK-11-12 NW	056
78	28th Street Extended, west of Rock Creek, NW	Regulator	I-10 NW	057
79	Connecticut Ave and Rock Creek Parkway, NW	Regulator	IK-11-12 NW	058
80	16 <sup>th</sup> and Rittenhouse Streets, NW	Abandoned	EF-25-26 NW	059
81	Zoo Park Northeast of Cathedral Ave, NW	Junction	IK-13-14 NW	-

<b>Regulators, Inflatable Dams and Other Structures</b>				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
82	25 <sup>th</sup> and P Streets, NW, both extended	Junction	I-7 NW	-
83	South of Porter St Bridge and Rock Creek, NW	Junction	IK-15-16 NW	-
83a	West Beach Drive and Broad Branch Road, NW	Junction	IK-19-20 NW	-
83b	West Beach Drive and Broad Branch Road, NW	Junction	IK-19-20 NW	-
84	26 <sup>th</sup> and P Streets, NW	Regulator	K-7 NW	060
84a	26 <sup>th</sup> and P Streets, NW	Regulator	I-7 NW	060
85	South of Beach Drive and Old Military Rd, NW	Junction	GH-23-24 NW	-
85a	South of Beach Drive and Old Military Rd, NW	Junction	GH-23-24 NW	-
86	First Street NW	Regulator	A-11-NW	-
87	First Street NW	Regulator	A-11-NW	-
88	Flagler Pl NW and Adams St NW	Regulator	A-11-NW	-
89	V Street NW	Regulator	A-10-NW	-
90	V Street NW	Regulator	A-10-NW	-
91	V and First Street NW	Regulator	A-10-NW	-
Bolling-1	Bolling AFB Site Plan	-	-	-



Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
001	Blue Plains Wastewater Treatment Plant, Excess Flow Treatment Outfall	Wastewater Treatment Plant Outfall	Potomac River East Side	CD 25-26 SW	No	Submerged	Submerged
002	Blue Plains Wastewater Treatment Plant, Complete Treatment Outfall	Wastewater Treatment Plant Outfall	Potomac River East Side	CD 25-26 SW	No	Submerged	Submerged
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	CSO	Potomac River East Side	CD 21-22 SW	Yes	Partial	Partial
004	Downstream side of Fredrick Douglas Bridge	Emergency relief for Poplar Point P.S.	Anacostia River East Side	AB-7-8 SE	Yes	Partial	Partial
005	Across from Navy Yard, aligned with Parsons Ave., SE	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
006	Good Hope Road and Welsh Memorial Bridge	Storm	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
008	Anacostia Avenue, west of Blaine St. NE	Relief for Anacostia Main Interceptor	Anacostia River East Side	IK 1-2 NE	Yes	Partial	Partial
009	O St. Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	Yes	Partial	Partial
010	O St. Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	No	Partial	Partial
011	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	No	Partial	Partial
011(a)	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	Yes	Partial	Partial
012	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	B-6 SE	Yes	Partial	Partial
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	CSO	Anacostia River West Side	B-6 SE	Yes	Submerged	Submerged
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	CSO	Anacostia River West Side	B-6 SE	Yes	Partial	Partial
015	Navy Yard, aligned with 9th Street, SE	CSO	Anacostia River West Side	CD-7-8 SE	No	Partial	Partial
016	12th and O Streets, SE	CSO	Anacostia River West Side	D-6 SE	Yes	Partial	Partial
017	M and Water Street, SE	CSO	Anacostia River West Side	E-5 SE	Yes	Partial	Partial

Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	CSO	Anacostia River West Side	F-5 SE	Yes	Partial	Partial
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	CSO	Anacostia River West Side	H-3 SE	No	Partial	Partial
019a	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	CSO	Anacostia River West Side	H-3 SE	No	Partial	Partial
020	Rock Creek Parkway and Independence, NW	CSO	Potomac River East Side	I-1 SW	Yes	Partial	Partial
021	Rock Creek Parkway and C St., NW	CSO	Potomac River East Side	K-1 NW	No	Submerged	Submerged
022	Rock Creek Parkway and G St., NW	CSO	Potomac River East Side	K-3 NW	Yes	Partial	Partial
023	South of 30 <sup>th</sup> and K Streets, NW	Abandoned CSO	Potomac River East Side	Abandoned	Abandoned	Abandoned	Abandoned
024	South of 30 <sup>th</sup> and K Streets, NW	CSO	Potomac River East Side	K-4 NW	Yes	Partial	Submerged
025	South of 31st and K Streets, NW	CSO	Potomac River East Side	L-4 NW	Yes	Partial	Submerged
026	Wisconsin Avenue and Water Street, NW	CSO	Potomac River East Side	L-4 NW	Yes	Partial	Submerged
027	33 <sup>rd</sup> and Water Sts., NW	CSO	Potomac River East Side	M-4 NW	No	Partial	Partial
028	Key bridge and Whitehurst Freeway, NW	CSO	Potomac River East Side	N-5 NW	No	Submerged	Submerged
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	CSO	Potomac River East Side	O-5 NW	Yes	Partial	Submerged
030	Fox Hall and Canal Road	Abandoned CSO	-	Abandoned	Abandoned	Abandoned	Abandoned
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	Storm	Rock Creek East Side	K-5 NW	No	Not submerged	Not submerged
032	26th and M Street, NW.	CSO	Rock Creek East Side	K-5 NW	No	Submerged	Submerged
033	Across street from St. Francis Jr. High and aligned with N St., NW.	CSO	Rock Creek East Side	I-6 NW	Yes	Not submerged	Not submerged
034	Just west of St. Francis Jr. High and north of N St., NW	CSO	Rock Creek East Side	I-6 NW	Yes	Partial	Partial
035	P St. Bridge and Rock Creek Parkway	CSO	Rock Creek East Side	I-7 NW	Yes	Partial	Partial
036	22nd Street, South of Q Street NW.	CSO	Rock Creek East Side	I-7 NW	Yes	Partial	Partial
037	Waterside Dr. and Rock Creek Parkway	Storm	Rock Creek East Side	K-10 NW	Yes	Not submerged	Not submerged

Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	CSO	Rock Creek East Side	I-10 NW	Yes	Partial	Partial
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	CSO	Rock Creek East Side	IK-11-12 NW	Yes	Partial	Partial
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	CSO	Rock Creek East Side	H-11 NW	Yes	Partial	Partial
041	Beach Dr. and Ontario Pl., NW	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
042	Harvard St. and Beach Dr NW.	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
043	Upstream of Harvard St. and Beach Dr NW.	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
044	Kenyon Street and Beach Dr., NW.	CSO	Rock Creek East Side	H-14 NW	Yes	Partial	Partial
045	North of Beach Dr. and Walbridge Pl, NW.	CSO	Rock Creek East Side	H-14 NW	Yes	Partial	Partial
046	Piney Branch Parkway and Park Road, NW.	CSO	Rock Creek East Side	H-16 NW	No	Not submerged	Not submerged
047	Piney Branch Parkway and Ingleside Terrace	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	CSO	Rock Creek East Side	EF-17-18 NW	Yes	Not submerged	Not submerged
050	Rock Creek Parkway and L St., NW	CSO	Rock Creek East Side	K-5 NW	Yes	Not submerged	Not submerged
051	Across Rock Creek Parkway, aligned with Olive St., NW.	CSO	Rock Creek East Side	K-6 NW	Yes	Not submerged	Not submerged
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	CSO	Rock Creek West Side	I-6 NW	Yes	Not submerged	Not submerged
053	Q St. Bridge and Rock Creek Parkway, NW.	Storm	Rock Creek West Side	I-7 NW	Yes	Partial	Partial
054	Massachusetts Avenue and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	K-9 NW	Yes	Partial	Partial
055	Massachusetts Avenue and Rock Creek Parkway, NW.	Abandoned CSO	Rock Creek West Side	Abandoned	Abandoned	Abandoned	Abandoned

Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
056	Normanstone Dr. and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	K-10 NW	Yes	Not submerged	Not submerged
057	28th Street and Rock Creek Parkway, NW	CSO	Rock Creek West Side	I-10 NW	Yes	Not submerged	Not submerged
058	Connecticut Avenue and Rock Creek Parkway, NW.	Storm	Rock Creek West Side	IK-11-12 NW	No	Partial	Partial
059	16th and Rittenhouse Streets, NW.	Abandoned CSO	Rock Creek West Side	Abandoned	Abandoned	Abandoned	Abandoned
060	North of P Street Bridge and Rock Creek Pkwy, NW	CSO	Rock Creek West Side	I-7 NW	Yes	Partial	Partial
061	Hayes and Anacostia Ave, NE	Emergency Bypass for Upper Anacostia Sewage P.S.	Tributary to Anacostia East Side	LM-5-6 NE	Yes	Submerged	Submerged
062	Earl Place Pumping Station, SE	Emergency Bypass for Earl Place Sewage P.S.	Tributary to Anacostia West Side	IK-13-14 NE	No	Not submerged	Not submerged

Sewage Pumping Stations		
ID No.	Name	Sewer Counter Map No.
PS-1	Raw Wastewater Pumping Station No. 1 (Blue Plains Wastewater Treatment Plant)	CD-23-24, SW
PS-2	Raw Wastewater Pumping Station No. 2 (Blue Plains Wastewater Treatment Plant)	CD-23-24, SW
PS-3	Main Sewage Pumping Station	B-6, SE
PS-3a	Main Sewage Pumping Station Detail	B-6, SE
PS-4	O Street Sewage Pumping Station	A-6, SE
PS-5	Potomac Sewage Pumping Station	K-1, NW
PS-6	Rock Creek Sewage Pumping Station	K-4, NW
PS-7	Poplar Point Sewage Pumping Station	AB-9-10, SE
PS-8	Eastside Sewage Pumping Station	H-2, SE
PS-9	Upper Anacostia Sewage Pumping Station	LM-5-6, NE
PS-10	Earl Place Sewage Pumping Station	IK-13-14, NE
PS-11	Third & Constitution Sewage Pumping Station	B-1, NW
PS-12	WSSC Anacostia Pumping Stations 1 &2	
PS-13	First Street Pumping Station	A-9-NW

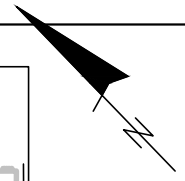
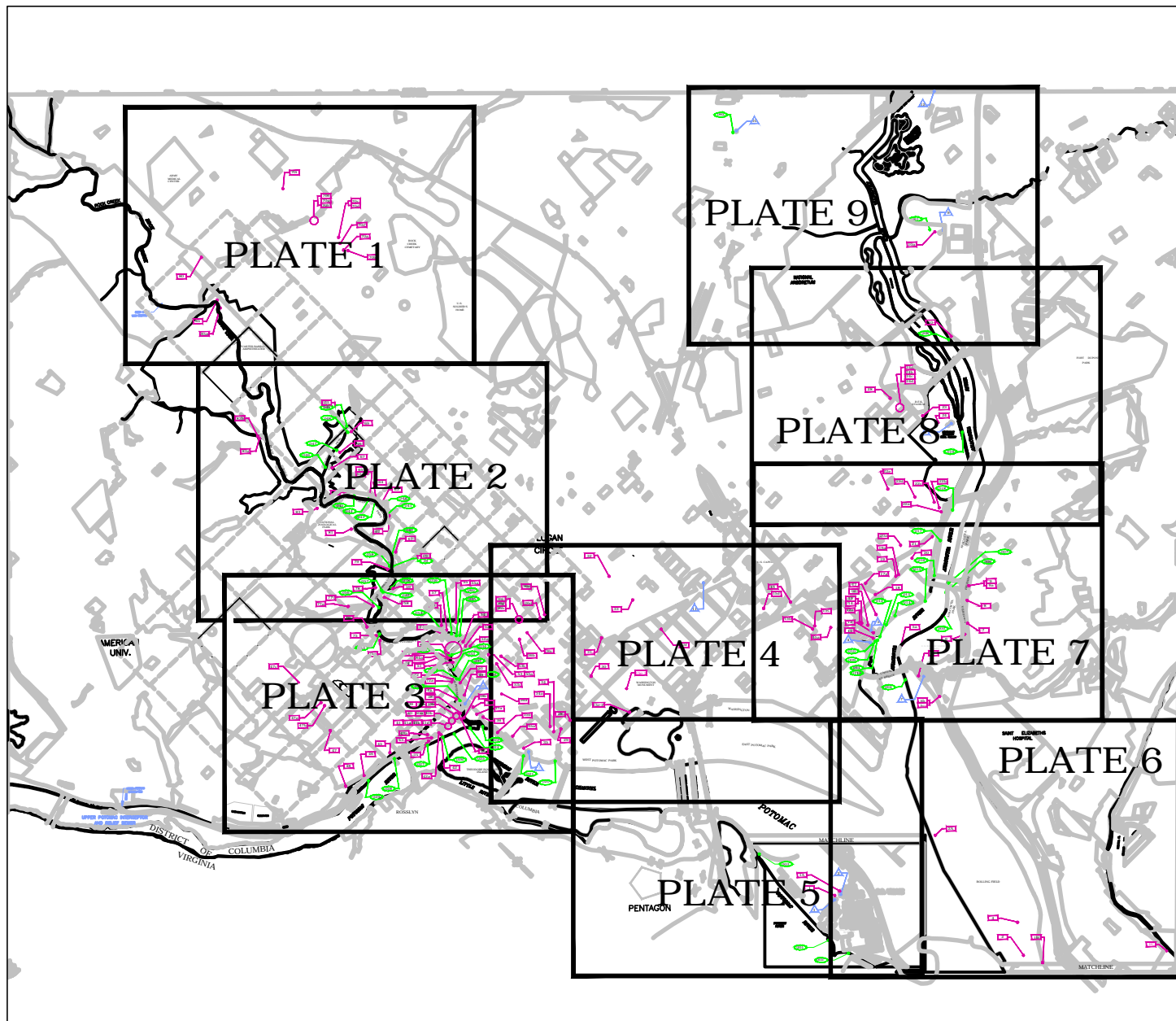





# **Section 1**

## **Site Plans (Plates)**





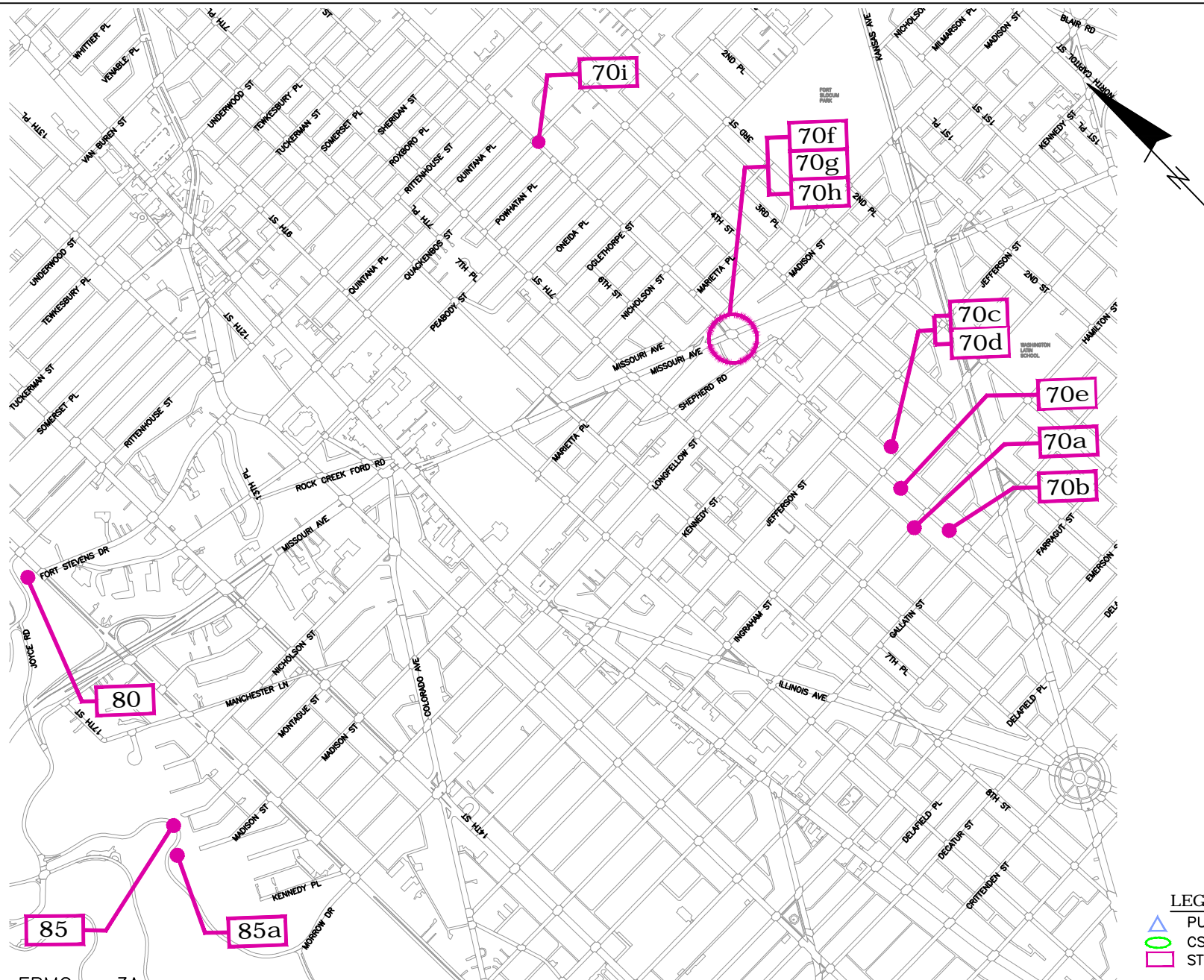


- LEGEND**
-  PUMP STATION
  -  CSO OUTFALL
  -  STRUCTURE

REVISED BY: EPMC- 3A  
 REVISED DATE: DECEMBER 2004  
 OUTFALL TYPE:

**OVERALL**

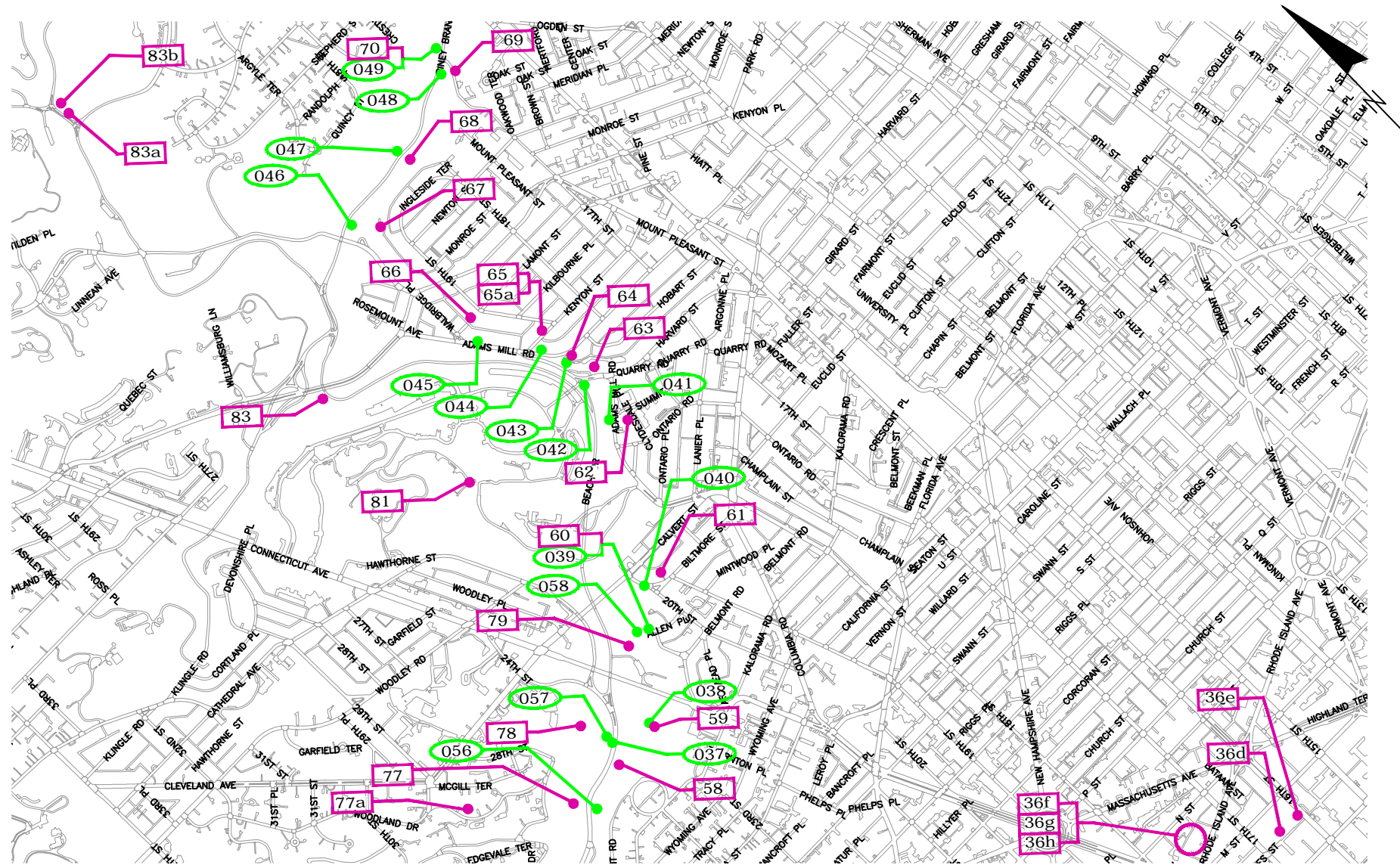




REVISED BY: EPMC — 3A  
 REVISED DATE: DECEMBER 2004  
 OUTFALL TYPE:

PLATE 1



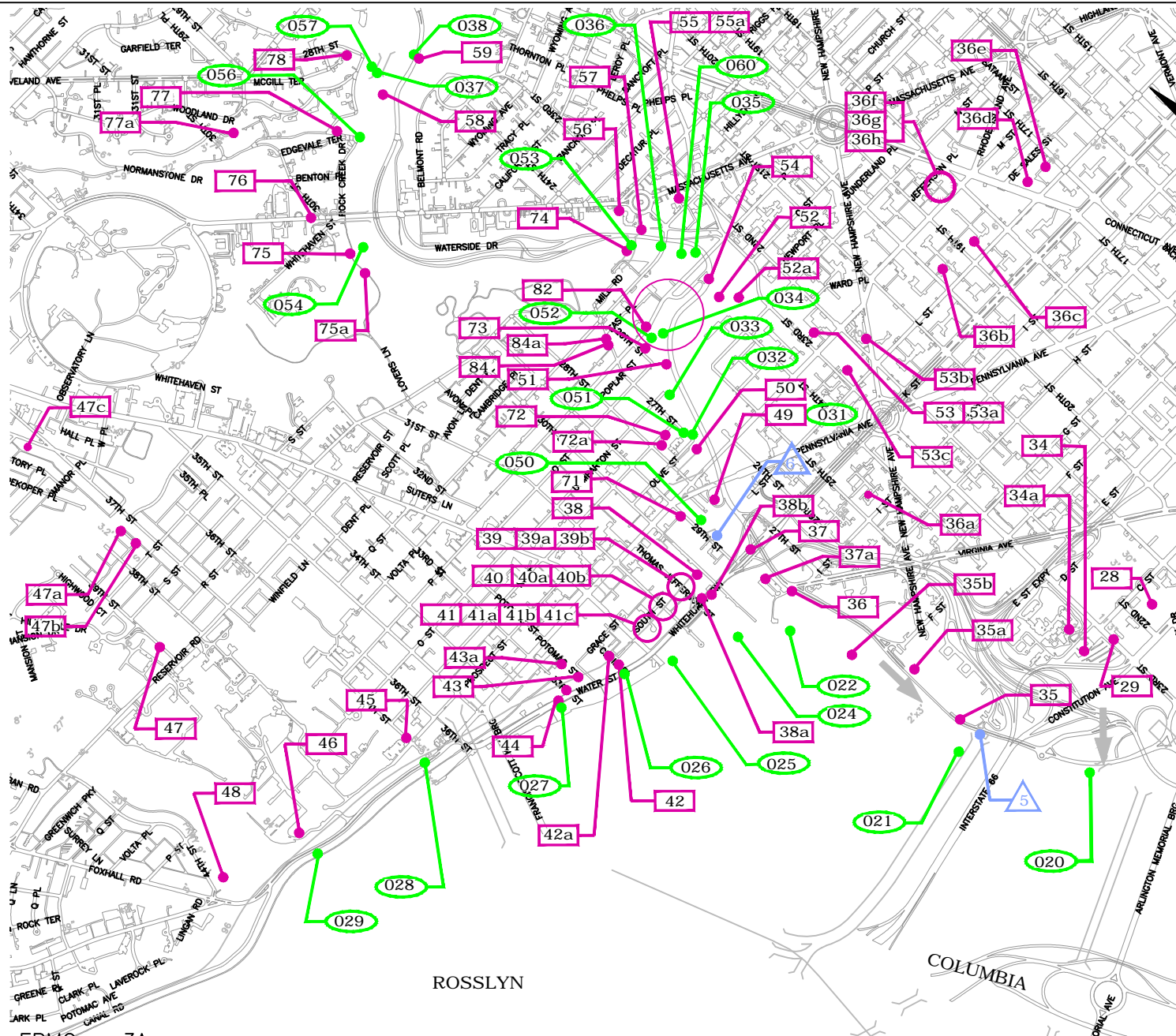


# LEGEND

- ▲ PUMP STATION
- CSO OUTFALL
- STRUCTURE

REVISED BY: EPMC — 3A  
 REVISED DATE: OCTOBER 2004  
 OUTFALL TYPE:

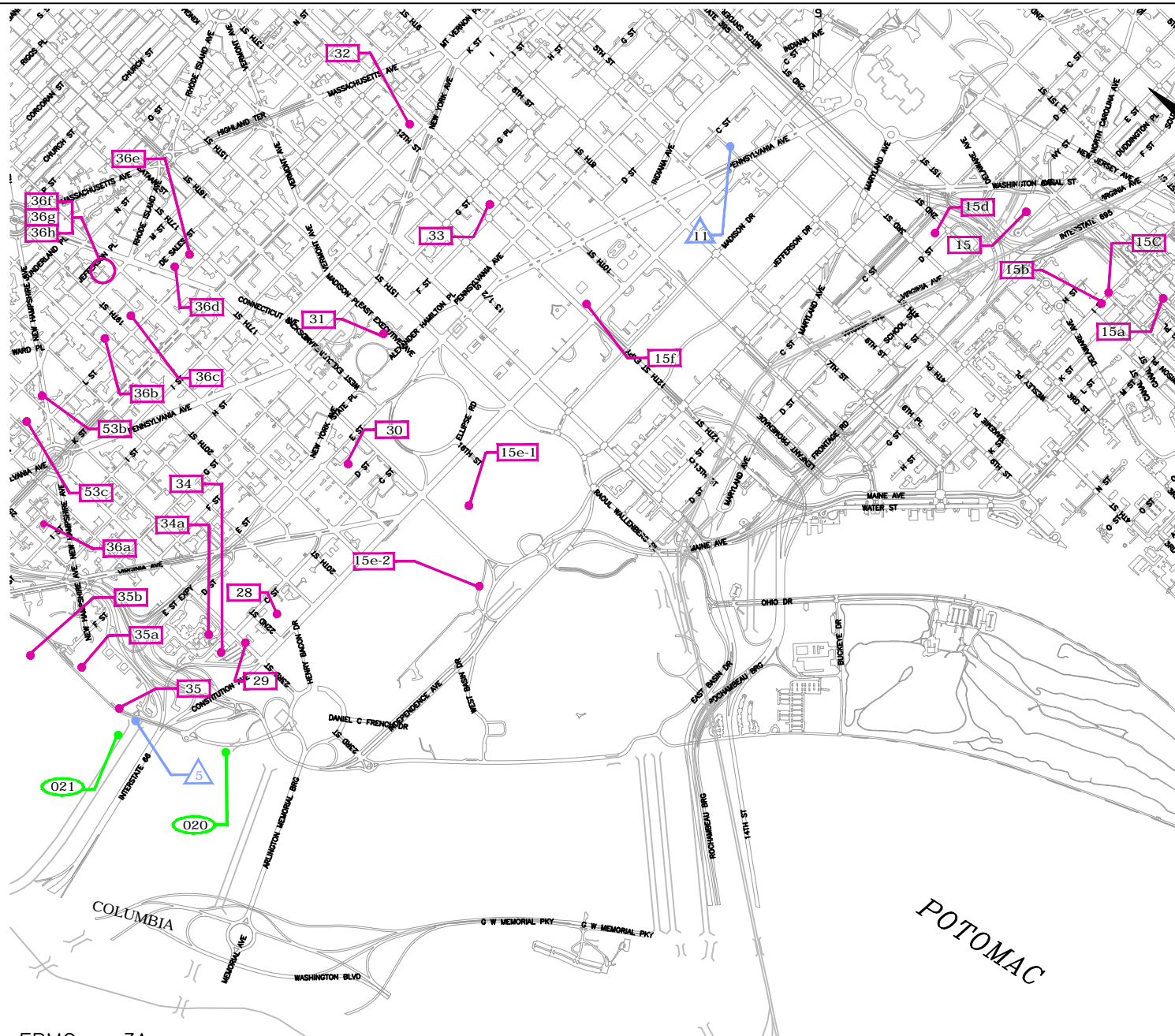
PLATE 2






REVISED BY: EPMC - 3A  
 REVISED DATE: DECEMBER 2004  
 OUTFALL TYPE:

PLATE 3

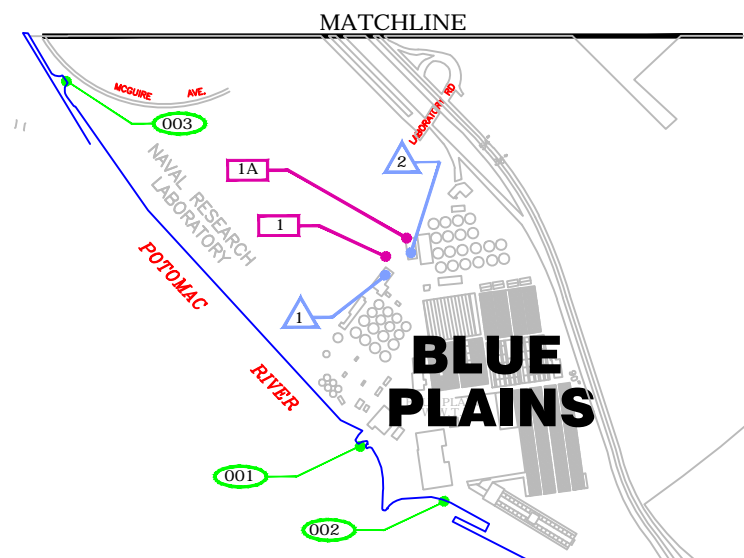
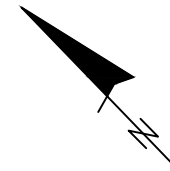







**LEGEND**  
 PUMP STATION  
 CSO OUTFALL  
 STRUCTURE

REVISED BY: EPMC — 3A  
 REVISED DATE: DECEMBER 2004  
 OUTFALL TYPE:

**PLATE 4**



**LEGEND**

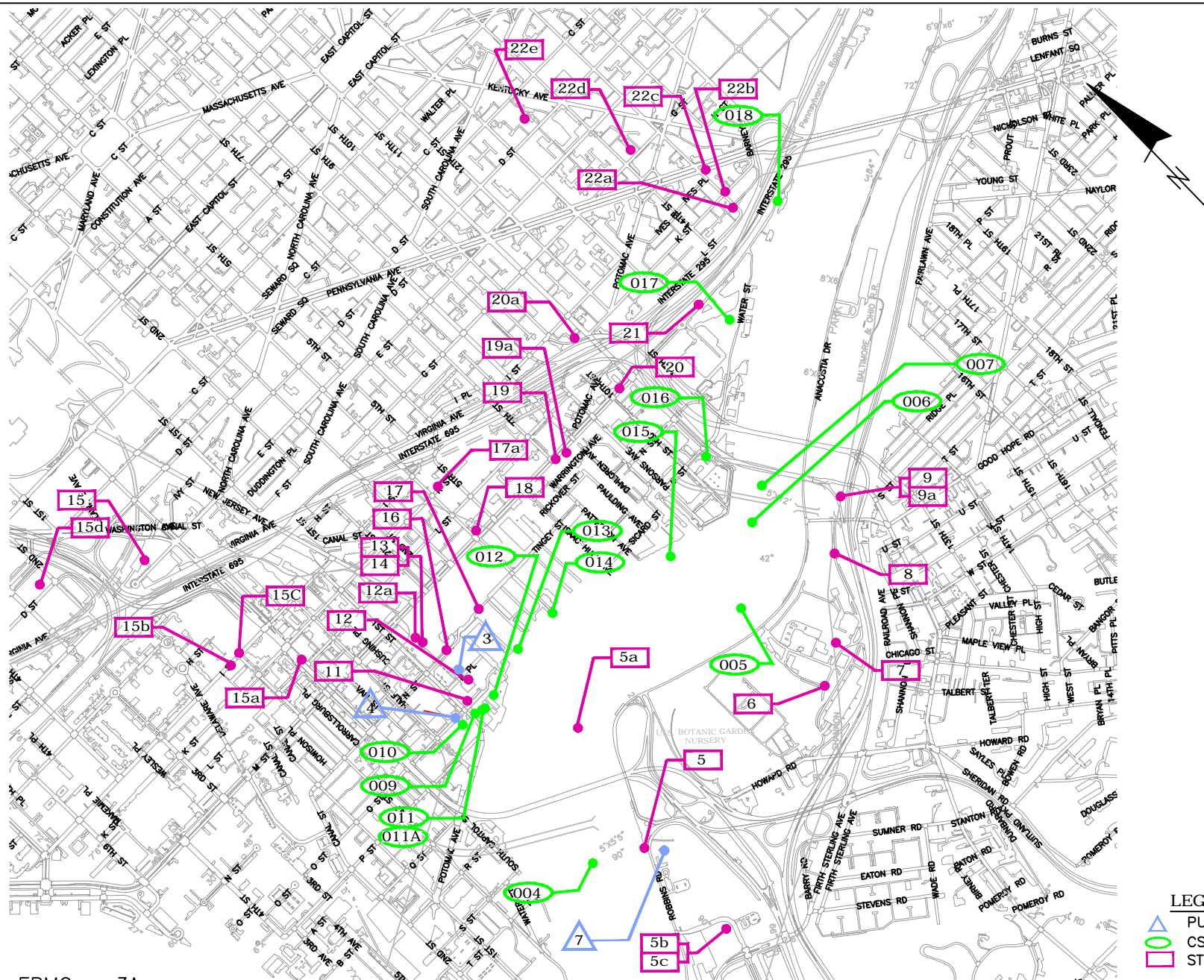
-  PUMP STATION
-  CSO OUTFALL
-  STRUCTURE

REVISED BY: EPMC - 3A  
REVISED DATE: DECEMBER 2004  
OUTFALL TYPE:

**PLATE 5**

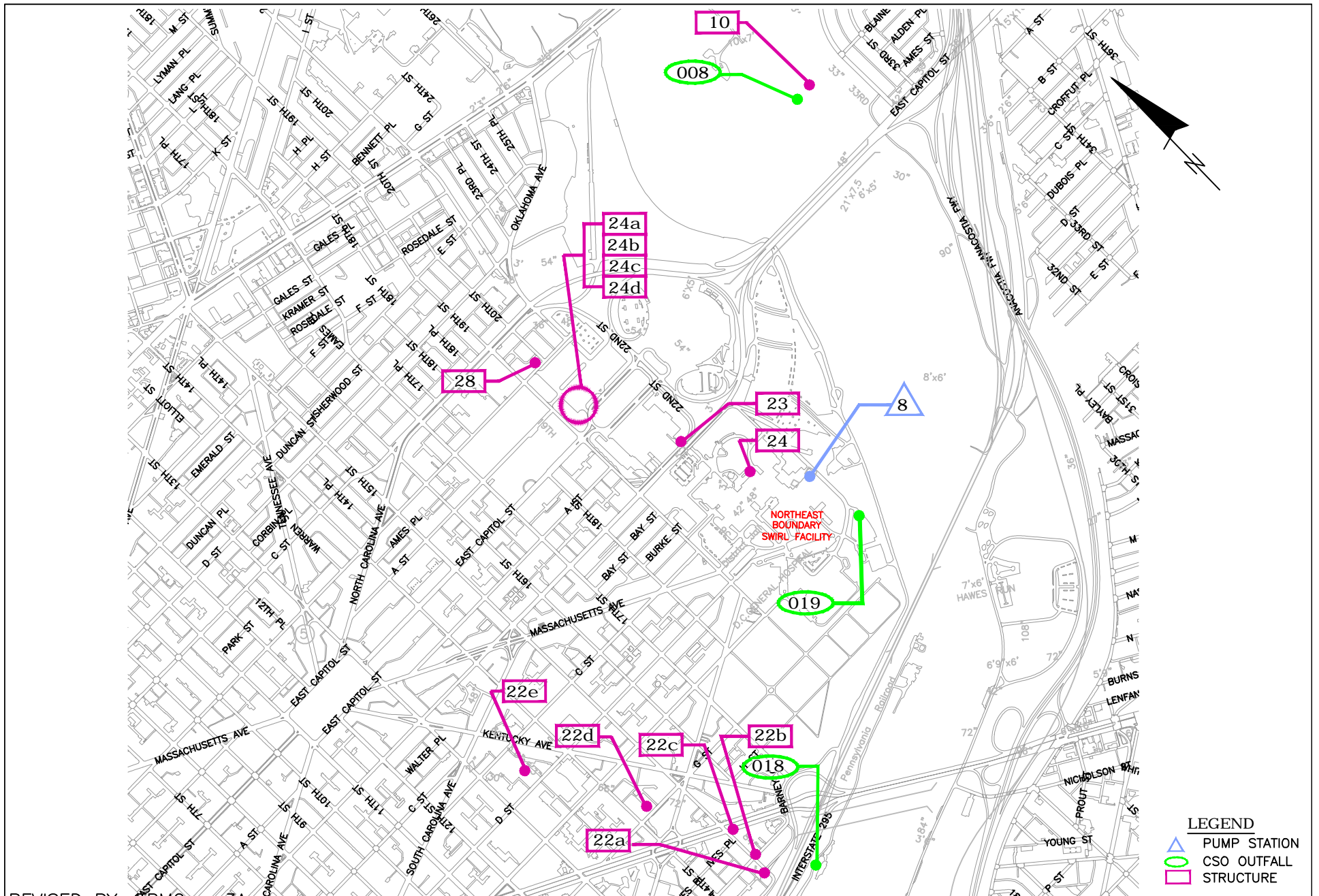






REVISED BY: EPMC — 3A  
 REVISED DATE: DECEMBER 2004  
 OUTFALL TYPE:

PLATE 7



REVISED BY: EPMC - 3A  
 REVISED DATE: DECEMBER 2004  
 OUTFALL TYPE:

PLATE 8







## **Section 2**

### **Regulators, Inflatable Dams and Other Structures**



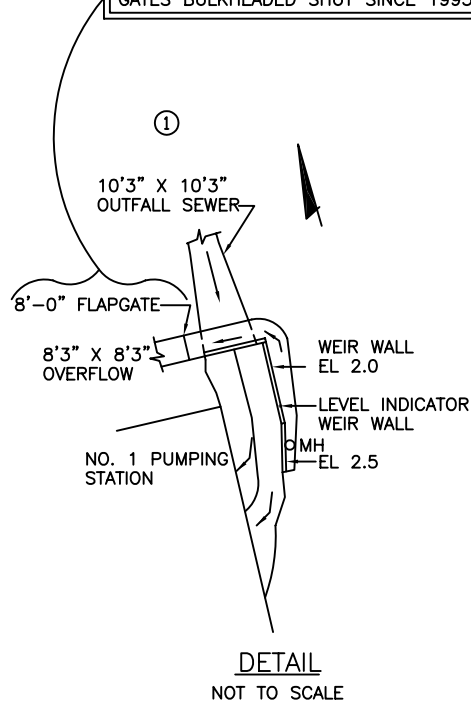
STRUCTURE NO. 1 WEST SIDE EMERGENCY OVERFLOW WASTEWATER TREATMENT PLANT, S.W.

JUST BEFORE THE 10'3" X 10'3" OUTFALL SEWER ENTERS THE NO. 1 PUMPING STATION, IT CAN OVERFLOW OVER SIDE WEIR SECTIONS AT ELEVATION 2.0 AND 2.5. THERE IS ALSO PROVISION TO RAISE THE OVERFLOW LEVEL AS HIGH AS 4.0 WITH STOP LOGS. OVERFLOW IS DISCHARGED THROUGH A 8'0" FLAP GATE OUT A SUBMERGED OUTFALL (001).

THERE IS A LIMIT SWITCH ON THE OVERFLOW TIDE GATE AT PUMPING STATION NO. 2 AND A LEVEL INDICATOR AT THE OVERFLOW WEIR AT PUMPING STATION NO. 1 BOTH OF WHICH INDICATE OVERFLOWS TO THE OUTFALL TO THE OUTFALL OVERFLOW MONITORING SYSTEM.

REFER TO STRUCTURE BOOK NO. PS-1 FOR ADDITIONAL INFORMATION ON PUMP STATION

GATES BULKHEADED SHUT SINCE 1995



STRUCTURE NO. 1A EAST SIDE EMERGENCY OVERFLOW, WATER POLLUTION CONTROL PLANT, S.W.

THIS IS AN EMERGENCY BYPASS FOR THE WATER POLLUTION CONTROL PLANT. JUST BEFORE THE COMBINED OUTFALL RELIEF SEWER ENTERS THE NO. 2 PUMPING STATION, IT IS PROVIDED WITH AN OVERFLOW CONSISTING OF THREE 12 FT. C 5 FT. OPENING WITH A STILL ELEVATION OF 2.0. THESE OPENINGS ARE EQUIPPED WITH TIDE GATES.

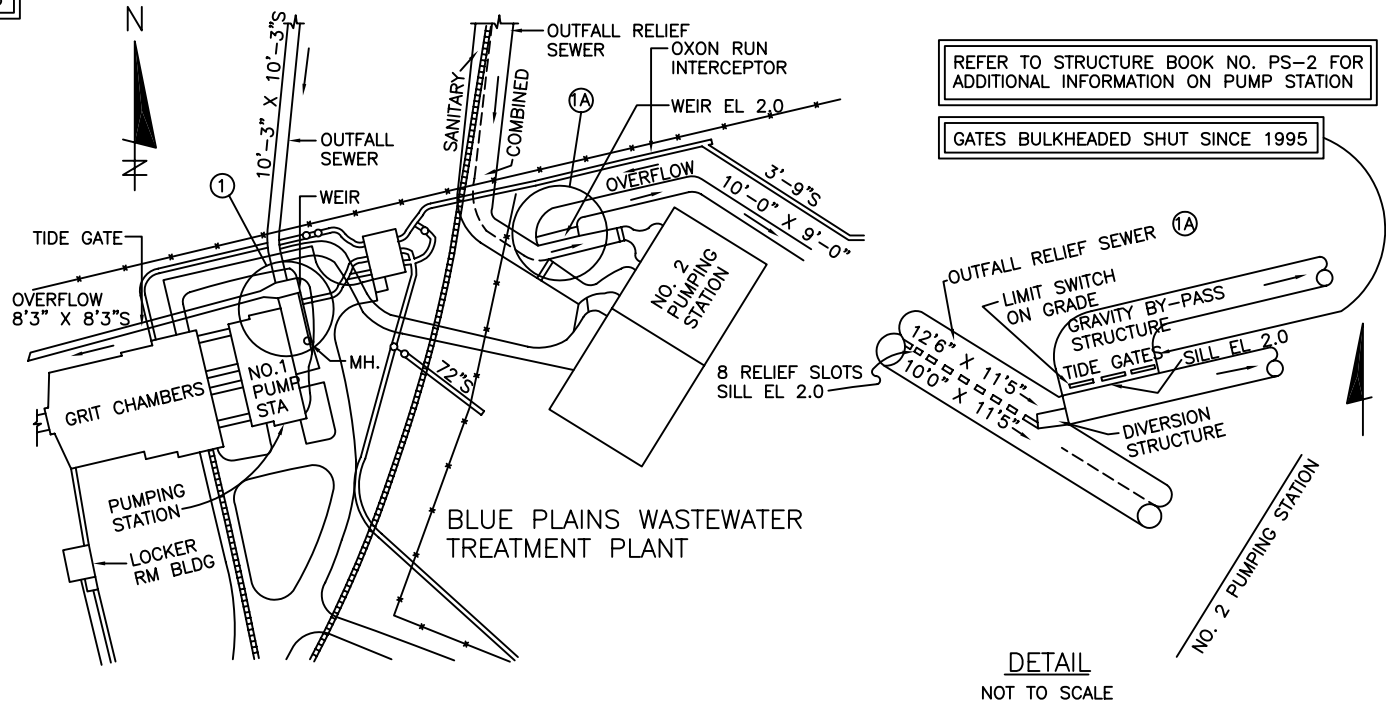
JUST UPSTREAM OF THE OVERFLOW OPENINGS, THE COMBINED AND SANITARY OUTFALL RELIEF SEWERS ARE CROSS-CONNECTED BY EIGHT 1-FT 9-IN BY 6 FT OPENINGS WITH A MASONRY CREST AT ELEVATION 2.0.

THE 10 FT BY 9 FT OVERFLOW LINE ULTIMATELY DISCHARGES TO THE POTOMAC RIVER THROUGH OUTFALL 001.

THERE IS A LIMIT SWITCH ON THE OVERFLOW TIDE GATE AT PUMPING STATION NO. 2 AND A LEVEL INDICATOR AT THE OVERFLOW WEIR AT PUMPING STATION NO. 1 BOTH OF WHICH INDICATE OVERFLOWS TO THE OUTFALL OVERFLOW MONITORING SYSTEM.

REFER TO STRUCTURE BOOK NO. PS-2 FOR ADDITIONAL INFORMATION ON PUMP STATION

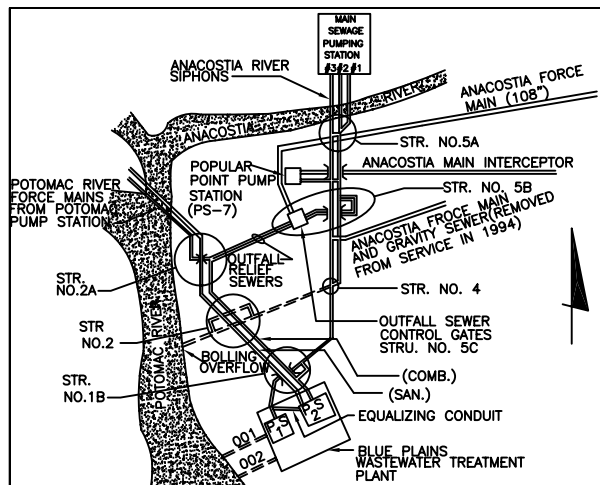
GATES BULKHEADED SHUT SINCE 1995



1" = 100' 100 0 100 200

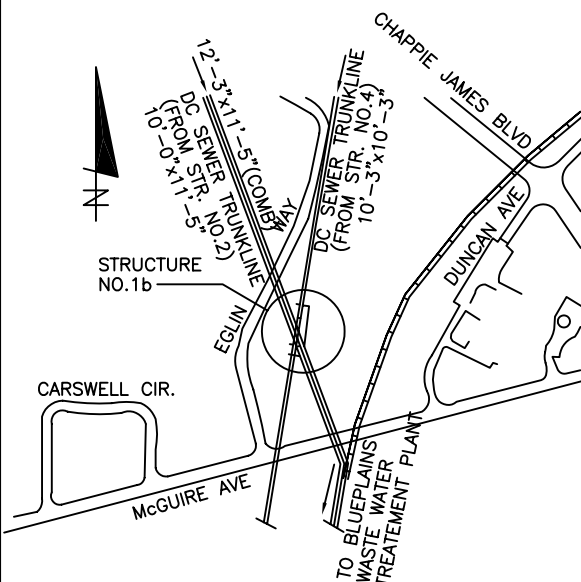
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL #001

STRUCTURE NO.  
1, 1A



SCHEMATIC FLOW PLAN

NOT TO SCALE



LOCATION PLAN

NOT TO SCALE

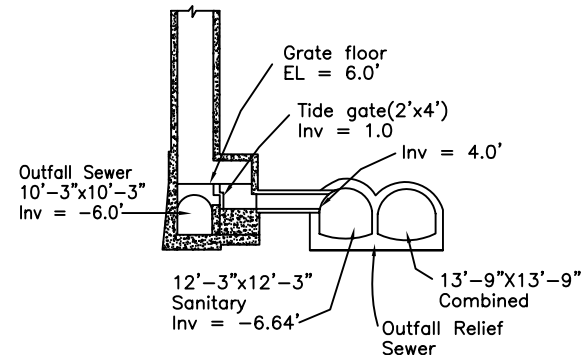
STRUCTURE 1B OUTFALL RELIEF SEWER,  
BOLLING AIR FORCE BASE  
APPROXIMATELY 650 FT. NORTH OF THE  
SOUTH LINE OF THE BASE

The Overflow Structure has a side Overflow Weir. The Overflow is formed by a masonry dam. The Outfall Sewer passes through the structure and the overflow occurs during peak flows.

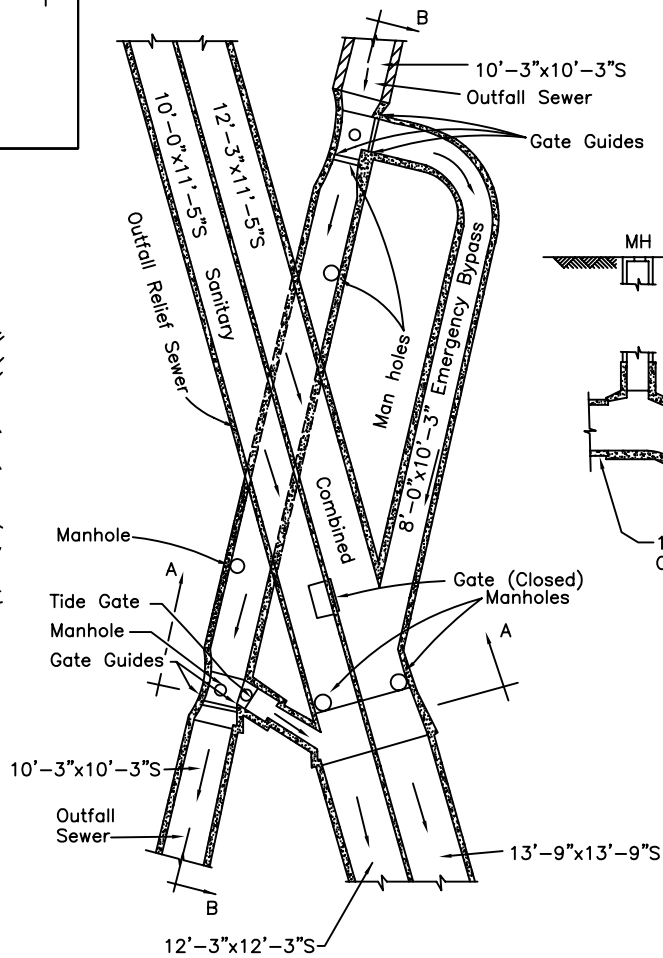
There is a Tide Gate in the chamber preventing any back up from Outfall Relief Sewer.

Approximately 140 ft. north of the structure there is an Emergency By-pass.

By-pass was observed to be open 2/5/04.

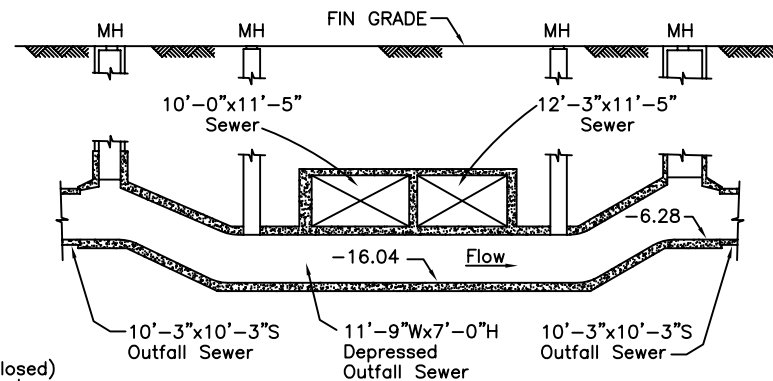


SECTION A-A  
NOT TO SCALE



PLAN

1"=30' 30 0 30 60



SECTION B-B

STRUCTURE NO.  
1b

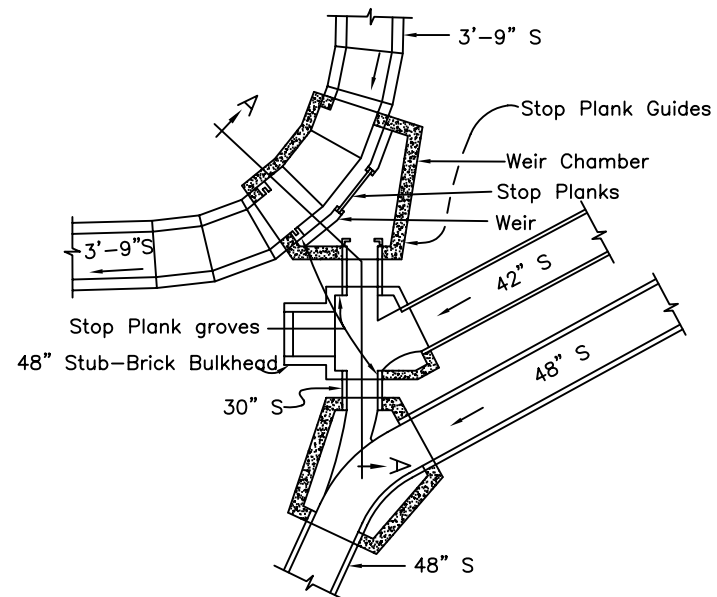
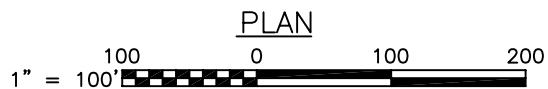
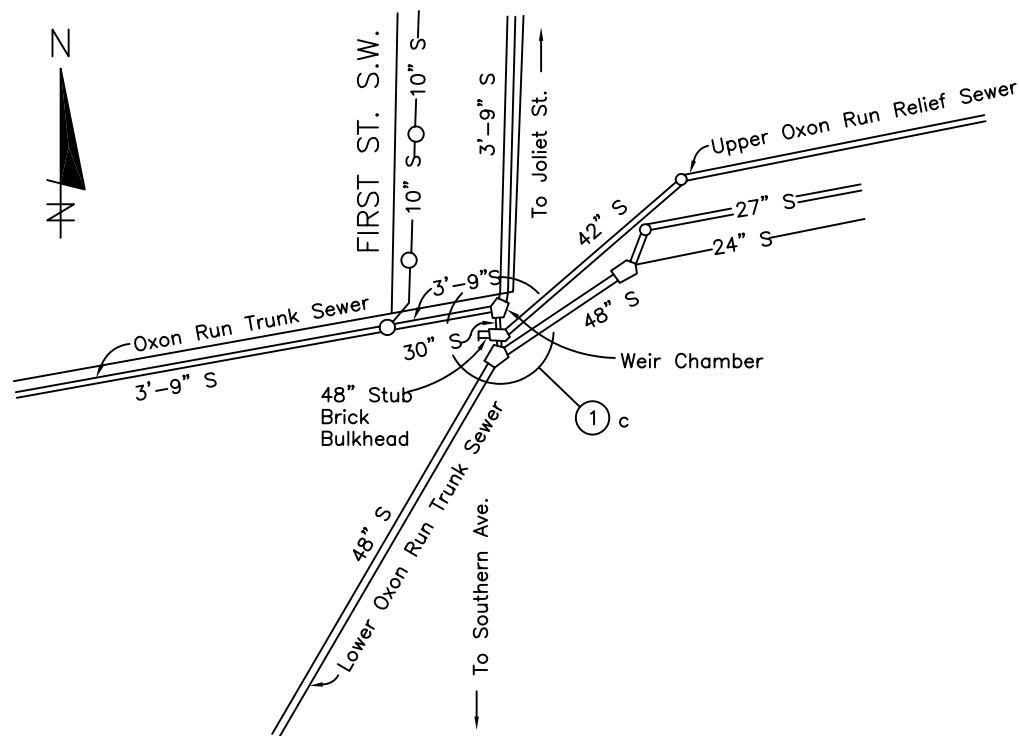
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A



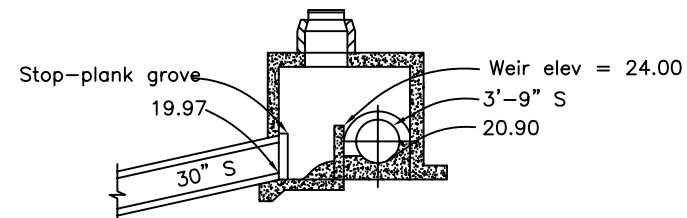
STRUCTURE NO. 1C, OXON RUN TRUNK RELIEF SEWER, 1st STREET, SOUTH OF JOLIET STREET, EXTENDED, S.W. The Overflow Structure has a side Overflow Weir located in a Diversion and Overflow Chamber. The 3-ft. 9-in. sewer enters the Overflow Chamber and the continuation of the 3-ft. 9-in. sewer conveys the Sanitary flow to Blue Plains Waste Water Treatment Plant.

The Overflow occurs only when the sewer surcharges.

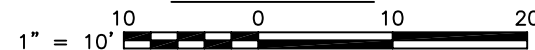
During any emergency the 3-ft.9-in. Outlet can be closed by means of stop-planks and by removing the stop-planks at the Weir then the flow can all be diverted to the Lower Oxon Run Trunk Sewer, which also continues to Blue Plains, Waste Water Treatment Plant.



DETAIL

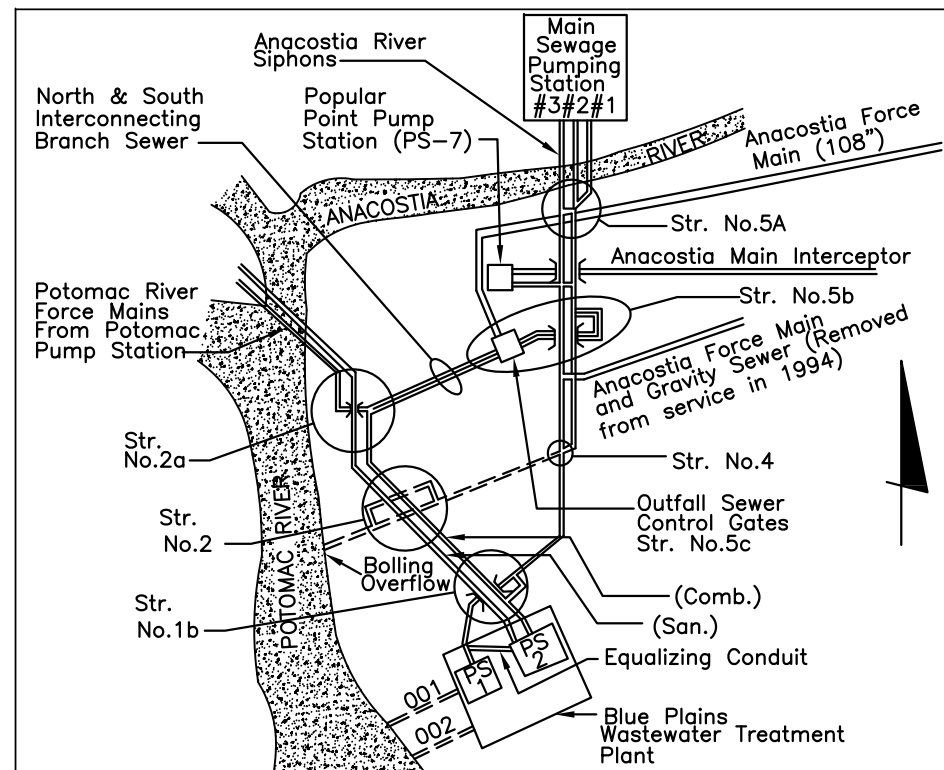


SECTION A-A

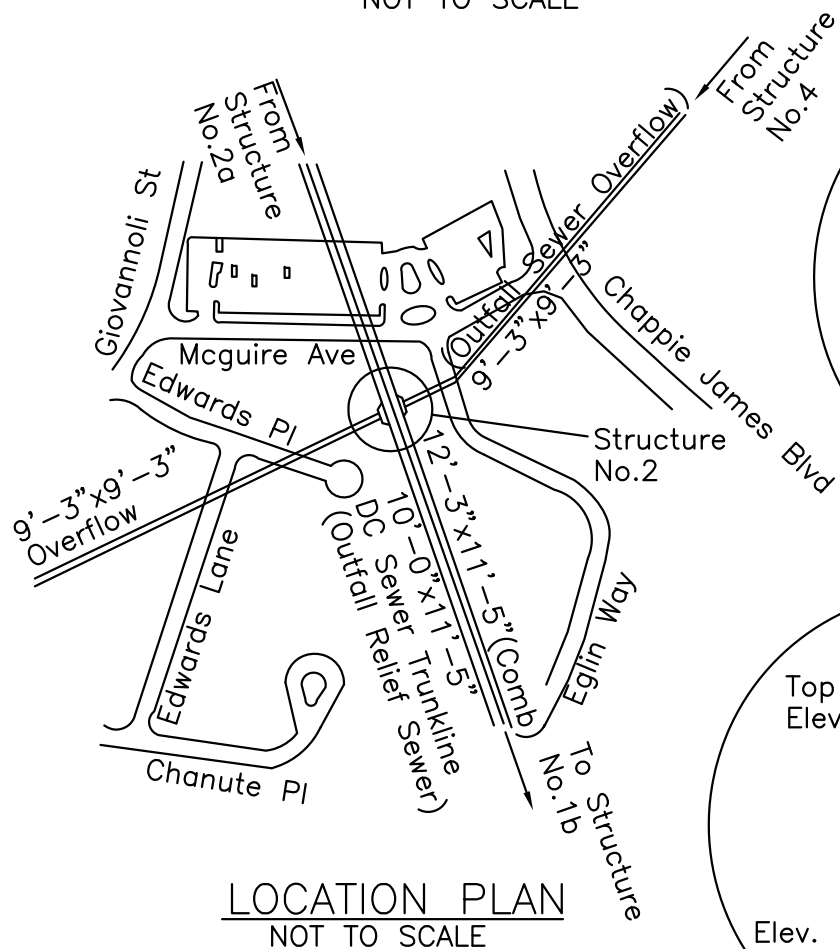


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
1c



SCHEMATIC FLOW PLAN  
NOT TO SCALE



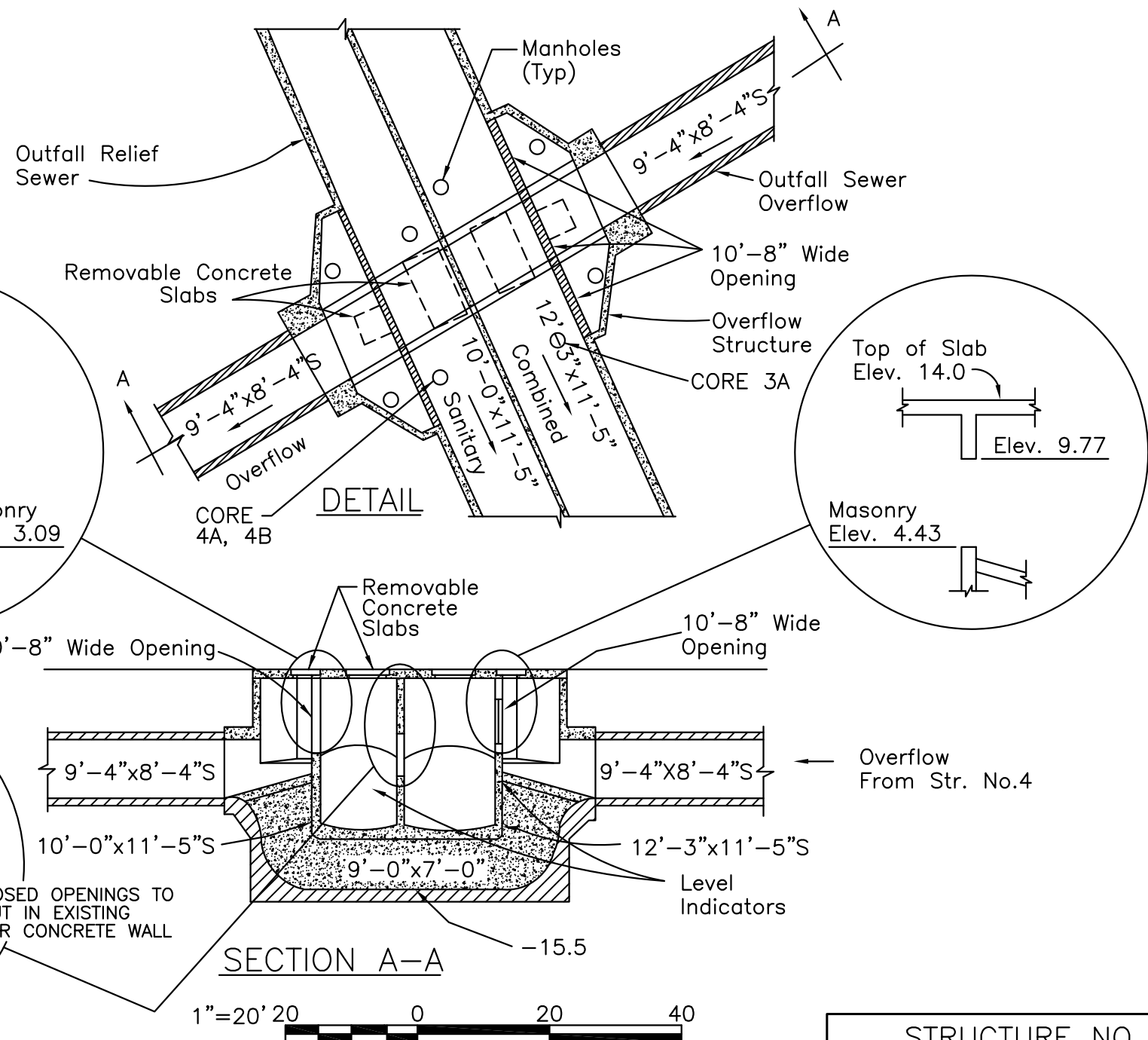
LOCATION PLAN  
NOT TO SCALE

STRUCTURE NO. 2 OUTFALL RELIEF SEWER, BOLLING AIR FORCE BASE  
APPROXIMATELY 2250 FT. NORTH OF THE SOUTH LINE OF THE BASE  
AND 800 FT. EAST OF THE POTOMAC RIVER BANK, MCGUIRE AVENUE  
AND EGLIN WAY

The Sanitary and the Combined Outfall Relief Sewer flows south to Blue Plains Waste Water Treatment Plant in parallel and either sewer may overflow at this structure through a series of three side overflow weirs on each side of the structure. Each of the six bays of the weirs is 10 ft,8 in. wide.

The 9ft-4in. by 8ft.-4in. Overflow line discharges into the Potomac River.

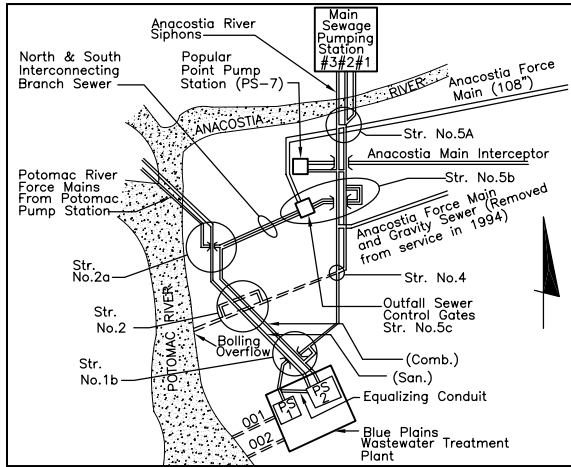
There are Level Sensors which indicates Overflow in both of the 10 ft. by 11 ft. 5 in. Conduits. These report flow levels to the Outfall Overflow Monitoring System Located at Blue Plains Pumping Station No. 2.



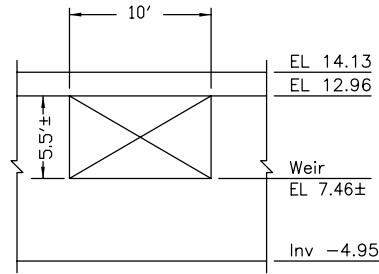
SECTION A-A

STRUCTURE NO.  
2

REVISED BY: EPMC-3B  
REVISED DATE: JANUARY 2011  
ASSOCIATED NPDES OUTFALL # 003



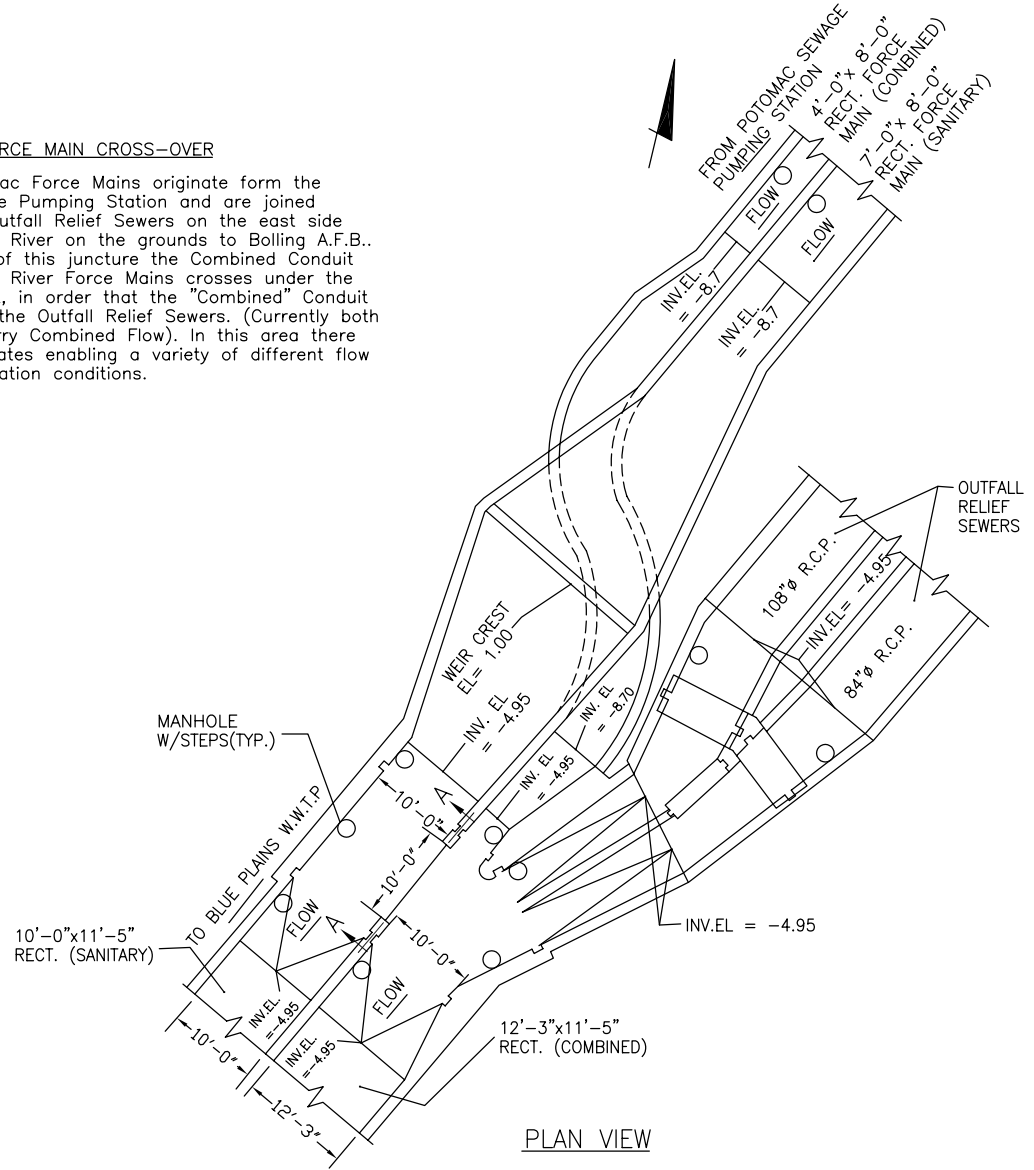
SCHEMATIC FLOW PLAN  
NOT TO SCALE



SECTION A-A

### 2a POTOMAC FORCE MAIN CROSS-OVER

The Twin Potomac Force Mains originate from the Potomac Sewage Pumping Station and are joined with the Twin Outfall Relief Sewers on the east side of the Potomac River on the grounds to Bolling A.F.B.. Just upstream of this juncture the Combined Conduit of the Potomac River Force Mains crosses under the Sanitary Conduit, in order that the "Combined" Conduit is aligned with the Outfall Relief Sewers. (Currently both Force Mains carry Combined Flow). In this area there are ten Slide Gates enabling a variety of different flow control and isolation conditions.

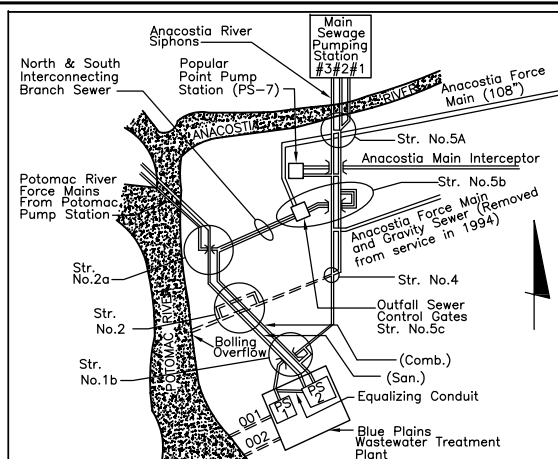


PLAN VIEW

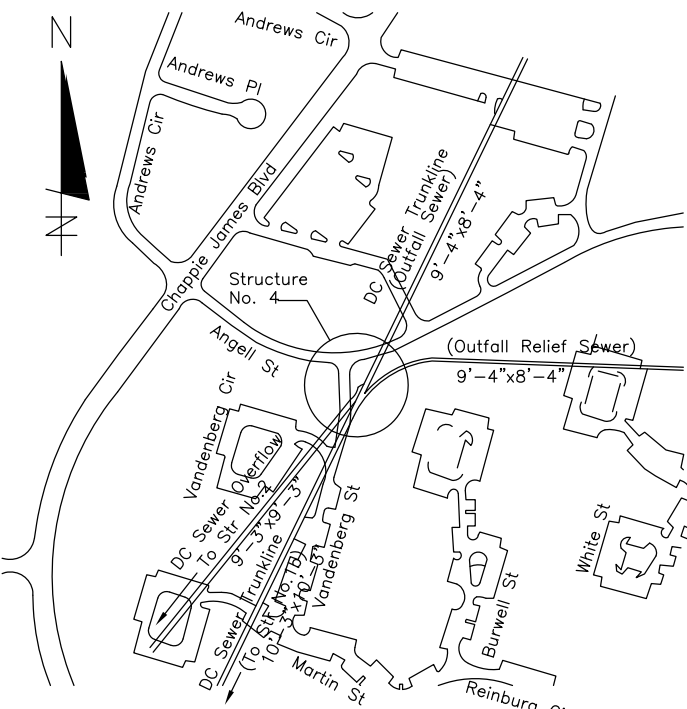
POTOMAC FORCE MAIN CROSS-OVER  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
2a



SCHEMATIC FLOW PLAN  
NOT TO SCALE



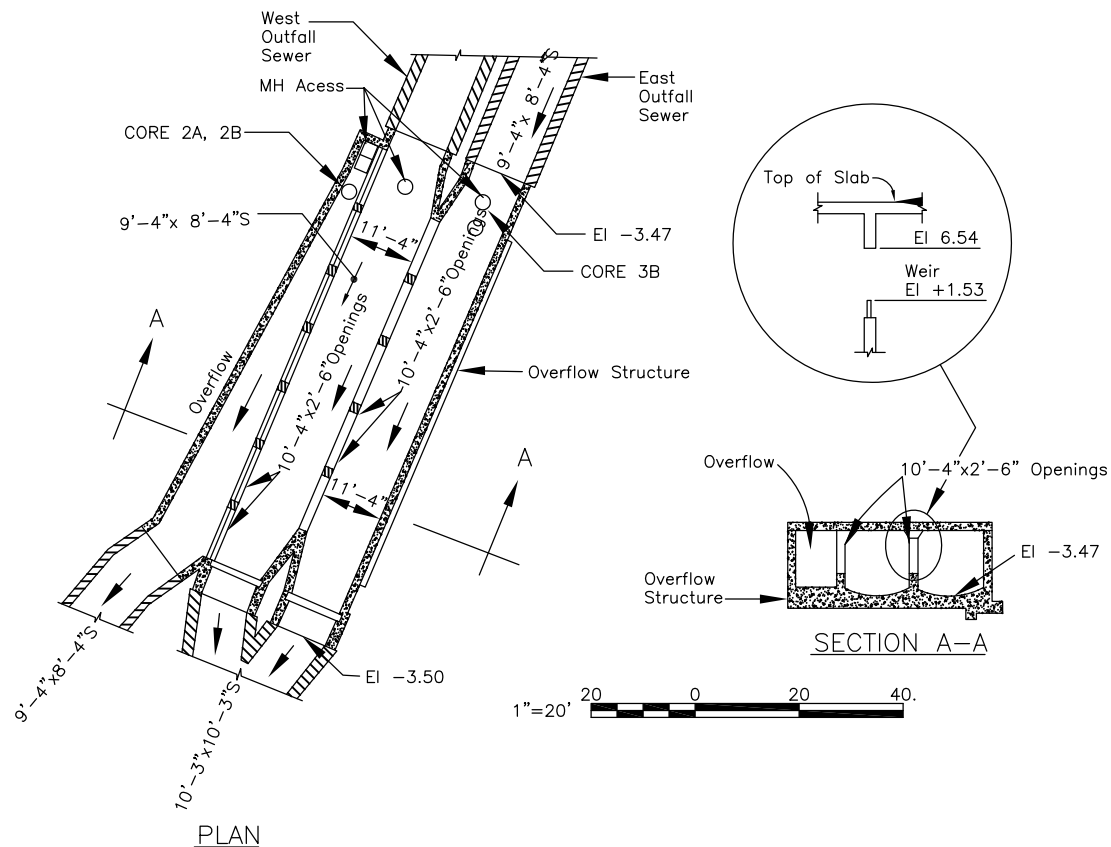
LOCATION PLAN  
NOT TO SCALE

**STRUCTURE NO. 4 OUTFALL SEWER EMERGENCY OVERFLOW, IN BOLLING AIR FORCE BASE,  
APPROXIMATELY 2500 FT. NORTH OF THE SOUTH LINE OF BASE AND 1500 FT. EAST  
OF THE POTOMAC RIVER BANK, ANGELL STREET AND VANDENBERG STREET**

The Overflow Structure has a side Overflow Weir located in a Junction and a Overflow Structure both 9 ft.-4 in. by 8 ft.-4 in. basket-handle outfall sewers enter the junction and Overflow Structure and a 10 ft.-3 in. by 10 ft.-3 in. semi-elliptical sewer conveys the normal discharge to Blue Plains WasteWater Treatment Plant.

The Overflow Weir consists of seven sections totaling 72 ft.-4 in. in length. The crest can be raised by stop planks. Two stop planks are in place. The two Outfall Sewers are cross-connected by five openings in the Chamber, each 10 ft.-4 in. by 2 ft.-6 in. The 9 ft.-4 in. by 8 ft.-4 in. Overflow line discharges into the Potomac River.

There are level sensors which indicates overflow to the Outfall Overflow Monitoring System located at Blue Plains Pumping Station No. 2.



REVISED BY: EPMC-3B  
REVISED DATE: JANUARY 2011  
ASSOCIATED NPDES OUTFALL # 003

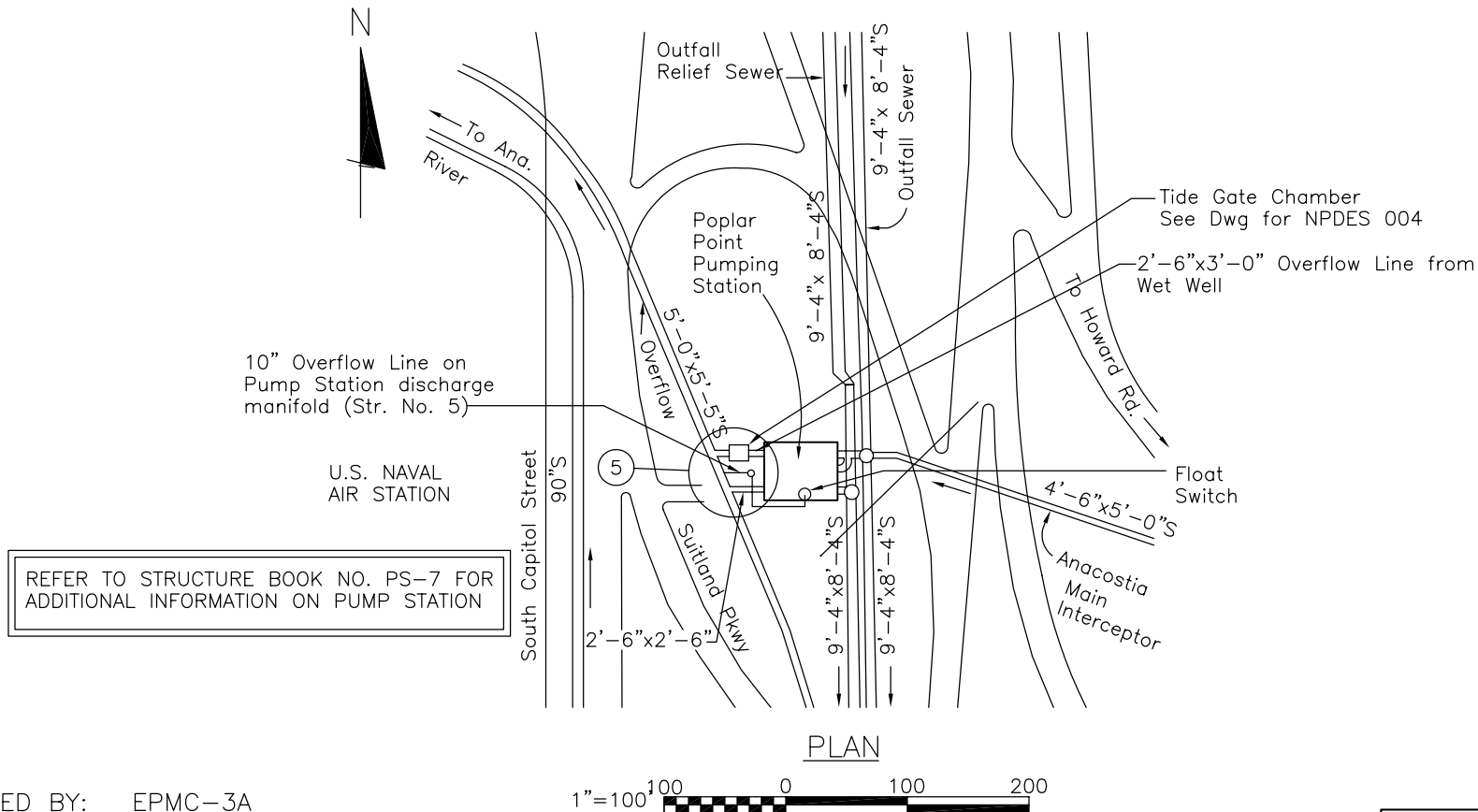
STRUCTURE NO.  
4

STRUCTURE NO.5, Emergency Overflow, at Poplar Point Pumping Station..S.E.

This Structure is not one of the conventional Overflow and Intercepting Structures but is an Emergency Overflow or Bypass for the Poplar Point Pumping Station. Normally the Pumping Station handles the discharge of the Anacostia Main Interceptor lifting it to the Outfall Sewers, where it is conveyed to Blue Plains Wastewater Treatment Plant. A Bypass is provided by which sewage can be pumped in an emergency into a 5-ft. by 5-ft. 5-in. Storm Sewer which discharges into the Anacostia River. Also, there is an Emergency Automatic Overflow, whereby the sewage will overflow to the same Storm Sewer when the Wet Well rises to EL. 2.00 as a result of some emergency. Operation of the automatic overflow depends, of course, on the sewage level being higher than the tide at the time.

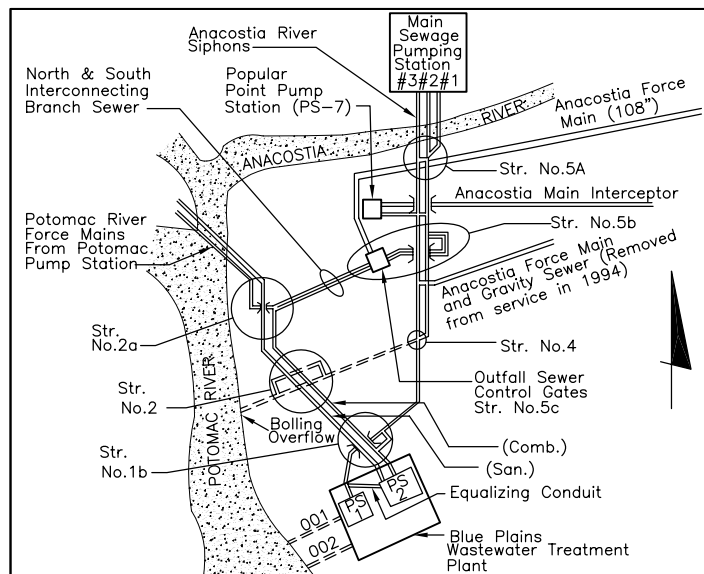
A 10-in. cast iron Overflow line has also been added leading from the Pumping Station Discharge Chamber. The Overflow line originates at the top of a manhole two feet below the elevation and leads to a catch basin connected to the Storm Sewer discharging to the Anacostia River.

There is a level sensor which indicates overflow to the outtrail Overflow Monitoring System located at Blue Plains Pumping Station No. 2.

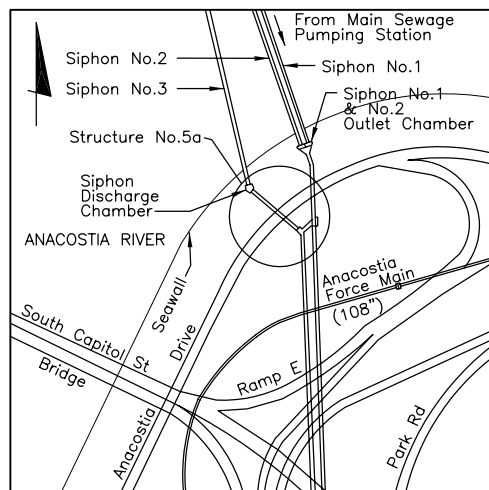


REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 004

STRUCTURE NO.  
 5



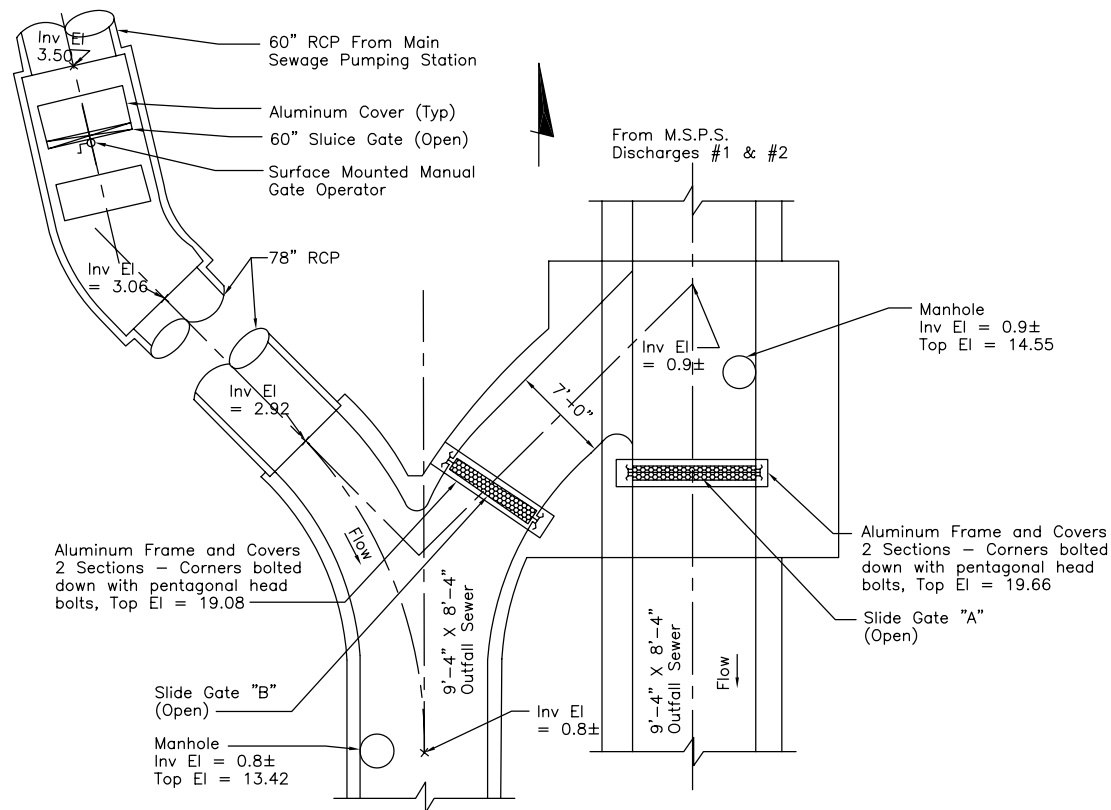
SCHEMATIC FLOW PLAN  
NOT TO SCALE



LOCATION PLAN  
NOT TO SCALE

# STRUCTURE NO. 5a MAIN SEWAGE PUMPING STATION SIPHONS

Main Sewage Pumping Station pumps across the Anacostia River via three 60-inch inverted siphons. At the downstream Siphon Chamber for Siphons No. 1 and No. 2 there are no provisions for flow control. There are two Slide Gates at the confluence with Siphon No. 3, and the start of the Twin Outfall Sewers.

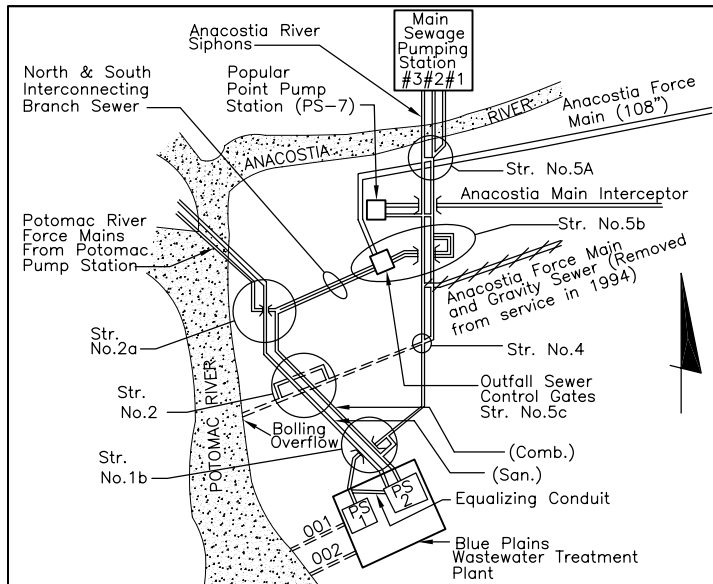


PLAN VIEW

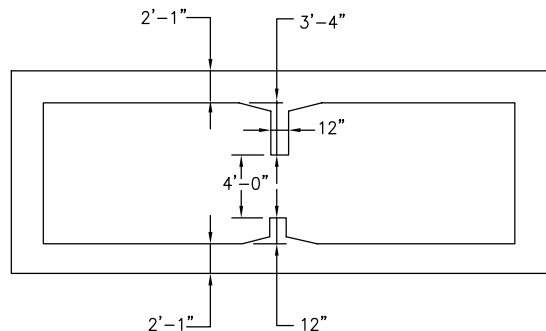
MAIN SEWAGE PUMPING STATION SIPHONS  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
5a



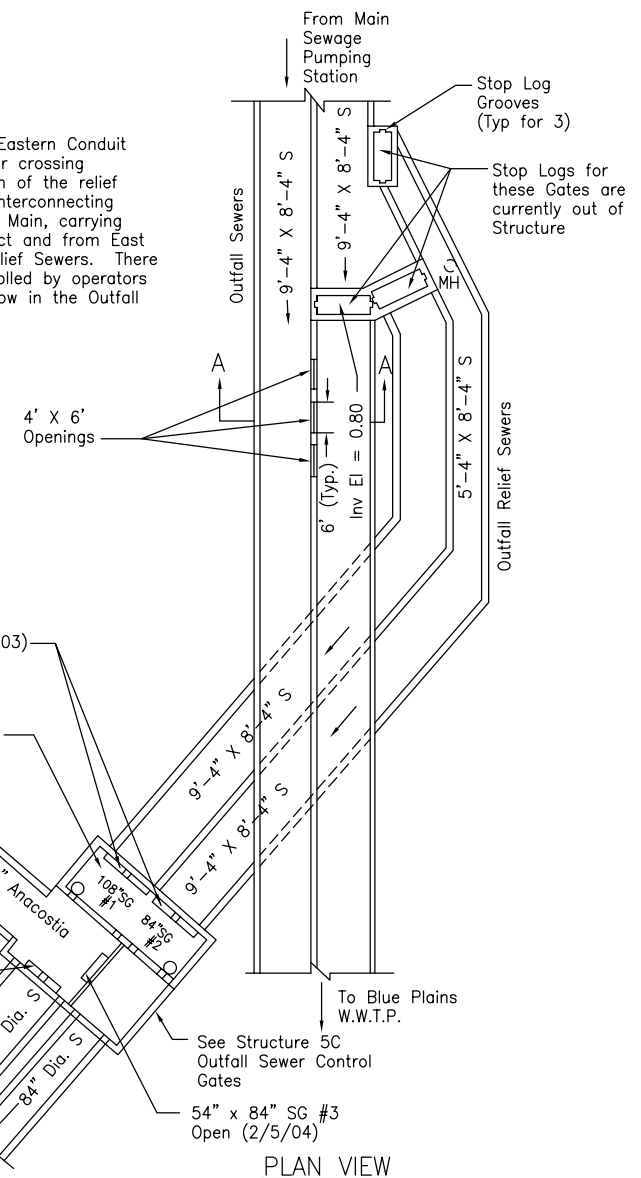
SCHEMATIC FLOW PLAN  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

#### 5b OUTFALL RELIEF SEWER JUNCTION

The Twin Outfall Relief Sewers originate from the Eastern Conduit of the Outfall Sewers and proceed Southwest, after crossing under the Outfall Sewers. Immediately downstream of the relief sewer juncture, there are three 4' x 6' windows interconnecting the adjacent Outfall Sewers. The Anacostia Force Main, carrying flow from the Washington Suburban Sanitary District and from East Side Sewage Pumping Station, joins the Outfall Relief Sewers. There are four hydraulically operated Sluice Gates, controlled by operators at the Main Sewage Pumping Station to control flow in the Outfall Relief Sewers.



#### LEGEND

SG = SLUICE GATE

OUTFALL RELIEF JUNCTION  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

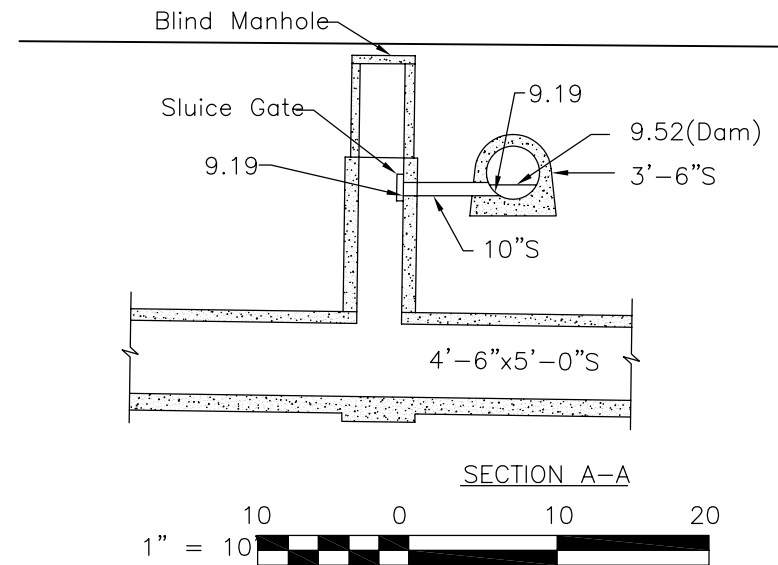
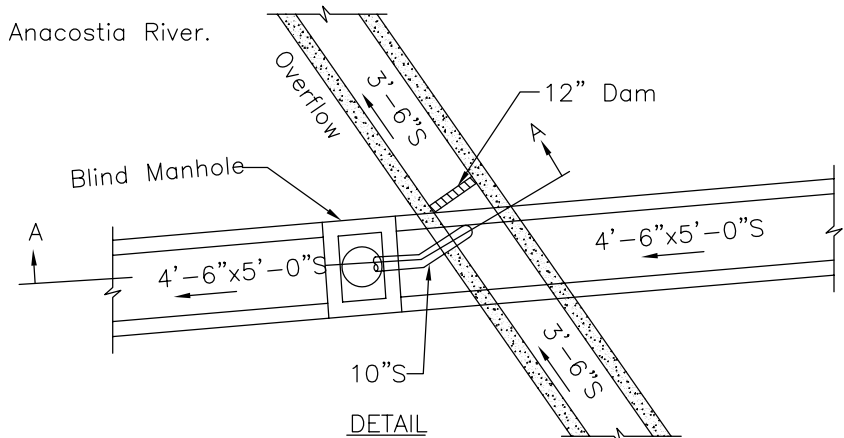
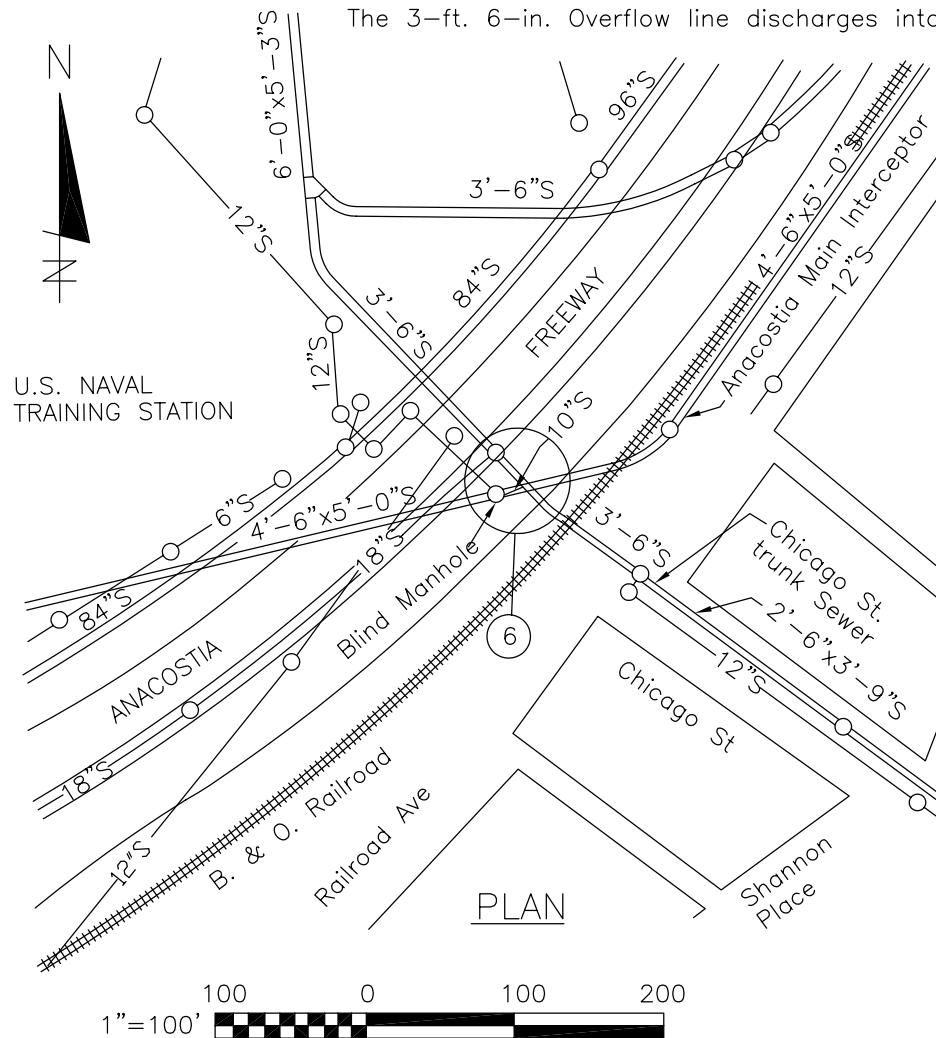
STRUCTURE NO.  
5b





STRUCTURE NO. 6. Chicago Street Trunk, Chicago Street and Railroad Avenue, S.E. This structure has a sump-type regulator; the Storm Overflow is formed by a masonry dam. A 3-ft. 6-in. Combined Sewer enters the Overflow Structure and a 10-inch intercepting connection conveys the Dry-Weather Flow into the Anacostia Main Interceptor. There is a Sluice Gate at the outlet end of the 10-in. intercepting connection.

The 3-ft. 6-in. Overflow line discharges into the Anacostia River.

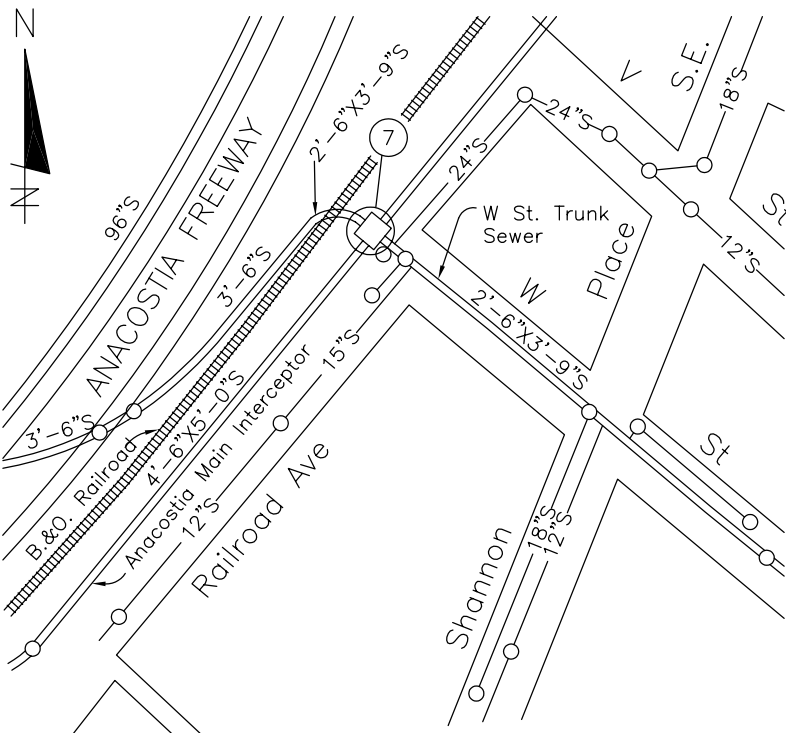


REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 005

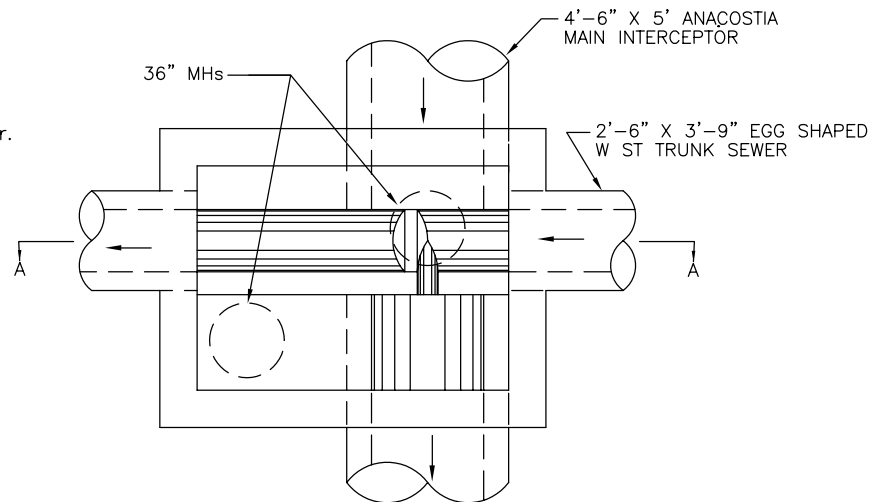
STRUCTURE NO.  
 6

STRUCTURE NO. 7, W Street Trunk Sewer, W Street and Railroad Avenue, S.E.

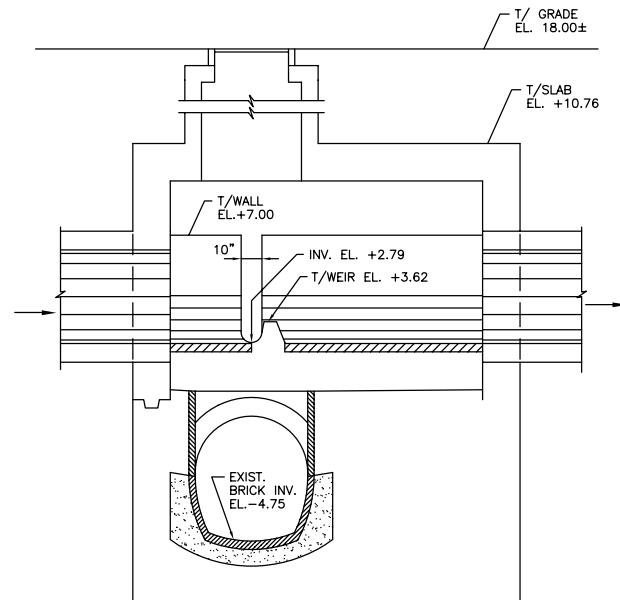
A 2-ft. 6-in. by 3-ft. 9-in. Combined Sewer enters the Structure and a 10-inch slot conveys the Dry-Weather Flow into the Anacostia Main Interceptor. The 2-ft. 6-in. by 3-ft. 9-in. Overflow line discharges into the Anacostia River.



PLAN  
SCALE: 1"=100'



PLAN



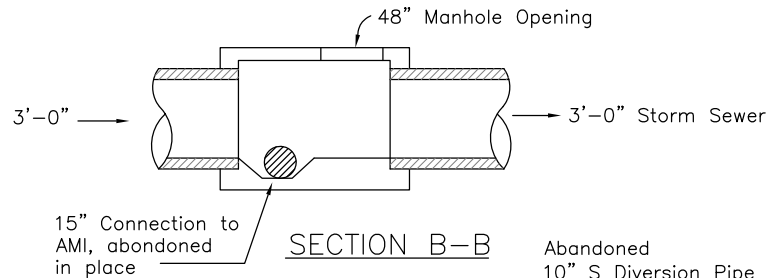
SECTION A

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 005

STRUCTURE NO.  
7

STRUCTURE NO. 8. Anacostia Trunk Sewer. Good Hope Road West of Martin Luther King Blvd. (formerly Nichols Ave.)

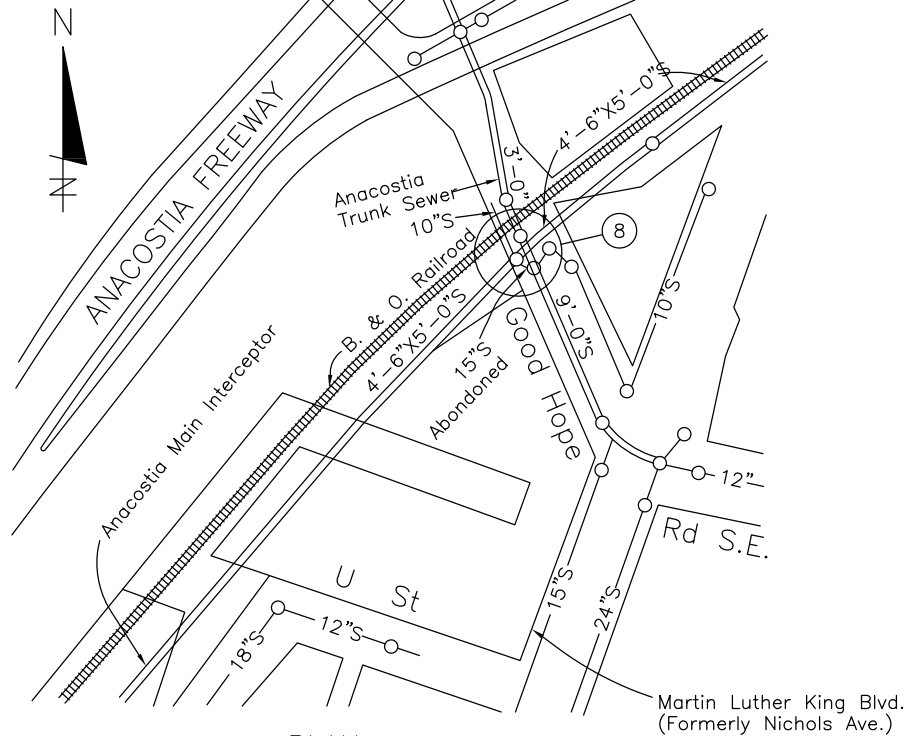
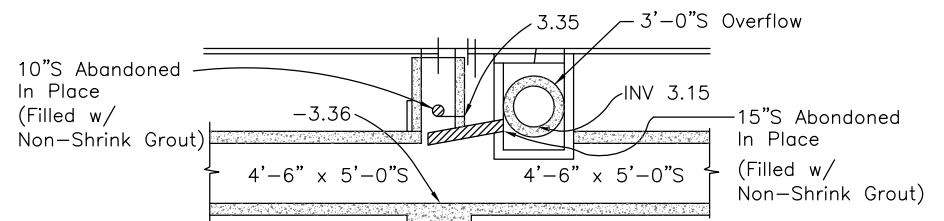
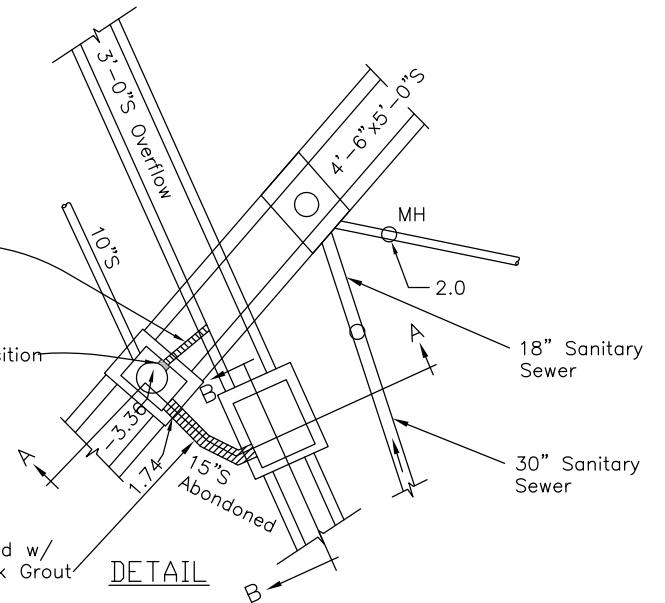
This structure had a masonry dam which directs normal Dry Weather Flows into the Anacostia Main Interceptor (AMI) with Storm Flows overflowing into the Anacostia River Via the 3'-0" Overflow Sewer. Sewers separated and dry weather flow diversion dams are removed.



Abandoned  
10" S Diversion Pipe  
(Filled w/  
Non-Shrink Grout)

Sluice Gate is  
In The Closed Position

Sewer Filled w/  
Non-Shrink Grout



1" = 100' 100 0 100 200

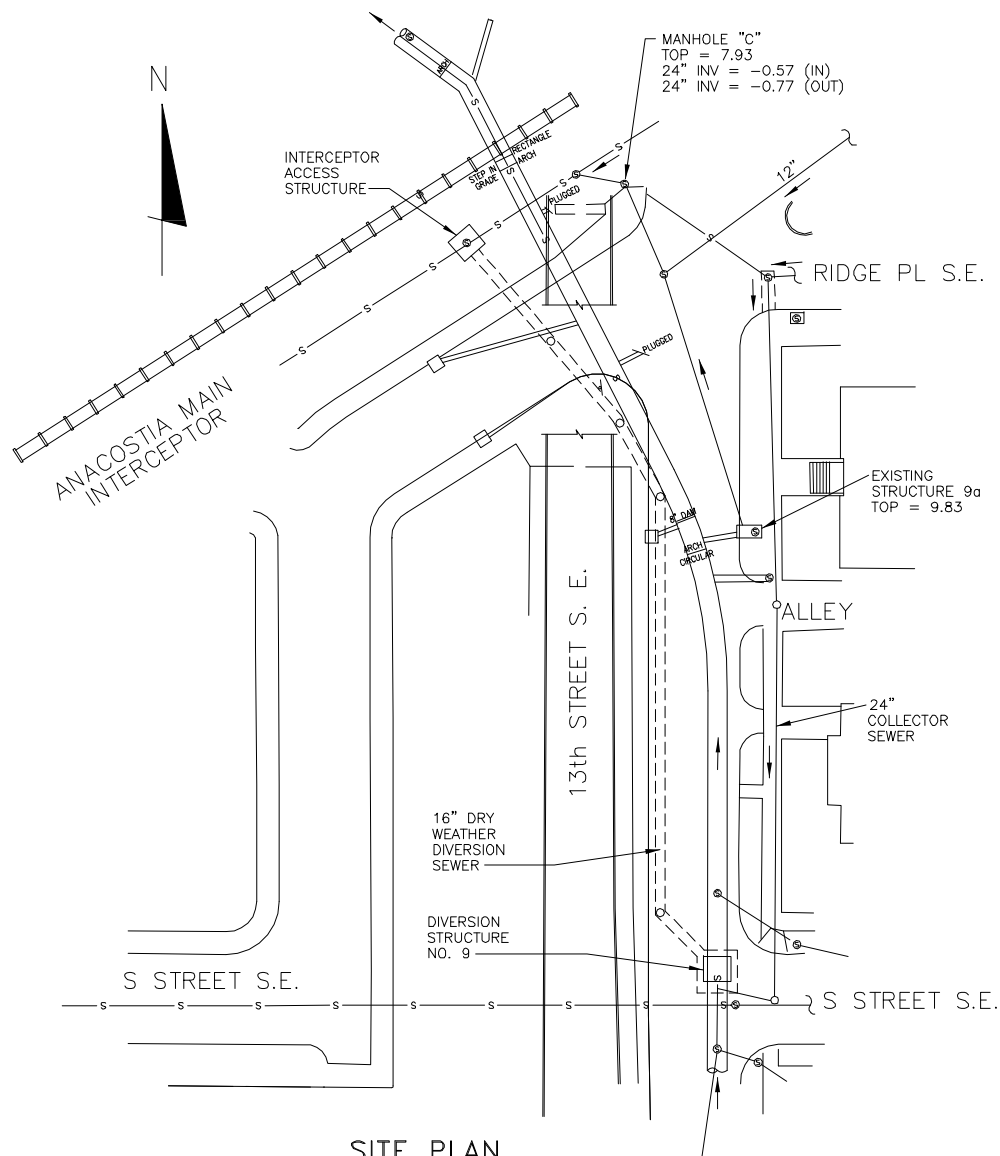
1" = 10' 10 0 10 20

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2015  
ASSOCIATED NPDES OUTFALL # 006

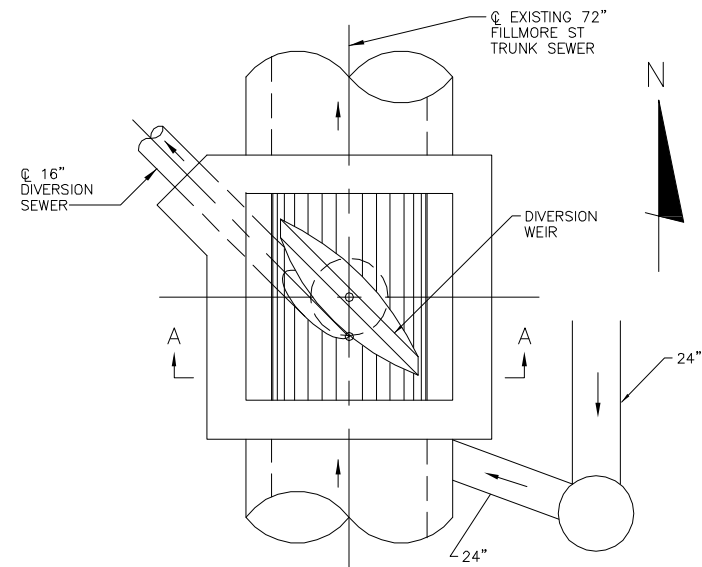
THIS OVERFLOW HAS BEEN ELIMINATED  
BASED ON UPSTREAM SEPARATION

STRUCTURE NO.  
8

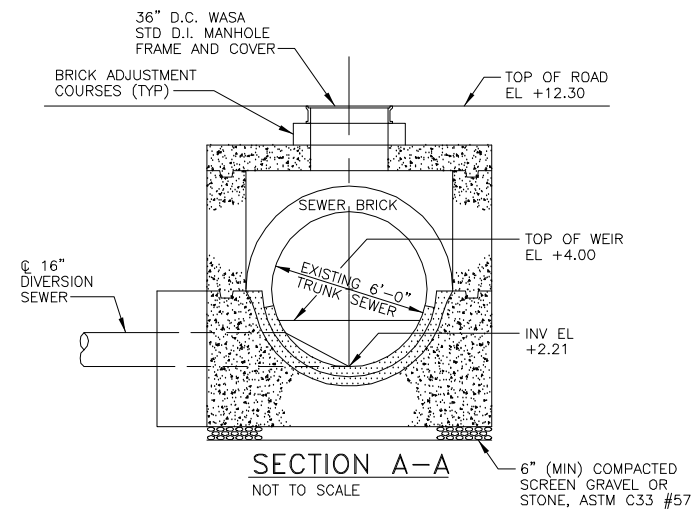
Structure no.9 Fillmore Trunk Sewer, 13th Street and S. Street SE.  
A dam in Fillmore Street Trunk Sewer diverts normal dry weather flows through a 16" sewer into the Anacostia main interceptor. storm water overflows the dam into the Anacostia river.



**SITE PLAN**  
NOT TO SCALE



**SECTIONAL PLAN AT EL 4.05**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

STRUCTURE NO.  
9

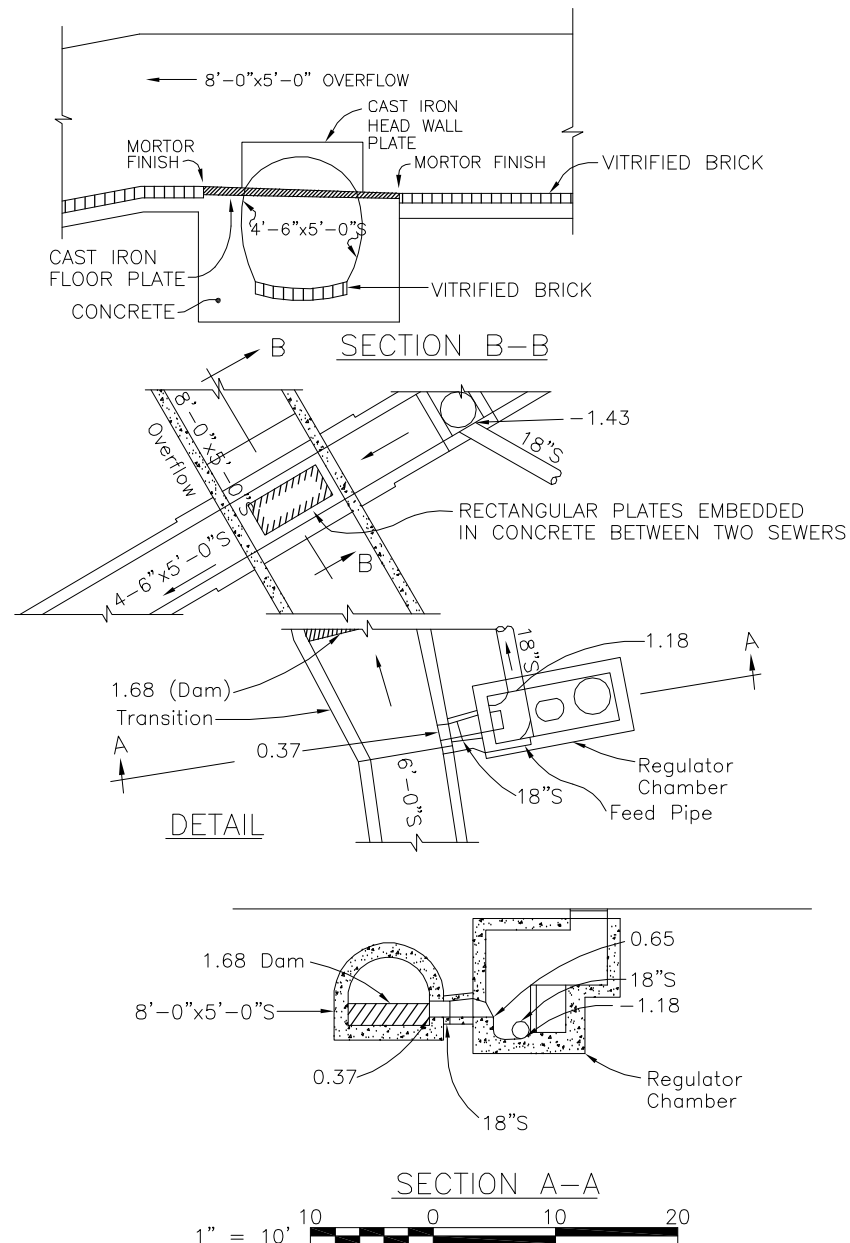
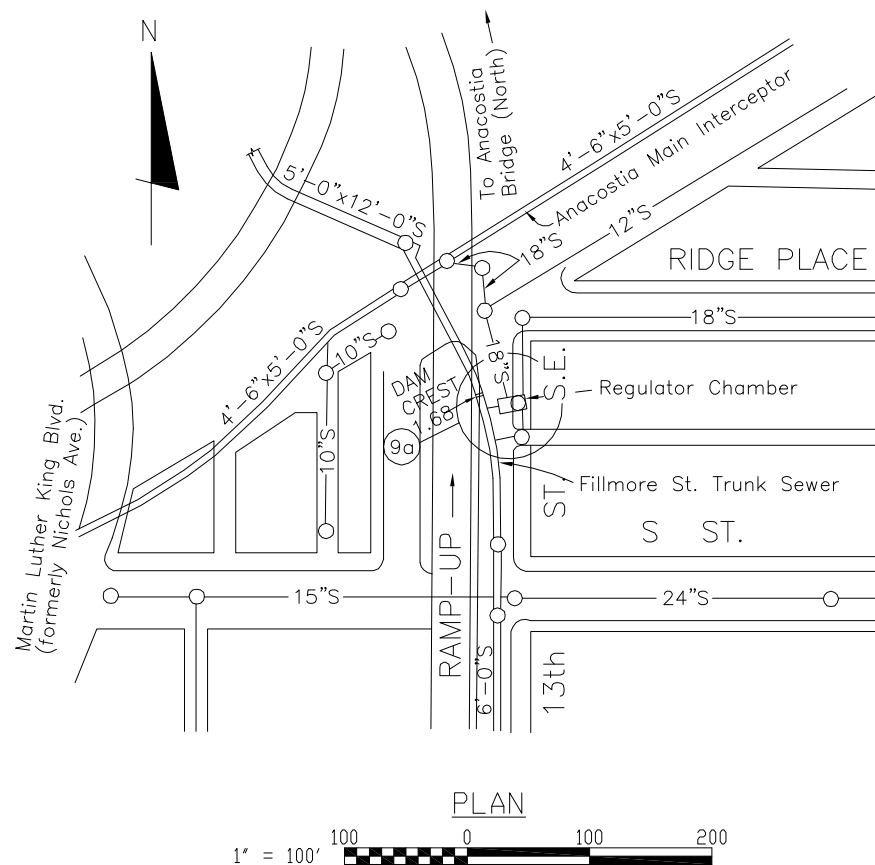
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

**STRUCTURE NO. 9a. Fillmore Trunk Sewer, 13th Street and Ridge Place, S.E.**

A Dam in the Fillmore Street Trunk Sewer diverts normal Dry Weather Flows through an 18" Sewer into the Anacostia Main Interceptor. Storm Water flows overflow the dam into the Anacostia River. This structure was formerly a float type regulator with a float mechanism removed. Now it is a sump type regulator.

**Note:**

Structure No. 9a was placed in operation in 2003 to replace this structure. Structure No. 9a remains in service until satisfactory operation is proven at Structure No. 9.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 007

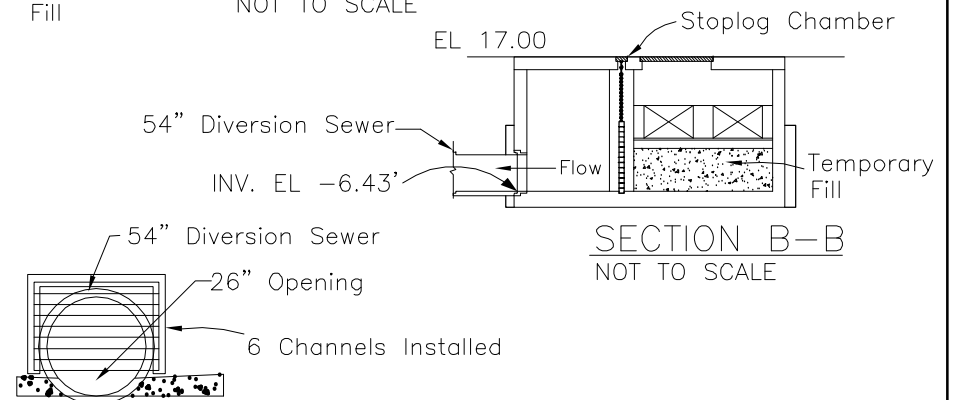
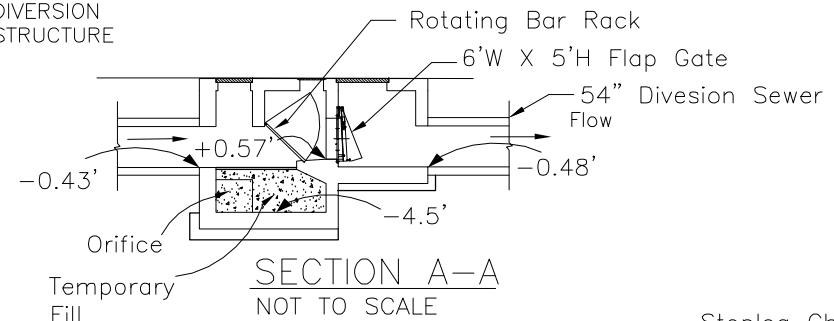
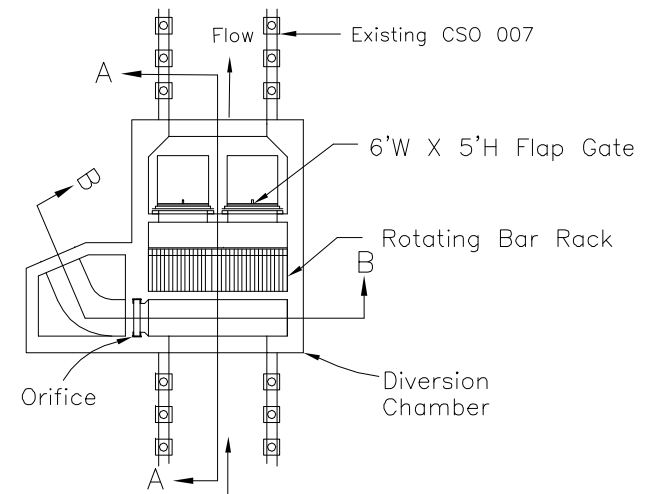
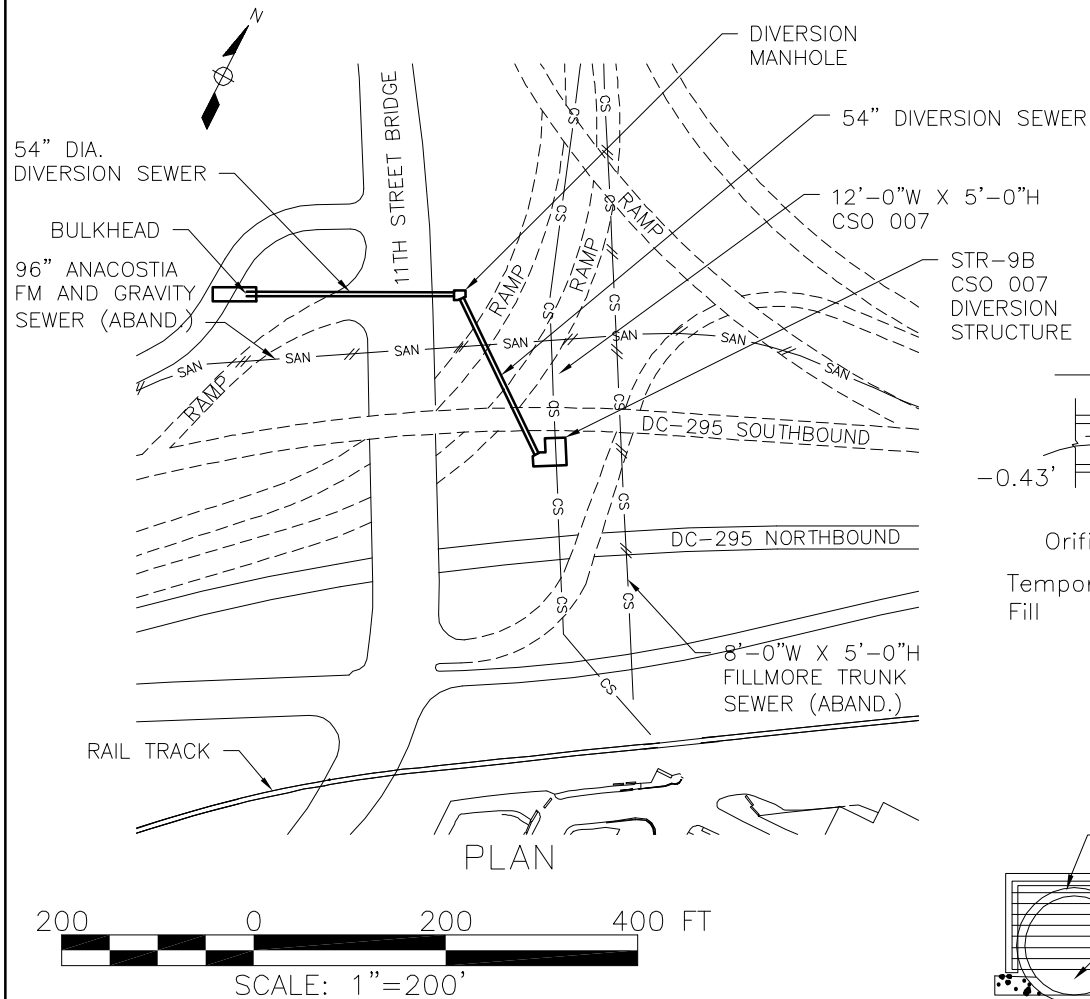
STRUCTURE NO.  
 9a

**STRUCTURE NO. 9b, Fillmore Trunk Sewer, 11th Street Bridge and DC 295 SB**

A Diversion Chamber on the Fillmore Street Trunk Sewer diverts up to 44 mgd of flows through a 54" Diversion Sewer. Flows exceeding 44 mgd will pass through rotating bar rack and discharge into the Anacostia River.

**Note:**

Structure No. 9b was constructed in advance of the Anacostia River Tunnel. It will be placed in operation when the tunnel is completed.

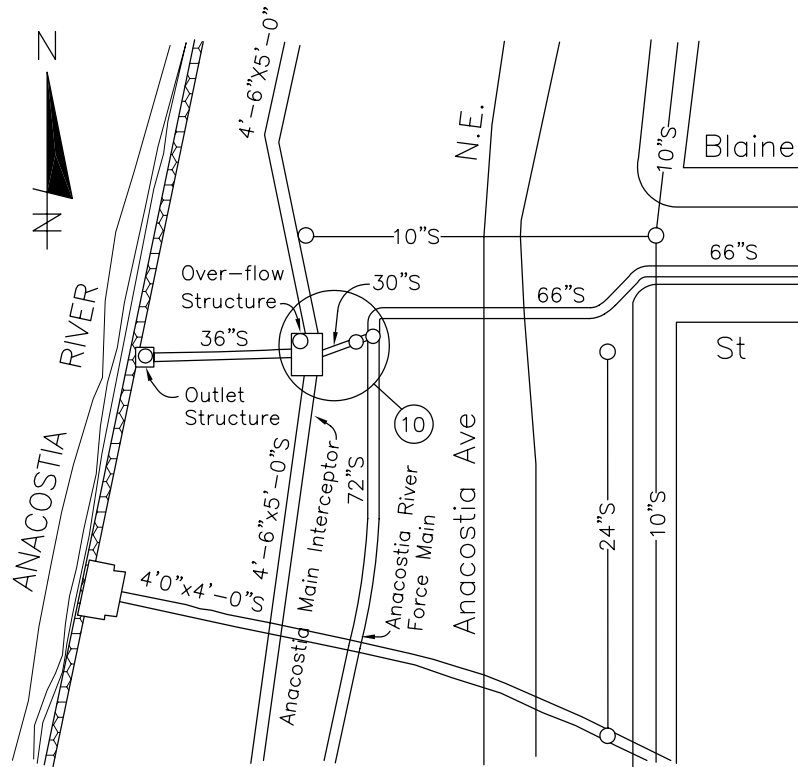


REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: FEBRUARY 2013  
ASSOCIATED NPDES OUTFALL # 007

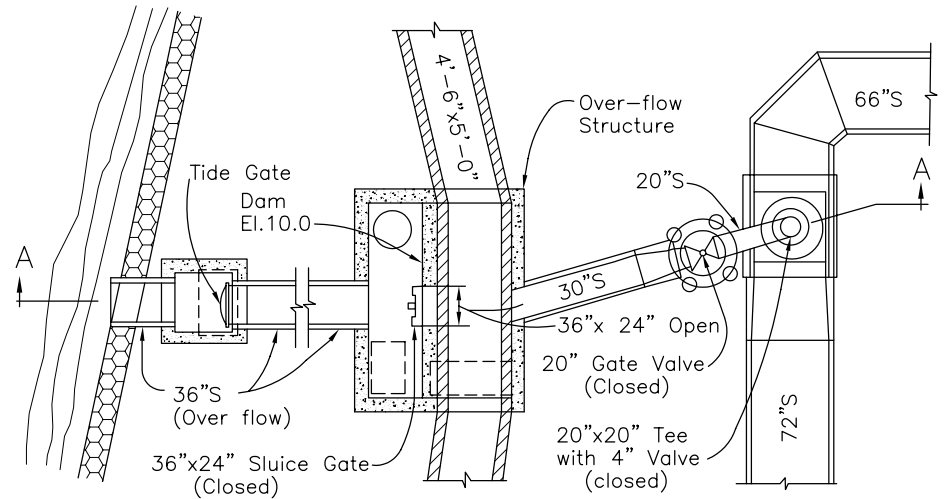
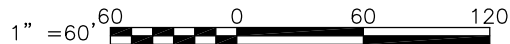
STRUCTURE NO.  
9b

Structure No. 10, Anacostia Main Interceptor, Anacostia Avenue West of Blaine Street, N.E. This is a Side-overflow Structure, the Overflow is formed by a masonry dam. The Anacostia Main Interceptor passes through the structure, and the Overflow occurs only when the sewer surcharges.

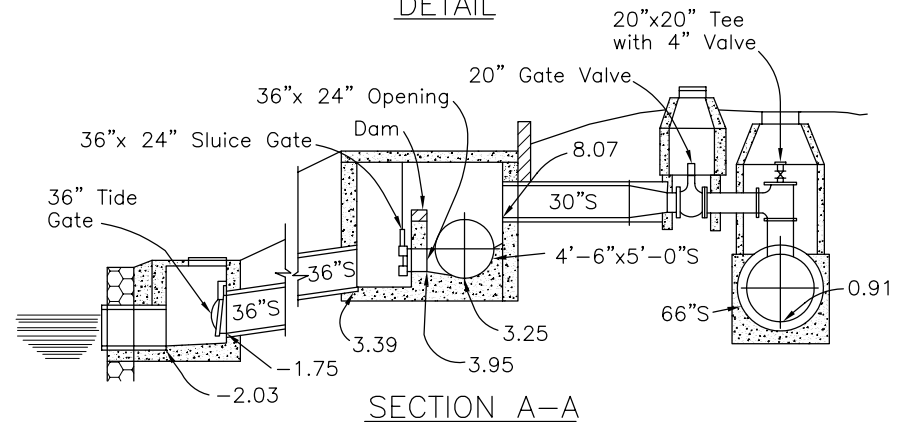
The 36-inch Overflow Line discharges into Anacostia River. There is an Outlet Structure and Tide Gate at the Outlet.



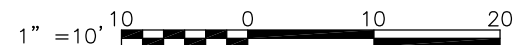
PLAN



DETAIL



SECTION A-A

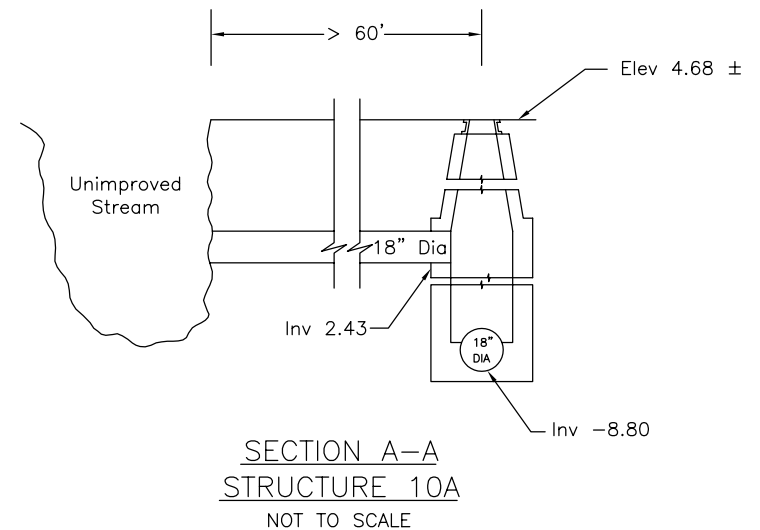
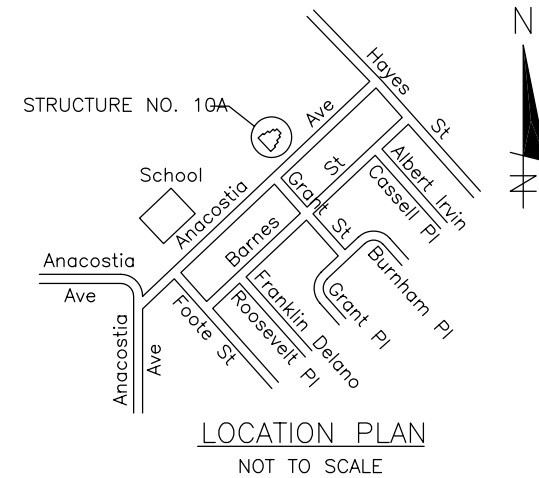
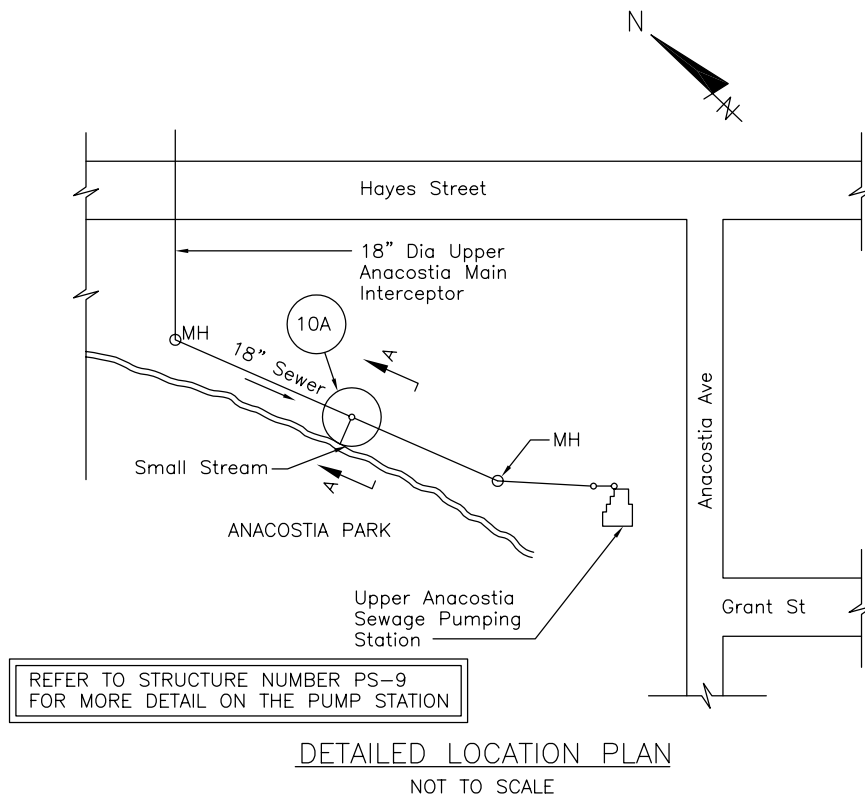


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 008

STRUCTURE NO.  
10

# STRUCTURE 10A – HAYES STREET AND ANACOSTIA AVE. N.E.

STRUCTURE 10A IS AN 18 INCH OVERFLOW ON THE 18 INCH UPPER ANACOSTIA MAIN INTERCEPTOR INTO A SHALLOW UNIMPROVED STREAM. THE OVERFLOW IS AN EMERGENCY RELIEF FOR THE UPPER ANACOSTIA SEWAGE PUMPING STATION. REFER TO STRUCTURE BOOK. NUMBER PS-9 FOR MORE DETAIL ON THE PUMP STATION.



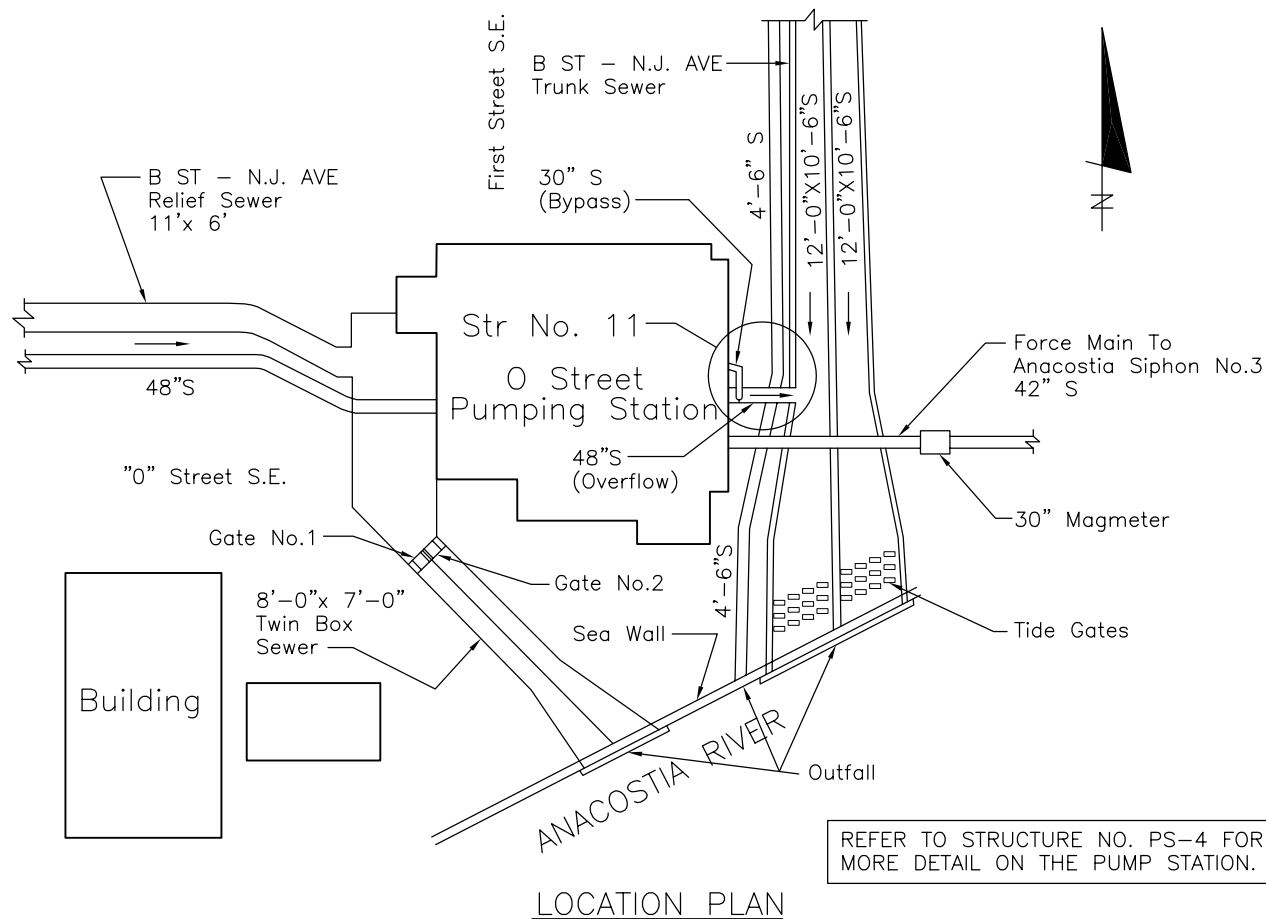
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 061

STRUCTURE NO.  
10a



## STRUCTURE NO.11 "O" STREET SEWAGE PUMPING STATION S.E.

This Pumping Station has an Emergency Overflow and a Bypass. Normally the Pumping Station handles the sewage by pumping it through a 42-inch line to the 60-inch Siphon, then to the Outfall Sewer which conveys it to the Blue Plains WasteWater Treatment Plant. The 30-inch Bypass is provided for Emergency Pumping of Sewage Flow into the 48-inch Overflow Line, which discharges into the Anacostia River. Also, there is an Emergency Automatic Overflow through the 48-inch line when sewage levels reach an elevation of -6.00 feet. Refer to Structure No. PS-4 for more detail on the Pump Station. In addition to these two Overflows, the "Storm" side of the Pumping Station carries Combined System Overflows originating at Structure No. 15, 15a, 15b and 15c.

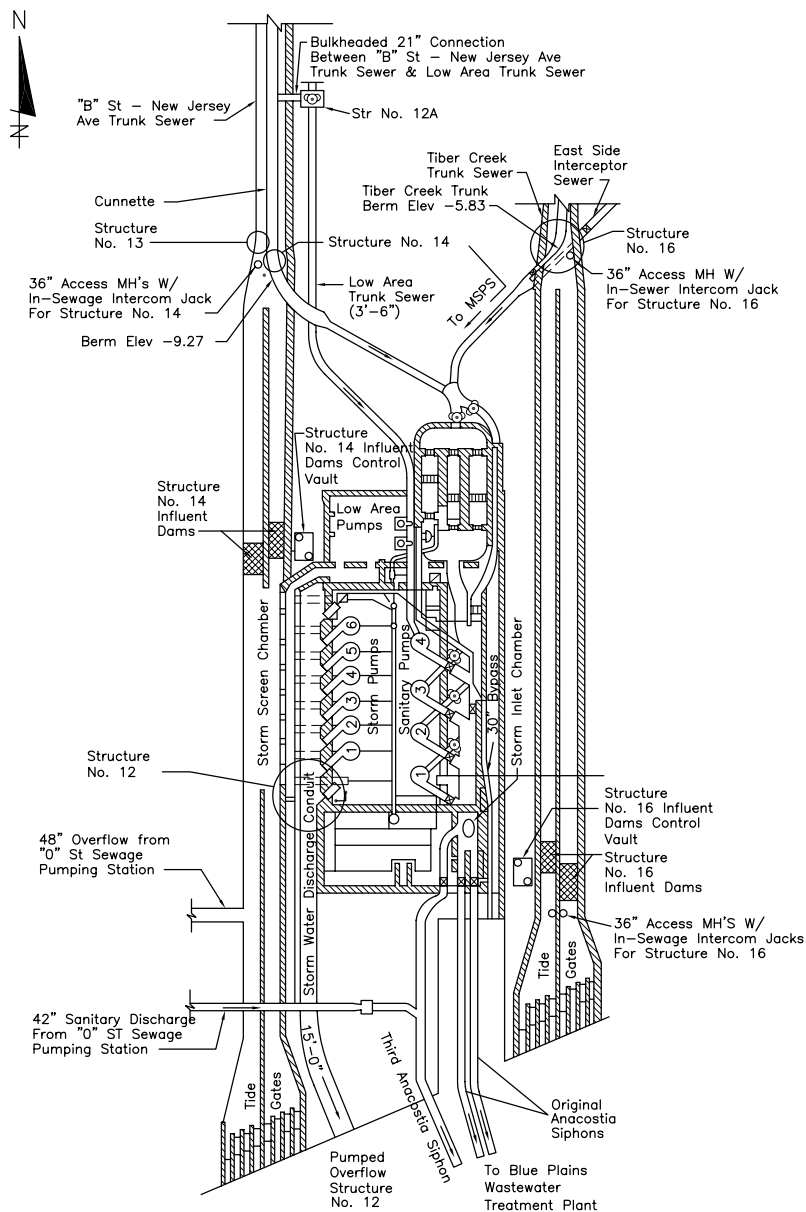


LOCATION PLAN

"O" STREET SEWAGE PUMPING STATION  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 011a

STRUCTURE NO.  
11



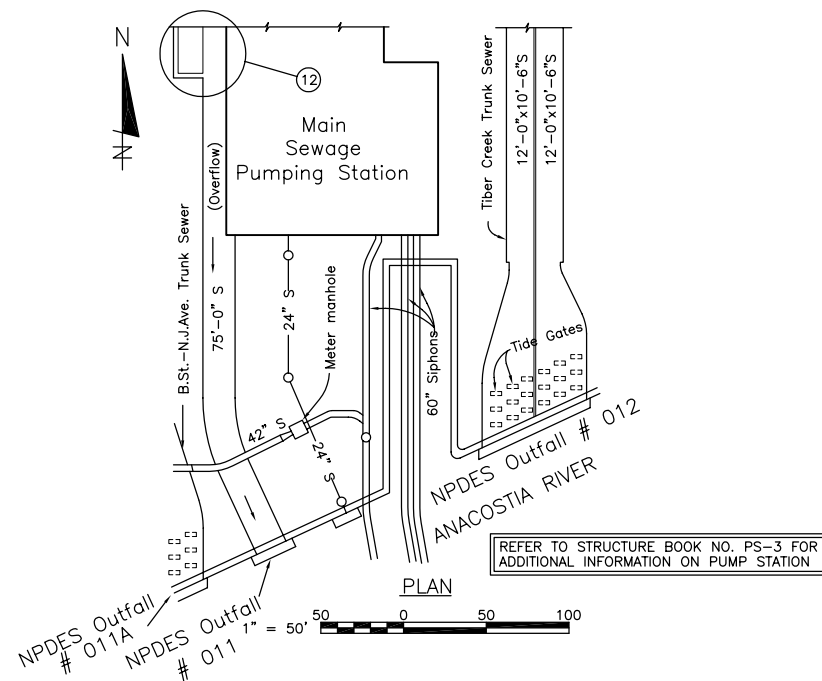
## MAIN SEWAGE PUMPING STATION

NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 011

STRUCTURE NO. 12, Storm Pump Discharge at the Main Sewage Pumping Station, S.E. This is a 15-ft span overflow conduit, approximately 400 ft. long, which conducts the discharge of the storm-water pumps in the Main Sewage Pumping Station to the Anacostia River.

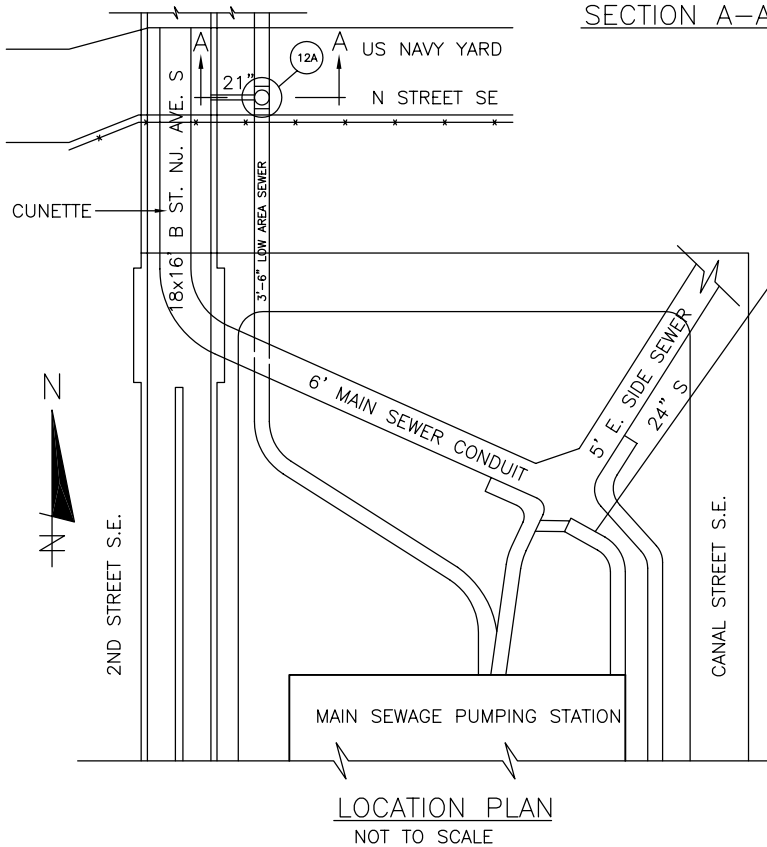
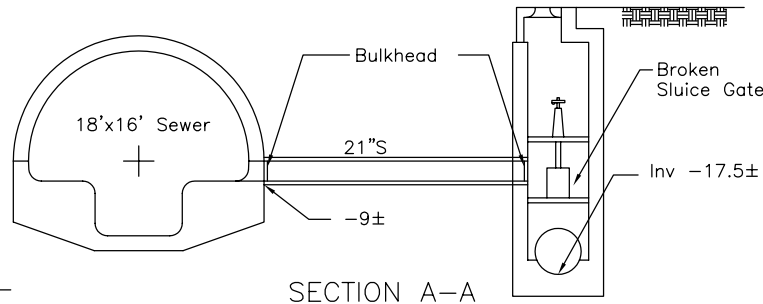
The pumps are operated when the levels in the combined wet well (shared with the sanitary pumps) are elevated due to storms.



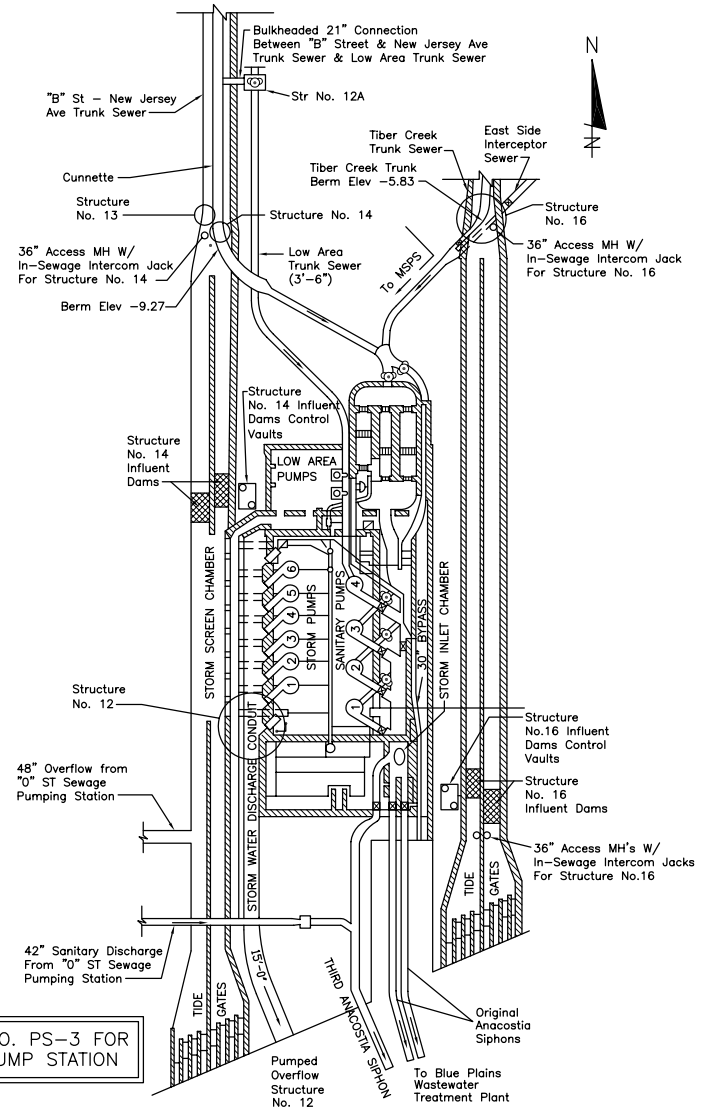
STRUCTURE NO.  
12

# STRUCTURE 12A - N STREET BETWEEN 2ND & CANAL STREETS S.E.

This Structure contains a broken Sluice Gate and Hand Operator as of 5/7/92. The Gate is blocked partially open and the 21-inch connection from the B Street and New Jersey Avenue Sewer is bulkheaded. The original intent was to drain the B Street and New Jersey Avenue Sewer into the low area sewer to the Main Sewage Pumping Station.



REFER TO STRUCTURE BOOK NO. PS-3 FOR  
ADDITIONAL INFORMATION ON PUMP STATION



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

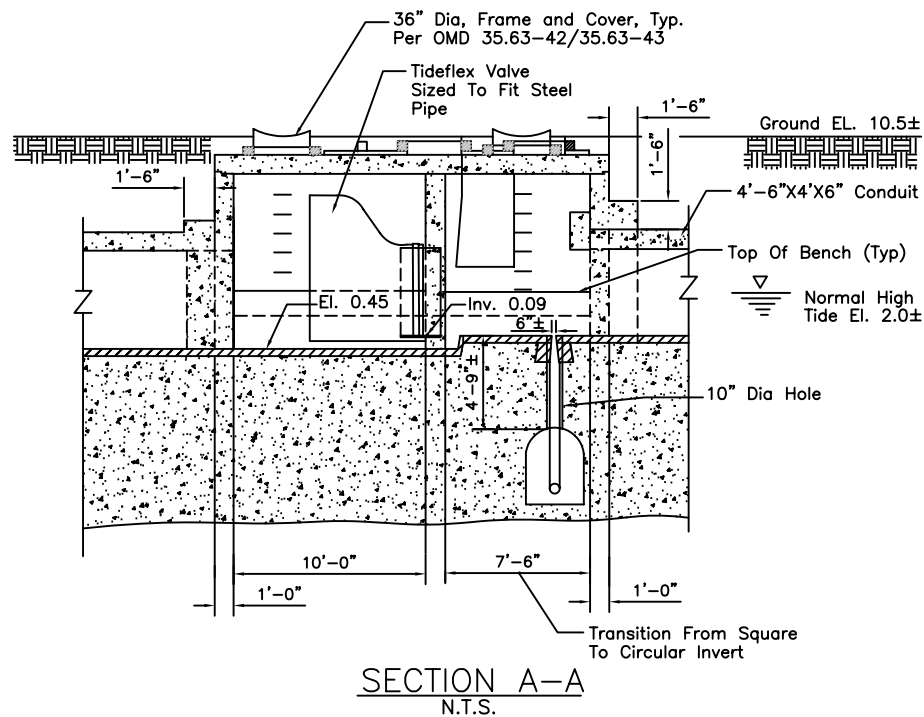
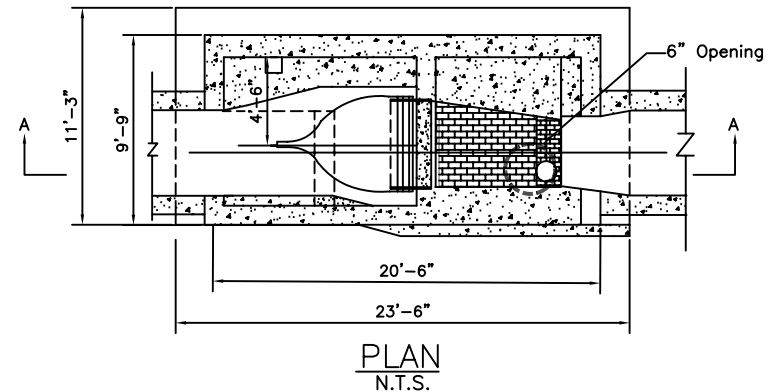
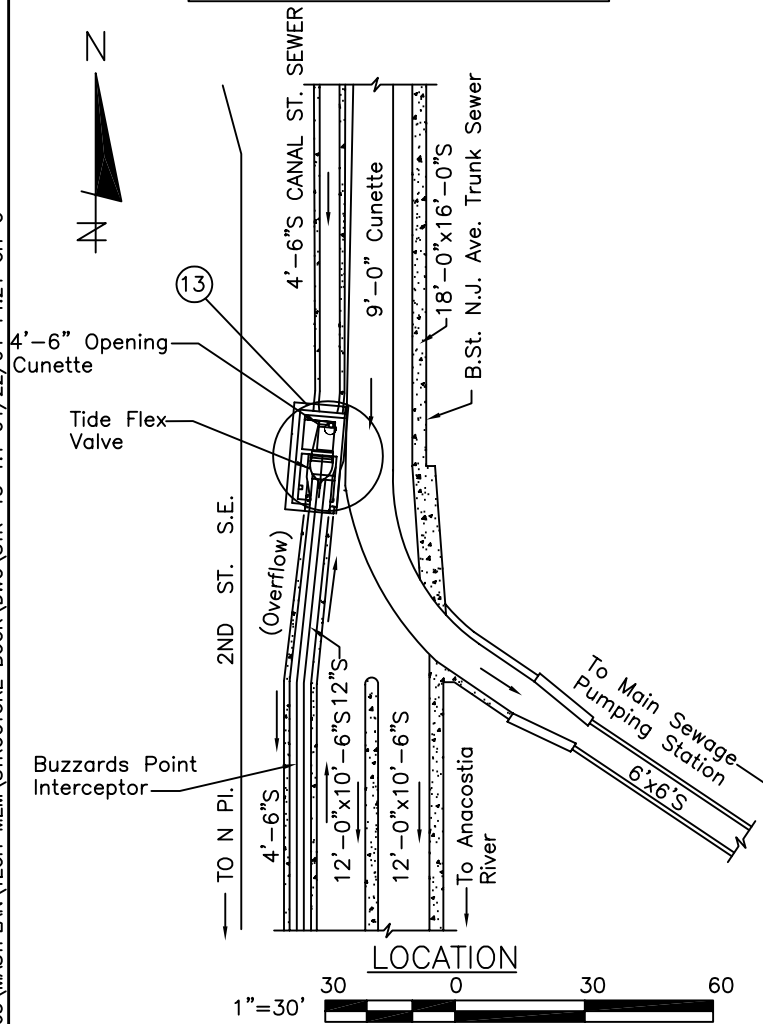
STRUCTURE NO.  
12a

**STRUCTURE NO. 13, 2nd Street about 300 ft. North of N Place, S.E.**

This structure has a slot-type regulator, the Storm Overflow is formed by a continuation of the 4-ft. 6-in. Canal Street Sewer. The 4-ft. 6-in. Combined Sewer enters the Overflow Structure, where there is a slot about 6-in. by 3ft. 6-in. at the top of a vertical 10-inch pipe, through which the Dry-Weather Flow falls to the 12-inch Buzzards Point Interceptor in which it is conveyed to the B Street-New Jersey Avenue Trunk Sewer.

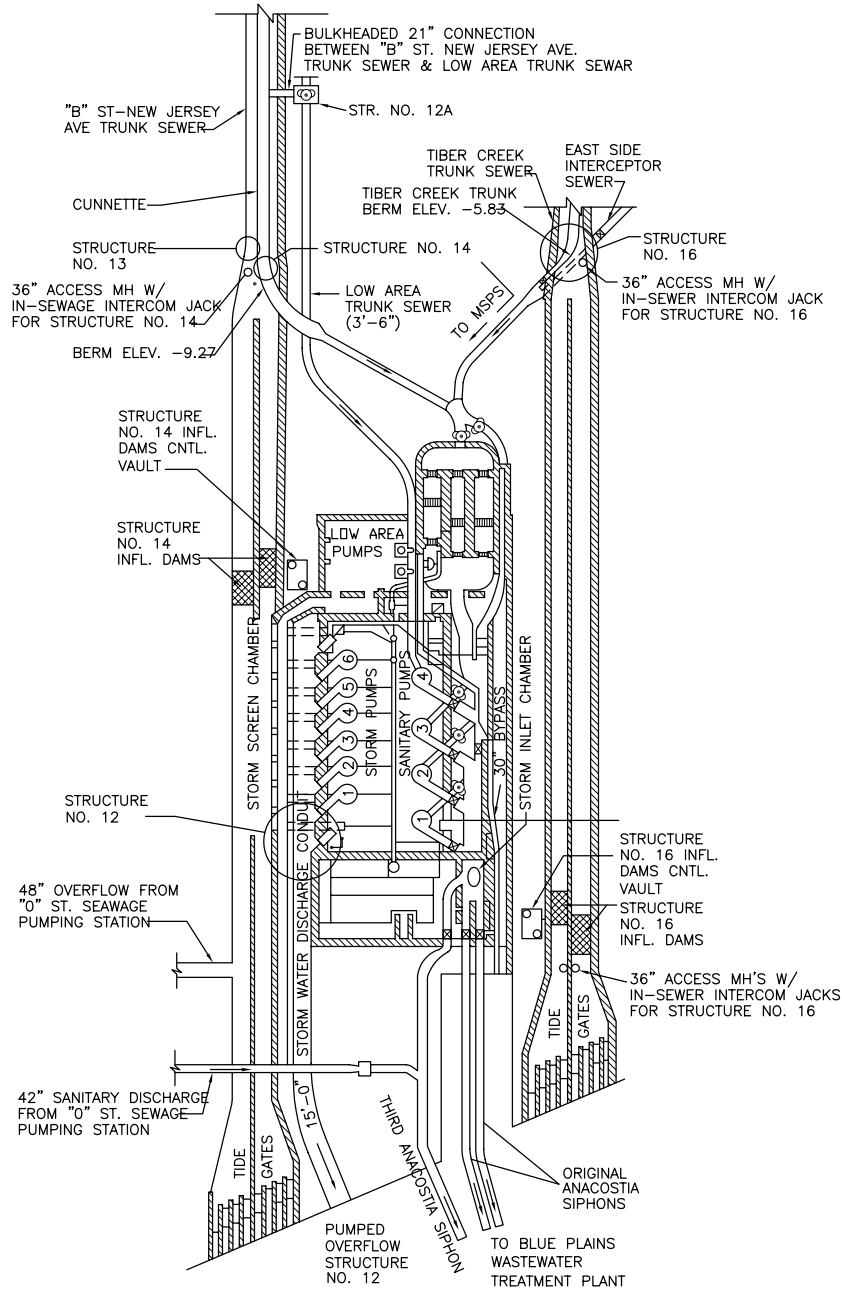
The 40ft. 6-in. Overflow line discharges to the Anacostia River. There is an Outlet Structure and Tide Gate at the Outlet.

REFER TO STRUCTURE BOOK NO. PS-3 FOR  
ADDITIONAL INFORMATION ON PUMP STATION



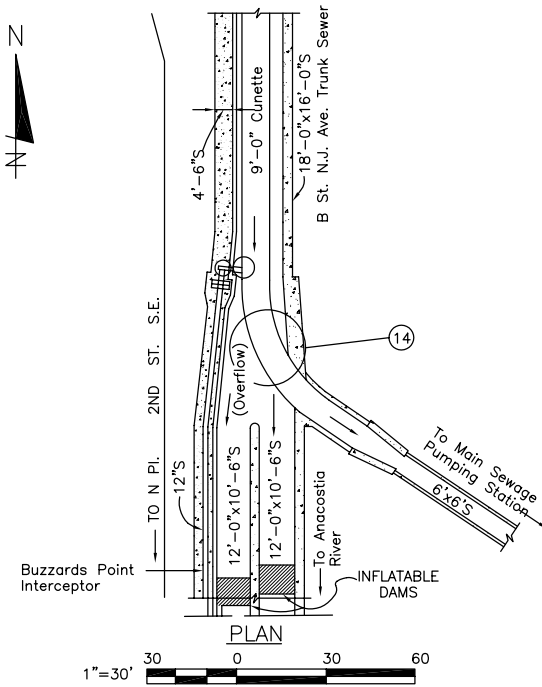
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 009

STRUCTURE NO.  
13



STRUCTURE NO. 14a - B Street - New Jersey Avenue Trunk Sewer, 2nd Street about 250 ft. North of N place S.E. This structure has a cunette-type regulator. The Overflow is from the crest of the cunette which is 4.36 ft. above the invert of the 18 ft. by 16 ft. horseshoe section, B Street -New Jersey Avenue Trunk Sewer. Dry Weather Flow is conveyed by a 6 ft. by 6 ft. Intercepting Sewer to the Main Sewage Pumping Station where the Combined Sewage Pumps lifts the sewage to flow to the Blue Plains Wastewater Treatment Plant. Overflow of the Trunk Sewer is further restricted by two inflatable dams in the 12 ft. by 10 ft. 6 inch horseshoe sections leading to the Anacostia River. Storm Combined Flows are delivered for treatment up to the capacity of the downstream sewer network. There is an Outlet Structure and Tide Gates at the Outlet.

REFER TO STRUCTURE BOOK NO. PS-3 FOR  
ADDITIONAL INFORMATION ON PUMP STATION



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 011a

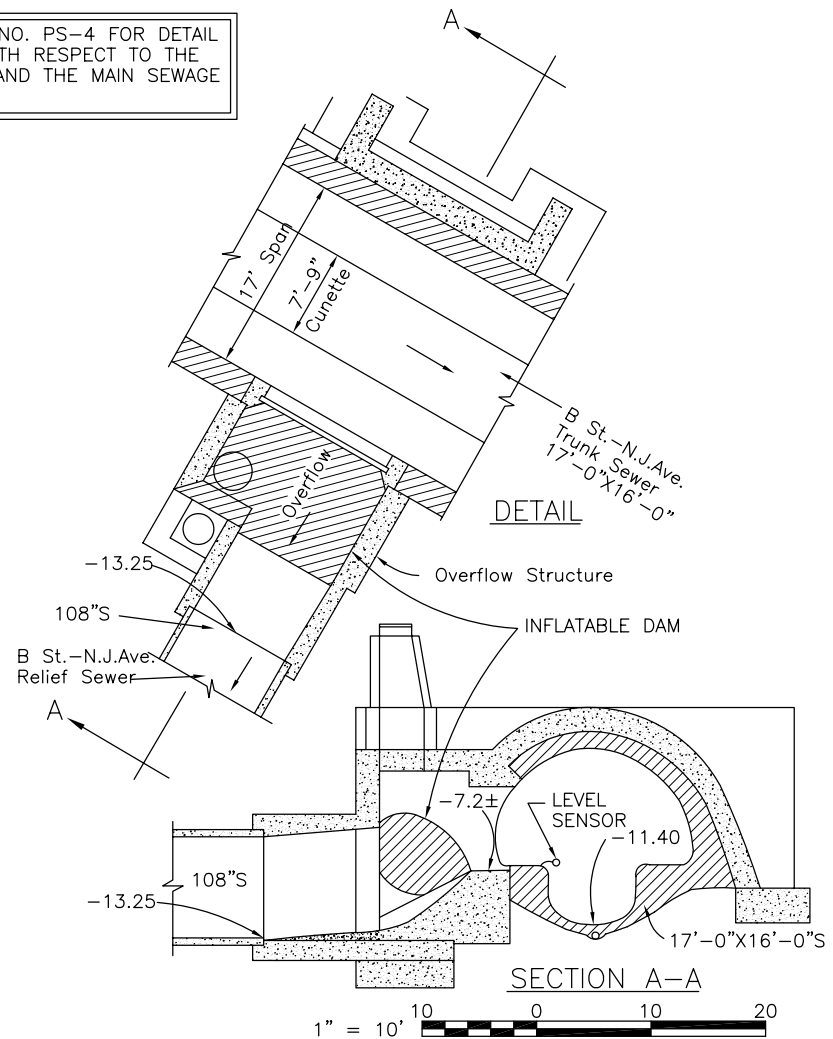
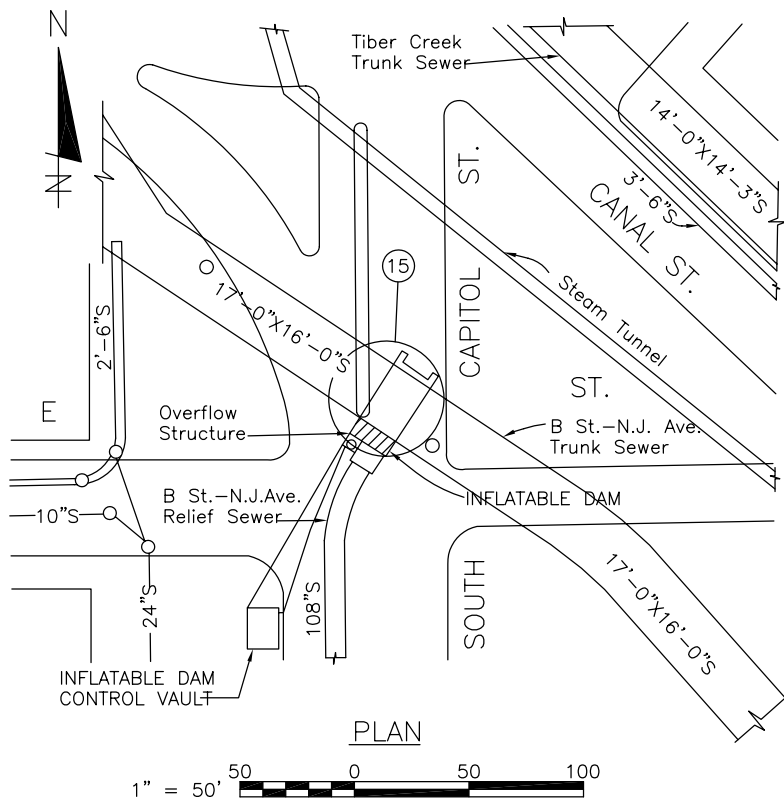
MAIN SEWAGE PUMPING STATION

NOT TO SCALE

STRUCTURE NO.  
14

STRUCTURE NO.15-B Street-New Jersey Avenue Relief Sewer, South Capitol and E Streets. Structure No. 15 is a side outlet weir type structure with a masonry weir crest that serves as the base for an inflatable dam about 4.2 feet above the invert of the 17 ft. by 16ft. Combined Sewage Trunk Sewer. Overflow is into a 108-inch Relief Sewer. The Inflatable Dam retains flow up to the capacity of the Trunk Sewer System. Excess Flow in the 108-inch Relief Sewer is to the O Street Storm Water Pumping Station which discharges to the Anacostia River.

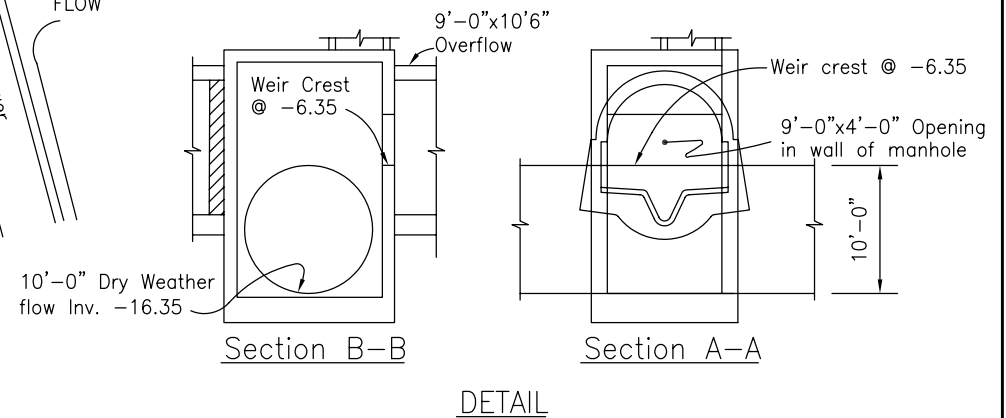
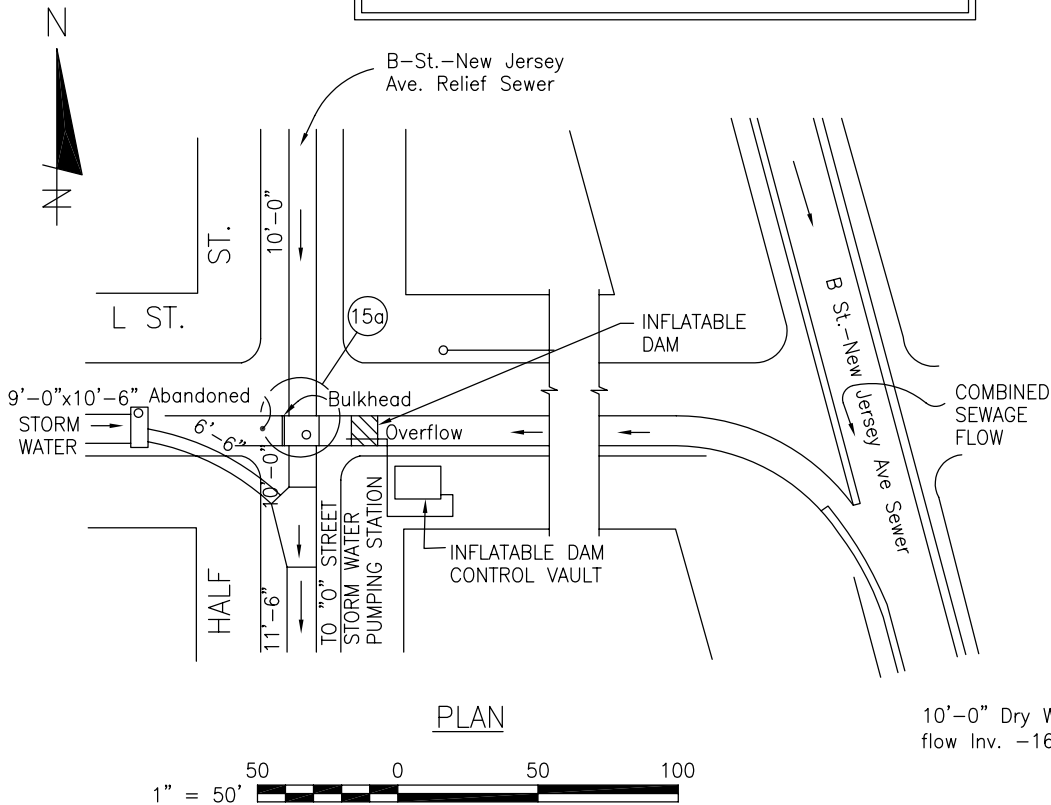
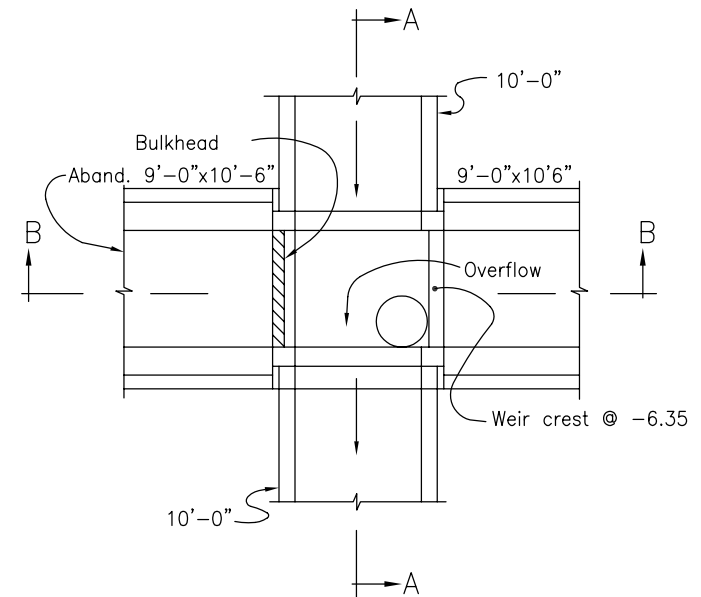
REFER TO STRUCTURE BOOK NO. PS-4 FOR DETAIL OF SCHEMATIC FLOW PLAN WITH RESPECT TO THE O STREET PUMPING STATION AND THE MAIN SEWAGE PUMPING STATION.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 010

STRUCTURE NO.  
 15

REFER TO STRUCTURE BOOK NO. PS-4 FOR DETAIL OF SCHEMATIC FLOW PLAN WITH RESPECT TO THE O STREET PUMPING STATION AND THE MAIN SEWAGE PUMPING STATION.

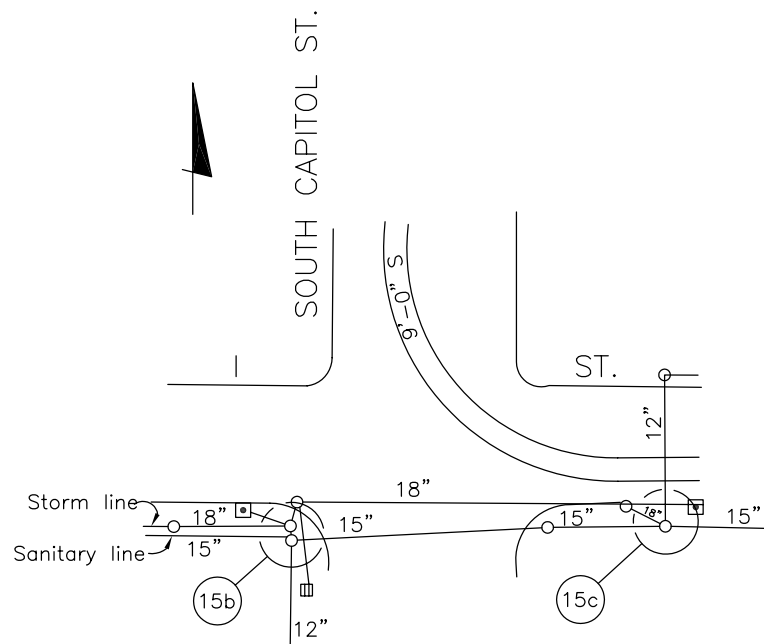


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 010

STRUCTURE NO.  
15a

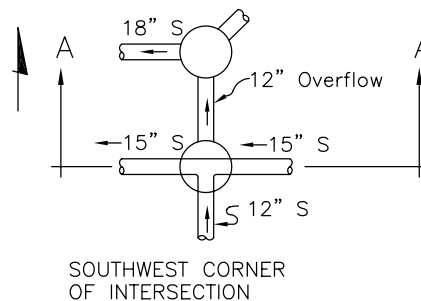
STRUCTURE NO. 15b. South Capitol and I Sts., S.W. Sanitary Sewage enters the Manhole via two 15-inch and 12-inch Sewers and normally exits through a continuation of the 15-inch line. Overflow may occur through a 12-inch Sewer location 22 inches above the Manhole invert. The Overflow ultimately discharges to the B St.-New Jersey Avenue Relief Sewer.

STRUCTURE NO. 15c. South Capitol and I Streets, S.E. Sanitary Sewage enters the Manhole via two 12-inch and 15-inch Sewers and normally exits through a continuation of the 15 in. line. Overflow may occur through a 18-inch Sewer location 18 inches above the Manhole invert. The Overflow ultimately discharges to the B St.-New Jersey Ave. Relief Sewer.

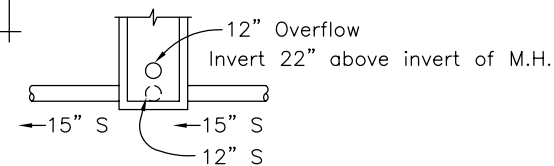


PLAN

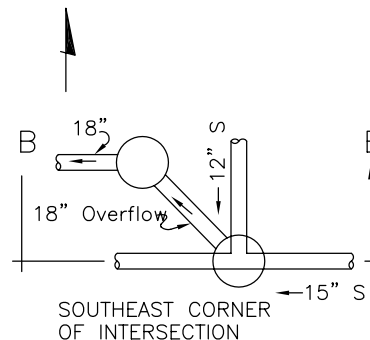
1" = 50'



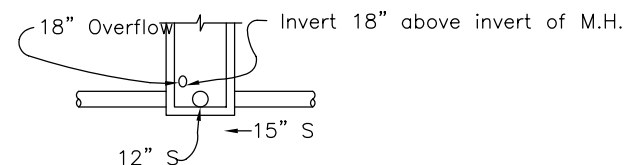
15b



SECTION A-A



15c



SECTION B-B

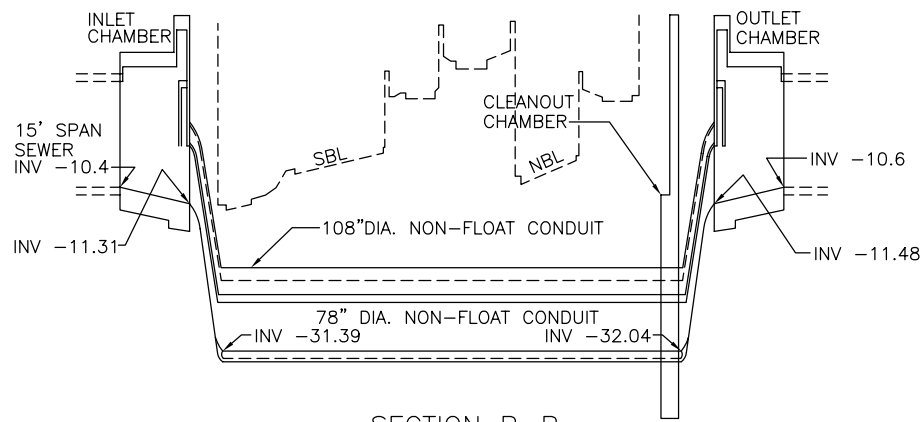
DETAILS

NOT TO SCALE

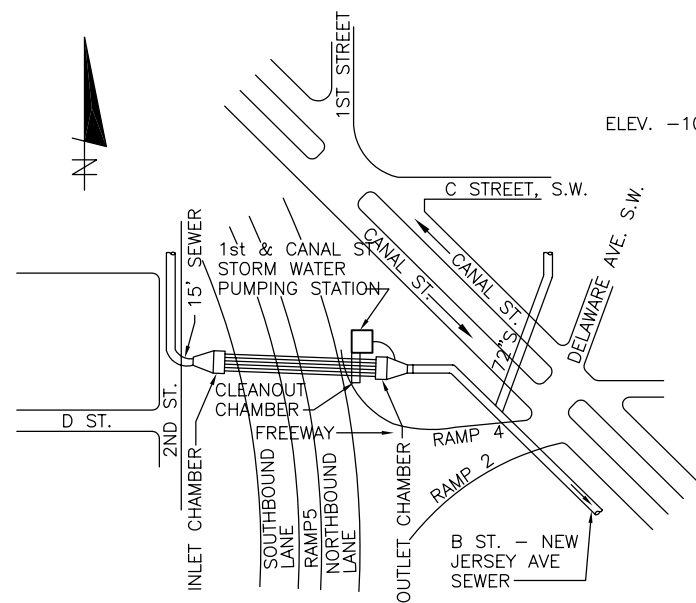
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 010

STRUCTURE NO.  
15b, 15c





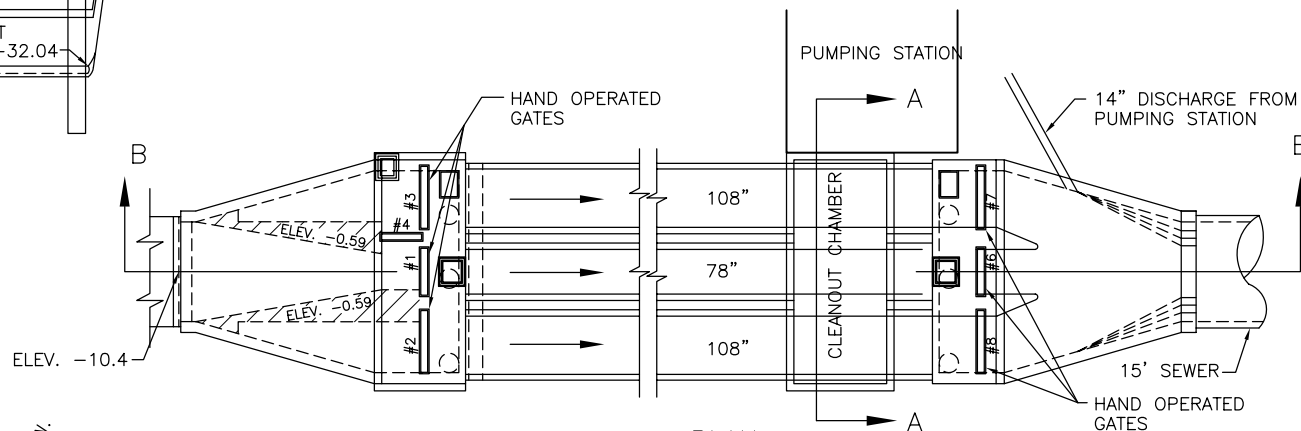
SECTION B-B



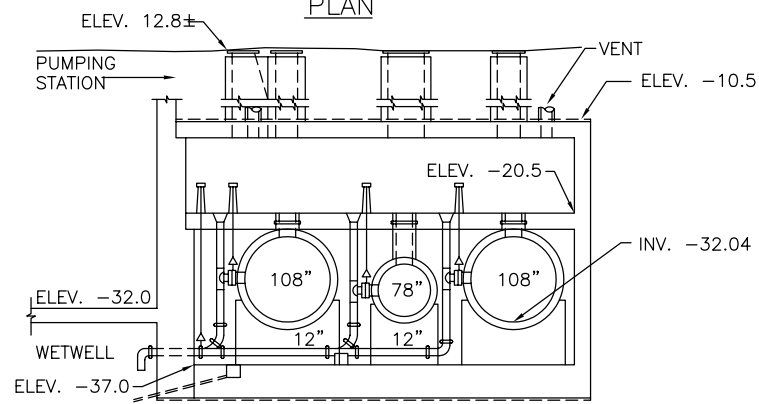
LOCATION PLAN  
NOT TO SCALE

# STRUCTURE 15D - B STREET - NEW JERSEY AVENUE SIPHON

THE SIPHON UNDER THE FREEWAY HAS TWO 108 INCH DIAMETER AND ONE 78 INCH DIAMETER CONDUITS. THERE ARE GATES TO CLOSE OFF EACH OF THE SEPARATE CONDUITS IN THE INLET AND OUTLET CHAMBERS. THE CLEANOUT CHAMBER INCLUDES PIPING TO DEWATER THE UNUSED CONDUITS INTO THE WETWALL OF THE 1st AND CANAL STREET STORM WATER PUMPING STATION ADJACENT TO THE CLEANOUT CHAMBER AND OUTLET STRUCTURE. NORMAL FLOW IS INTO THE 78 INCH CENTER SIPHON CONDUIT. GATES #3, #4 AND #7 WERE FOUND TO BE CLOSED. JUNE 1992.



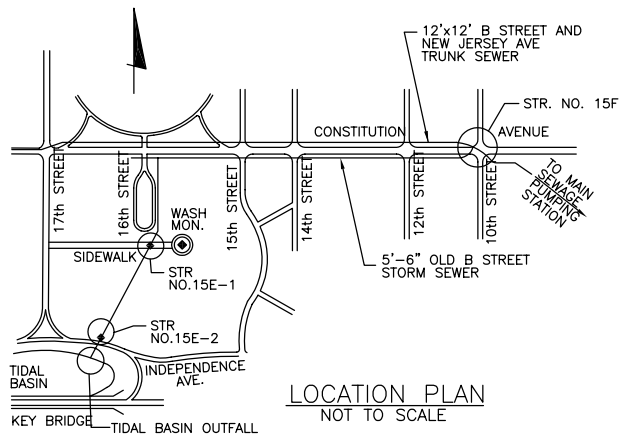
PLAN



SECTION A-A

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
15d



### STRUCTURE NO. 15E-1, 15E-2 & 15F

#### STRUCTURE NO. 15E-1 – WASHINGTON MONUMENT GROUNDS

This structure is located on the Washington Monument Grounds. The stop planks are normally left in the open position, this allows Storm Flow collected by the "Old" B Street Storm Sewer along Constitution Avenue to discharge into the Tidal Basin. Prior to a Potential flood event as defined in the District of Columbia's Flood Emergency Plan, the stop planks are lowered to the closed position. This prevents the inflow of water from the Tidal Basin due to the storm.

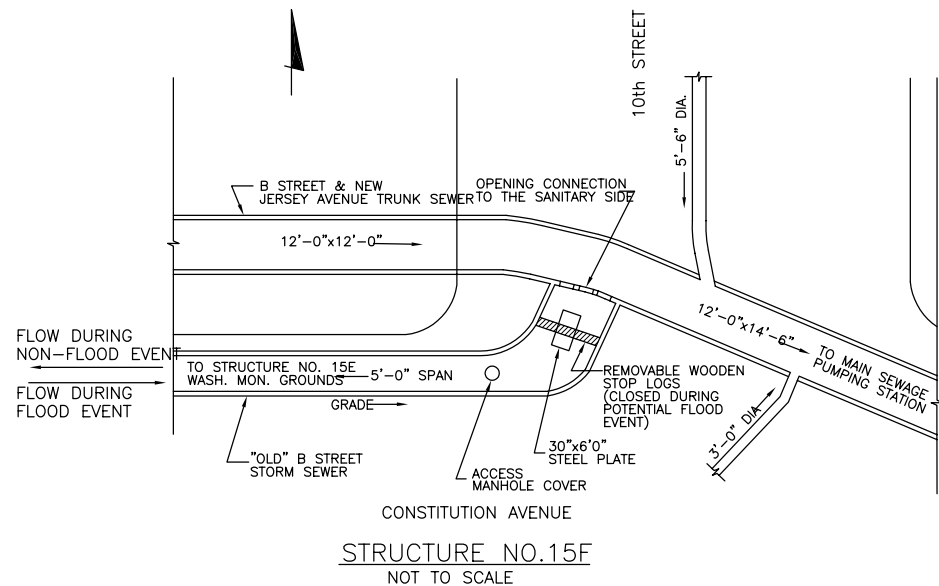
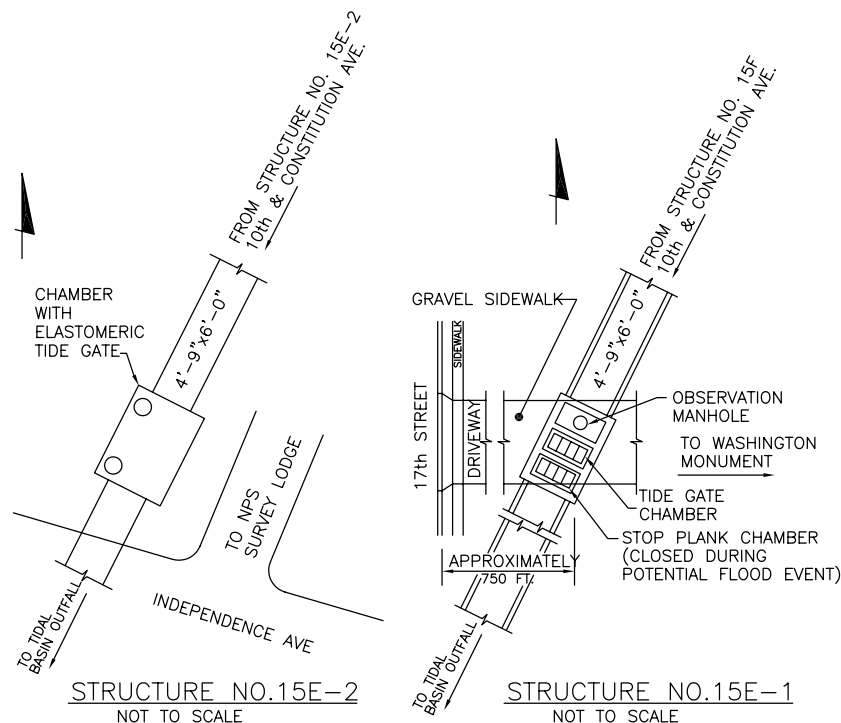
#### STRUCTURE NO. 15E-2 – INDEPENDENCE AVE EAST OF 17TH ST

This structure contains an elastomeric tide gate to prevent Tidal Basin water from entering the B St/NJ Ave Sewer at Str 15F.

#### STRUCTURE NO. 15F – 10th STREET CONSTITUTION AVENUE

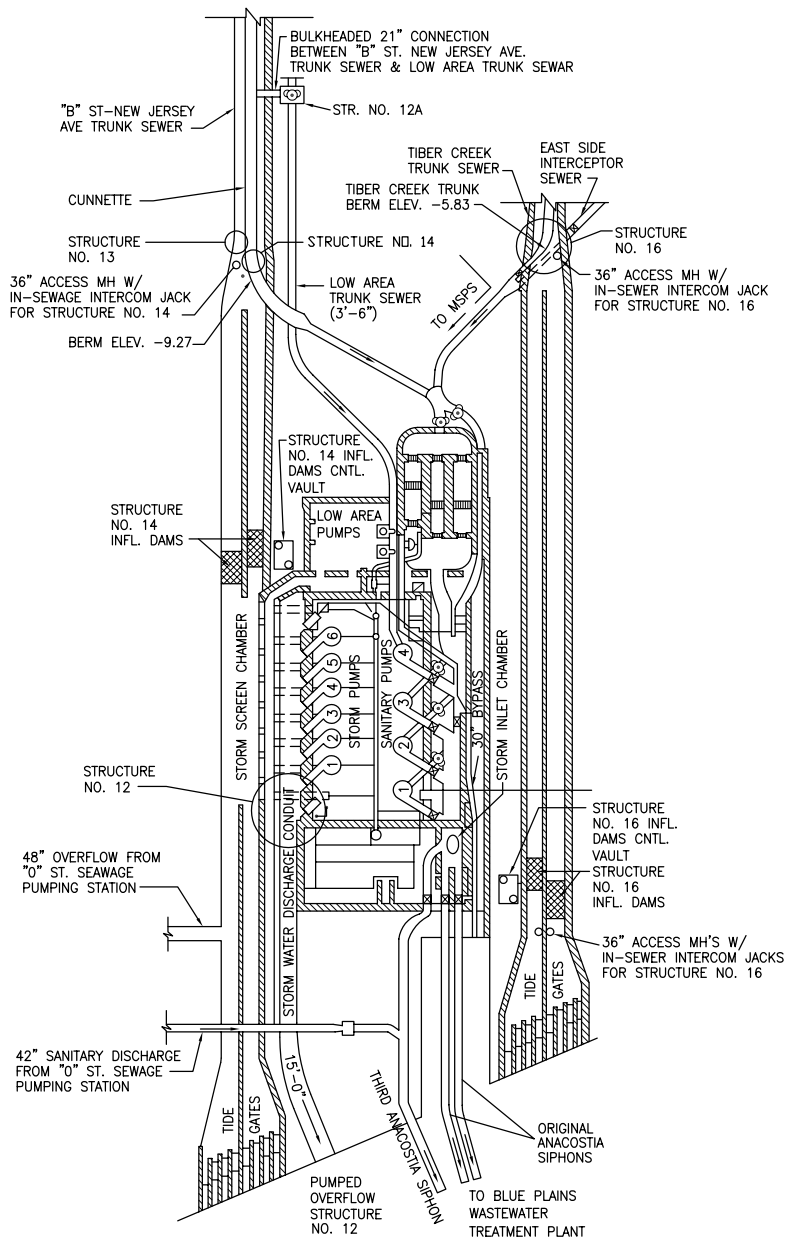
This structure is located near the northwest corner of the intersection of 10th Street and Constitution Avenue. This structure provides a connection between the "Old" B Street Storm Sewer with the B Street & New Jersey Avenue Trunk Sewer. The stop logs are normally left in place (closed position). This prevents any inflow from entering the Sanitary Trunk Sewer. Also, during a non-flood storm event the stop logs prevent the storm flow from entering the Sanitary Trunk Sewer. Storm water flows opposite grade or East to West down the Storm Sewer to Structure No. 15E (Washington Monument) then out to the Outfall at the Tidal

During a potential flooding event from high water on the Potomac River, the stop logs are then removed to allow Storm Flow that is collected by the "Old" B Street Storm Sewer along Constitution Avenue and tributaries to enter the Sanitary Trunk Sewer. This will prevent the flooding of Constitution Avenue.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

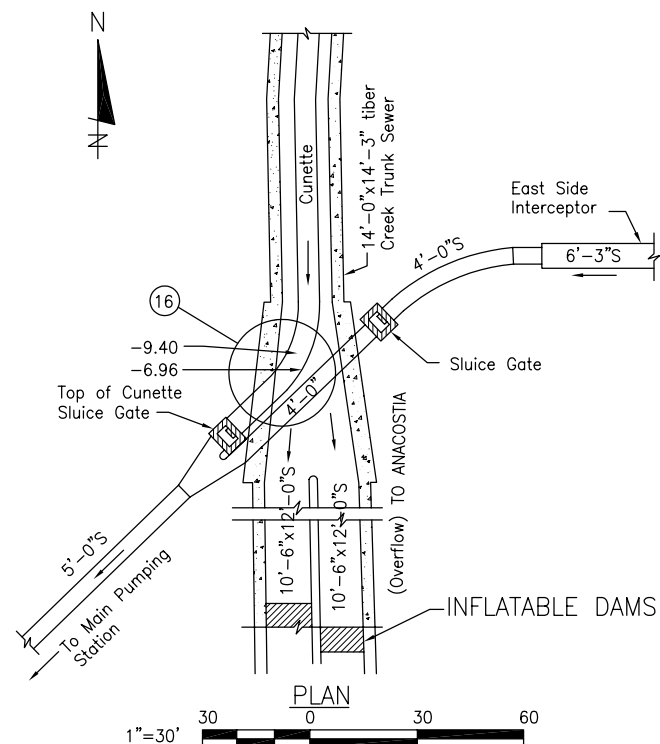
STRUCTURE NO.  
15e-1, 15e-2, 15f



STRUCTURE NO. 16 -Tiber Creek Trunk Sewer, at Main Sewage Pumping Station S.E. This structure has a cunette-tyoe regulator. The Strom Overflow is formed by the crest of the cunette which is 2.44 feet above the invert of the Tiber Creek Trunk Combined Sewer. Dry Weather Flow is conveyed into the Combined Sewage Pumps in the Main Sewage Pumping Station. Overflow is into two 10 ft. 6 inch by 12 ft. horseshoe sewers which are further restricted by inflatable dams which limit the Overflow into the Anacostia River to that which can not be accommodated by the Main Sewage Pumping Station Combined Sewage (Sanitary) Pumps.

There are Tide Gates at the Outlet.

REFER TO STRUCTURE BOOK NO. PS-3 FOR  
ADDITIONAL INFORMATION ON PUMP STATION



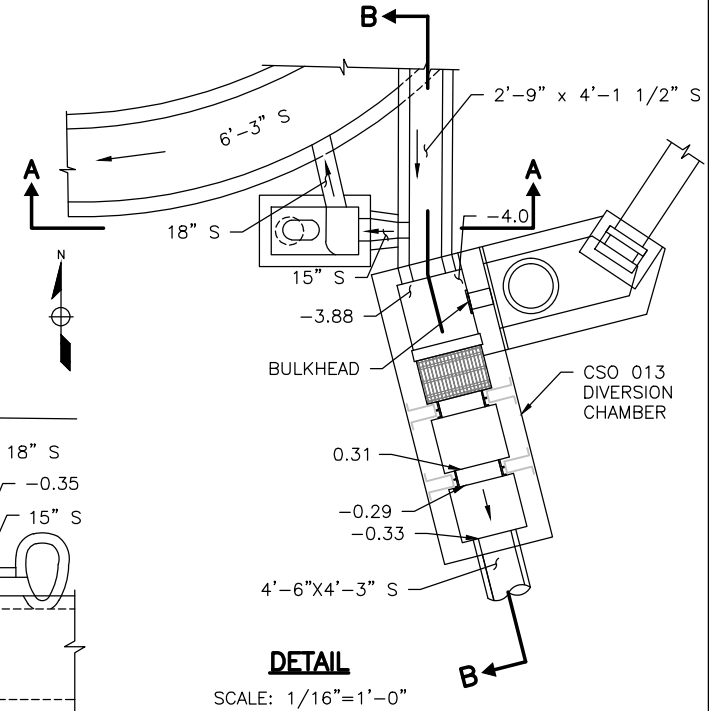
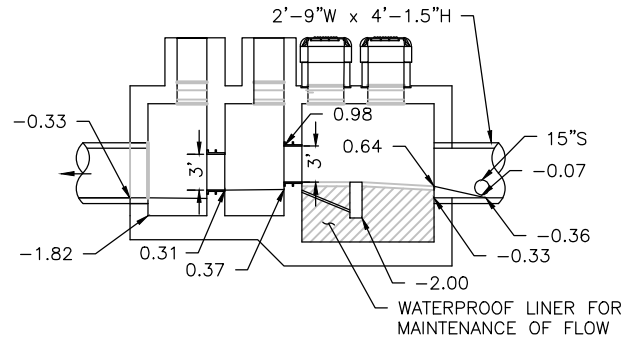
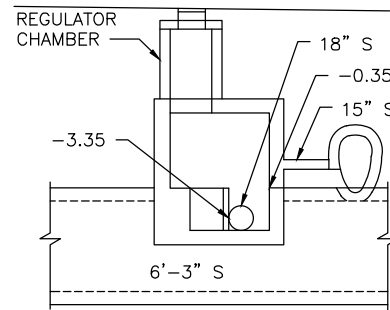
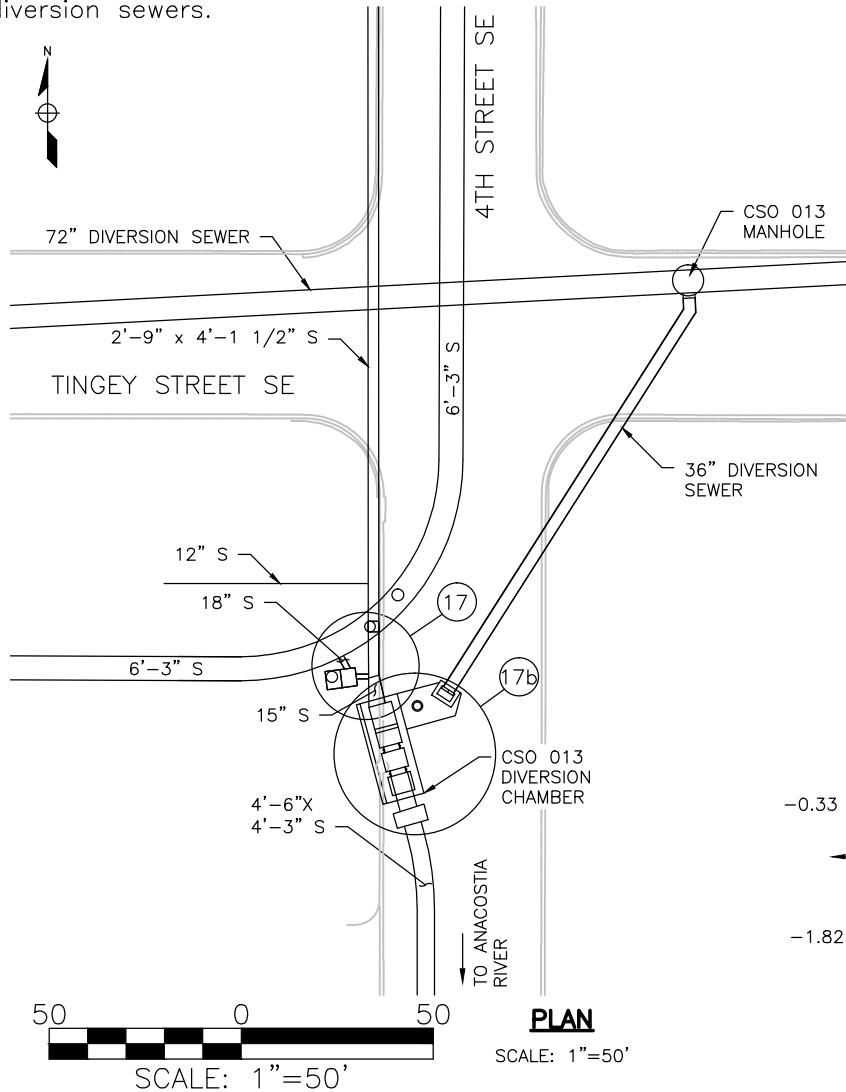
## MAIN SEWAGE PUMPING STATION

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 012

NOT TO SCALE

STRUCTURE NO.  
16

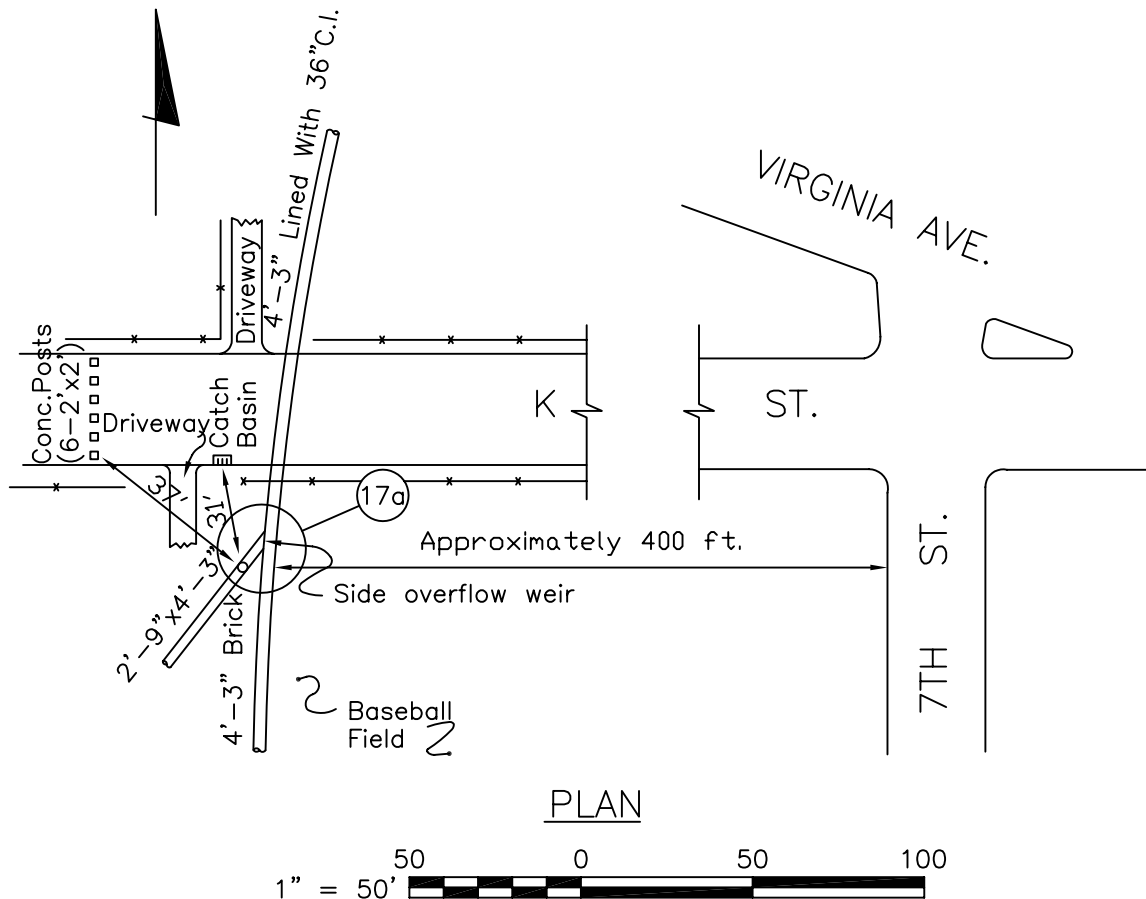
STRUCTURE NO. 17, 4th and N Streets SE both extended in the Naval Gun Factory.  
A dam in the 4th Street SE Combined Sewer, diverts normal dry weather flow through an 18" sewer into the 6'-3" east side interceptor. Storm flows overflow the dam into the CSO 013 diversion chamber and continues to overflow into the Anacostia River. Once Blue Plains Tunnel is operational in 2018, storm flows up to the diversion capacity of CSO 013 diversion chamber will be diverted to the Blue Plains Tunnel via diversion sewers.



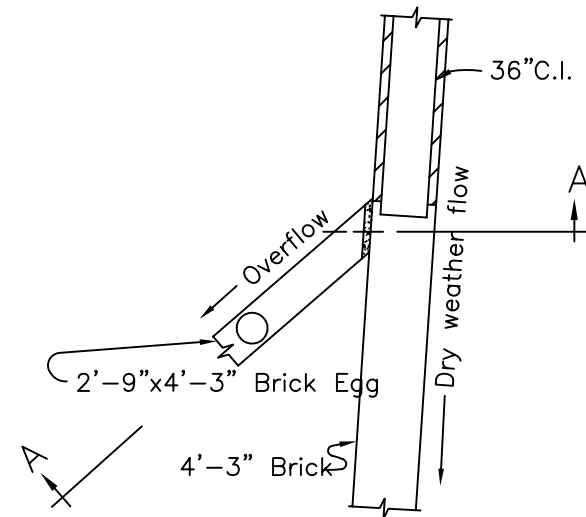
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL # 013

STRUCTURE NO.  
17, 17b

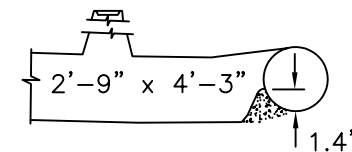
STRUCTURE NO. 17a, K St between 6th and 7th Streets, S.E. Normal Dry Weather Flow is conveyed through a 4ft. - 3 in. circular sewer South to subsequent Overflow Structure (No.18) at 6th and M Sts S.E. Overflow spills over a 1.4 ft. high side weir into a 2'-9" by 4'-3" egg-shaped sewer which leads to a subsequent Overflow Structure (No.17) at 4th and N Streets, S.E.



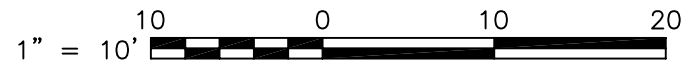
PLAN



DETAIL



SECTION A-A



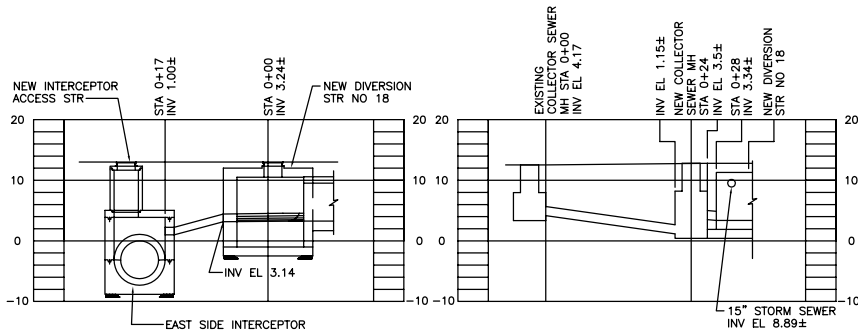
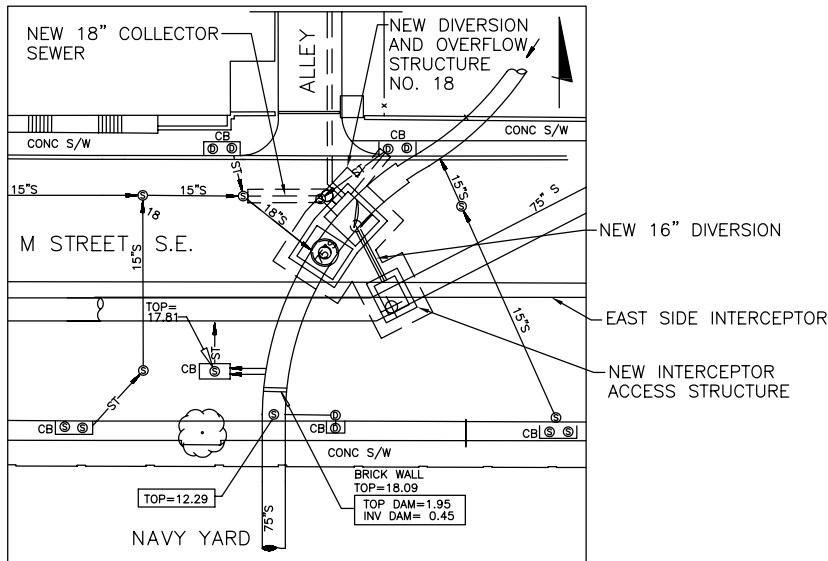
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 013

STRUCTURE NO.  
17a

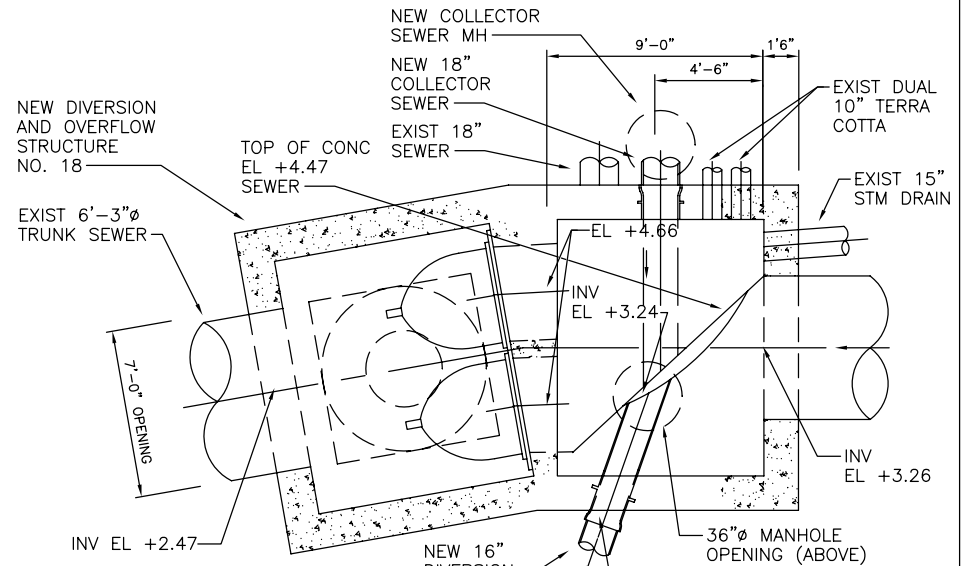
FILE: H:\1163\MAST PLAN\TECH MEMO\WASA STRUCTURE BOOK\CURRENT\STRUCTURE\STR-18.DWG

# STRUCTURE NO. 18 6th STREET AND M STREET SE

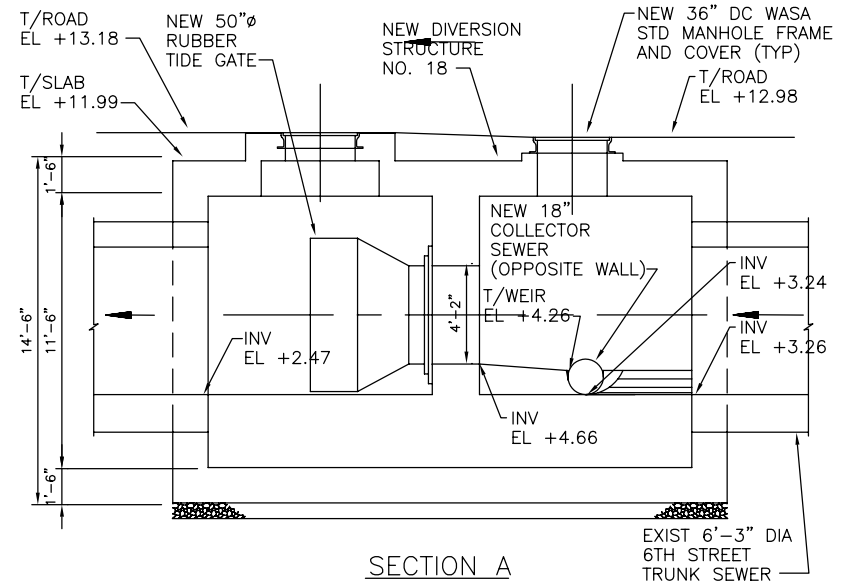
A Concrete Weir and 16" Pipe divert the Dry Weather Flow to the Eastside Interceptor. Flows beyond the capacity of the Diversion Overflow the Weir, and pass elastomeric Tide Gates before overflowing to the Anacostia River via a 6'-3" Overflow Line.



PROFILE  
NTS



SECTIONAL PLAN  
NTS



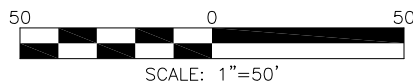
SECTION A  
NTS

STRUCTURE NO.  
18

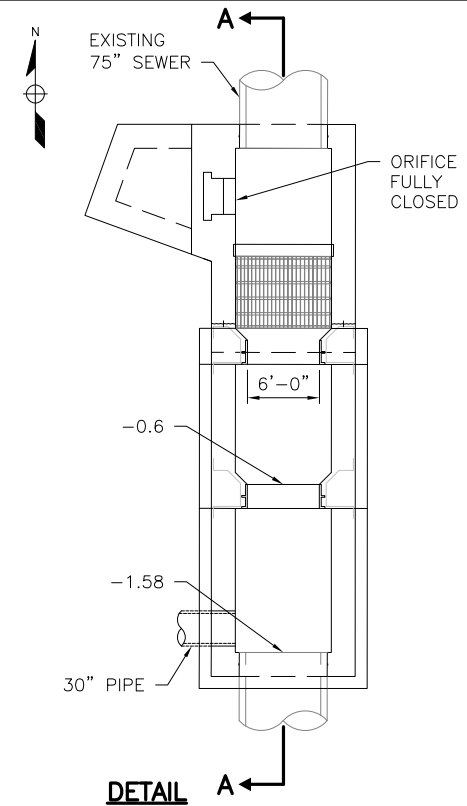
REVISED BY: EPMC-3A  
REVISED DATE: JANUARY 2006  
ASSOCIATED NPDES OUTFALL # 014

# STRUCTURE NO. 18a, Tingey Street SE and 5 1/2 Street SE

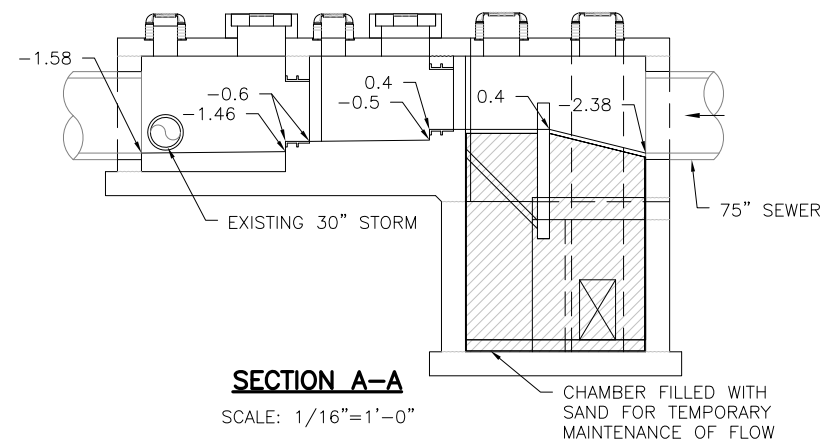
The overflows from Structure 18 passes through the CSO 014 Diversion Chamber, via 75" Outfall Sewer, and continues to overflow into the Anacostia River. Once Blue Tunnel is operational in 2018, overflows from Structure 18 will be diverted to the tunnel up to the diversion capacity of CSO 014 Diversion Chamber.



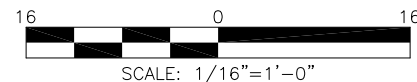
**PLAN**  
SCALE: 1"=50'



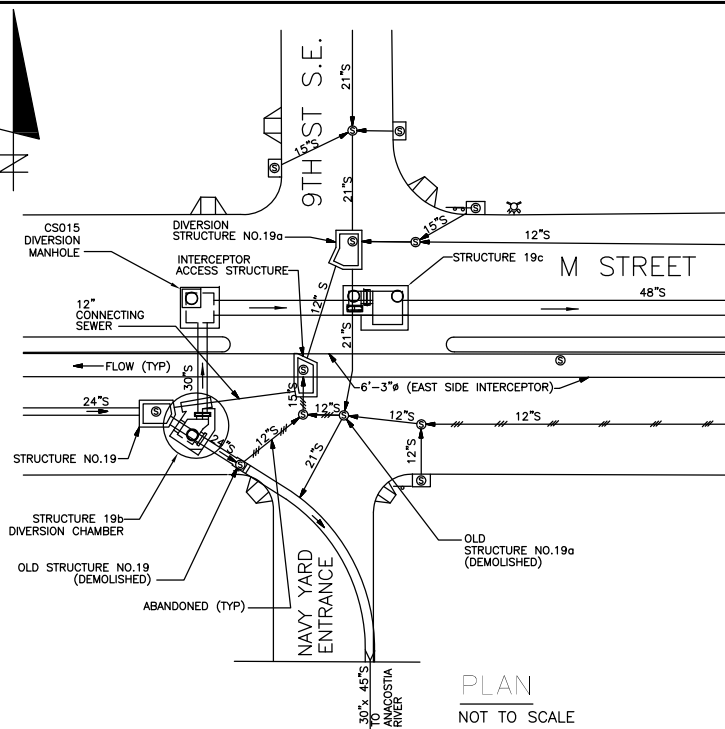
**DETAIL A-A**  
SCALE: 1/16"=1'-0"



**SECTION A-A**  
SCALE: 1/16"=1'-0"

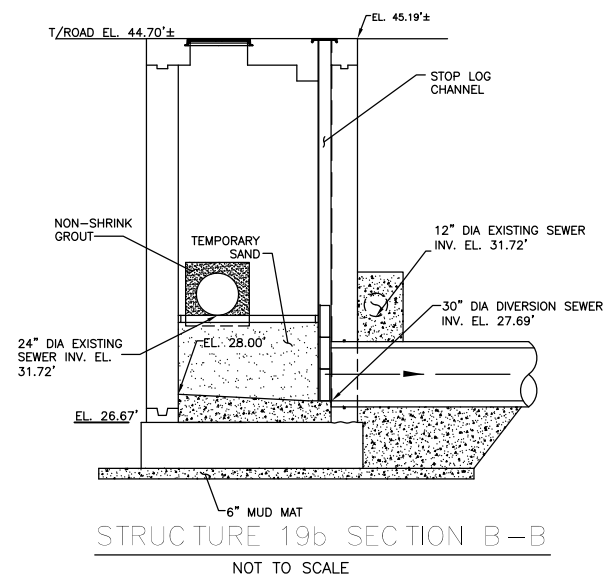
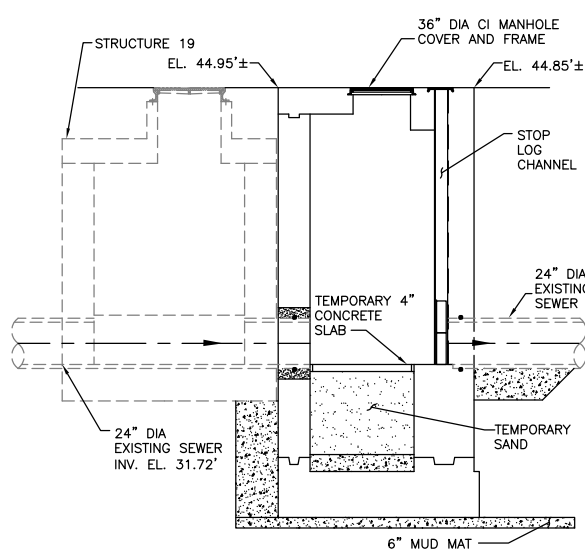
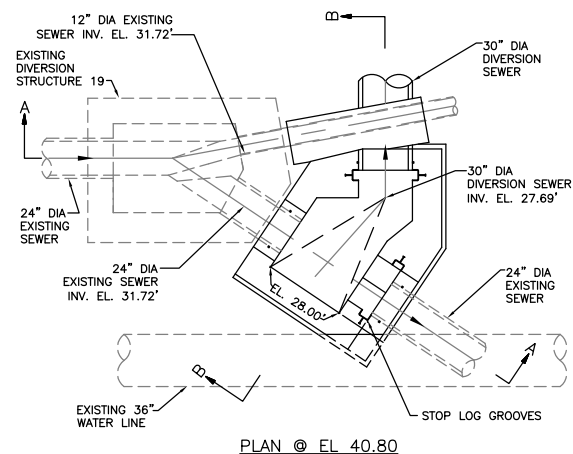
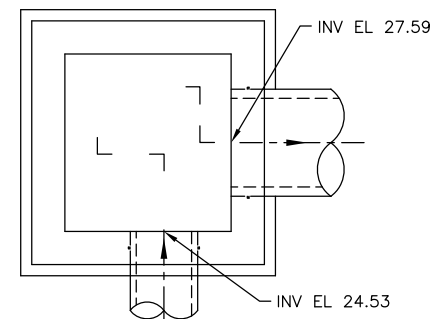
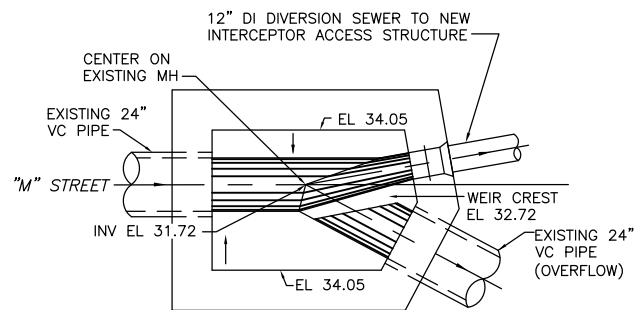


STRUCTURE NO.  
18a



### Structure No. 19 & 19b, 9th and M streets, S.E.

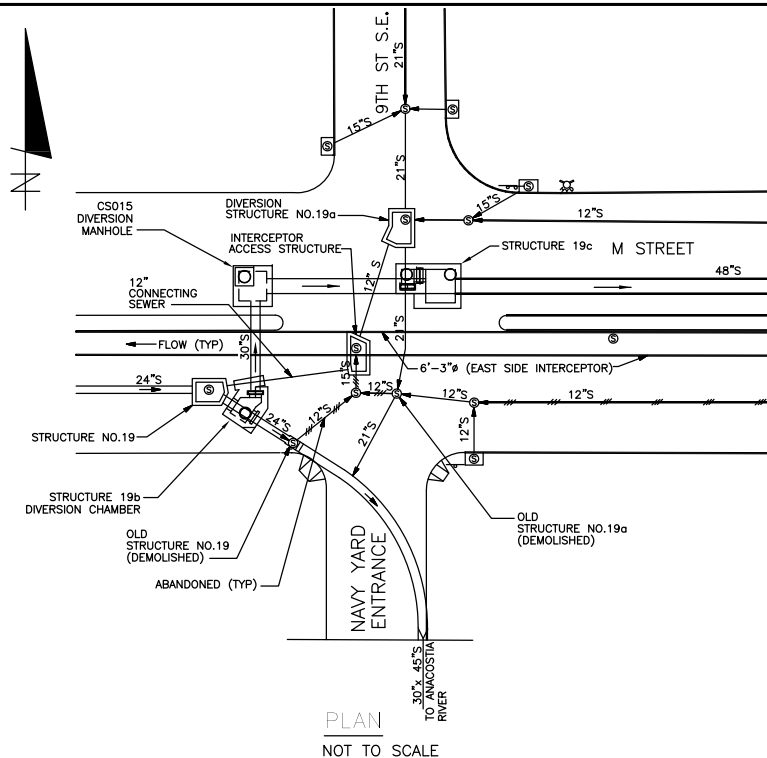
Overflow from the 24" combined sewer spills over a weir at Structure No. 19 into a 24-inch overflow pipe, flows through Structure No. 19b and continues to overflow into the Anacostia river. Once Anacostia River Tunnel is operational, overflows from Structure 19 will be diverted to the tunnel up to the diversion capacity of Structure No. 19b. Normal dry weather flow from Structure No. 19, continues through a 12-inch diversion sewer to East Side Interceptor.



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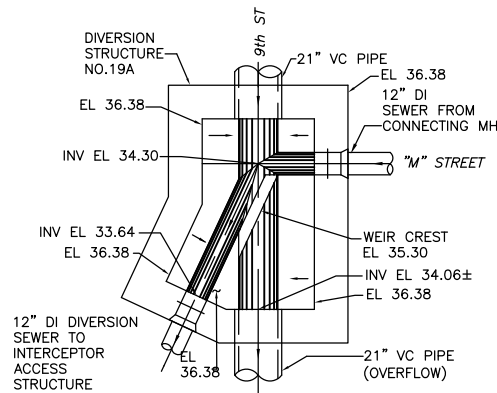
STRUCTURE NO.  
19, 19b



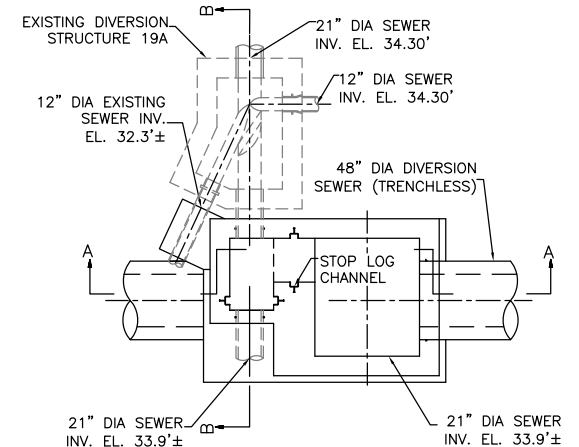


### Structure 19a & 19c, 9th & M Streets, S.E.

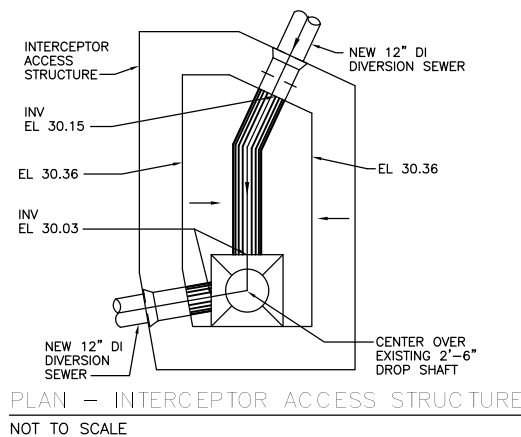
Overflow from 21-inch combined sewer spills over a weir at structure No. 19a into 21-inch overflow pipe, flows through structure No. 19c and continues to overflow into the Anacostia river. Once Anacostia River Tunnel is operational, overflows from Structure No. 19a will be diverted to the tunnel up to the diversion capacity of Structure No. 19c. Normal day weather flow from Structure No. 19a continues through a 12 inch diversion sewer to East Side Interceptor.



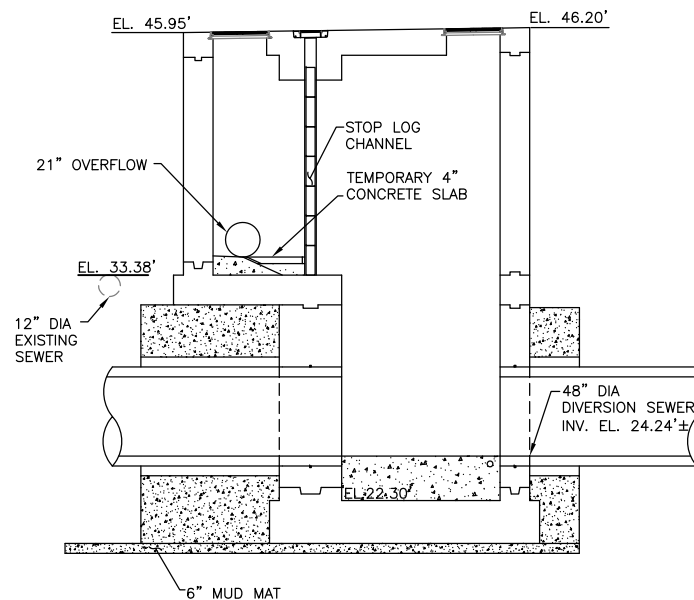
PLAN - STRUCTURE No. 19a  
NOT TO SCALE



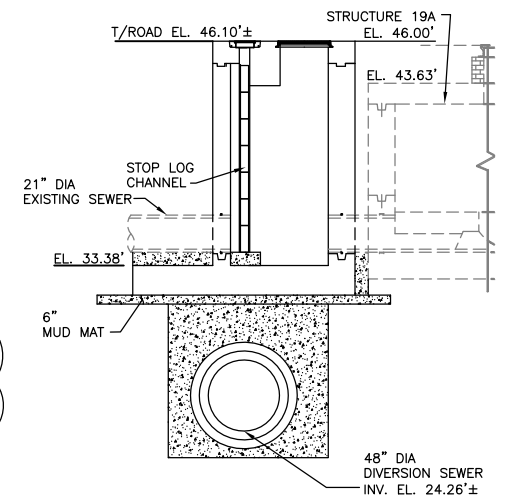
PLAN - STRUCTURE No. 19c  
NOT TO SCALE



PLAN - INTERCEPTOR ACCESS STRUCTURE  
NOT TO SCALE



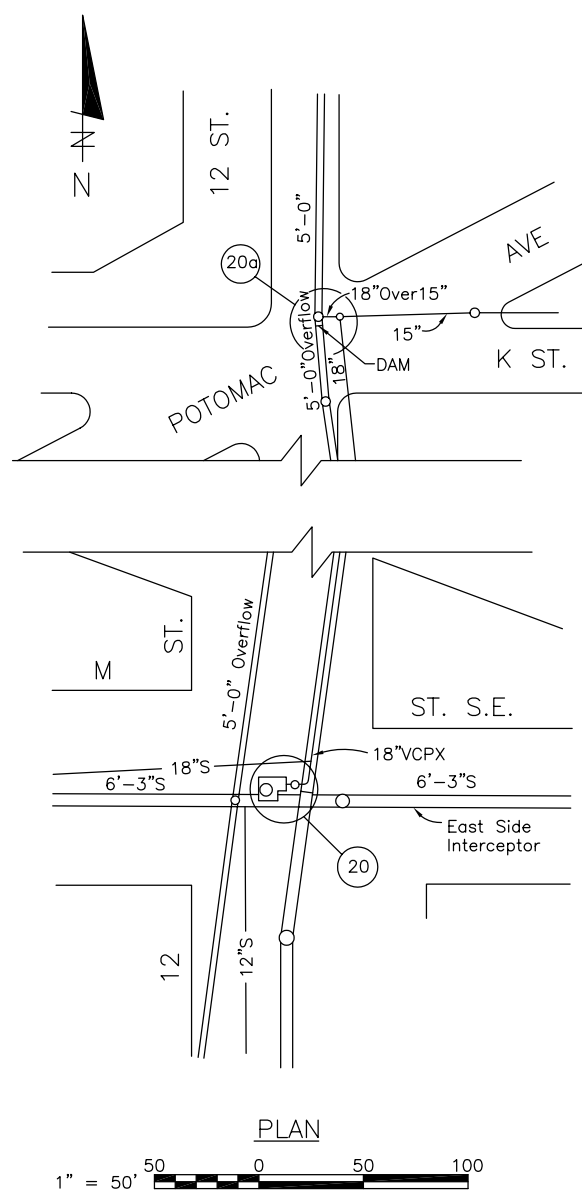
STRUCTURE 19c SECTION A-A  
NOT TO SCALE



STRUCTURE 19c SECTION B-B  
NOT TO SCALE

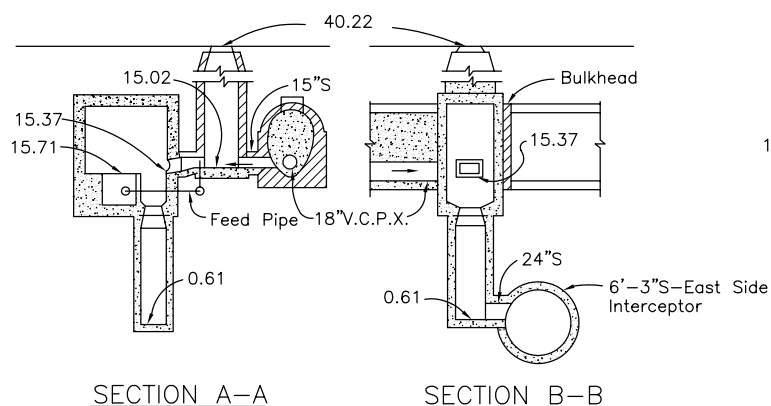
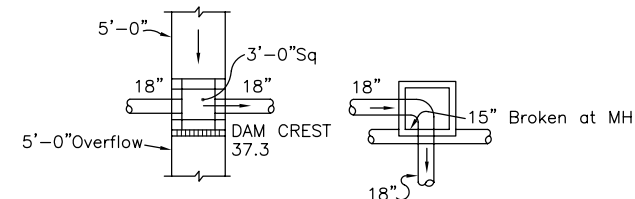
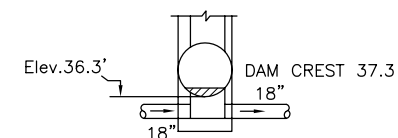
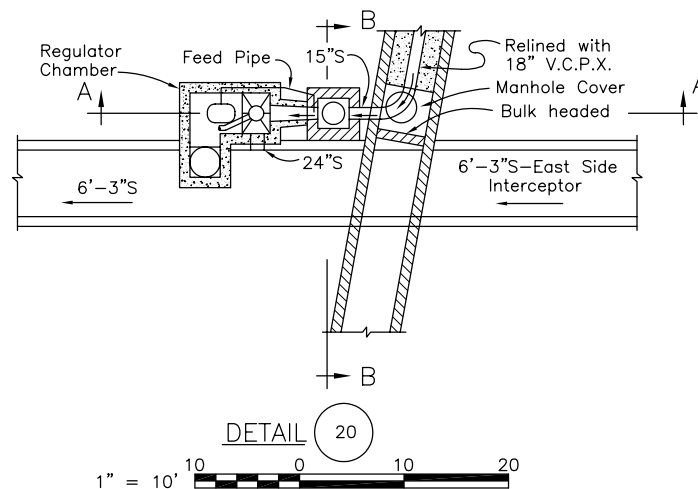
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2016  
ASSOCIATED NPDES OUTFALL # 015

STRUCTURE NO.  
19a, 19c



STRUCTURE NO. 20, 12th St. at M St. and K St., S.E. The Control Structure for this Overflow is located at 12th and M Streets, S.E.; however, the actual flow diversion occurs upstream at K St. Dry Weather Flow in the 5'0" Combined Sewer is retained by a dam crest elevation 37.3 and is intercepted by an 18" sewer at 12th and K Sts via a sump-type structure with a 3 ft. square opening. This flow is then conveyed south to the East Side Interceptor at 12th and M Streets. The 5'0" Overflow line continues south to the Anacostia River.

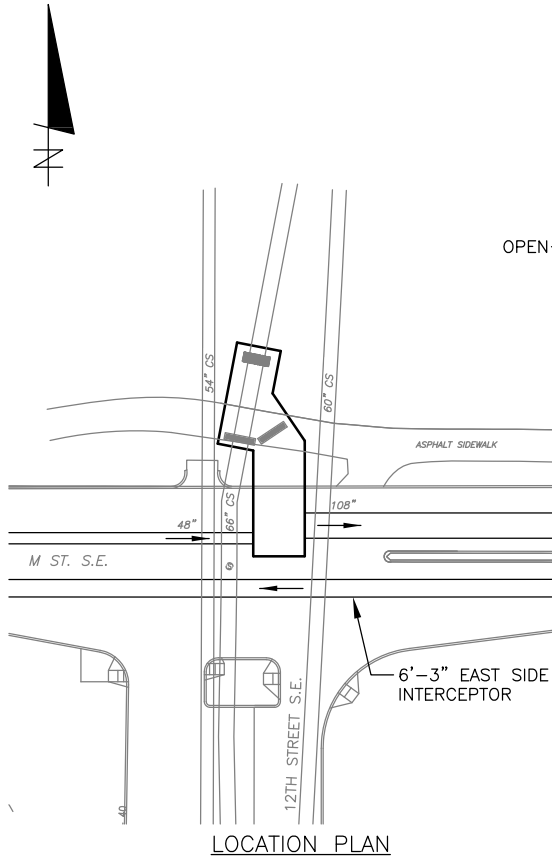
Structure NO. 20, located on M and 12th Streets was formerly a float type regulator with the float mechanism removed. This Structure directs Dry Weather Flow from Structure NO. 20a to the East Side Interceptor and contains no overflow.



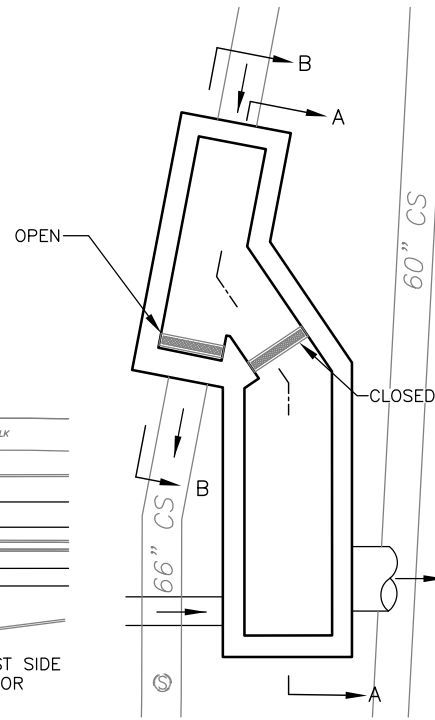
STRUCTURE NO.  
20, 20a

STRUCTURE NO. 20b, 12th and M Streets, S.E.

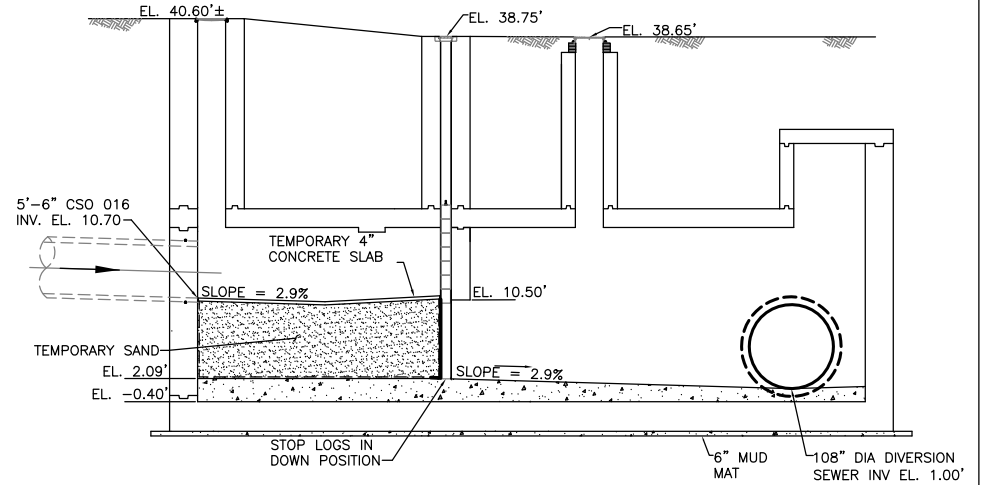
Once Anacostia River Tunnel is placed in service, overflows from Structure No. 20a will be diverted to the tunnel up to the diversion capacity of Structure No. 20b.



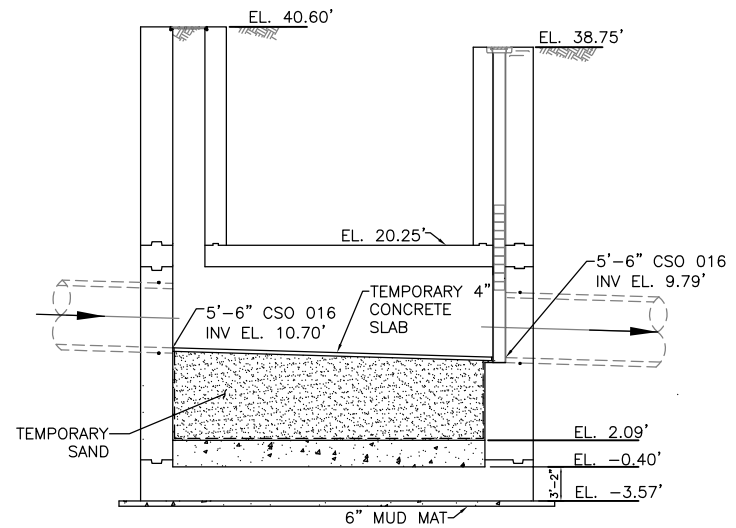
LOCATION PLAN



PLAN



SECTION A-A



SECTION B-B

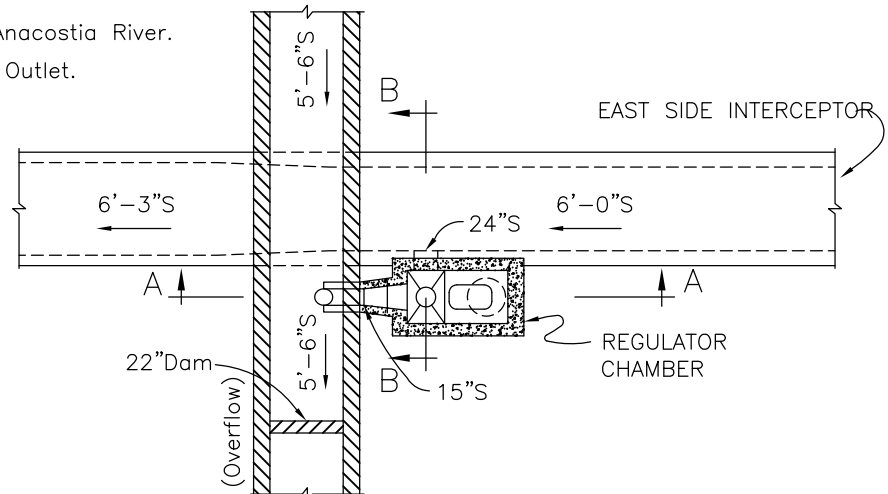
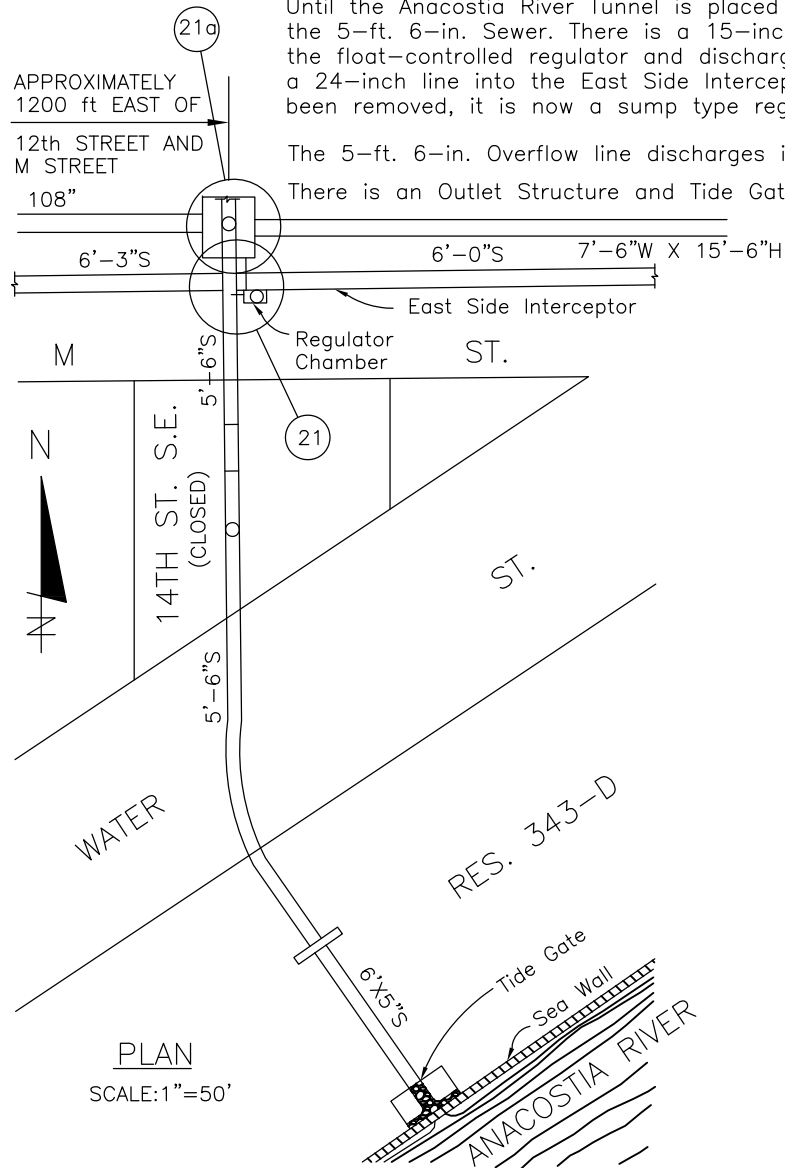
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
 REVISED DATE: MARCH 2016  
 ASSOCIATED NPDES OUTFALL # 016

STRUCTURE NO.  
 20b

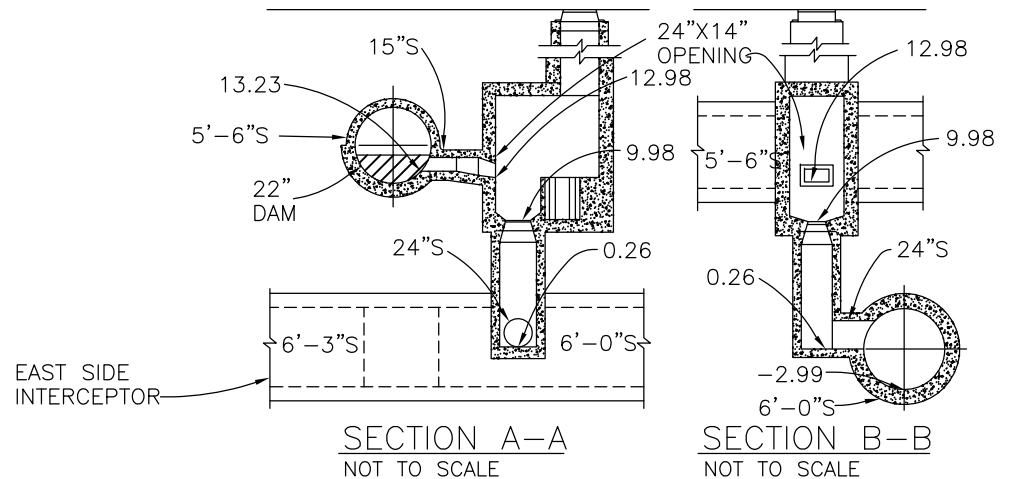
STRUCTURE NO. 21. 14th and M Streets, S.E.

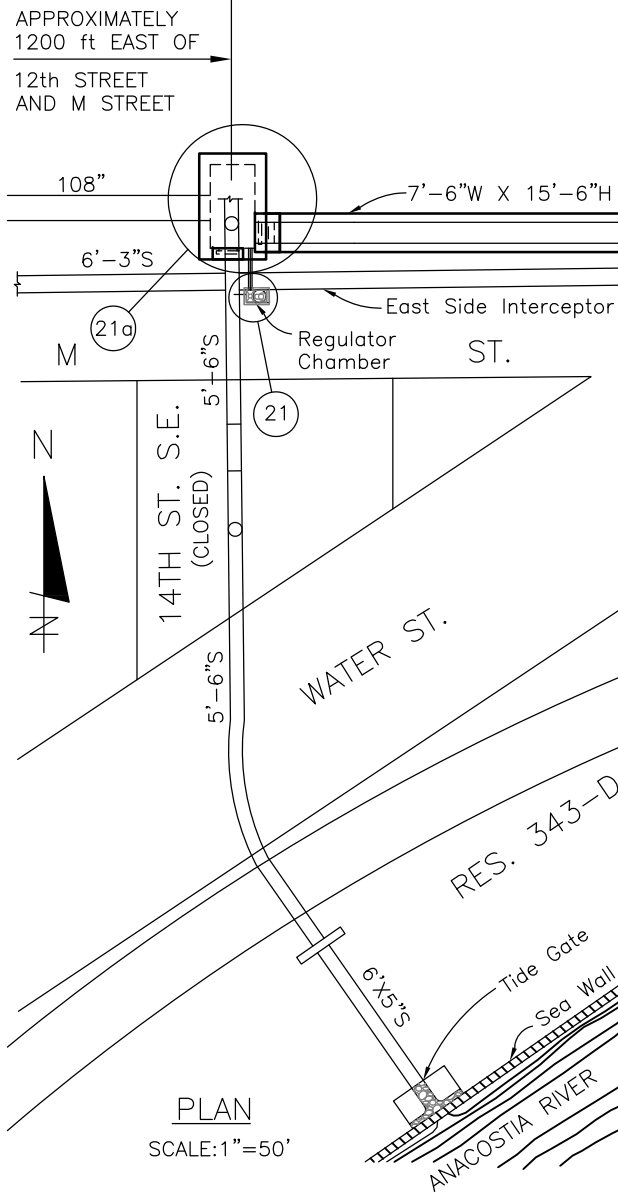
Until the Anacostia River Tunnel is placed in service, the Storm Overflow is formed by a masonry dam across the 5-ft. 6-in. Sewer. There is a 15-inch Intercepting Connection which conveys the Dry-Weather Flow through the float-controlled regulator and discharges it into a sump. The Flow is then collected and discharged through a 24-inch line into the East Side Interceptor. This was formerly a float type regulator. The float device has been removed, it is now a sump type regulator.

The 5-ft. 6-in. Overflow line discharges into the Anacostia River. There is an Outlet Structure and Tide Gate at the Outlet.



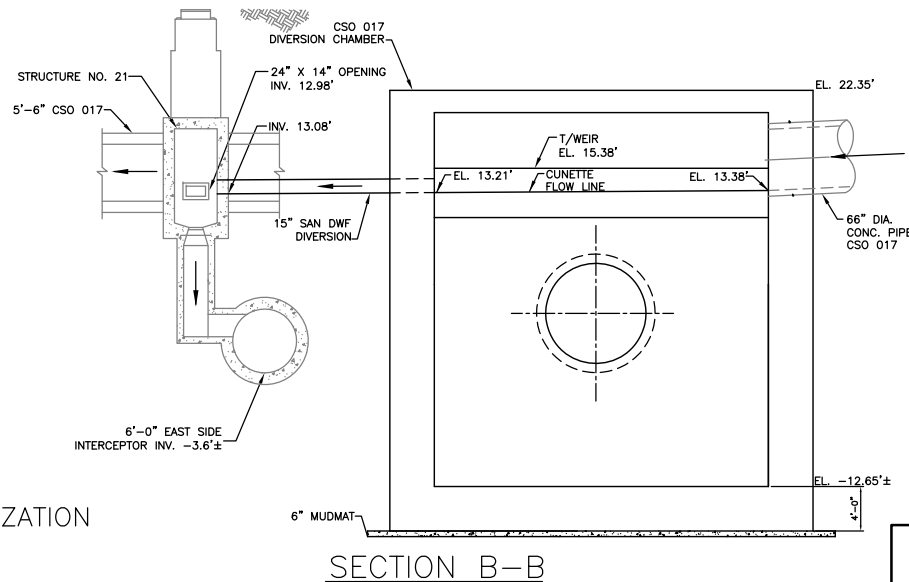
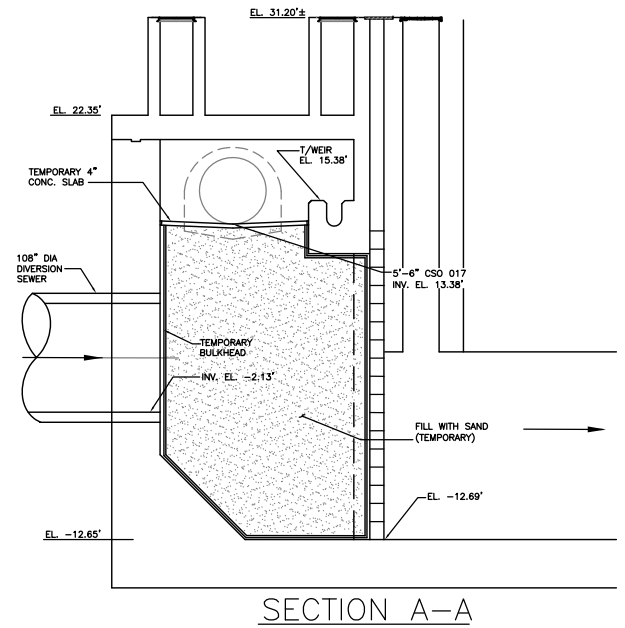
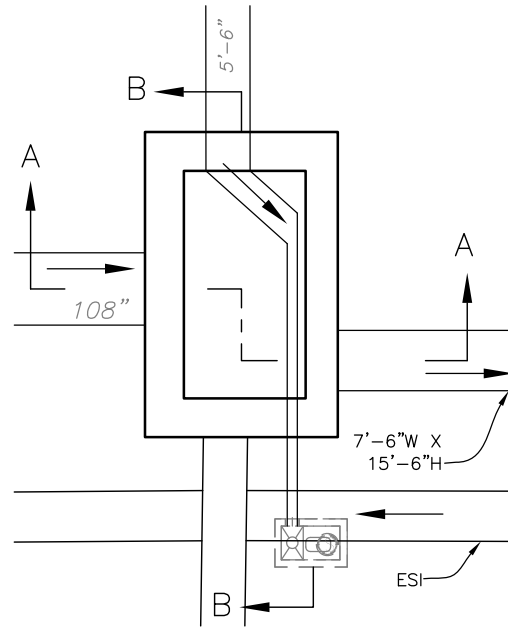
PLAN - STRUCTURE NO. 21  
NOT TO SCALE





**STRUCTURE NO. 21a, 14TH & M STREETS, S.E.**

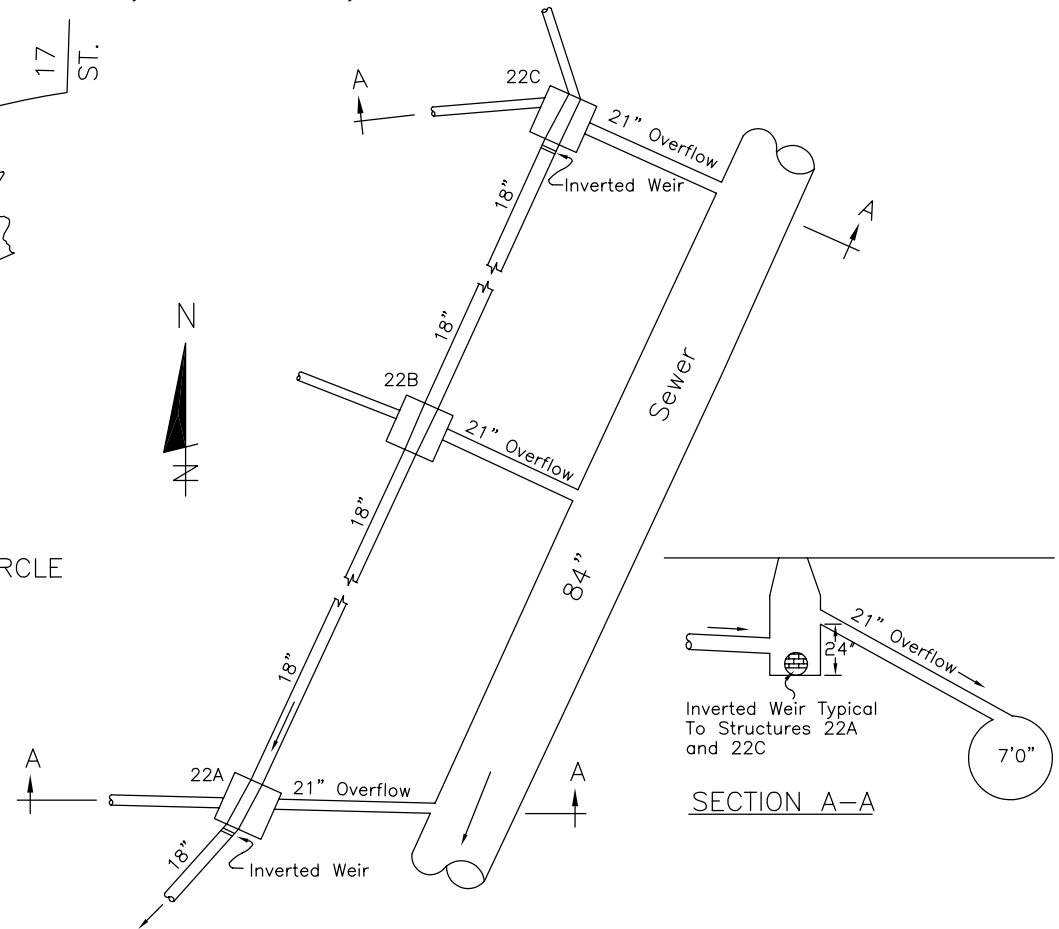
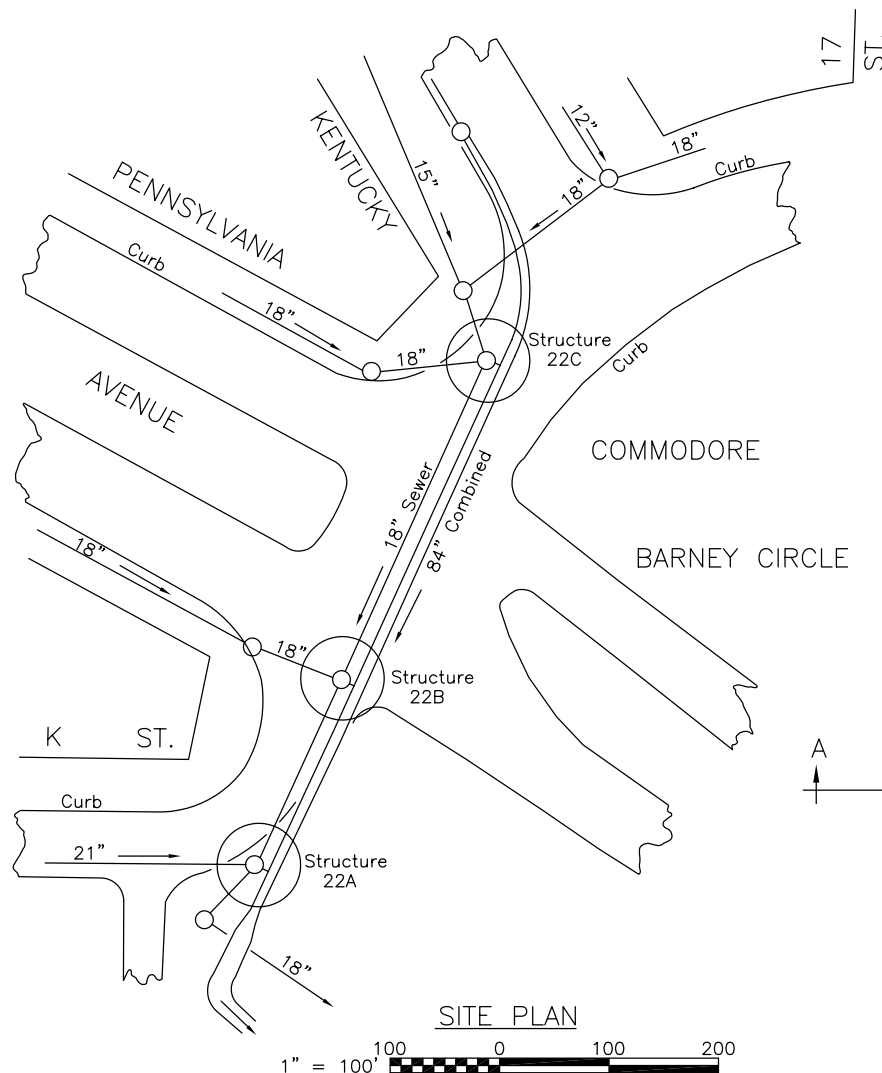
Once the Anacostia River Tunnel is operational, the flow coming through 5-ft, 6-in. sewer will be intercepted at Structure No. 21a and diverted to the tunnel up to the diversion capacity of Structure No. 21a.



STRUCTURE NO.  
21a

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ASSOCIATED NPDES OUTFALL # 017

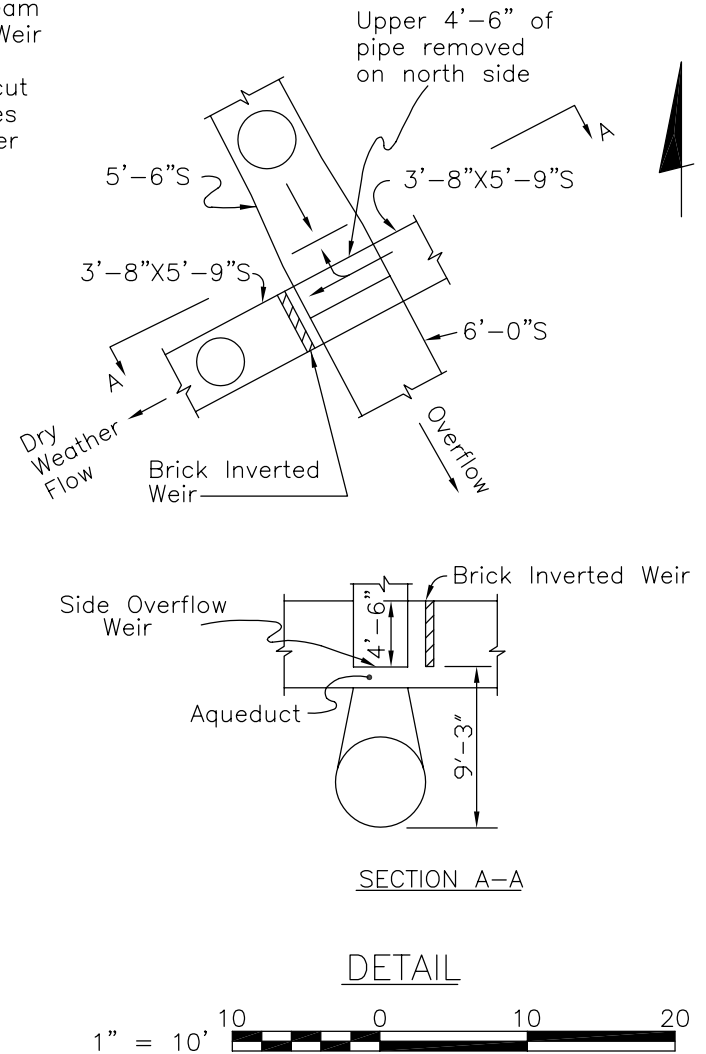
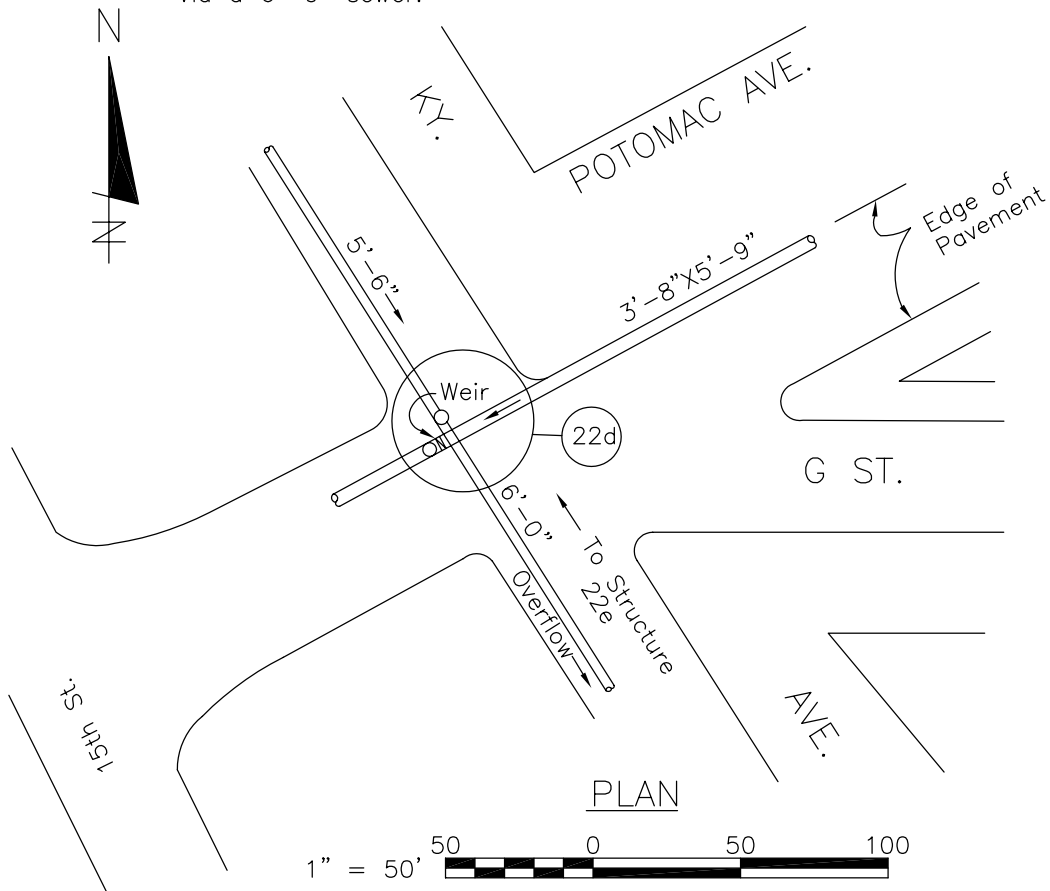
STRUCTURE NO. 22, Barney Circle and Pennsylvania Ave, S.E. Normal Dry Weather Flow enters one of a series of three manholes located on the western side of Barney Circle, and is conveyed out via an 18-inch Sewer excess flows may exit each manhole through a 21-inch Overflow Line located 24 inches above the manhole invert. The Sanitary Sewers from Structures No. 22a and 22c are constricted by inverted masonry Weirs.



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 ASSOCIATED NPDES OUTFALL # 018

STRUCTURE NO.  
 22A, 22B, 22C

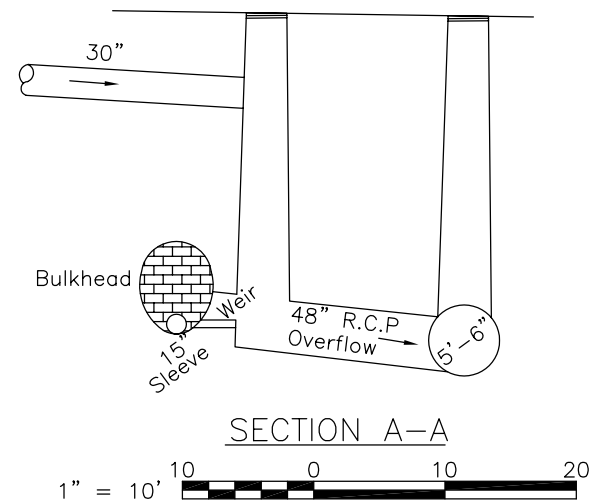
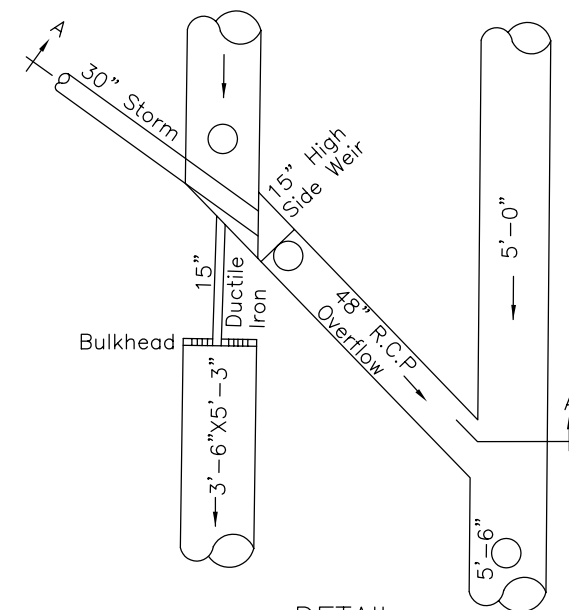
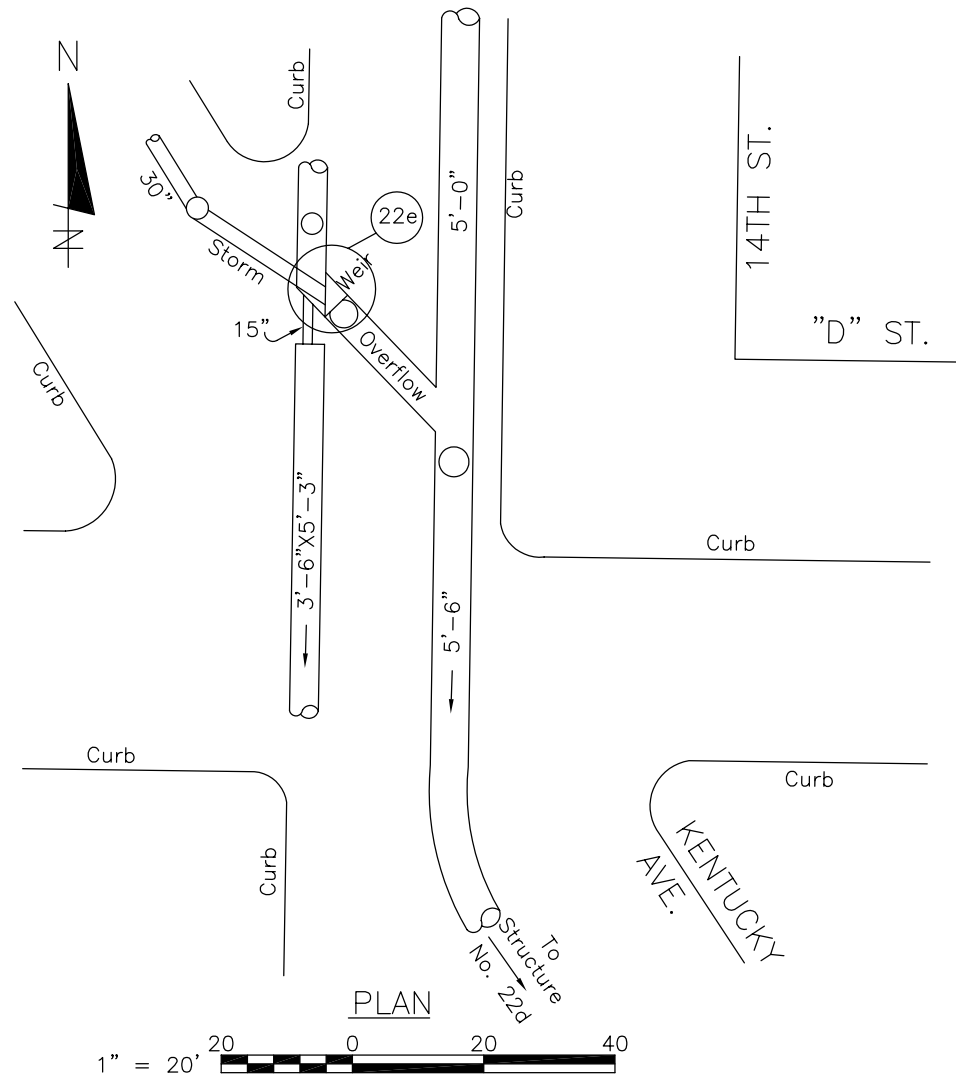
STRUCTURE NO. 22d, Kentucky Ave., and Potomac Ave., S.E. Normal Dry Weather Flow in the 3'-8" by 5'-9" Combined Sewer continues downstream in the same sewer after passing underneath a 4'-6" inverted masonry Weir extending down from the crown. Excess Flows are obstructed by the inverted Weir and spill out of the Combined Sewer through an opening cut out of the north side of the pipe. The crest of the cut-out is 15 inches above the Combined Sewer invert. Overflow is conveyed to Anacostia River Via a 6'-0" sewer.



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STRUCTURE NO.  
 22d

STRUCTURE NO. 22e, 14th Street and Kentucky Ave. S.E. Overflow from the 3'-6" by 5'-3" Combined Sewer spills over a 15-inch side Weir into a 48-inch Overflow pipe and ultimately to the Anacostia River. Normal Dry Weather Flow continues southward through a 15-inch constricting pipe.



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REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 018

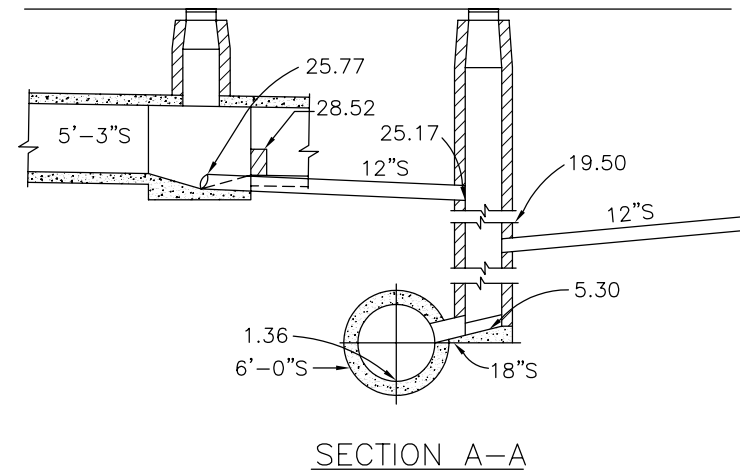
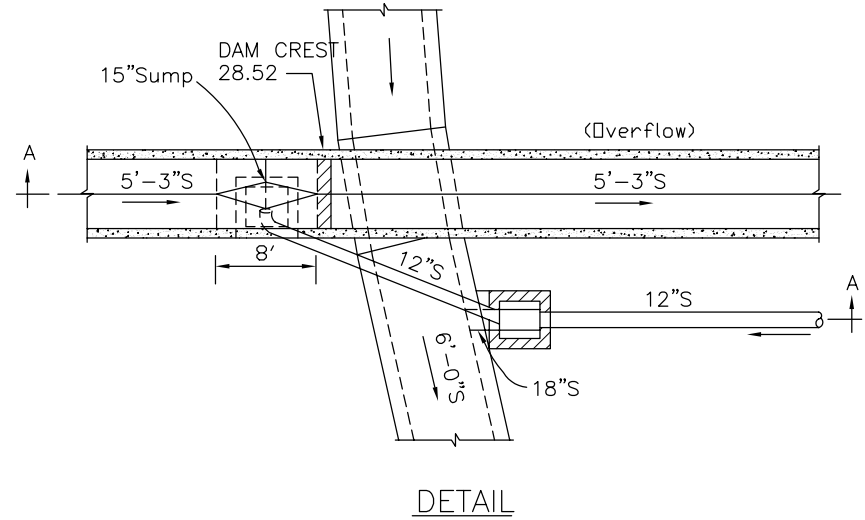
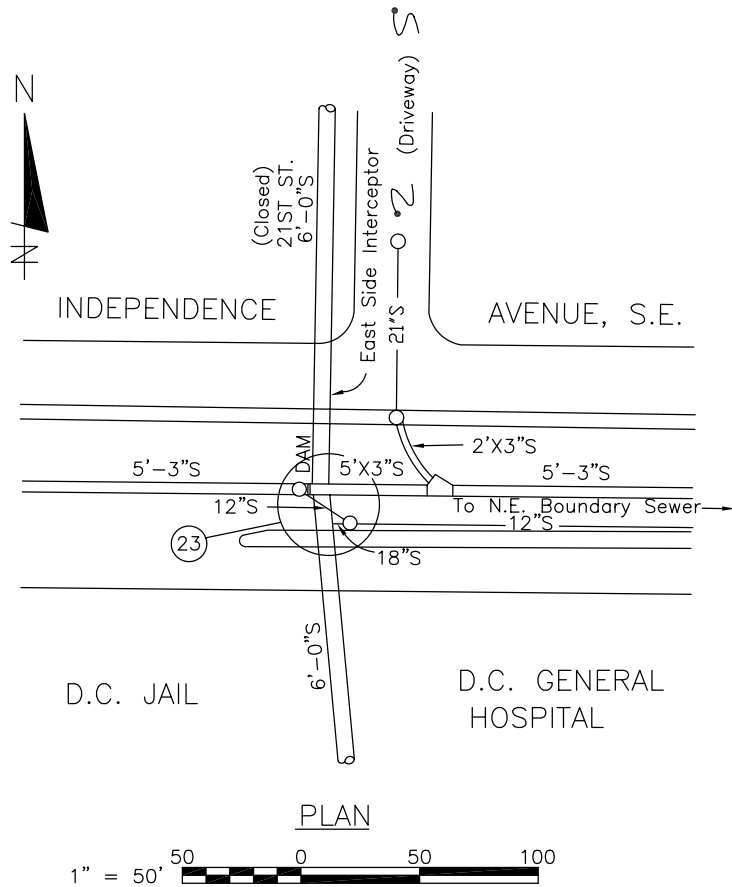
STRUCTURE NO.  
22e



STRUCTURE NO. 23, Independence Avenue and 21st Street, Extended, S.E.

This structure has a sump-type regulator. The Storm Overflow is formed by a depressed section of the invert of the 5-ft. 3-in. sewer and a dam with crest elevation 28.52. The 5-ft. 3-in Combined Sewer enters the Overflow Structure and a 12-inch intercepting Connection conveys the Dry-Weather Flow to the East Side Interceptor.

The 5-ft. 3-in. Overflow Line discharges into the Northeast Boundary Trunk Sewer which in turn, discharges into the Northeast Boundary Swirl Facility.

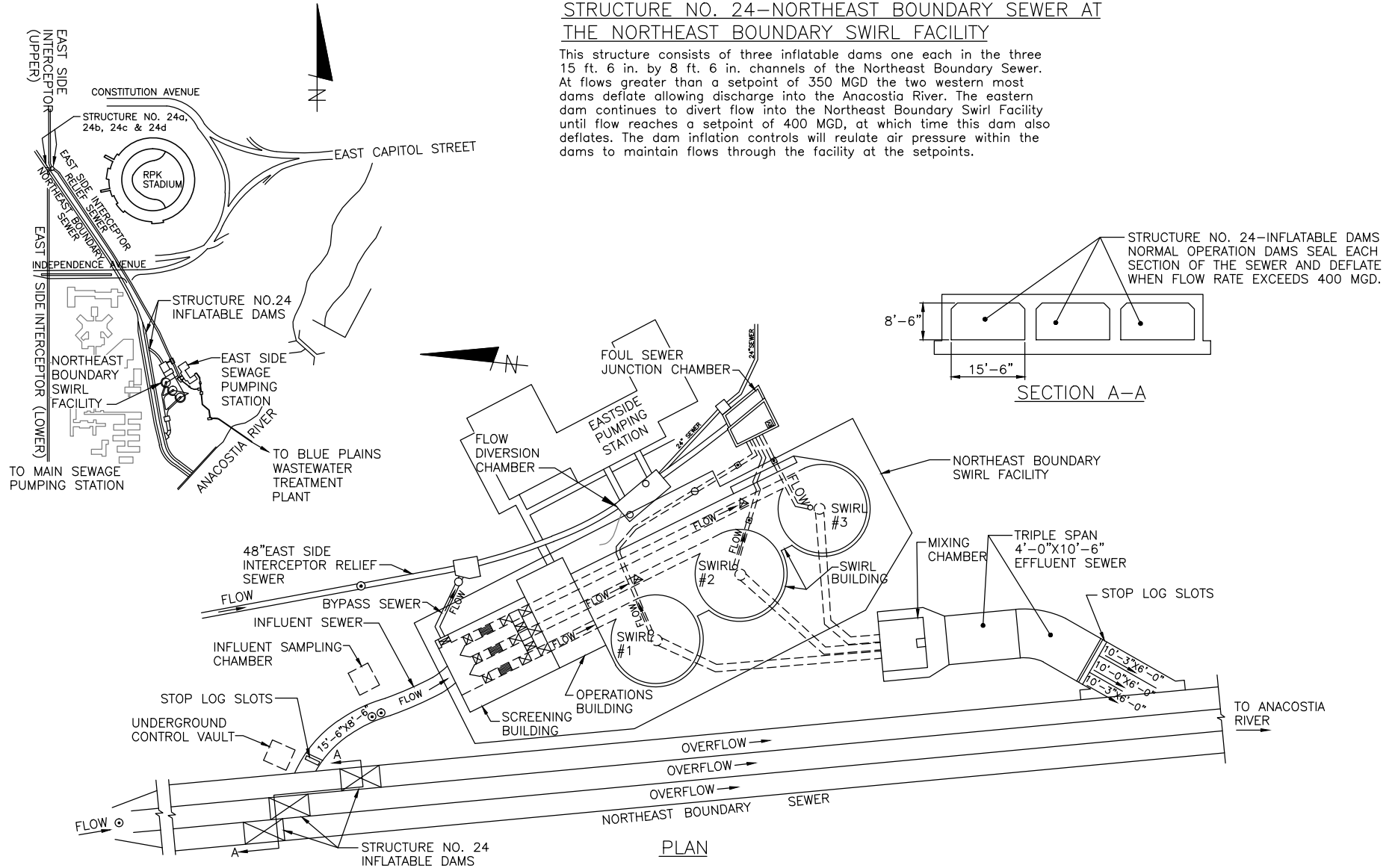


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 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 019

STRUCTURE NO.  
 23

## STRUCTURE NO. 24—NORTHEAST BOUNDARY SEWER AT THE NORTHEAST BOUNDARY SWIRL FACILITY

This structure consists of three inflatable dams one each in the three 15 ft. 6 in. by 8 ft. 6 in. channels of the Northeast Boundary Sewer. At flows greater than a setpoint of 350 MGD the two western most dams deflate allowing discharge into the Anacostia River. The eastern dam continues to divert flow into the Northeast Boundary Swirl Facility until flow reaches a setpoint of 400 MGD, at which time this dam also deflates. The dam inflation controls will regulate air pressure within the dams to maintain flows through the facility at the setpoints.



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REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL # 019

STRUCTURE NO.  
24

# **STRUCTURE NO. 24a-NORTHEAST BOUNDARY TRUNK SEWER, EAST CAPITAL STREET AND 21st STREET EXTENDED**

Normal Dry Weather Flow is conveyed from the 72 inch span cunette in the Northeast Boundary Sewer through the Control Structure into the 6 ft. East Side Interceptor. Flows which can not be contained within the cunette overflow into the Northeast Boundary Sewer which is restrained by inflatable dams (see Structure No. 24 for more details of dams) so that Overflow is diverted to the Northeast Boundary Swirl Facility. Northeast Boundary Sewer in excess of the Swirl Facility Capacity are discharged into the Anacostia River. Combined sewage flow in the East Side Interceptor is maintained at the sewers capacity by the inflatable dams in the Northeast Boundary Sewer. (prior to 1992, this Structure was designated as No. 24) (There are tide gates on the Overflow Outfall Structure)

## **STRUCTURE NO. 24b**

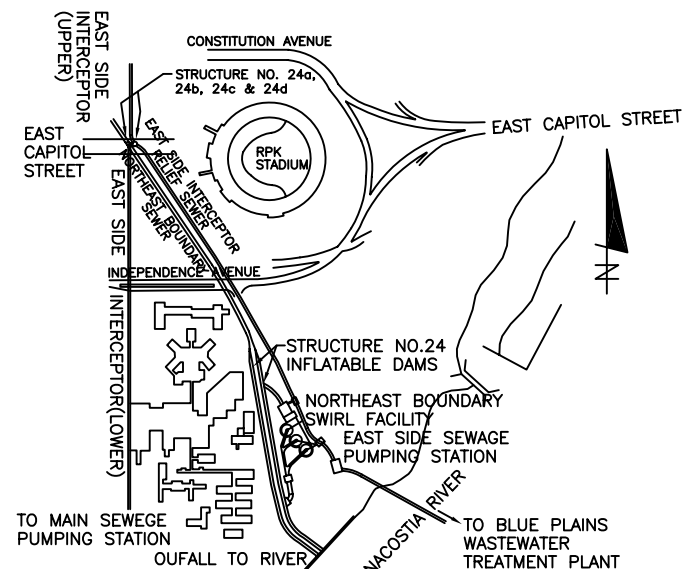
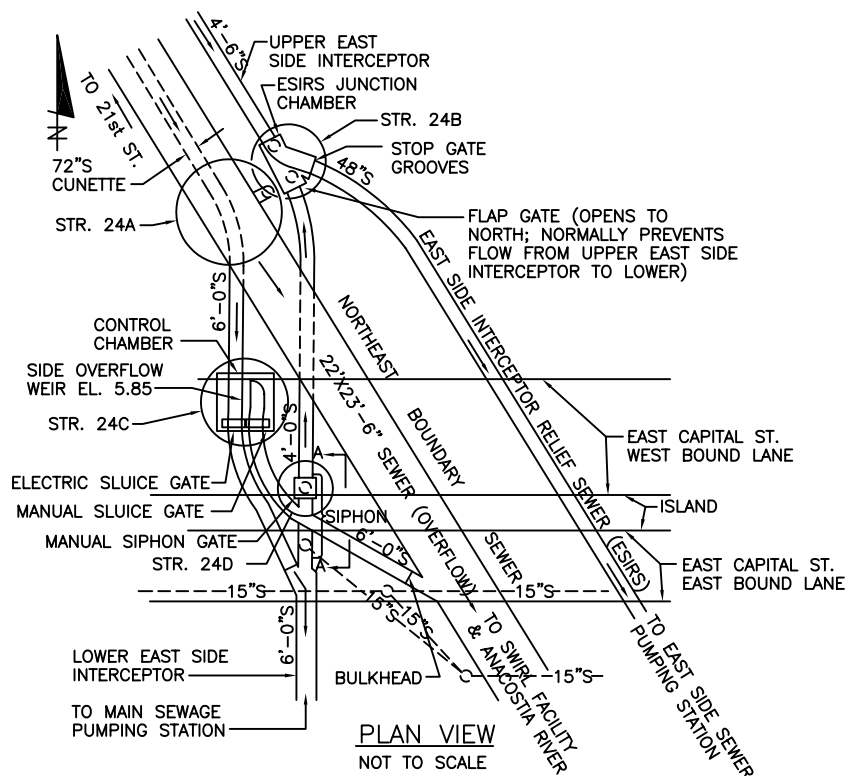
This structure is a connection between the 4 ft. 6 inch East Side Interceptor which discharges into the 48 inch East Side Relief Sewer for conveyance to the East Side Pumping Station, and the 48 inch continuation of the East Side Interceptor which conveys combined sewage flow to the Main Sewage Pumping Station. The significance of this structure is that it can divert flow from the East Side Pumping Station.

## **STRUCTURE NO. 24c**

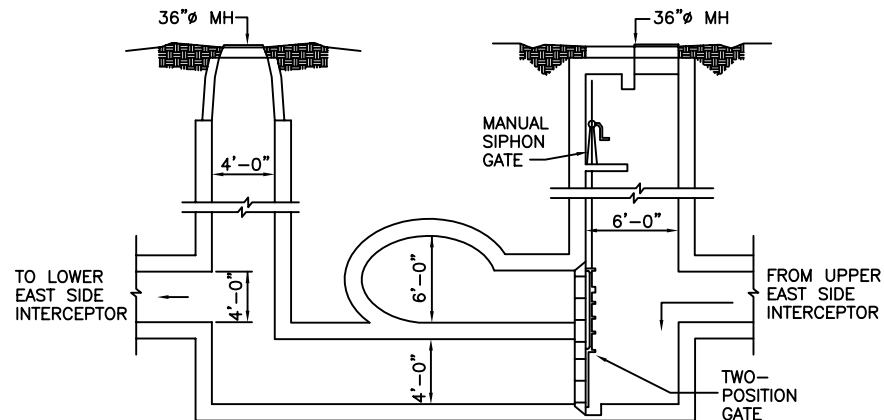
This structure is a gate control chamber controlling flow from the Northeast Boundary Sewer. Manual gate should always be closed and electrical gate open.

## **STRUCTURE NO. 24d**

This structure is a piggy-back sluice gate controlling flow into the East Side Interceptor Siphon. For Section A-A (Siphon Profile), the arrows depict diversion flow routing, there is normally no flow in the siphon.



**LOCATION PLAN-INFLATABLE DAMS ON NORTHEAST BOUNDARY SEWER OVERFLOW**  
NOT TO SCALE



**SECTION A-A (SIPHON PROFILE)**  
NOT TO SCALE

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REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

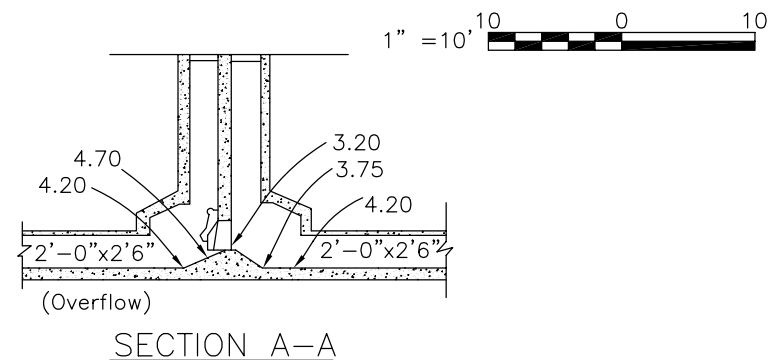
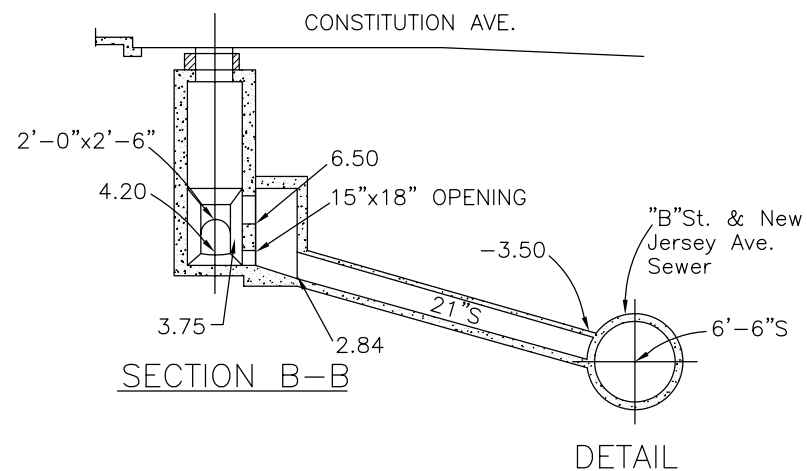
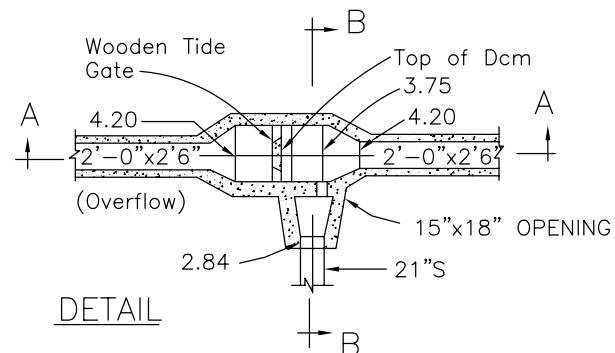
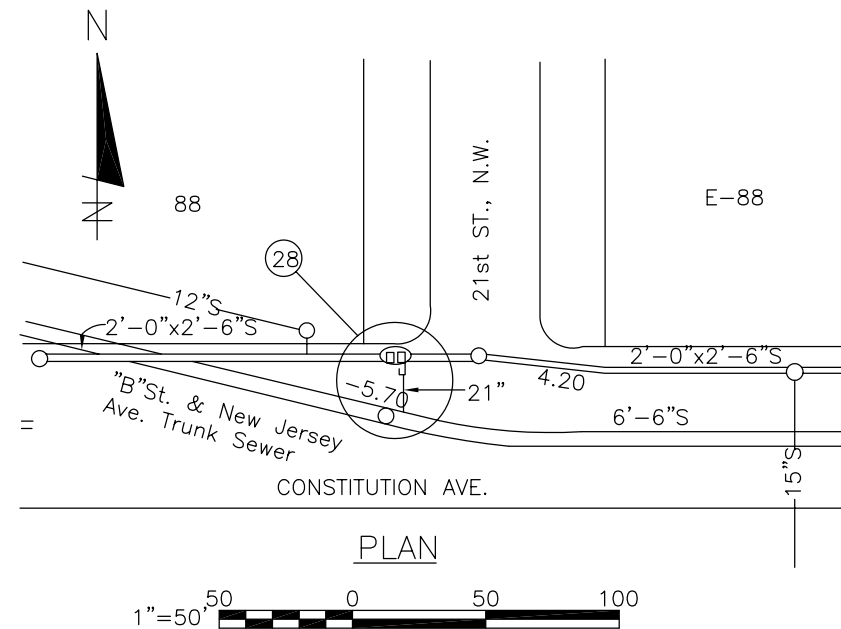
STRUCTURE NO.  
24a, 24b, 24c & 24d

STRUCTURE NO. 28, 21st Street and Constitution Avenue, N.W.

This structure has a sump-type regulator, the Storm Overflow is formed by a concrete sill of a tide-gate structure combined with a depressed invert. A 2-ft. by 2-ft. 6-in. Combined Sewer enters the structure. Dry Weather Flow passes through A 15"x18" opening which goes through a 12-inch wall and discharges into a small chamber where the flow is collected into a 21-inch Intercepting Connection discharging into the B Street-New Jersey Avenue Trunk Sewer.

The 2-ft. by 2-ft. 6-in. Overflow Line discharges into the Easby Point Trunk Sewer, and then to the Potomac River.

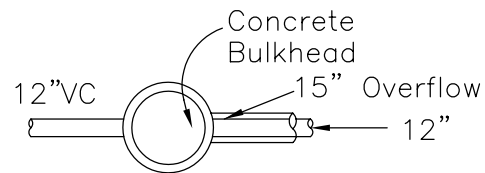
There is a Tide Gate on the Overflow Line.



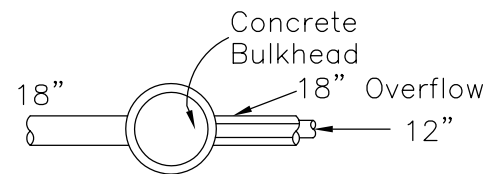
REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.  
 28

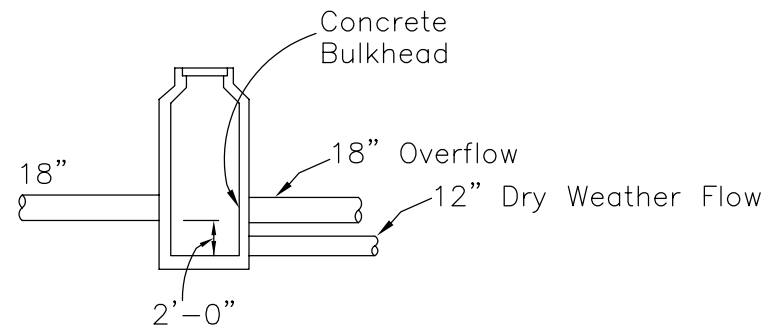
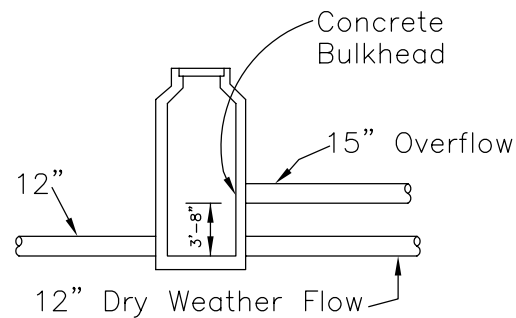
THIS OVERFLOW HAS BEEN ELIMINATED BASED ON,  
SEPTEMBER 22,1999, FIELD INSPECTION.  
THE OVERFLOW CONDUITS WERE BULKHEADED.  
THIS STRUCTURE IS NO LONGER APPLICABLE



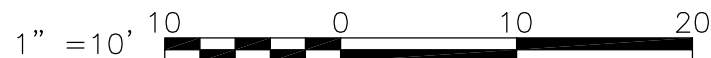
28a



28b



# DETAILS

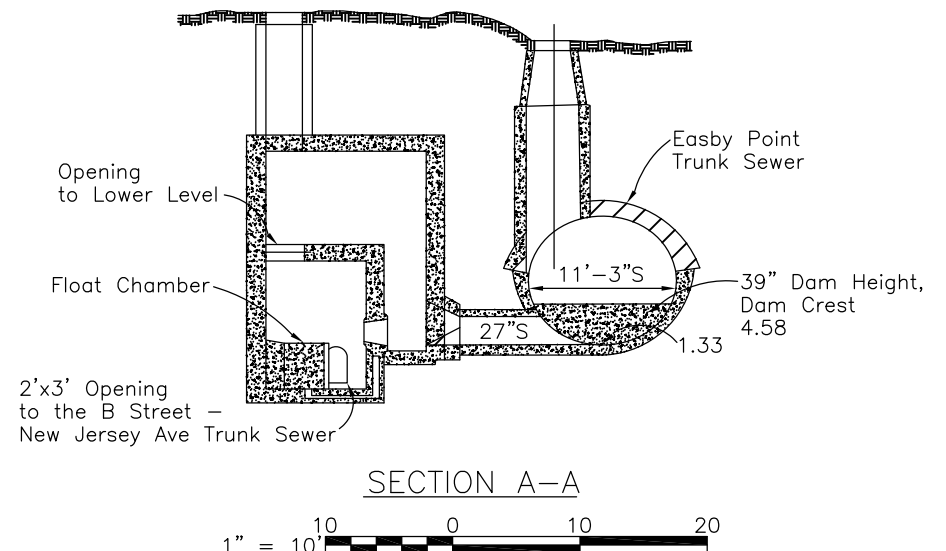
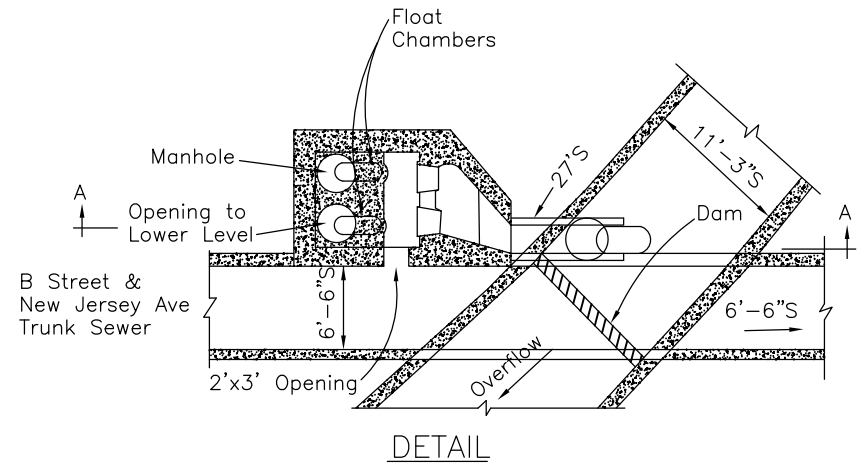
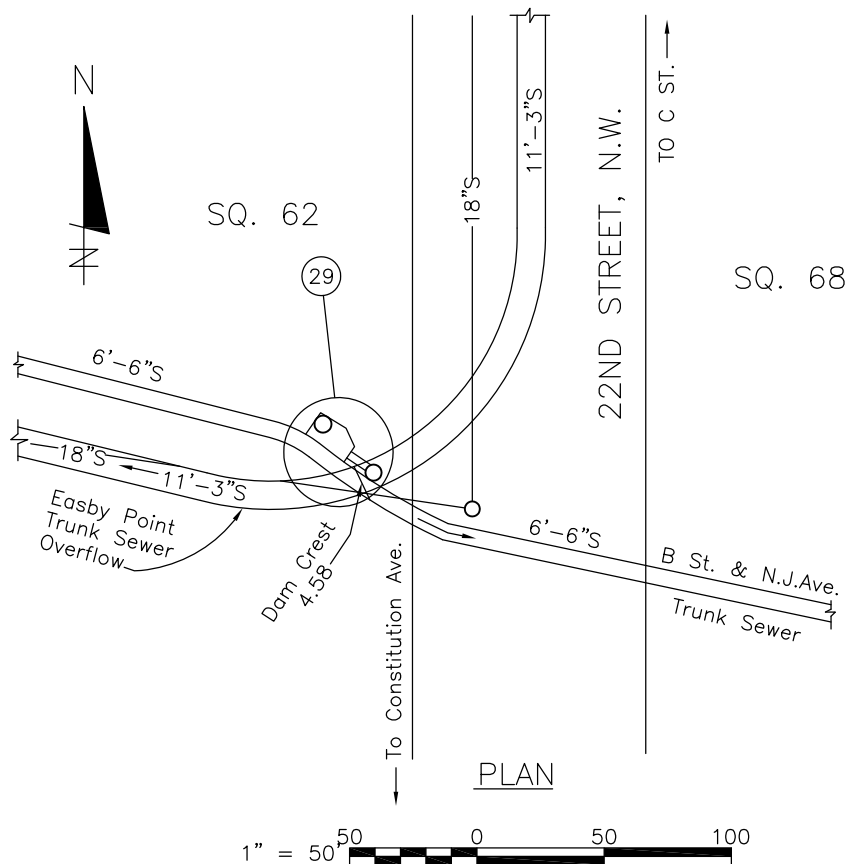


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
28a & 28b

STRUCTURE NO. 29, 22nd Street, North of Constitution

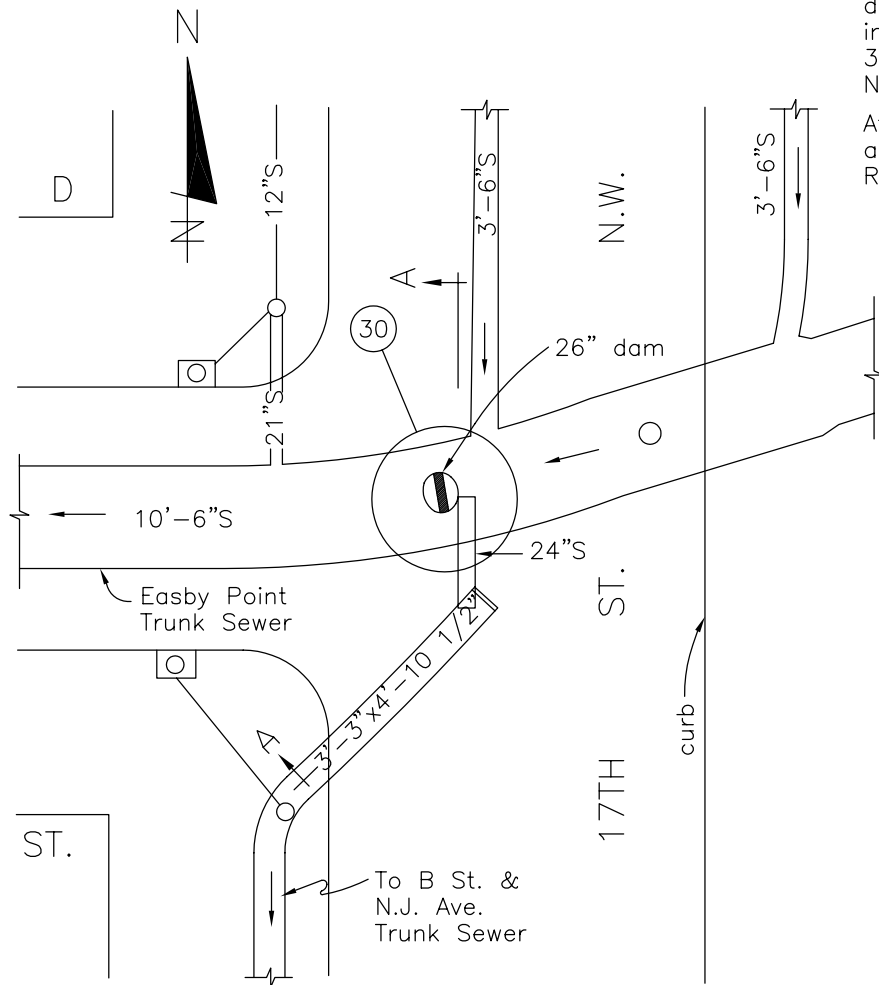
Avenue N.W. The 11'-3" Easby Point Trunk Sewer is restricted by a dam with crest elevation 4.58 so that normal Dry Weather Flows are directed into the 6'-6" B Street - New Jersey Avenue Trunk Sewer through a 27" dia. sewer connection. Overflow over the dam are discharged into the Potomac River. After downstream interception at Structure No. 34 (site of another inflatable dam) the Easby Point Trunk Sewer overflows into the Potomac River. This structure was formerly a float type regulator with a float mechanism removed. Now it is a sump type regulator.



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 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.  
 29

FILE: J:\1163\WASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-30 1:1 04/23/04 12:07 GH-G

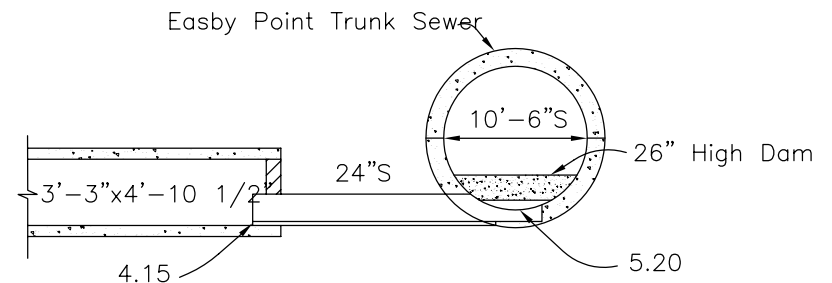


PLAN

1" = 20'

STRUCTURE NO. 30, 17th and D Streets, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam in the 10-ft, 6-in. Easby Point Trunk Sewer. There is a 24-in. 3-in. by 4-ft. 10 1/2 in. Sewer which in turn discharges to the B Street-New Jersey Avenue Trunk Sewer.

After subsequent interception points downstream (Structure Nos. 29 and 34), the Easby Point Trunk Sewer ultimately overflows to the Potomac River.



SECTION A-A

1" = 10'

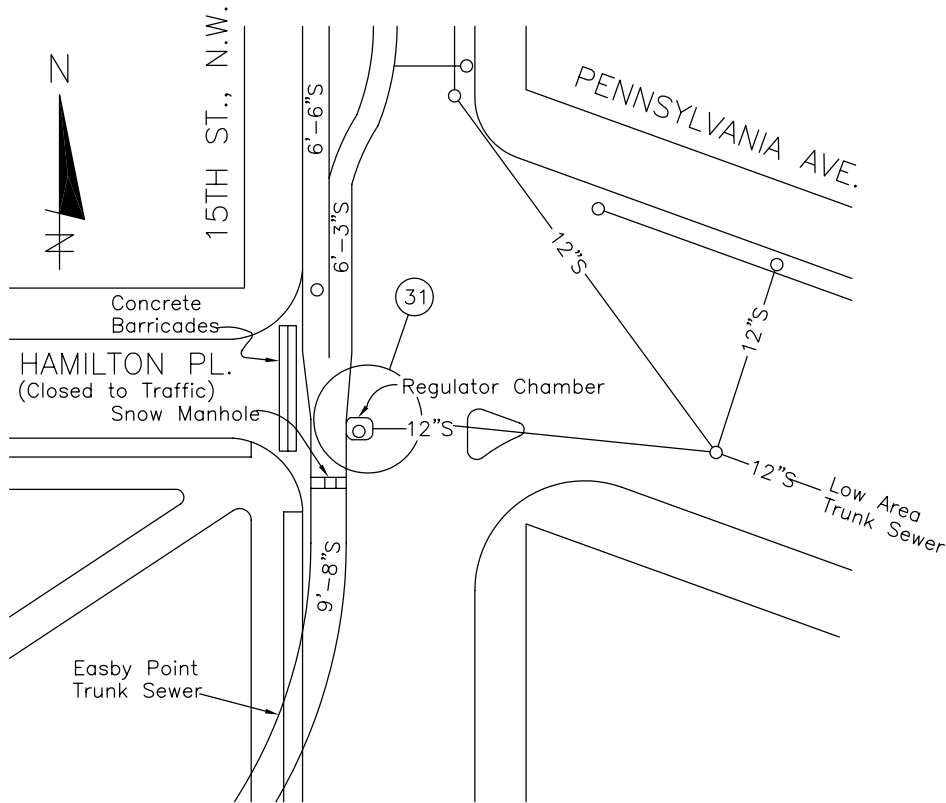
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.  
30

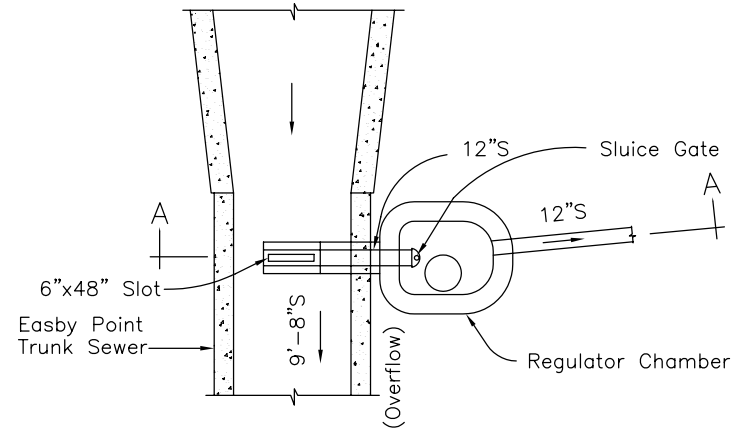
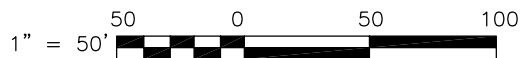
STRUCTURE NO. 31, 15th Street and Pennsylvania Ave., N.W.

This structure has a slot-type regulator. The Storm Overflow is formed by a 6-in. by 48-in. depressed slot. A 6-ft. 6-in. and 6-ft. 3-in. Combined Sewer enters the Diversion Structure and there is a slot in the invert which collects the Dry-Weather Flow which is then conveyed through a 12-in. intercepting connection to the 12-in. Low Area Trunk Sewer. There is a sluice gate at the outlet end of the intercepting connection.

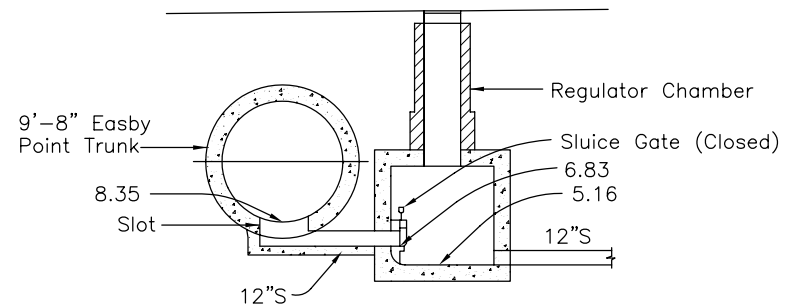
The 9'-8" Easby Point Trunk Sewer ultimately overflows to the Potomac River after several subsequent interception points (Structure Nos. 29, 30 and 34). (The control sluice gate is maintained in the closed position.)



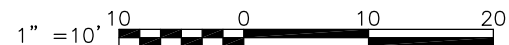
PLAN



DETAIL



SECTION A-A



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 020

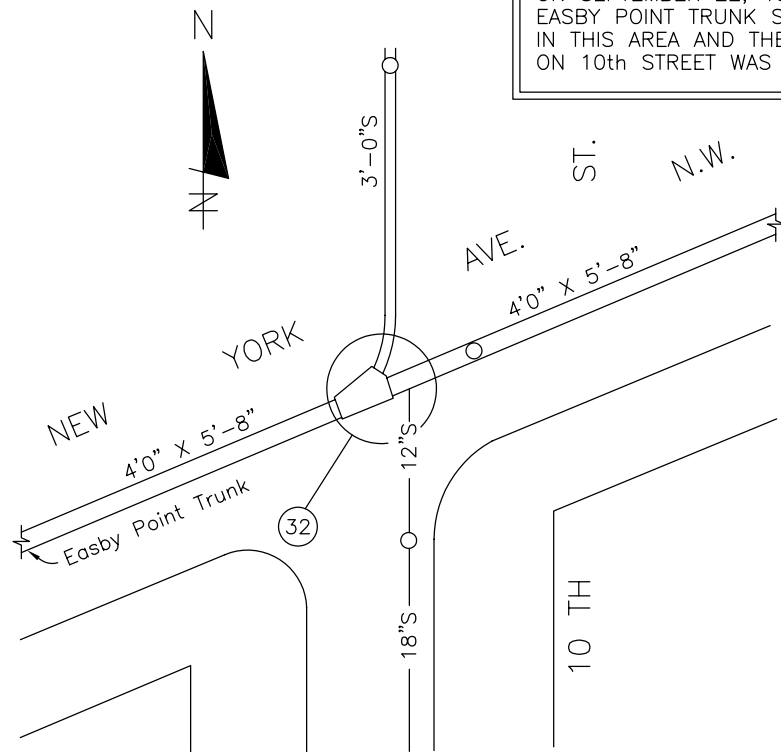
STRUCTURE NO.  
31



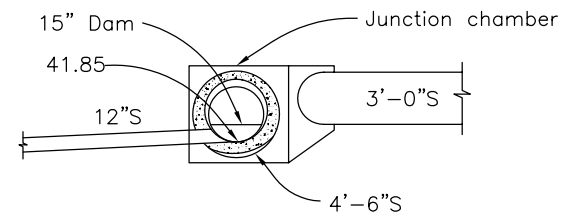
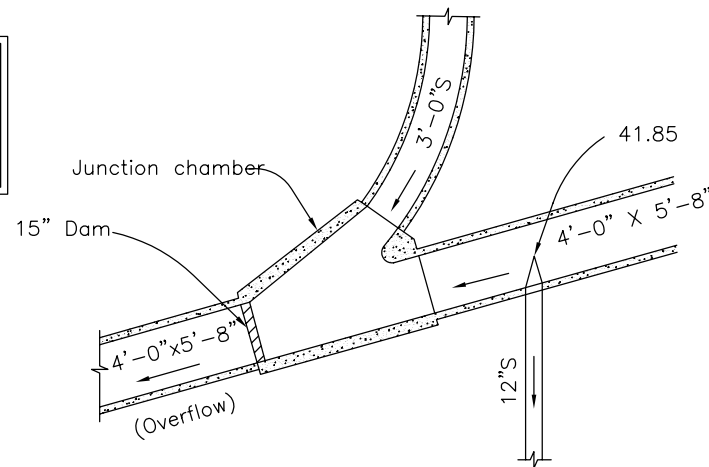
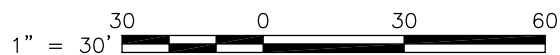
STRUCTURE NO.32, Tenth Street and New York Avenue, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam in the outlet end of a Junction Chamber. 4-ft. 6-in. and 3-ft. Combined Sewers enter the structure and a 12-in. intercepting connection conveys the Dry-Weather Flow through a series of sewers into the B Street-New Jersey Avenue Trunk Sewer.

The 4'6" Easby Point Trunk Sewer ultimately overflows to the Potomac River after several subsequent interception points (Structure Nos. 29, 30 and 34.)

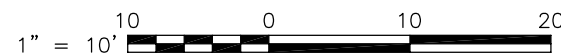
THIS STRUCTURE HAS BEEN ELIMINATED BASED ON SEPTEMBER 22, 1999, FIELD INSPECTION. THE EASBY POINT TRUNK SEWER WAS RECONSTRUCTED IN THIS AREA AND THE 12 INCH DIVERSION SEWER ON 10th STREET WAS ELIMINATED.



PLAN



DETAIL

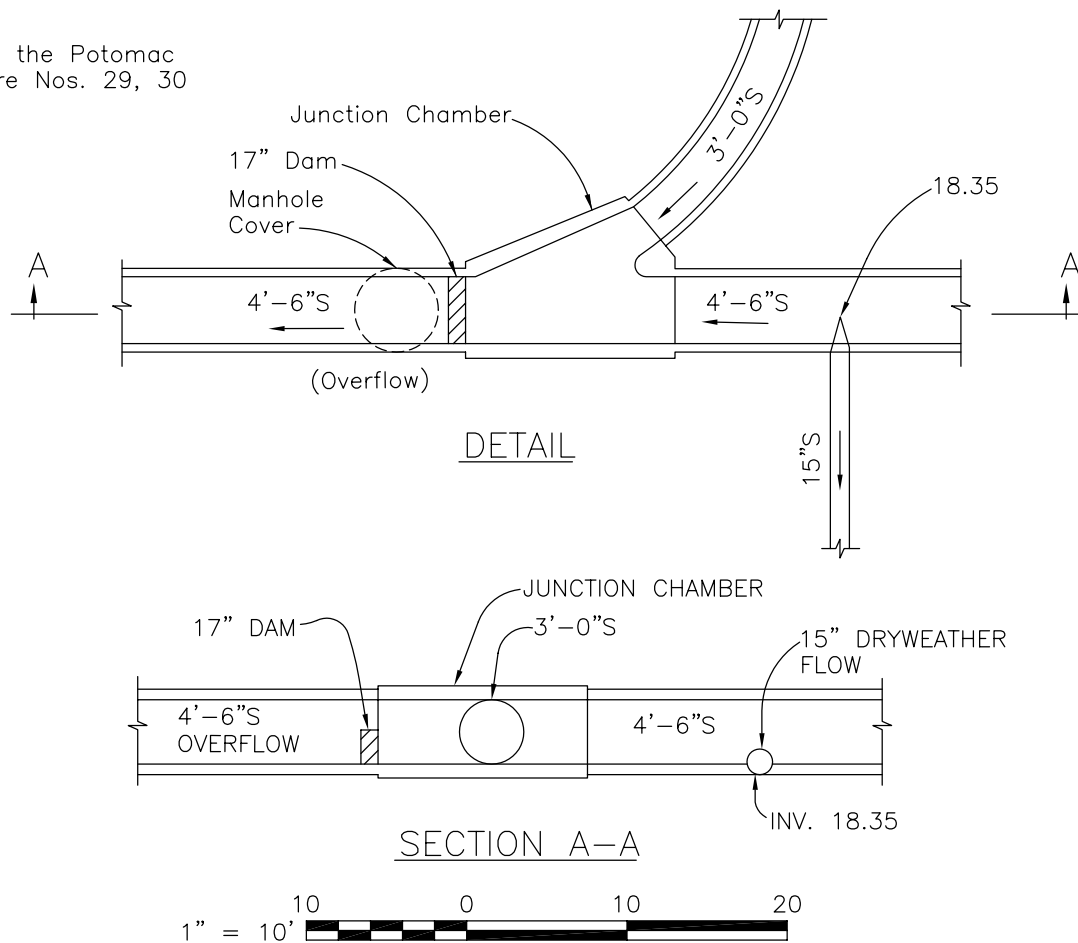
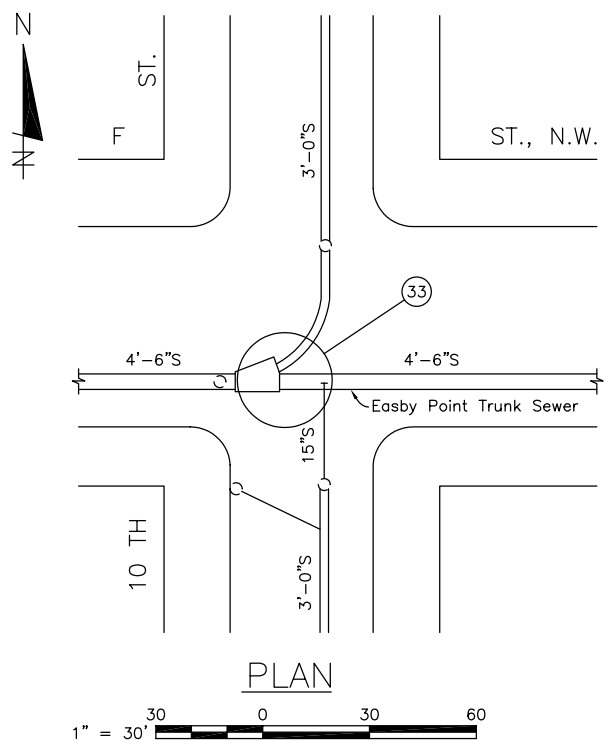


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
32

STRUCTURE NO.33, 10th and F Streets, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam in the outlet end of a Junction Chamber. A 4-ft. 6-in. and 3-ft. Combined Sewers enter the structure and a 15-in. intercepting connection conveys the Dry-Weather Flow through a series of sewers into the B Street-New Jersey Avenue Trunk Sewer.

The 4'6" Easby Point Trunk Sewer ultimately overflows to the Potomac River after several subsequent interception points (Structure Nos. 29, 30 and 34.)



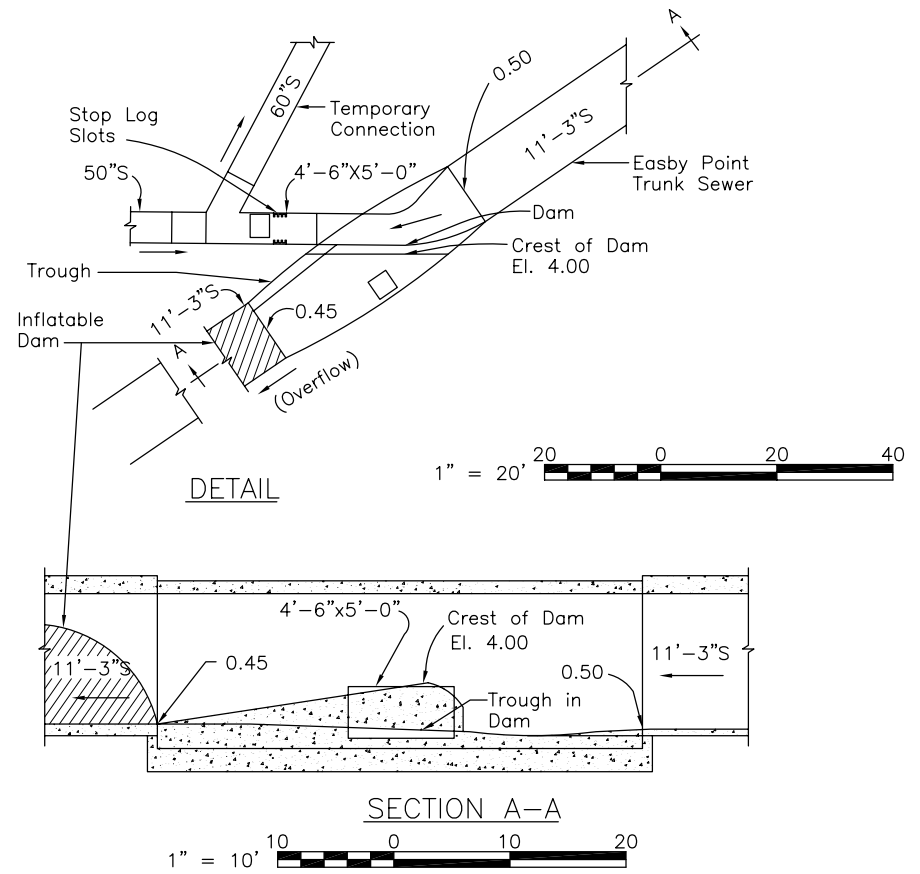
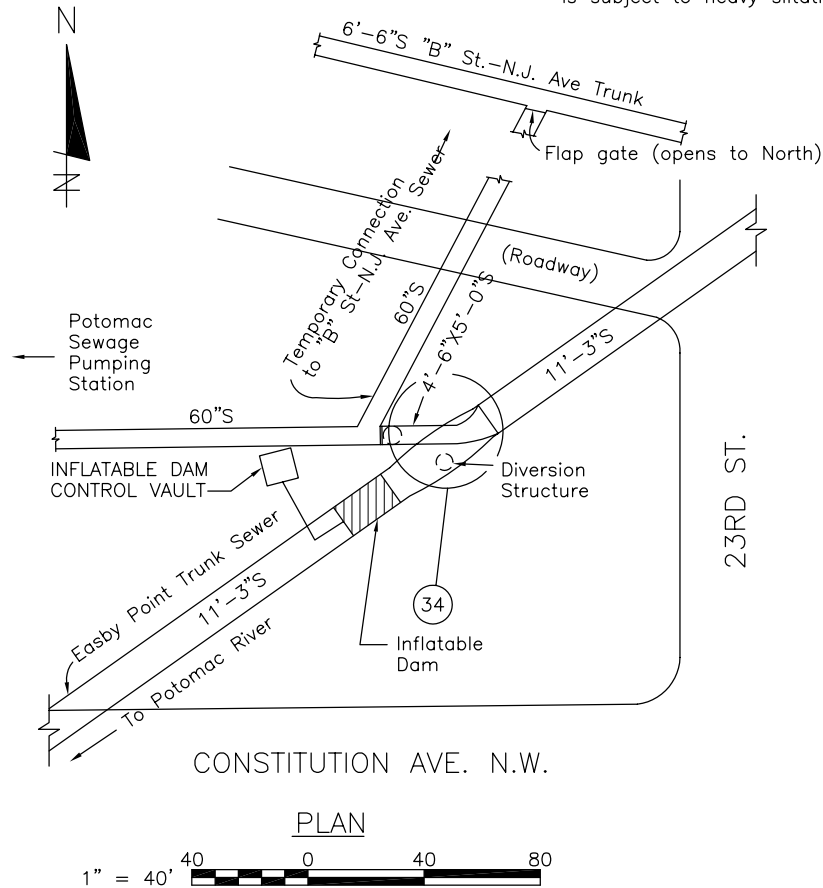
REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.  
 33

STRUCTURE NO. 34 - 23rd Street, North of Constitution Avenue N.W. This structure has a cunette-type regulator and an inflatable dam which directs flow into a 4'-6" X 5'-0" Combined Sewer which discharges into the Wet Well of the Potomac Sewage Pumping Station. Flow up to the capacity of the down stream Combined Sewer network is thus delivered for treatment. Extreme storm flows are discharged to the Potomac River through the 11 ft. 3 inch Easby Point Trunk Sewer.

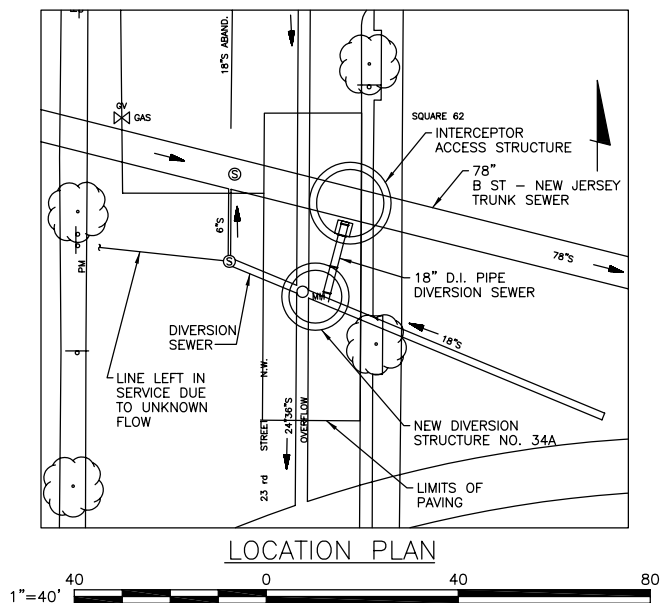
Immediately west of Structure No. 34 on the connection to the Potomac Pumping Station is another 60 inch sewer with a flap gate that opens into the B St.-New Jersey Avenue Sewer. This was originally built for temporary flow routing during construction at the Potomac Sewage Pumping Station and is no longer in use.

No permanent bulkhead has been installed in the line, however, it is subject to heavy siltation.



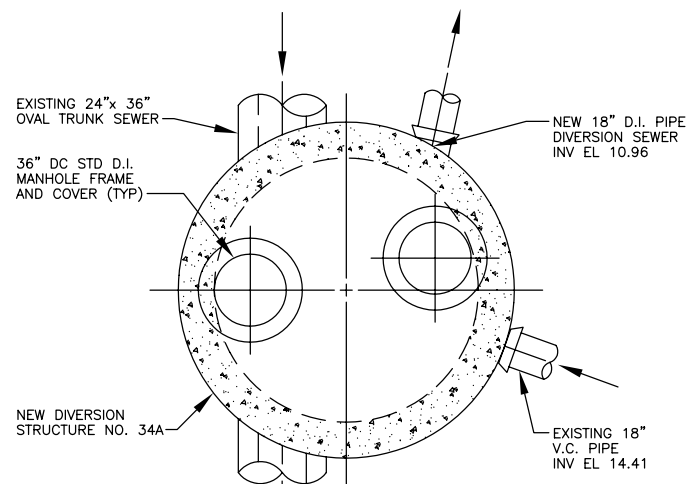
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.  
34

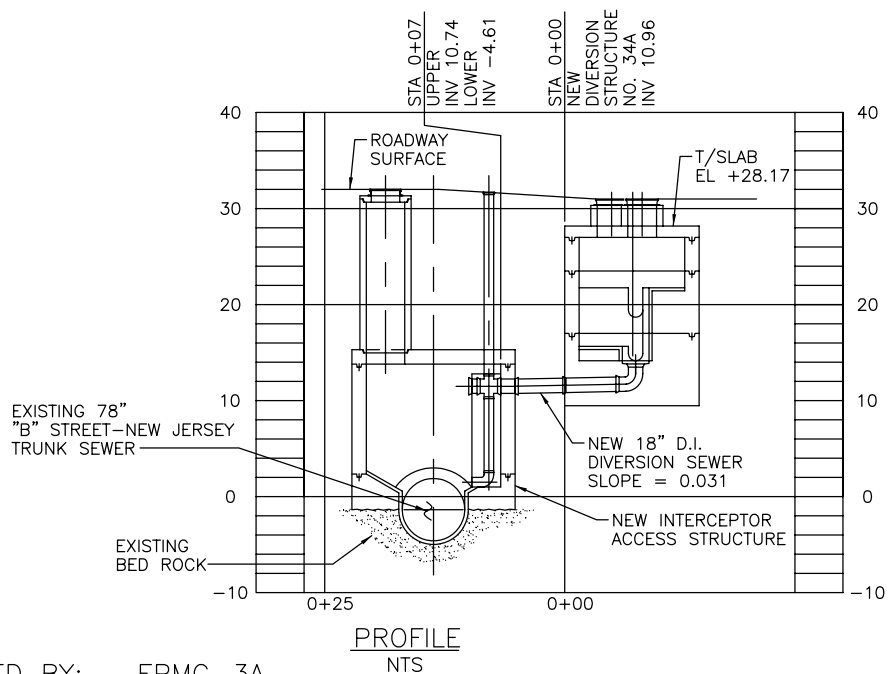


# **STRUCTURE NO. 34a, 23rd STREET NEAR C STREET NW**

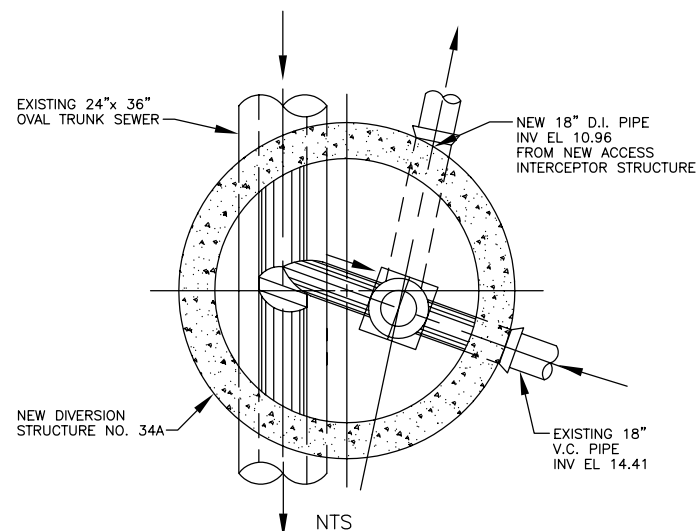
Dry Weather Flow enters the Structure through an 18-inch and 2-ft by 3-ft Sewer and is diverted to the B Street - New Jersey sewer. Overflow spills over a Weir to the Easby Point Trunk Sewer, which ultimately discharges to the Potomac River after one subsequent Interception Point (Structure No. 34).



STR-34A-PLAN  
NTS



PROFILE  
NTS

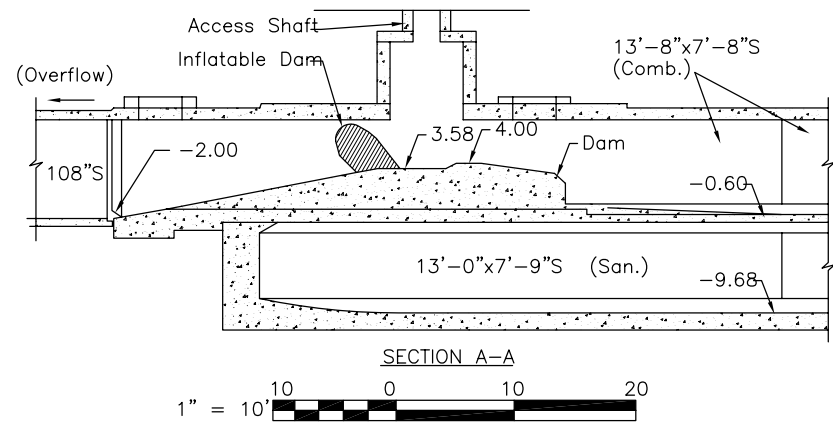
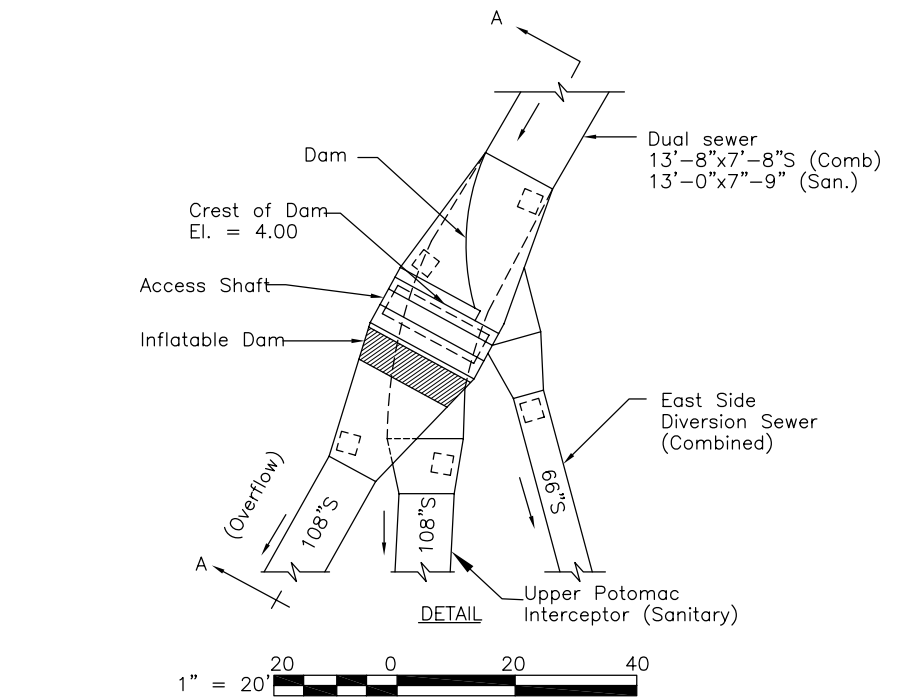
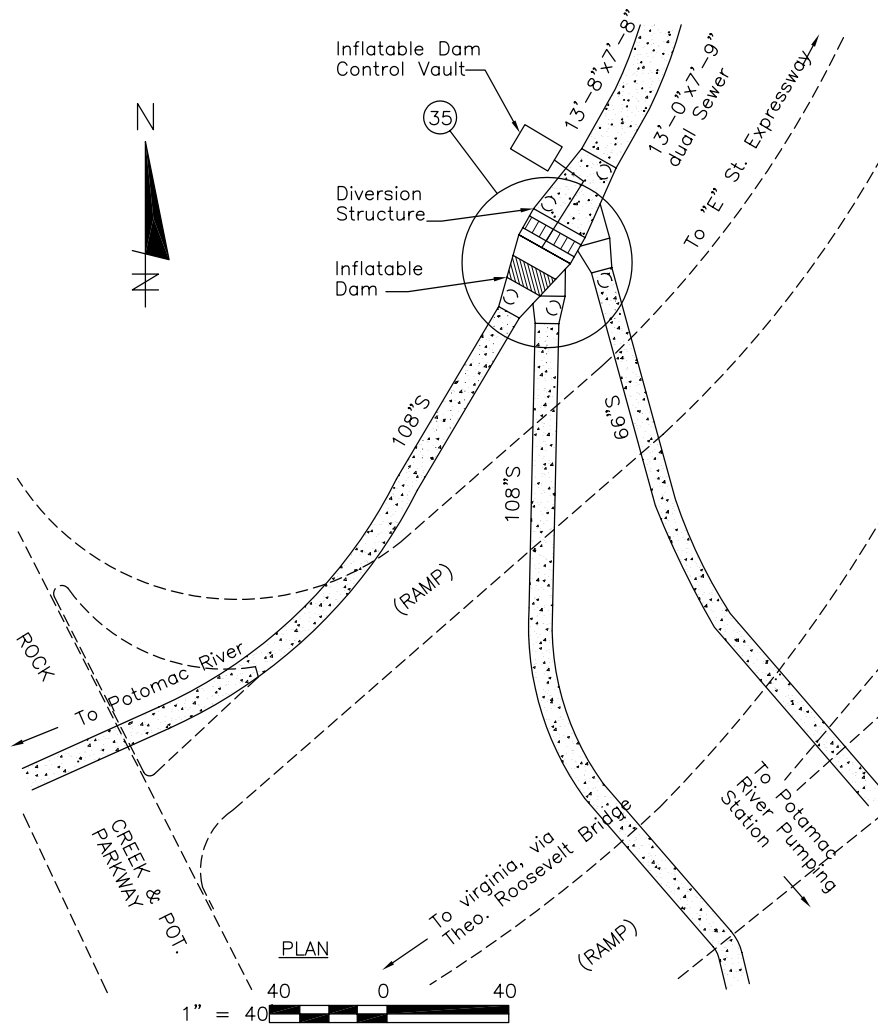


STR. 34A-SECTIONAL PLAN  
NTS

REVISED BY: EPMC-3A  
REVISED DATE: JANUARY 2006  
ASSOCIATED NPDES OUTFALL # 020

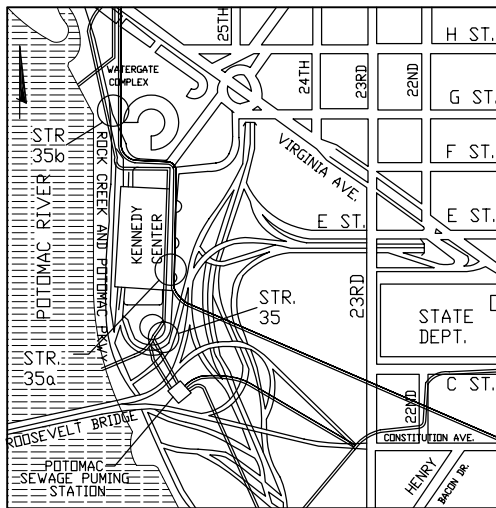
STRUCTURE NO.  
34a

STRUCTURE NO. 35 Rock Creek and Potomac Parkway Northeast of Roosevelt Bridge, N.W. This structure has a sump-type regulator, a masonry dam and an inflatable dam all of which contain the Combined Sewage flow within the 13 ft. 8 inch by 7 ft. 8 inch Combined Sewer for discharge into the 66 inch diversion connection which conveys the flow to the Potomac Pumping Station. Extreme storm flow is discharged into the Potomac River through a 108 inch Overflow Sewer. (See Structure No. 35a for location schematic)

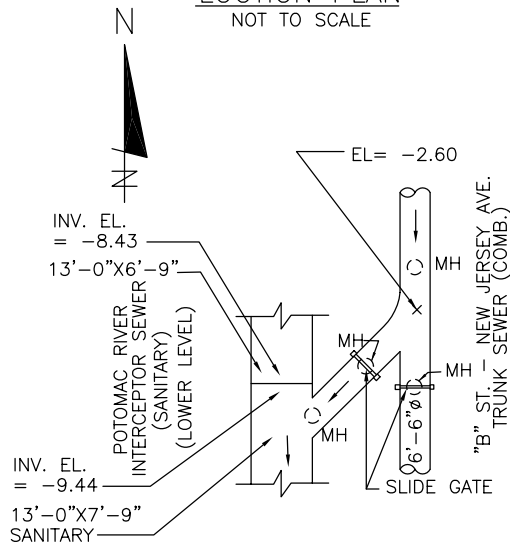


REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 021

STRUCTURE NO.  
 35



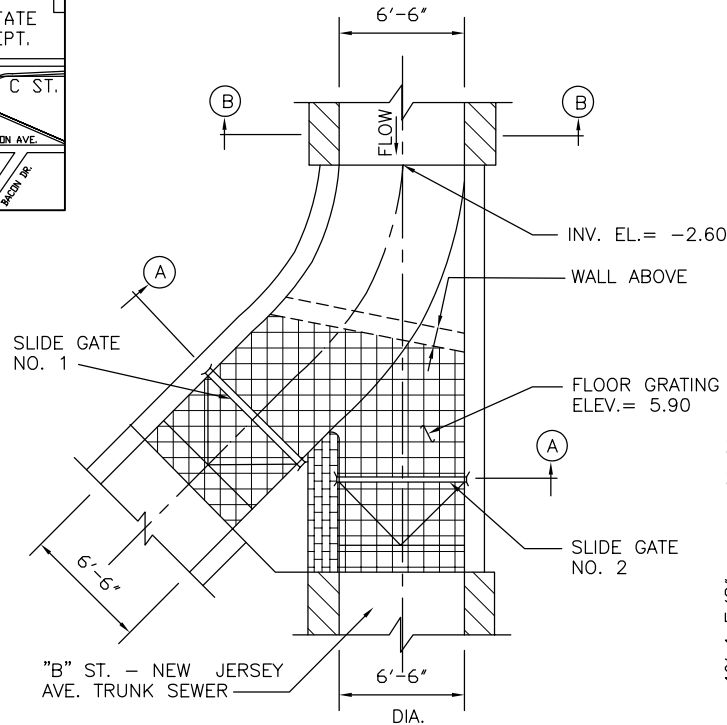
LOCATION PLAN  
NOT TO SCALE



SCHEMATIC

35a KENNEDY CENTER GARAGE (FORMERLY 26TH & D ST. N.W.)

At this location there are two aluminium Slide Gates which enable control of flow in the "B" St. - New Jersey Avenue Trunk Sewer (which is a continuation of the Rock Creek Main Interceptor). Flow may continue in the Trunk Sewer or may be diverted to the Potomac Interceptor Sewer (lower level of the "piggy-back" Sewer). Access is via manholes in the Kennedy Center garage floor.

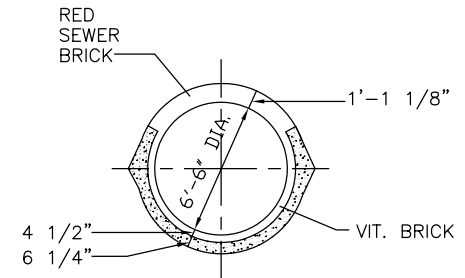


▨ = LIMITS OF FLOOR GRATING

SECTIONAL PLAN

KENNEDY CENTER GARAGE

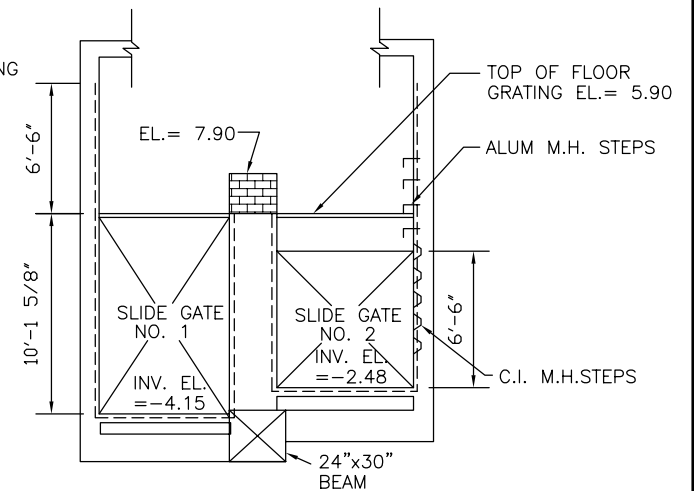
NOT TO SCALE



SECTION B-B

NOTE:

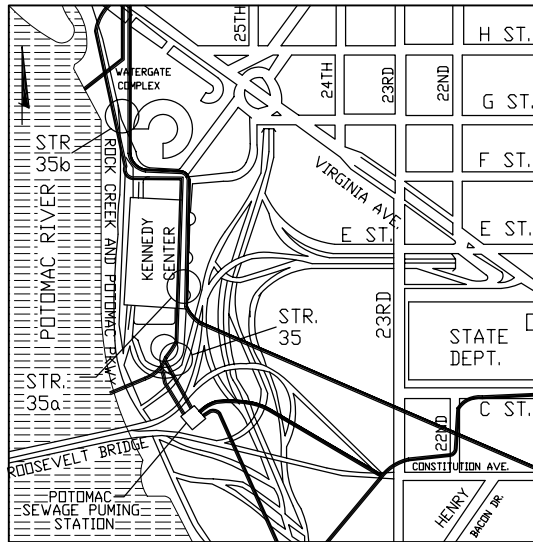
1. BOTH GATES FOUND TO BE OPEN APRIL 23, 1992
2. ACCESS TO SLIDE GATES IS VIA TWO MANHOLES IN THE KENNEDY CENTER GARAGE. THERE ARE TWO OVERHEAD EYEBOLTS IN THE GARAGE CEILING TO FACILITATE SLIDE GATE OPERATION.



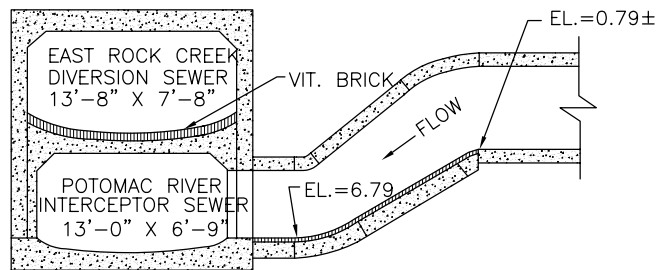
SECTION A-A

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
35a



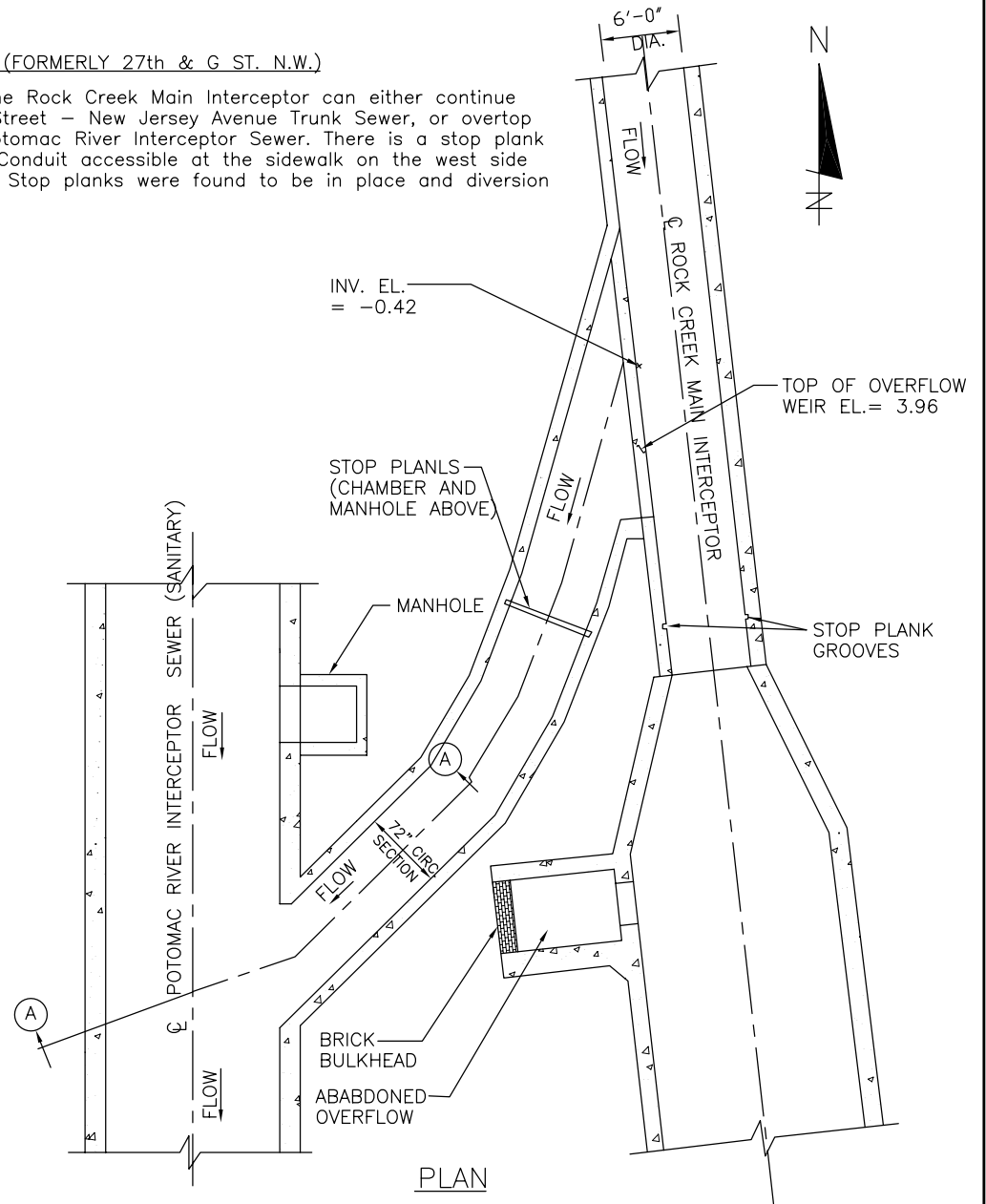
LOCATION PLAN  
NOT TO SCALE



SECTION A-A

### 35b WATERGATE DIVERSION (FORMERLY 27th & G ST. N.W.)

At this location, Flow in the Rock Creek Main Interceptor can either continue downstream into the "B" Street - New Jersey Avenue Trunk Sewer, or overtop a Weir to flow into the Potomac River Interceptor Sewer. There is a stop plank Chamber in the Diversion Conduit accessible at the sidewalk on the west side of the Watergate complex. Stop planks were found to be in place and diversion closed in April 1992.



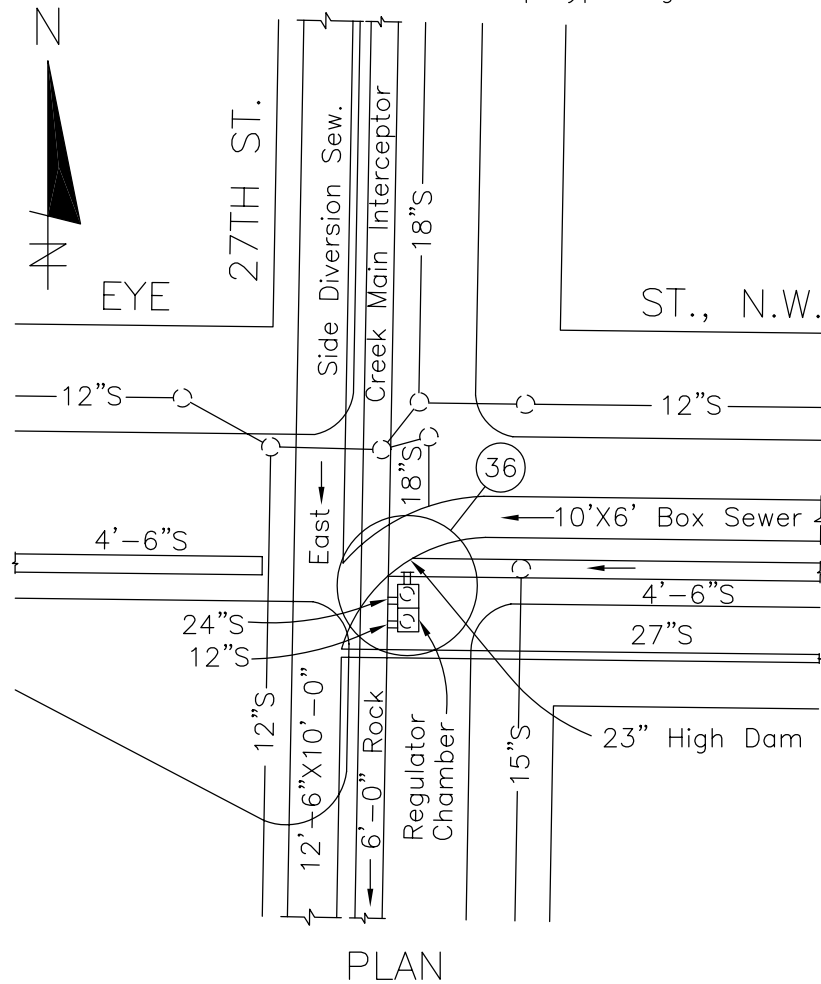
WATERGATE DIVERSION  
NOT TO SCALE

STRUCTURE NO.  
35b

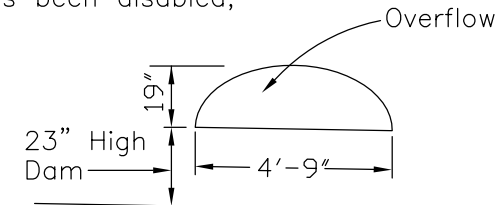
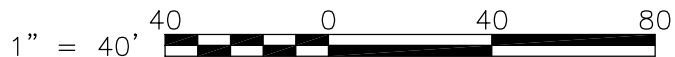
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 36. 27th and I Streets, N.W. This structure diverts normal Dry Weather Flow from the 4'-6" Combined Sewer in Eye Street N.W. through a 2'-6"x 3'-0" Opening and a 24" dia sewer into the 6'-0" Rock Creek Main Interceptor. Storm Flows overflow into the Rock Creek Diversion Sewer into the Potomac River.

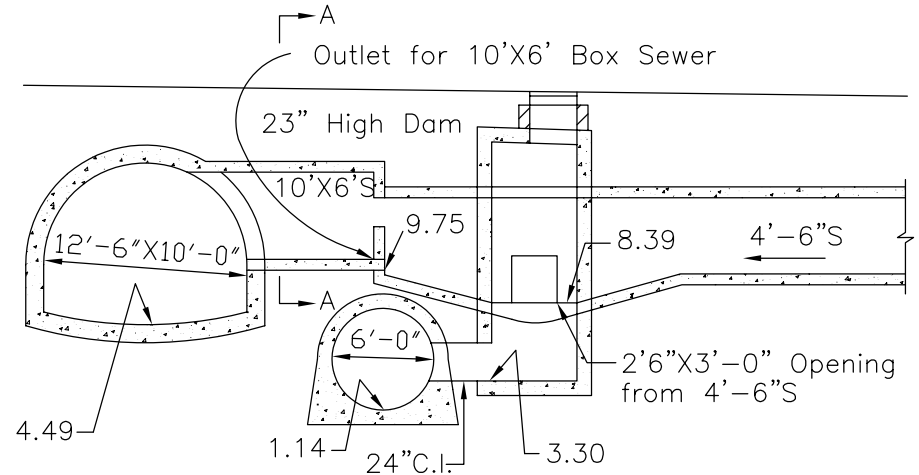
This was formerly a float type regulator. The float devise has been disabled, it is now a sump type regulator.



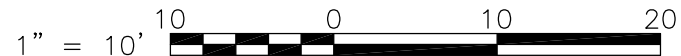
PLAN



SECTION A-A



DETAIL

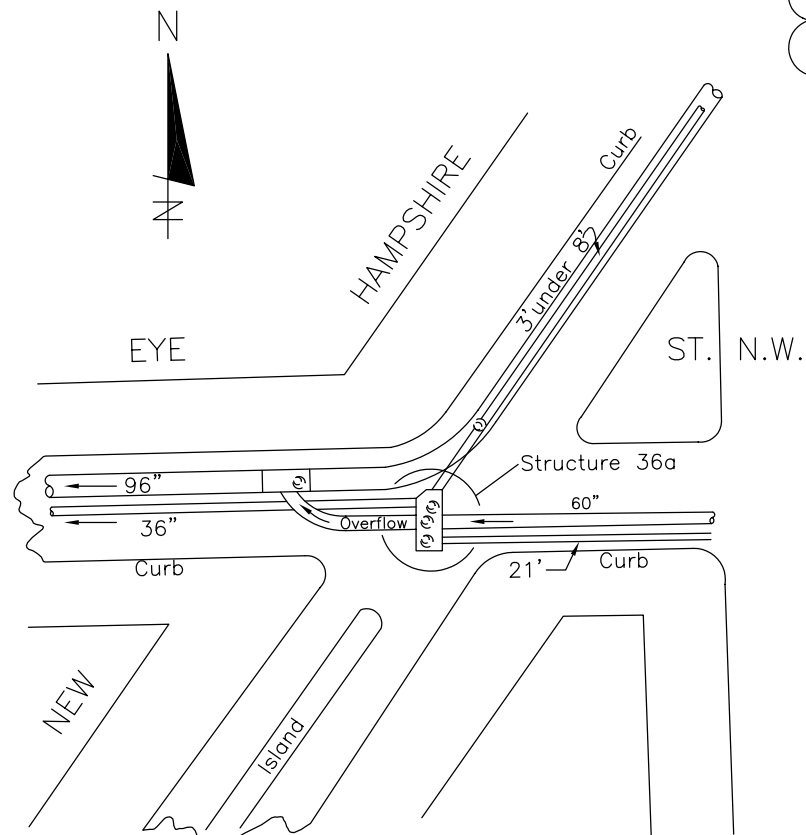


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO.  
36

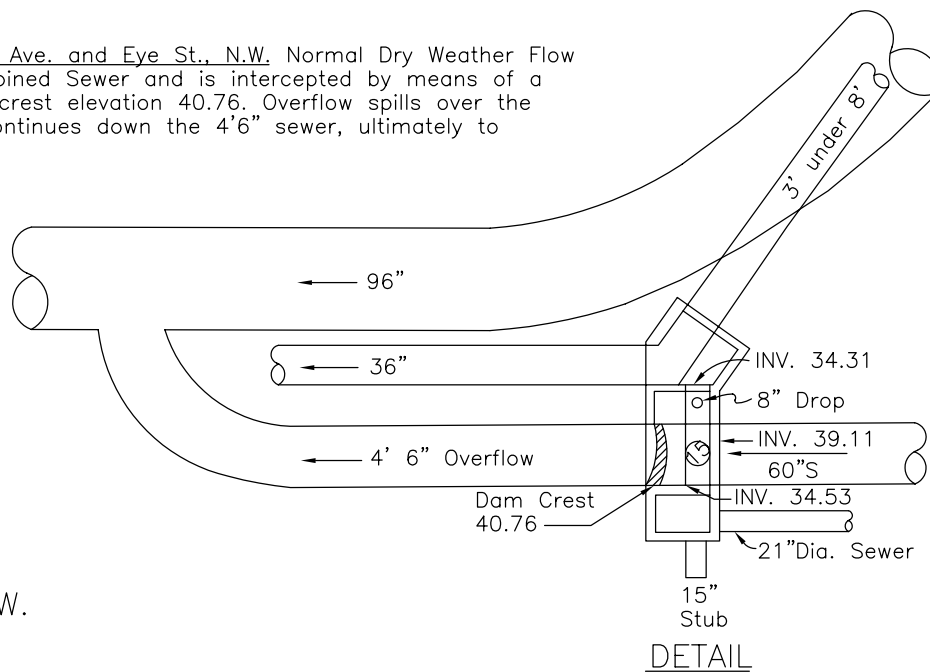


STRUCTURE NO. 36a, New Hampshire Ave. and Eye St., N.W. Normal Dry Weather Flow enters the structure via a 4'6" Combined Sewer and is intercepted by means of a 15" sump and contained by a dam crest elevation 40.76. Overflow spills over the downstream control weir dam and continues down the 4'6" sewer, ultimately to discharge to the Potomac River.

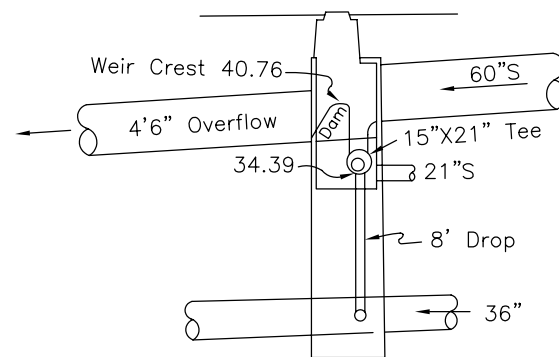


PLAN

1" = 100'



DETAIL



SECTION A-A

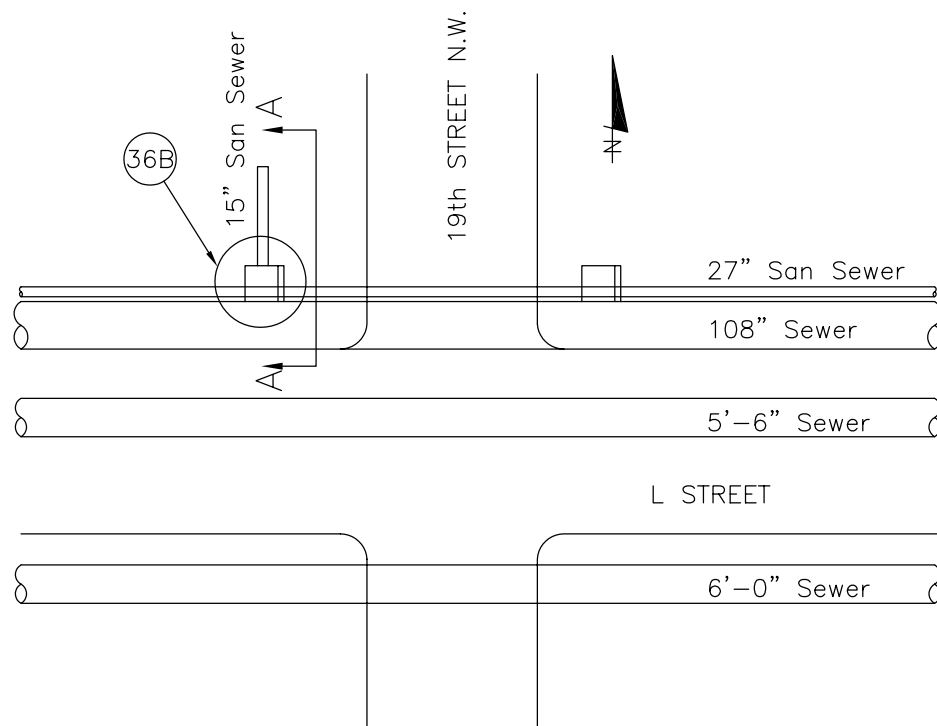
1" = 10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022

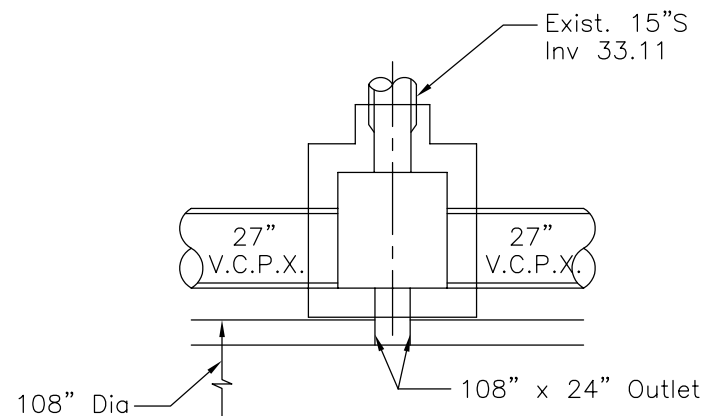
STRUCTURE NO.  
36a

# STRUCTURE NO. 36B – 19th & L STREET N.W.

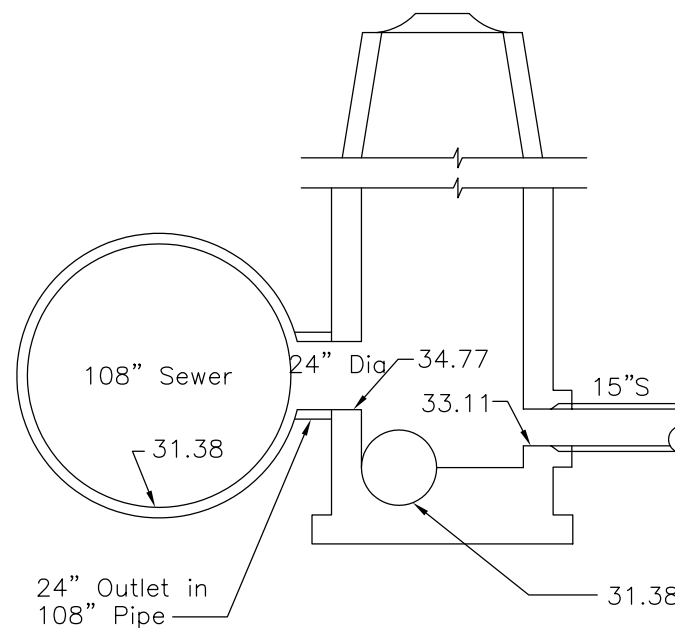
This structure is a relief for the 27-inch Sanitary Sewer just north of L Street. Relief is through a 24-inch pipe connecting to a tee in the 108-inch Slash Run Relief Sewer. The relief is 3.39 feet above the invert of the 27-inch sewer.



PLAN  
NOT TO SCALE



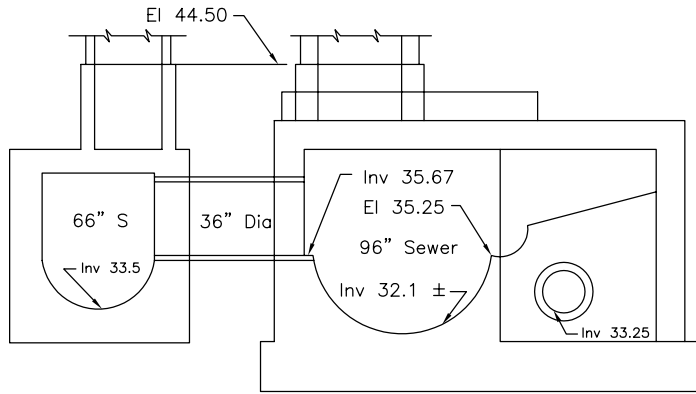
PLAN AT FLOW LINE  
STRUCTURE NO. 36B  
NOT TO SCALE



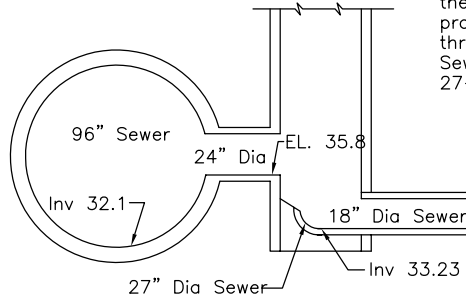
SECTION A-A  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022, 034

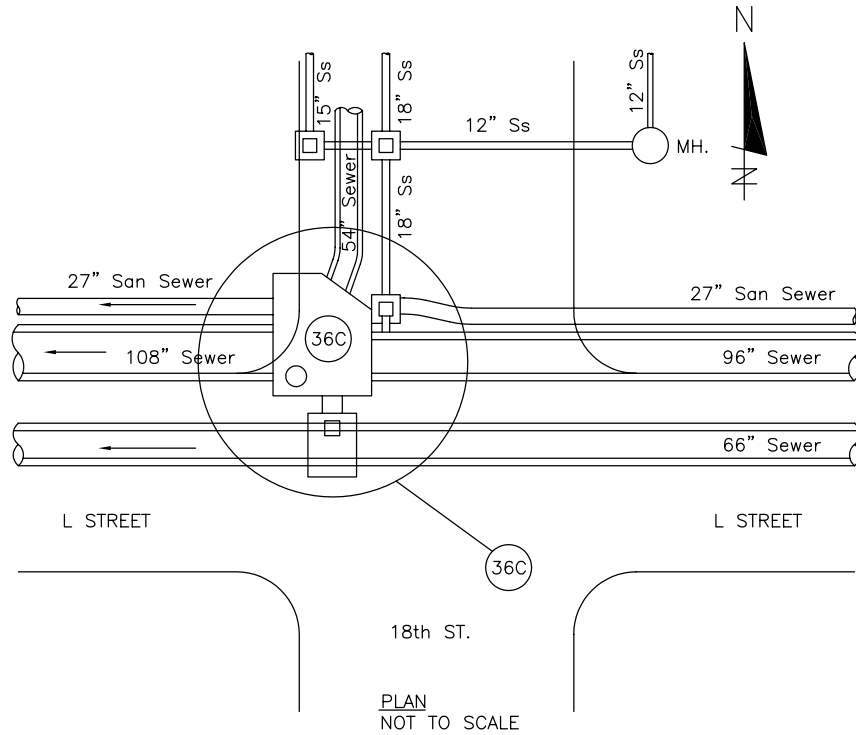
STRUCTURE NO.  
36b



SECTION A-A



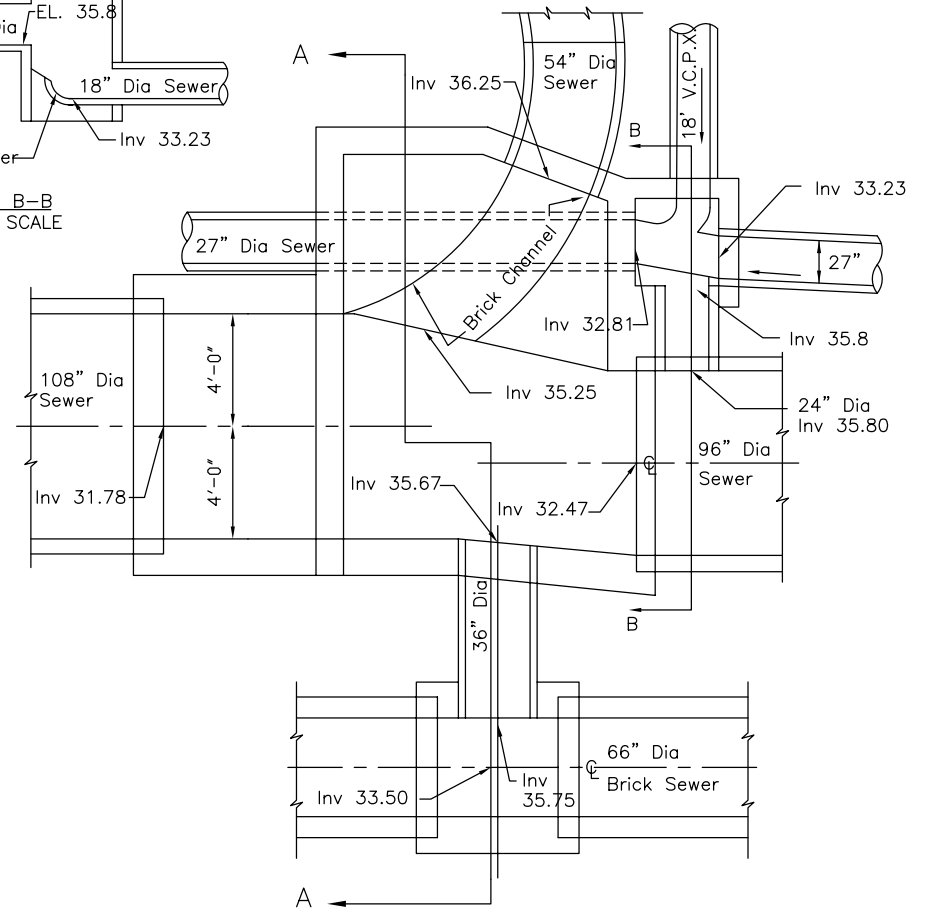
SECTION B-B  
NOT TO SCALE



PLAN  
NOT TO SCALE

STRUCTURE NO. 36C - 18th & L STREET N.W.

This structure serves as a Junction Chamber for the 54-inch sewer in the 18th Street. The 96-inch sewer in L Street east of 18th and the 108-inch continuation of the Slash Run Relief Sewer. It also provides relief for the 27-inch Sanitary Sewer parallel to L Street through a 24-inch diameter connection to the 96-inch Slash Run Relief Sewer. The relief connection is 3 feet above the invert of the 27-inch sewer.



PLAN AT FLOW LINE  
STRUCTURE 36C  
NOT TO SCALE

STRUCTURE NO.  
36c

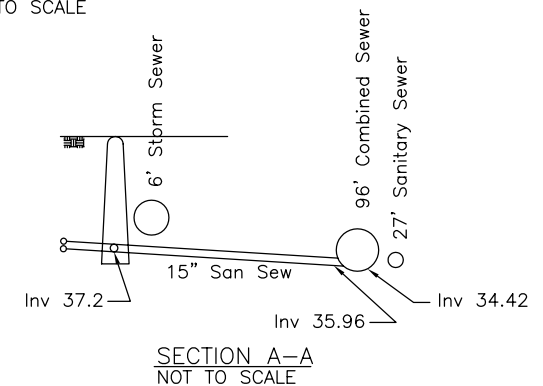
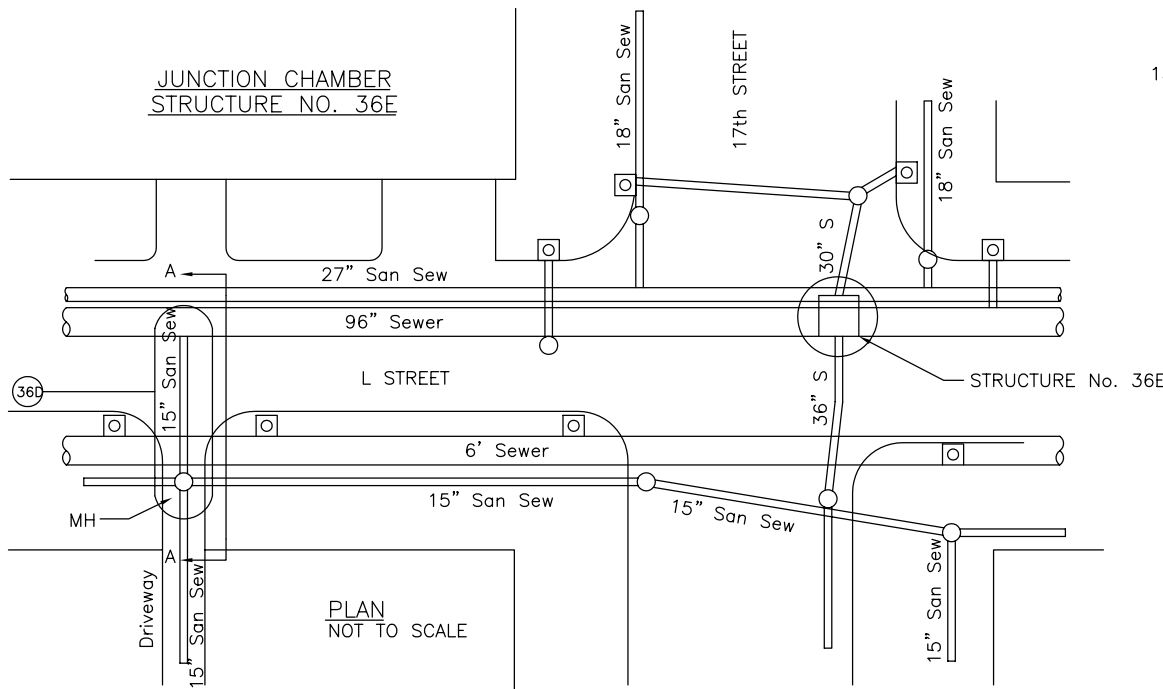
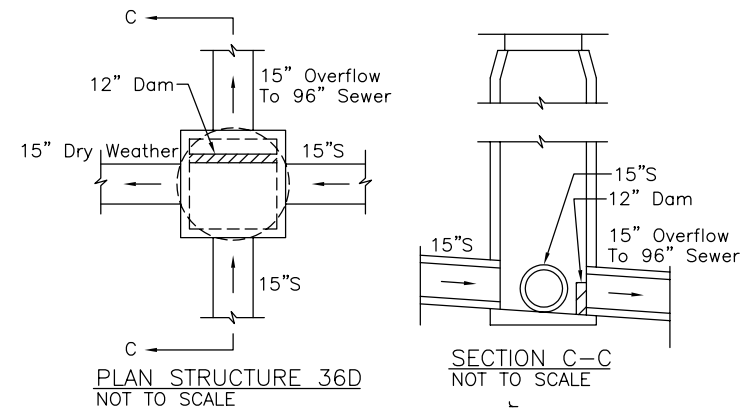
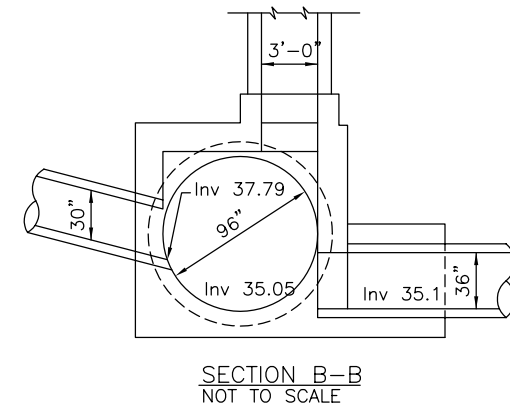
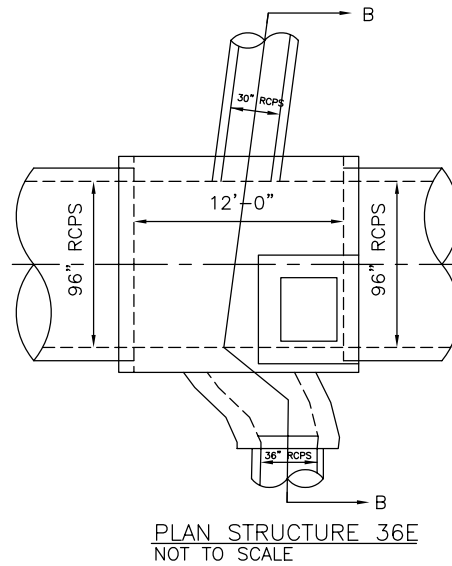
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 36D - 17th & L STREET N.W.

Structure No. 36D connects the 15-inch Sanitary Sewer to the 96-inch Slash Run Relief Sewer approximately 120 feet west of 17th Street.

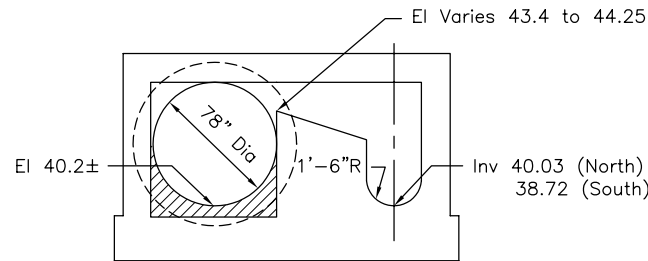
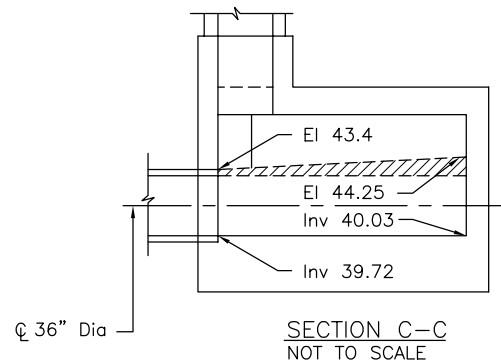
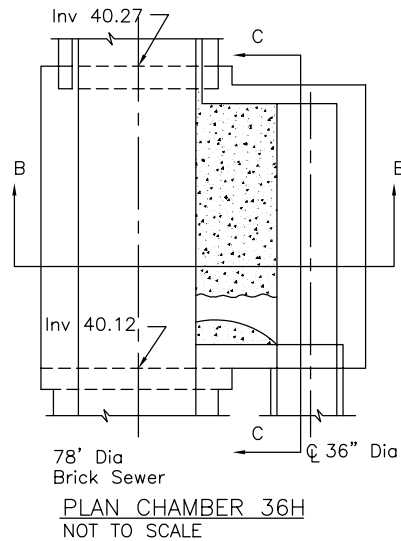
STRUCTURE NO. 36E

Structure No. 36E is a Junction between the 96-inch Slash Run Relief Sewer, the 30-inch sewer from the north and the 36-inch sewer from the south in 17th Street.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.  
36d, 36e

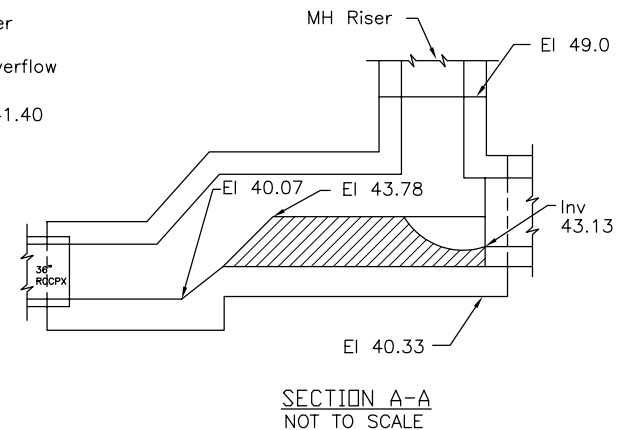
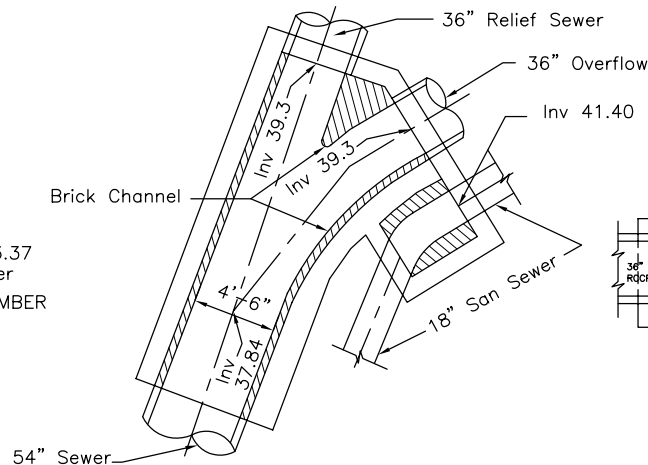
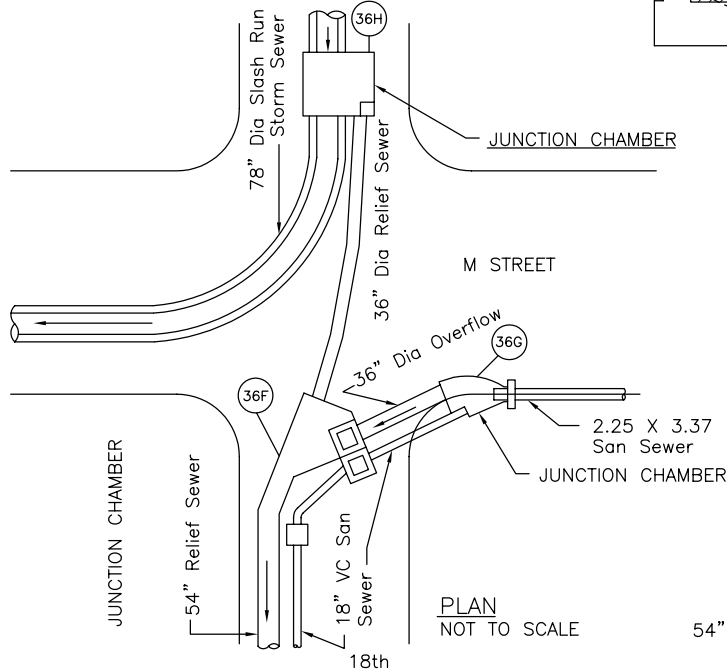
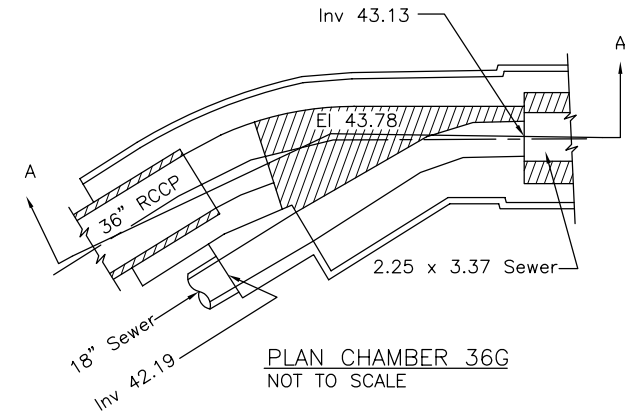


STRUCTURES NO. 36FGH - 18th & M STREET N.W.  
There are 3 Structures at this location.

STRUCTURE NO. 36F  
Is a Junction Chamber which joins the 36-inch Storm Overflow from the Weir in Structure No. 36G and 36-inch Combined Overflow from the Weir in Structure No. 36H and discharges into the 54-inch Slash Run Relief Sewer.

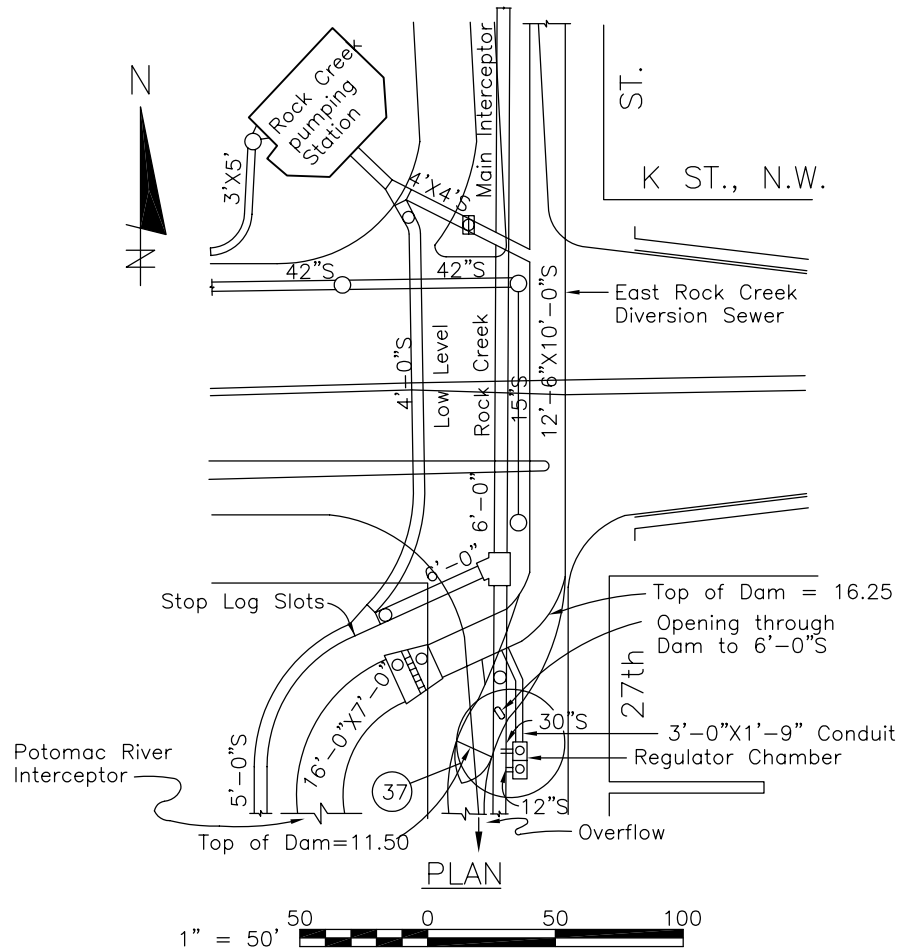
STRUCTURE NO. 36G  
Is a Weir type Combined Sewer Relief. Normal Dry Weather Flow is contained in the 18-inch Sanitary Sewer. Excess flow is discharged over the Weir into the 36-inch Relief Sewer.

STRUCTURE NO. 36H  
Is a Weir type structure that permits Storm Overflow from the 78-inch Slash Run Sewer into a 36-inch Relief Sewer discharging into Junction Chamber Structure No. 36F.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022, 034

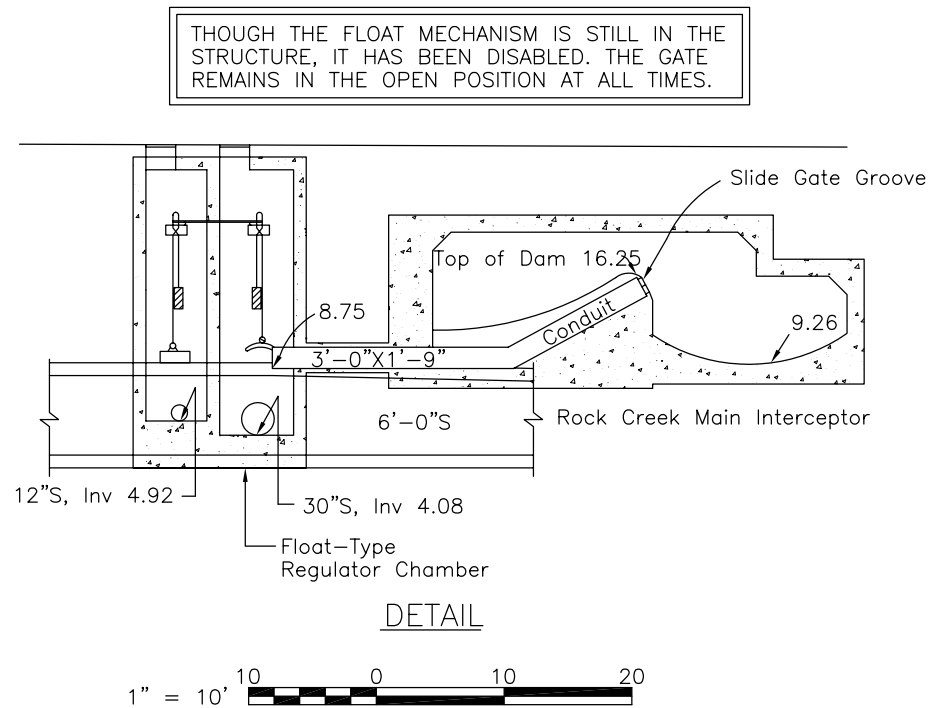
STRUCTURE NO.  
36f, 36g, 36h



STRUCTURE NO. 37. 27th and K Streets, N.W. This structure consists of one intercepting connection and one diversion connection.

The intercepting connection has a float-type regulator, supplemented by a slot-type Dry-Weather connection downstream from a masonry dam, the Storm Overflow is formed by a masonry dam. The 12-ft. 6-in. by 10-ft. East Rock Creek Diversion Sewer enters the structure, and the Dry-Weather Flow is diverted by a masonry dam into a 14-ft. 6-in. by 6-ft. 6-in., later a 16-ft. by 7-ft. Potomac River Interceptor, conveying the flow to the Potomac Sewage Pumping Station. Additional Dry-Weather Flow during periods of higher flow is diverted into a float-type regulator through a 3-ft. by 1-ft. 9-in. conduit, and a 30-in. connection conveys the flow into the Rock Creek Main Interceptor. There is, also a slot cut in the dam directly over the Rock Creek Main Interceptor.

The Overflow line is the continuation of the East Rock Creek Diversion Sewer.

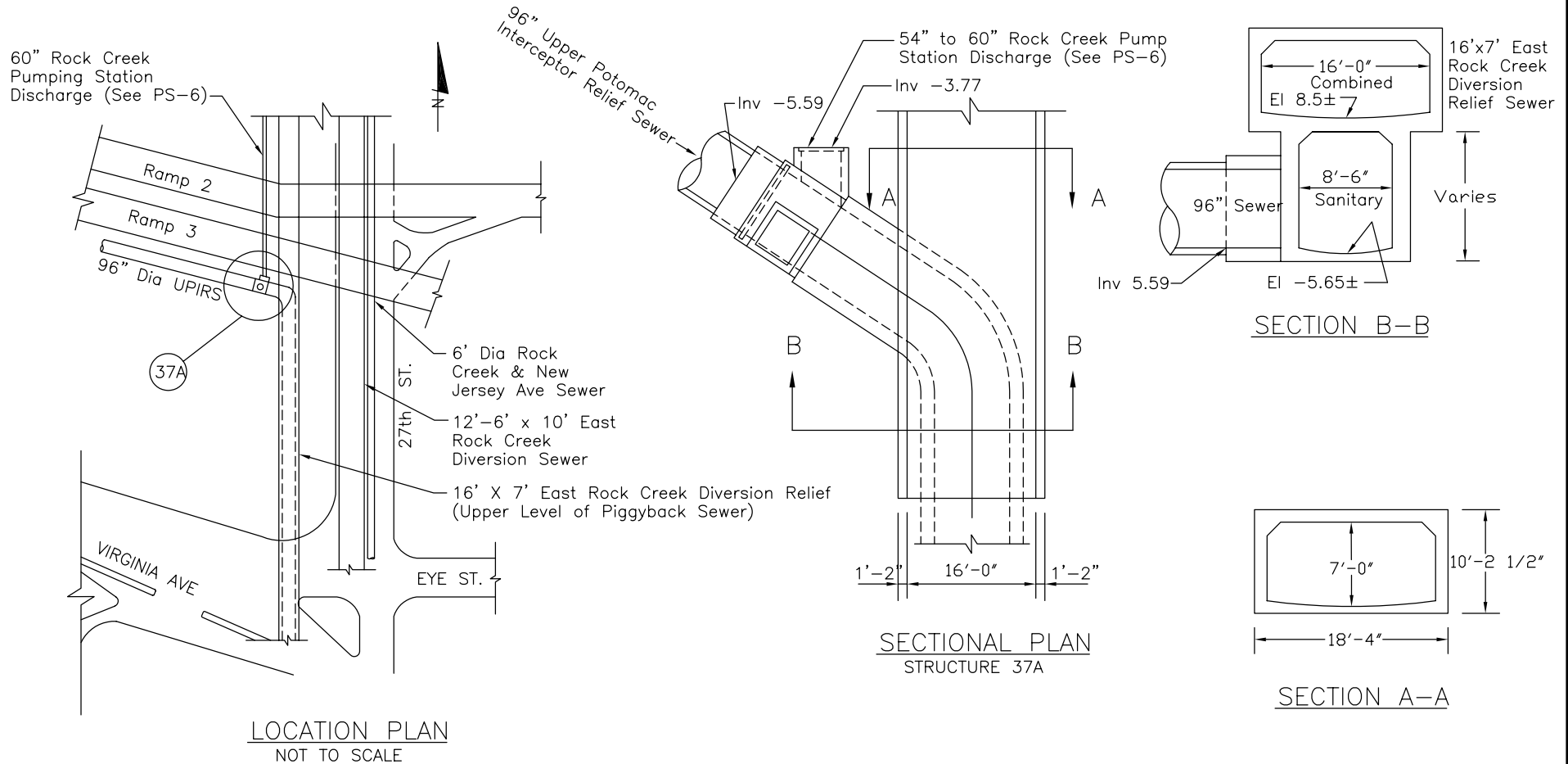


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 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO.  
 37

STRUCTURE NO. 37A - 27th STREET BETWEEN K & I STREET N.W.

This structure is the start of the Piggyback Sewer where the 16'x 7' Relief of the East Rock Creek Diversion Combined Sewer is above an 8'-6" wide Sanitary Sewer containing the flow from the 96-inch Upper Potomac Interceptor Relief Sewer and the 60-inch Rock Creek Sewage Pumping Station discharge.

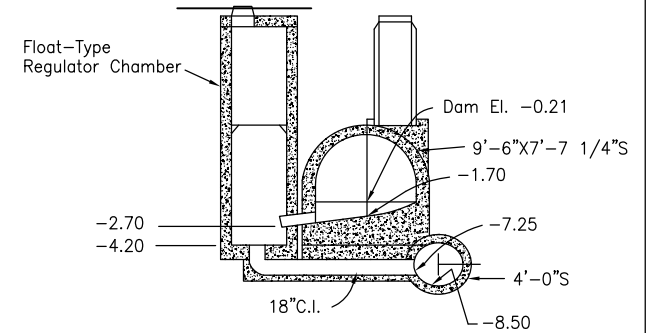
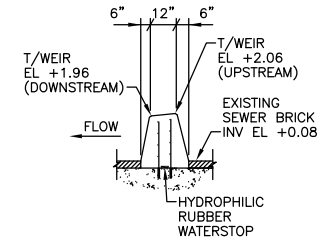
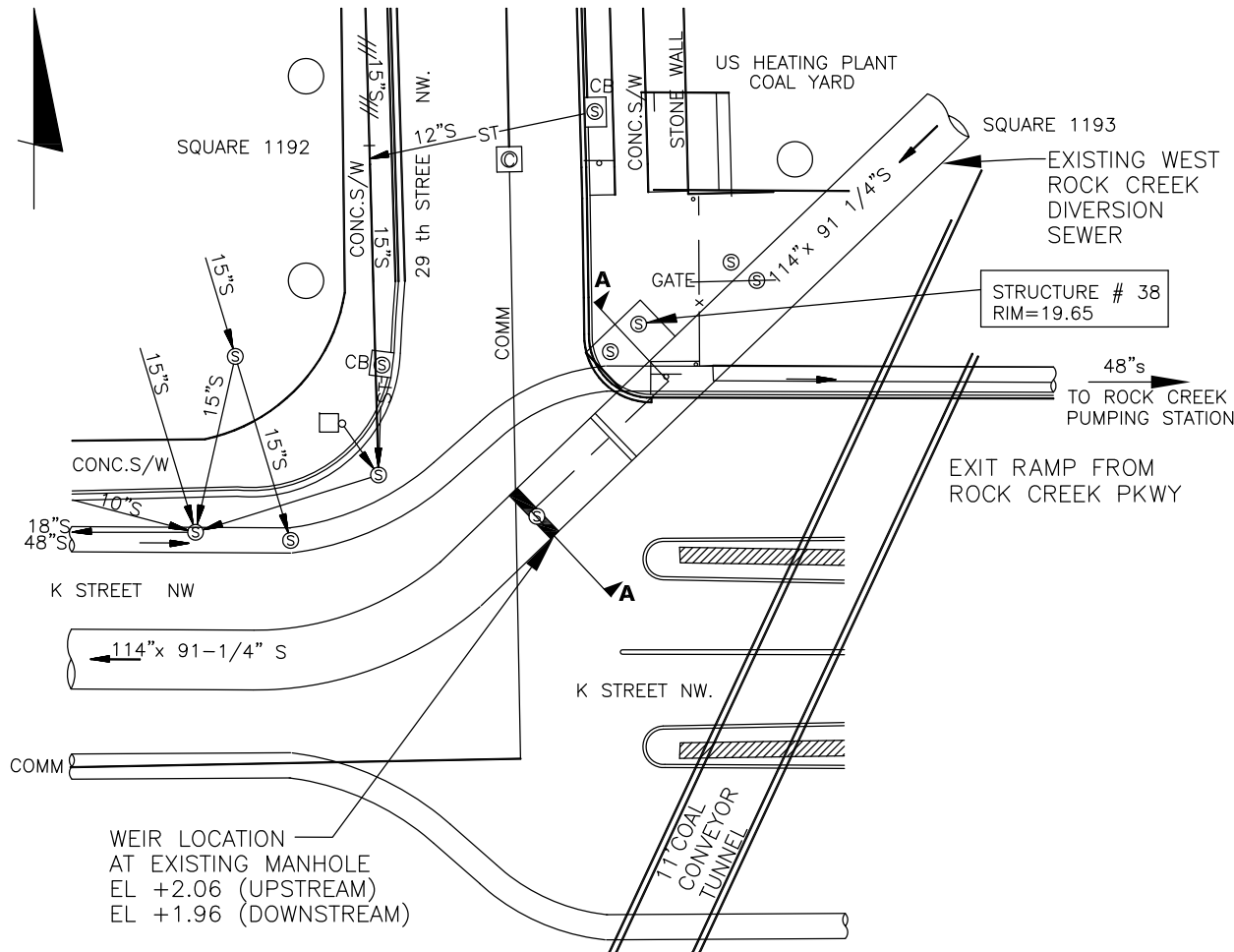


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
37a

**STRUCTURE NO. 38, 29th STREET AND K STREET NW**

This Structure was formerly a float type regulator. Now it is a Sump Type Regulator. The Storm Overflow is formed by the continuation of the Diversion Sewer downstream from a masonry Dam. The West Rock Creek Diversion Sewer enters the Structure, and an 18-inch wide by 12-inch high rectangular intercepting connection conveys the Dry-Weather Flow and an 18-inch intercepting connection conveys the Flow into the Upper Potomac Interceptor. The 9'-6" by 7'-7 1/4" Overflow Line ultimately discharges to the Potomac River after a subsequent Interception Point (Structure No. 38a).



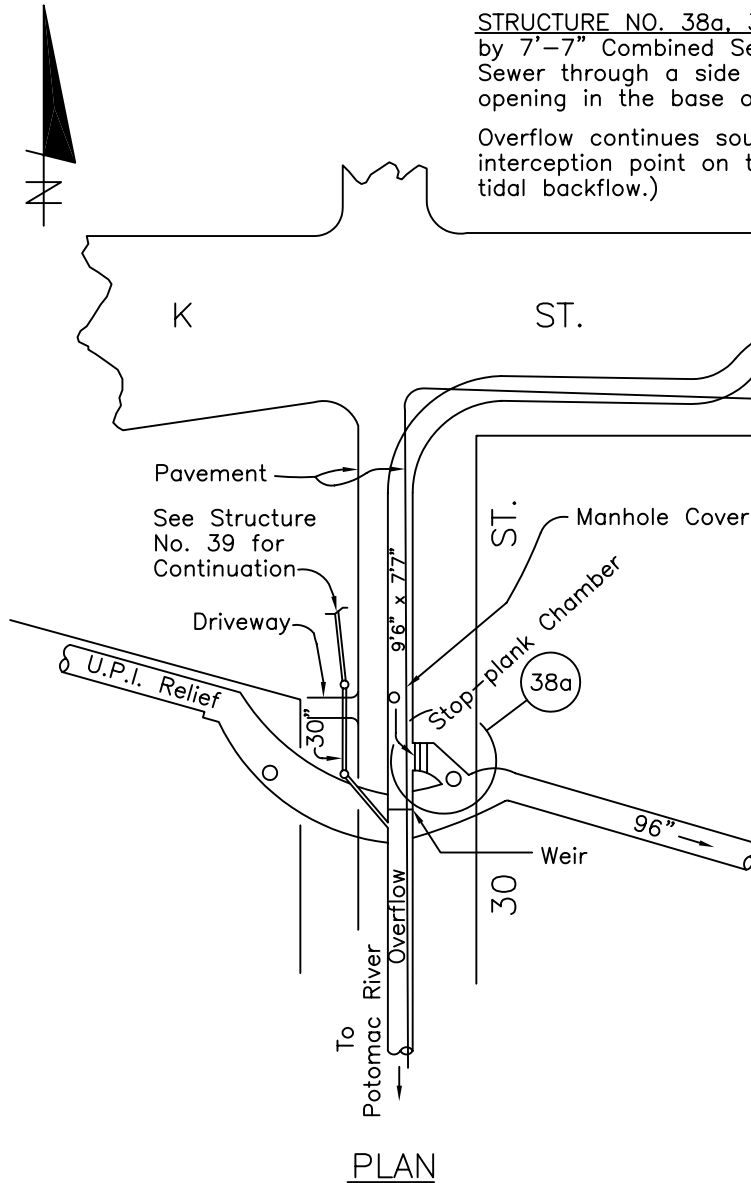
**STRUCTURE NO. 38**  
**LOCATION PLAN**



REVISED BY: EPMC-3A  
REVISED DATE: JANUARY 2006  
ASSOCIATED NPDES OUTFALL # 024

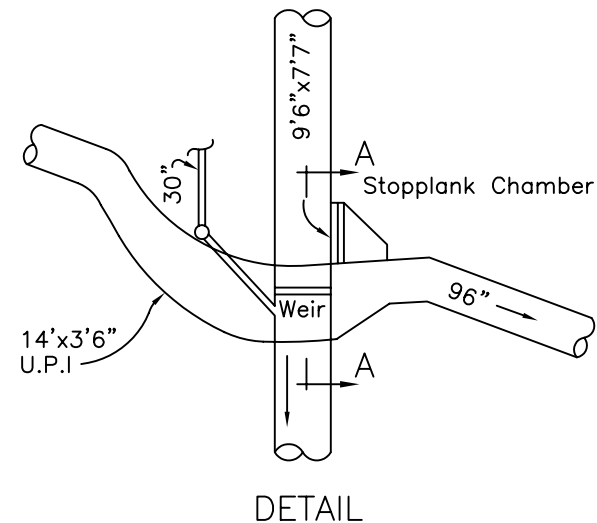
**STRUCTURE NO.**  
**38**



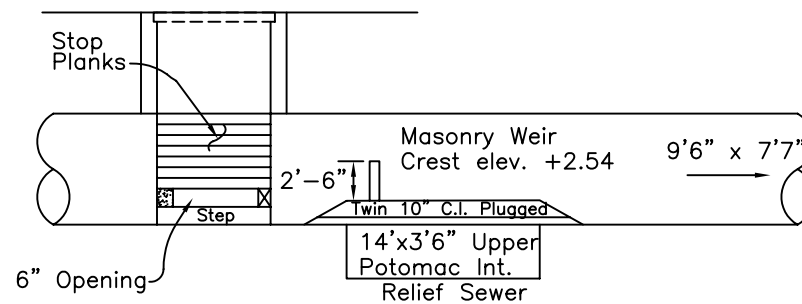


PLAN

1" = 100'



DETAIL



SECTION A-A

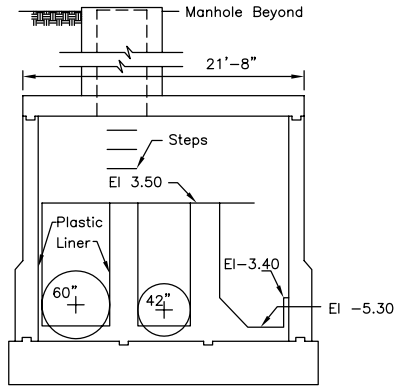
1" = 10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 024

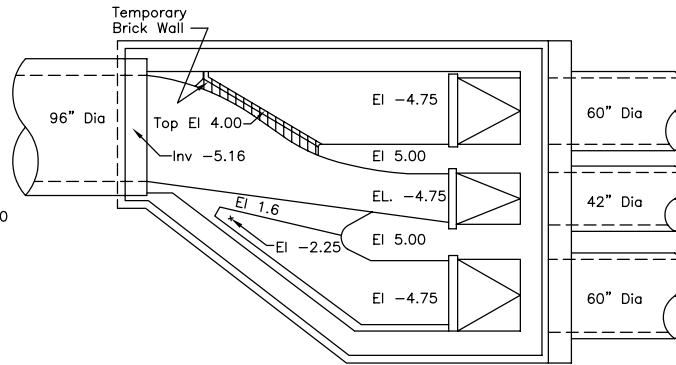
STRUCTURE NO.  
38a

# STRUCTURE NO. 38B – UPIRS SIPHON AT ROCK CREEK

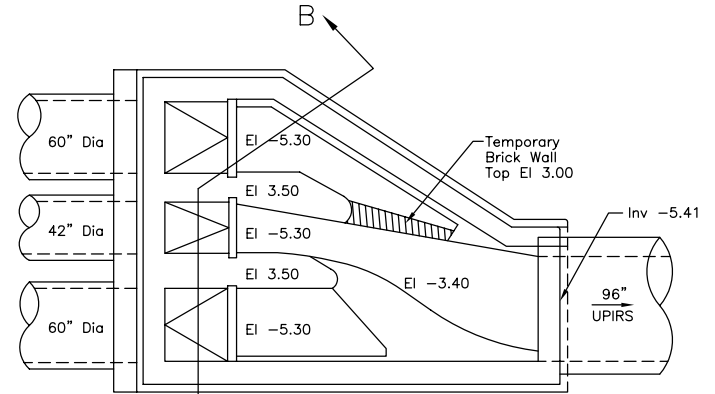
This structure carries the Upper Potomac Interceptor Relief Sewer under Rock Creek in two 60-inch and 42-inch Siphons. The 96-inch UPIRS is split in an Inlet Structure and consolidated in a Outlet Chamber on opposite sides of Rock Creek. The north 60-inch Siphon is presently bulkheaded in both Chambers.



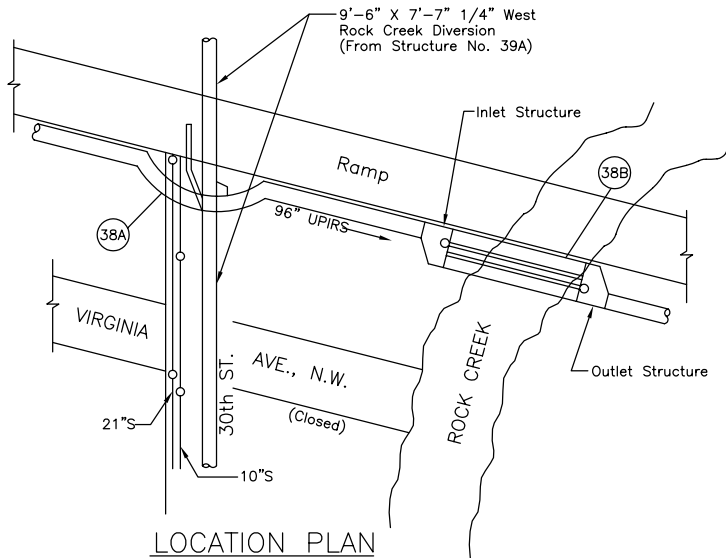
SECTION B-B  
NOT TO SCALE



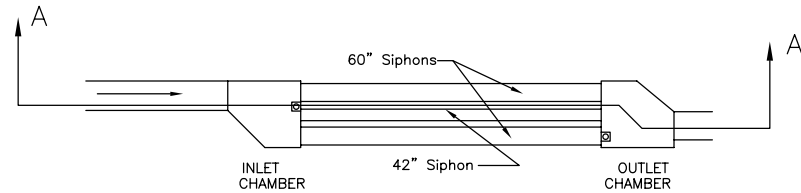
INLET STRUCTURE  
NOT TO SCALE



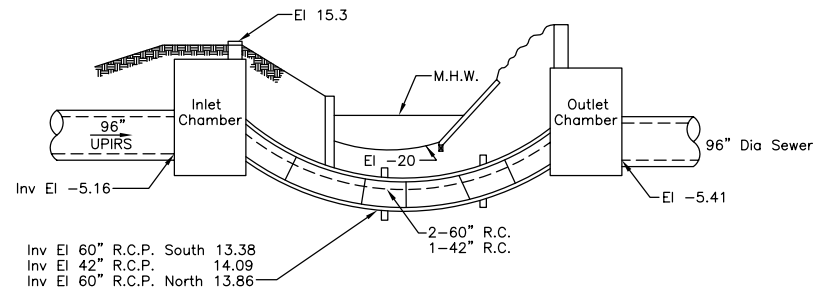
OUTLET STRUCTURE  
NOT TO SCALE



LOCATION PLAN  
NOT TO SCALE



PLAN STRUCTURE 38B  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

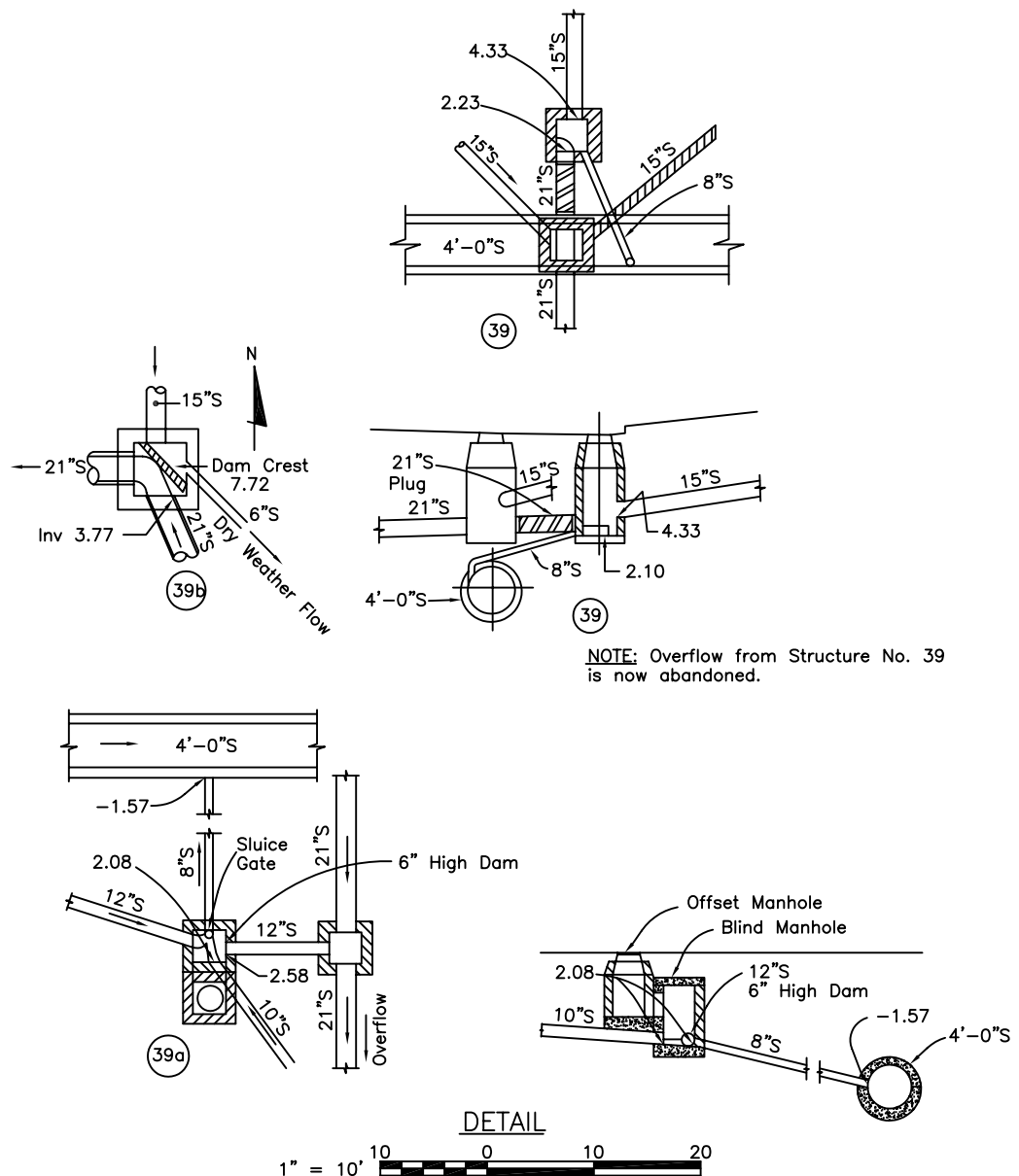
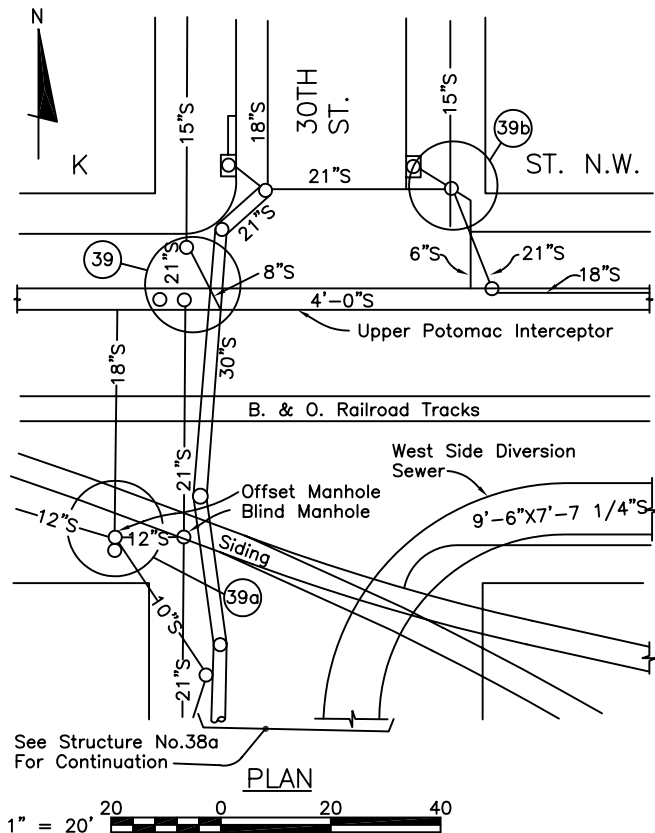
STRUCTURE NO.  
38b

30th and K Streets N.W. There are three Overflow Manholes at this location, each having sump-type regulators. The intercepting connections discharge to the Potomac River. The Storm overflows are formed by the elevated position of the Overflow pipes and by dams.

STRUCTURE NO. 39. A 15-inch Combined Sewer enters the Overflow Manhole and there is an 8-inch intercepting connection. The previously used 21-inch overflow connection has been bulkheaded.

STRUCTURE NO. 39a. A 10-inch Combined Sewer and 12-inch Combined Sewer enter the Overflow Manhole, and there is an 8-inch intercepting connection. A 6-inch high dam has been built in the 12-inch overflow connection to direct Dry Weather Flows into the 8-inch Interceptor.

Structure No. 39b. A 15-inch Combined Sewer enters the Overflow Structure and overflows over a weir dam crest elev. 7.72. Dry Weather Flow is through a 6-inch sewer into the Upper Potomac Interceptor. The overflow line is 21-inch diameter.



NOTE: Overflow from Structure No. 39 is now abandoned.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 024

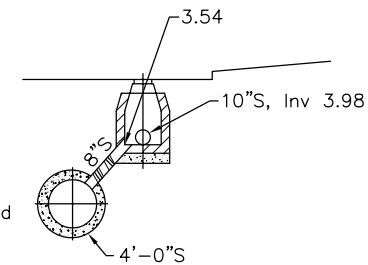
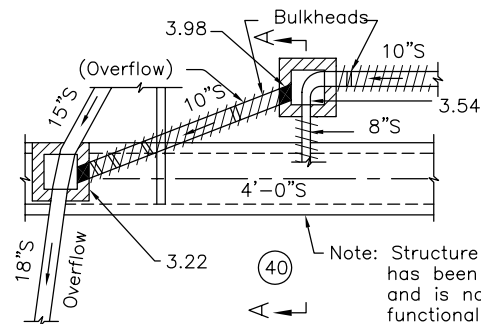
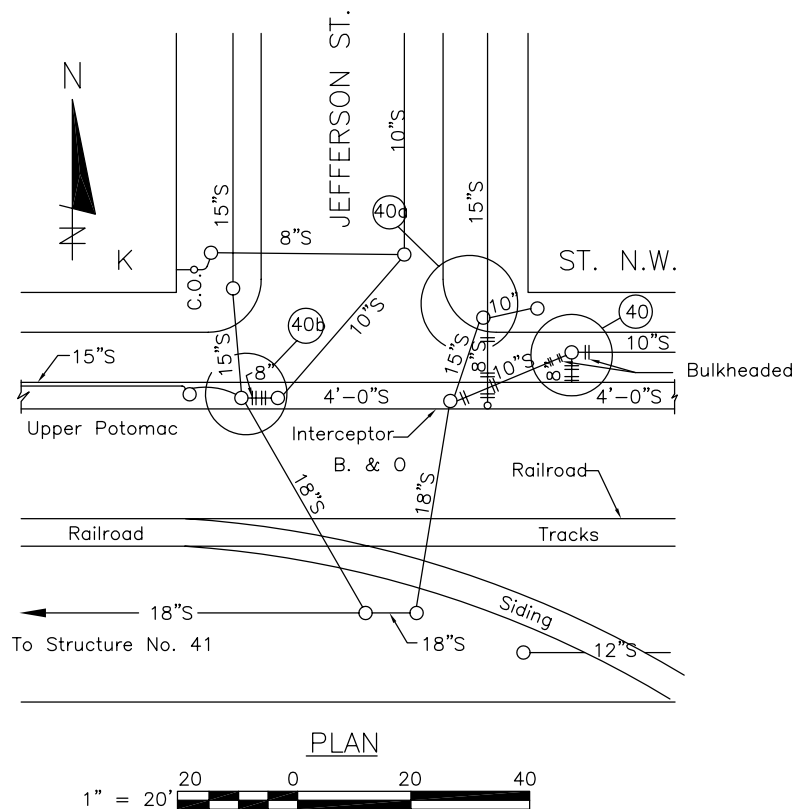
STRUCTURE NO.  
39, 39a, 39b

JEFFERSON and K STREETS N.W. There are three Manholes at this location.

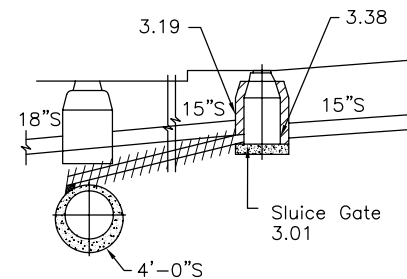
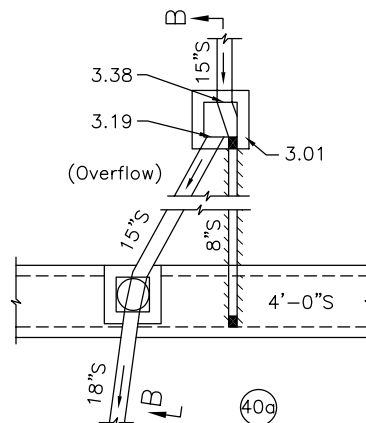
STRUCTURE NO. 40. The Incoming line and Overflow from this structure are now bulkheaded.

STRUCTURE NO. 40a. This Structure has been converted to a Storm Sewer Manhole.

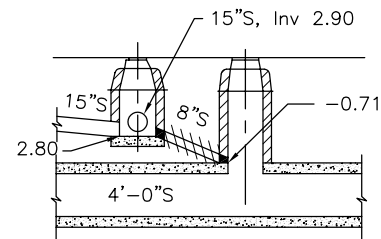
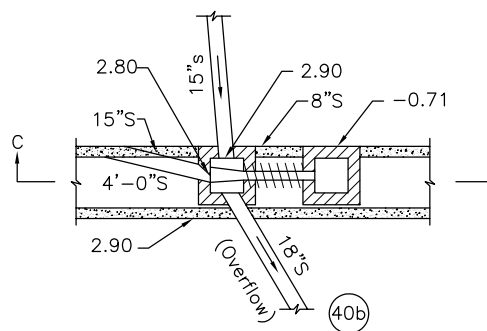
STRUCTURE NO. 40b. This Structure has been converted to a Storm Sewer Manhole.



SECTION A-A

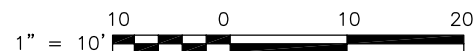


SECTION B-B



SECTION C-C

DETAIL

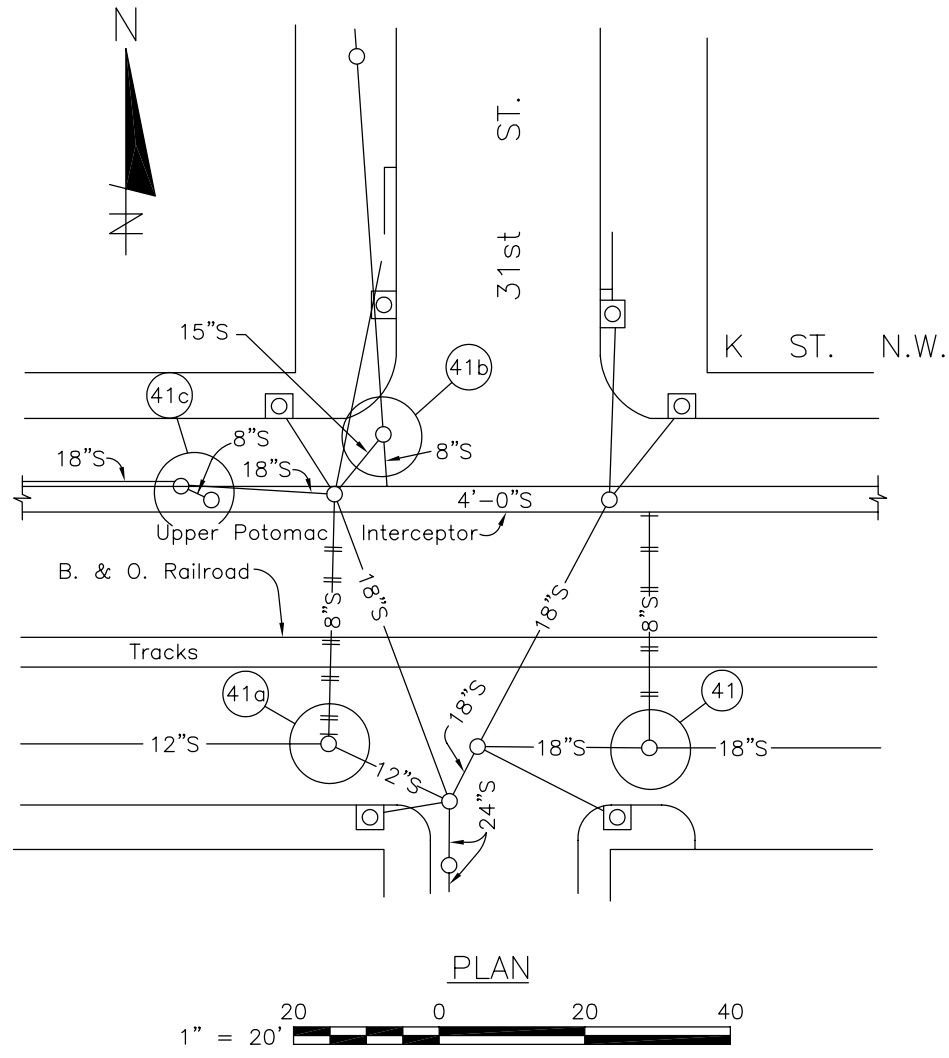


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
40, 40A, 40B

31st and K Streets, N.W. There are two Overflow Manholes at this location, each having sump-type regulators. All of the Intercepting connections discharge to the Upper Potomac Interceptor, and each of the Overflow lines discharge to a 24-in. Overflow Sewer which discharges to the Potomac River. The Storm Overflows are formed by the elevated position of the Overflow pipes in the Manholes.

(Structure No. 41 and 41a have been disconnected from Combined Sewers and functions as separate Storm Sewers)



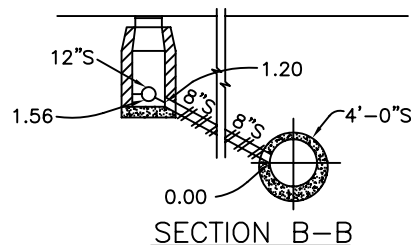
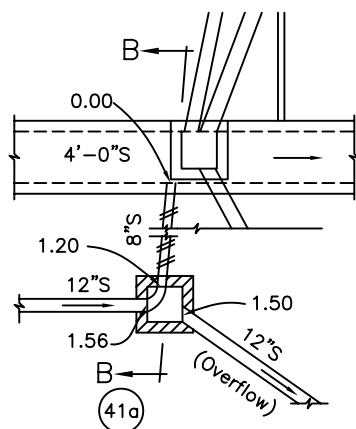
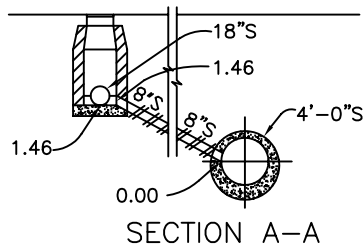
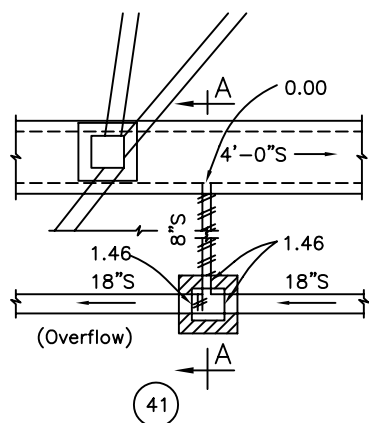
REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
 41

## CONVERTED TO STORM

STRUCTURE NO. 41. This structure has been converted to a Storm Manhole on an 18-in. sewer.

STRUCTURE NO. 41a. This structure has been converted to a Storm Manhole on an 12-in sewer.



1" = 10'

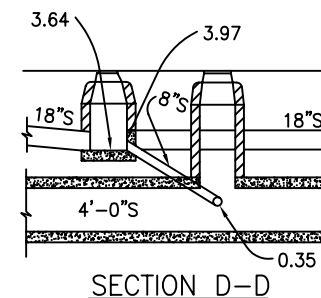
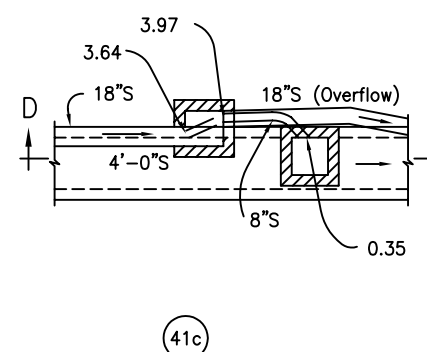
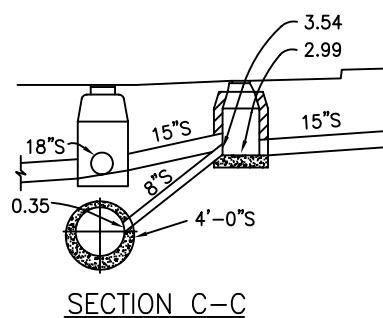
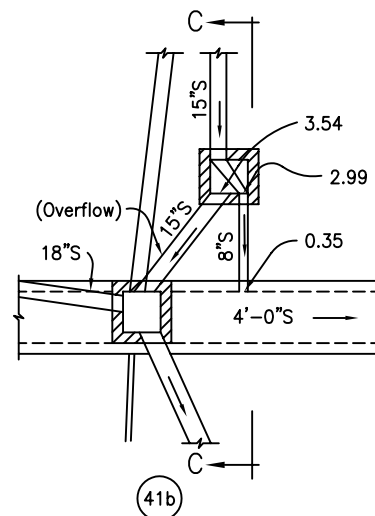
## IN SERVICE

STRUCTURE NO. 41b. A 15-in. Combined Sewer enters the Overflow Manhole, and there is an 8-in. intercepting connection.

The Overflow line is 15-in. diameter.

STRUCTURE NO. 41c. An 18-in. Combined Sewer enters the Overflow Manhole, and there is an 8-in. intercepting connection.

The Overflow line is 18-in. in diameter.



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REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

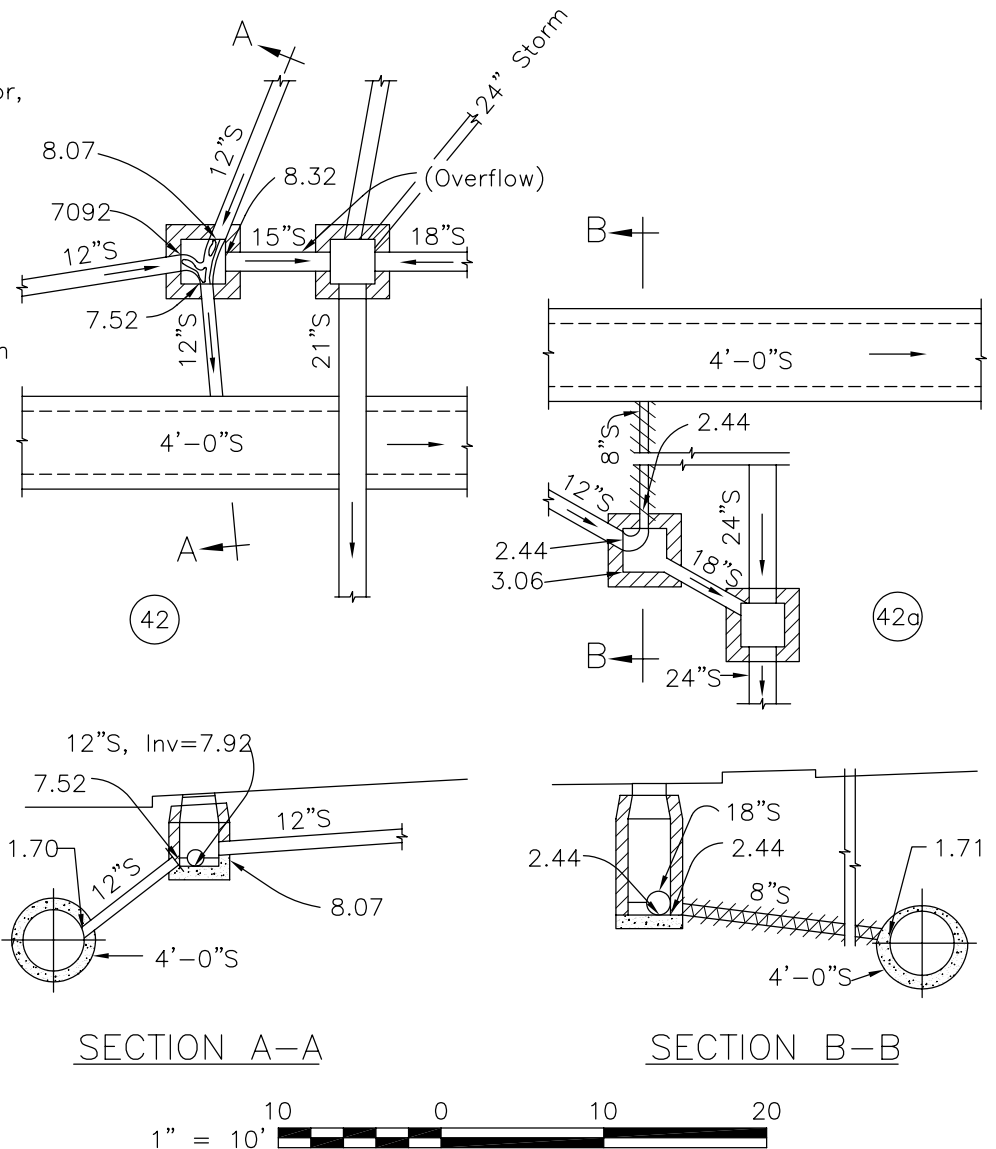
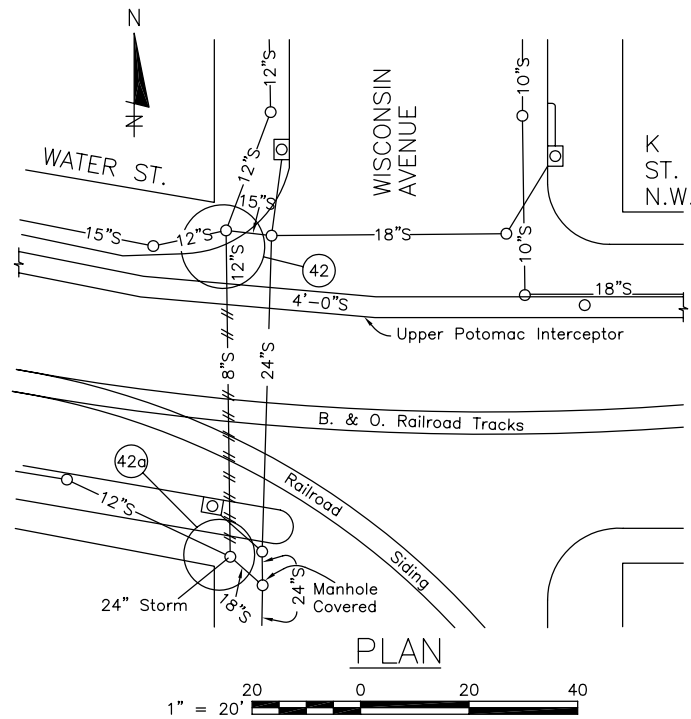
STRUCTURE NO.  
41a, 41b, 41c

Wisconsin Avenue and Water Street, N.W. There are two Overflow Manholes at this location, each having sump-type regulators. Both intercepting connections discharge to the Upper Potomac Interceptor, and both Overflow lines discharge to a 24-in. Overflow line which discharges to the Potomac River. The Storm Overflows are formed by the elevated position of the Overflow pipes in the manholes.

STRUCTURE NO. 42, Two 12-in. Combined enter the Overflow Manhole, and there is a 12-in. intercepting connection.

The Overflow line is 15-in. in diameter.

STRUCTURE NO. 42a, This structure has been converted to a Storm Manhole at the junction of 12-in. and 18-in. sewer.



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REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 026

STRUCTURE NO.  
42, 42a

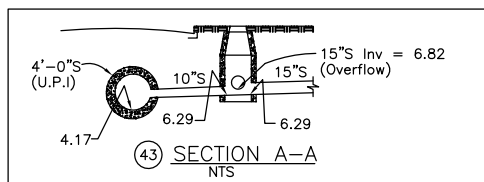
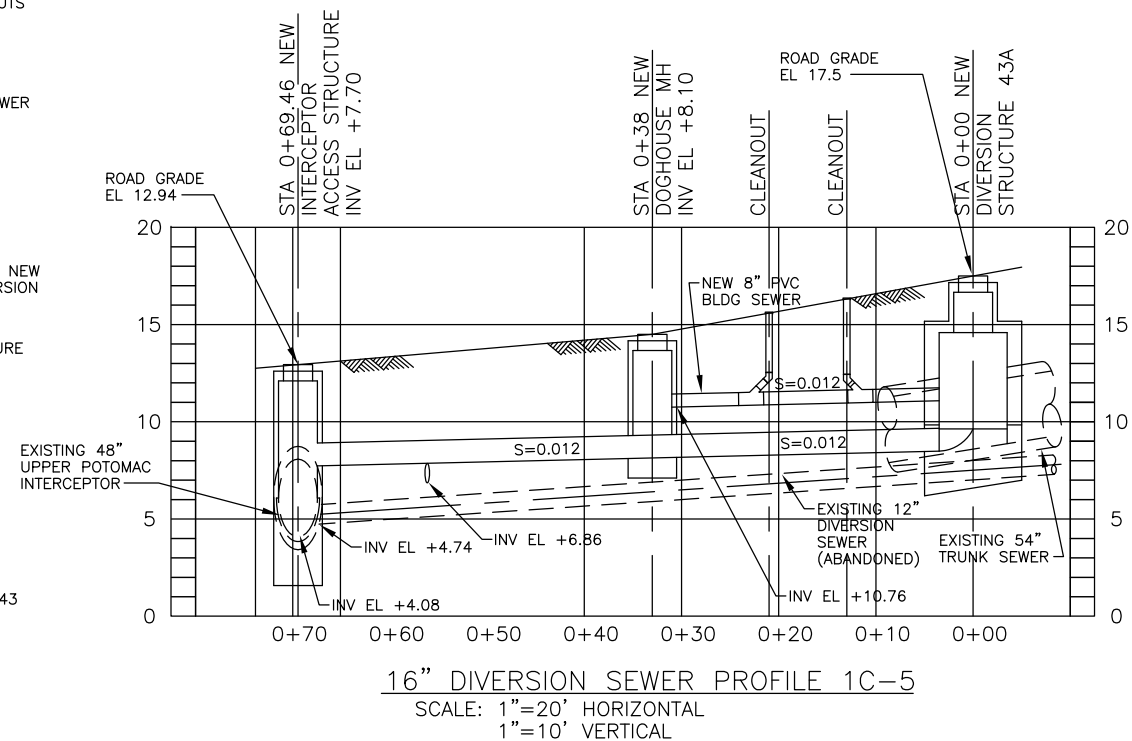
There are two Overflow Manholes at the location, each having Sump-Type Regulators. Both intercepting connections discharge to the Upper Potomac Interceptor, and both Overflow Lines discharge to the Potomac River.

A 15-inch Combined Sewer enters the Overflow Manhole, and there is an 10-inch intercepting connection.

The Overflow Line is 15-inch in diameter.

A 4-ft 6-inch Combined Sewer enters the Diversion Chamber and discharges through a 16-inch intercepting connection.

The Overflow Line is 4-ft 6-inch in diameter.



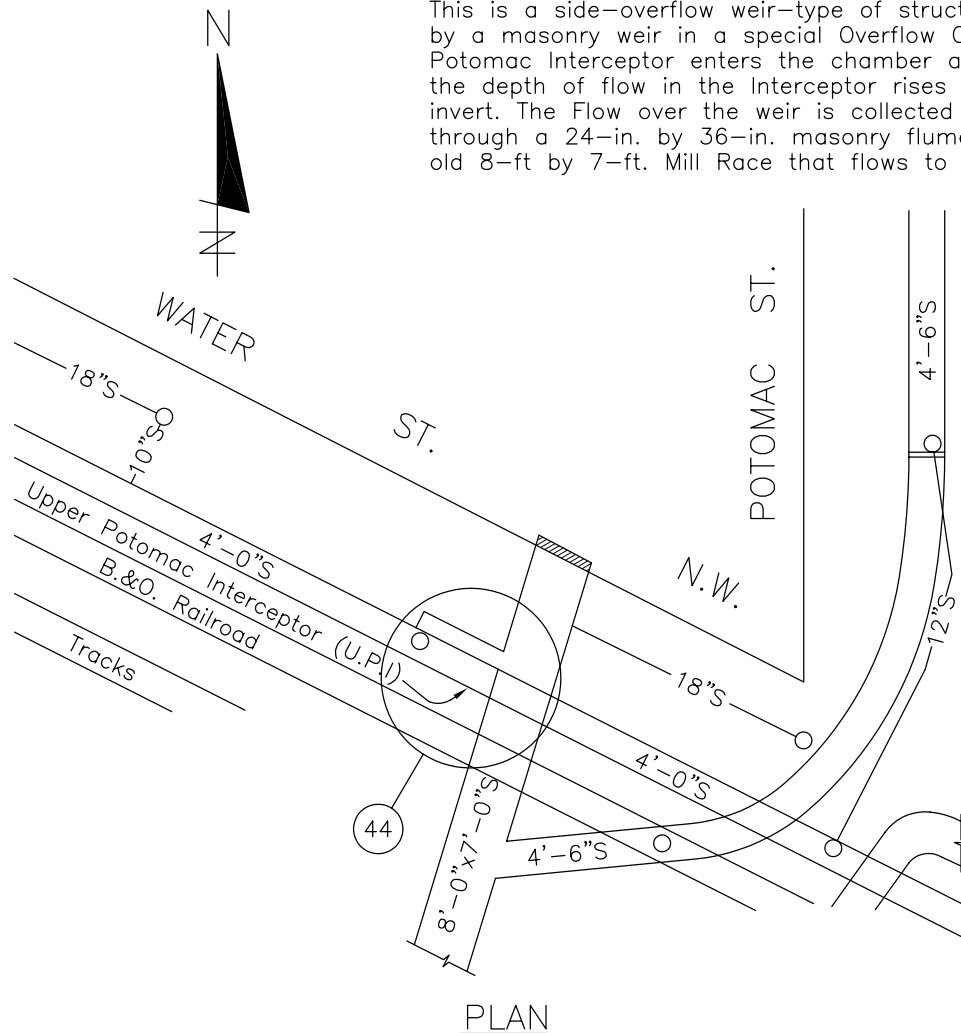
REVISED BY: EPMC-3A  
REVISED DATE: JANUARY 2006  
ASSOCIATED NPDES OUTFALL # 027

STRUCTURE NO.  
43 & 43a

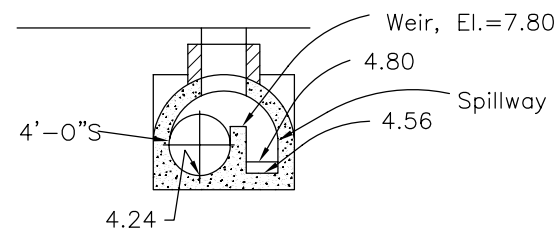
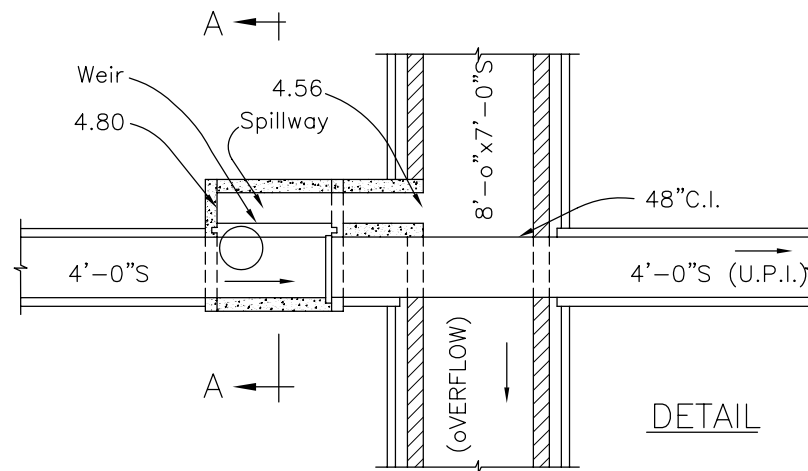


STRUCTURE NO. 44, Water Street, West of Potomac Street, N.W.

This is a side-overflow weir-type of structure. The Overflow is formed by a masonry weir in a special Overflow Chamber. The 4-ft. Upper Potomac Interceptor enters the chamber and does not overflow until the depth of flow in the Interceptor rises to about 3-ft. 6-in. above the invert. The Flow over the weir is collected in the spillway then carried through a 24-in. by 36-in. masonry flume and then discharges into an old 8-ft by 7-ft. Mill Race that flows to the Potomac River.



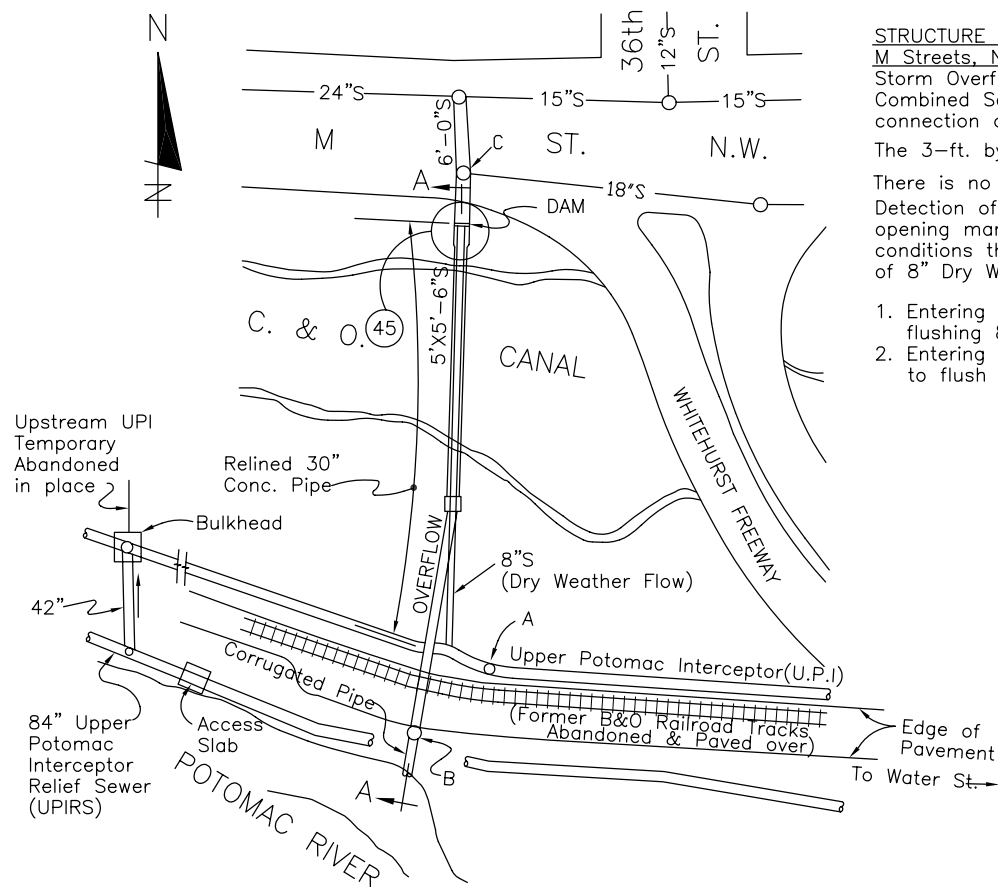
1" = 20'



1" = 10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 027

STRUCTURE NO.  
44



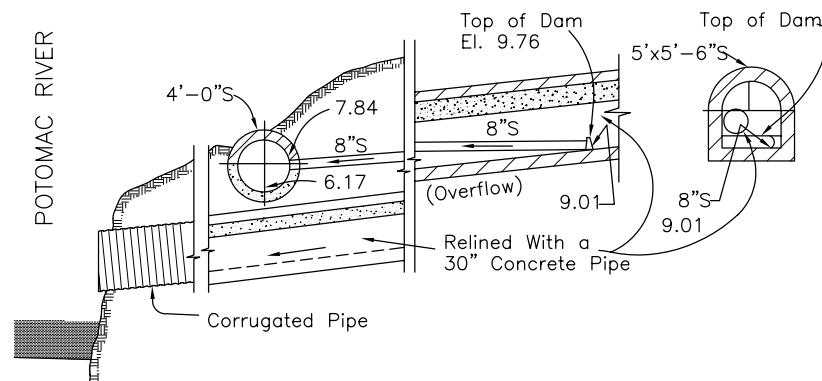
PLAN

1" = 50' 50 0 50 100

STRUCTURE NO. 45, Southwest of the Intersection of 36th and M Streets, N. W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 5-ft. by 5-ft. 6-in. Combined Sewer enters the Diversion Chamber, and an 8-in. intercepting connection conveys the Dry-Weather Flow to the Upper Potomac Interceptor. The 3-ft. by 4-ft. Overflow line discharges to the Potomac River.

There is no outlet structure or gate at the outlet. Detection of Dry Weather Overflow may be performed by opening manhole cover for Manhole-B. During Dry Weather conditions there should be no flow in this manhole. Cleaning of 8" Dry Weather pipe may be performed by:

1. Entering through 4'-0" UPI through MH-A and flushing 8" line.
2. Entering MH-C through 5'x5'-6" pipe to dam to flush out 8" line.



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 028

STRUCTURE NO.  
45

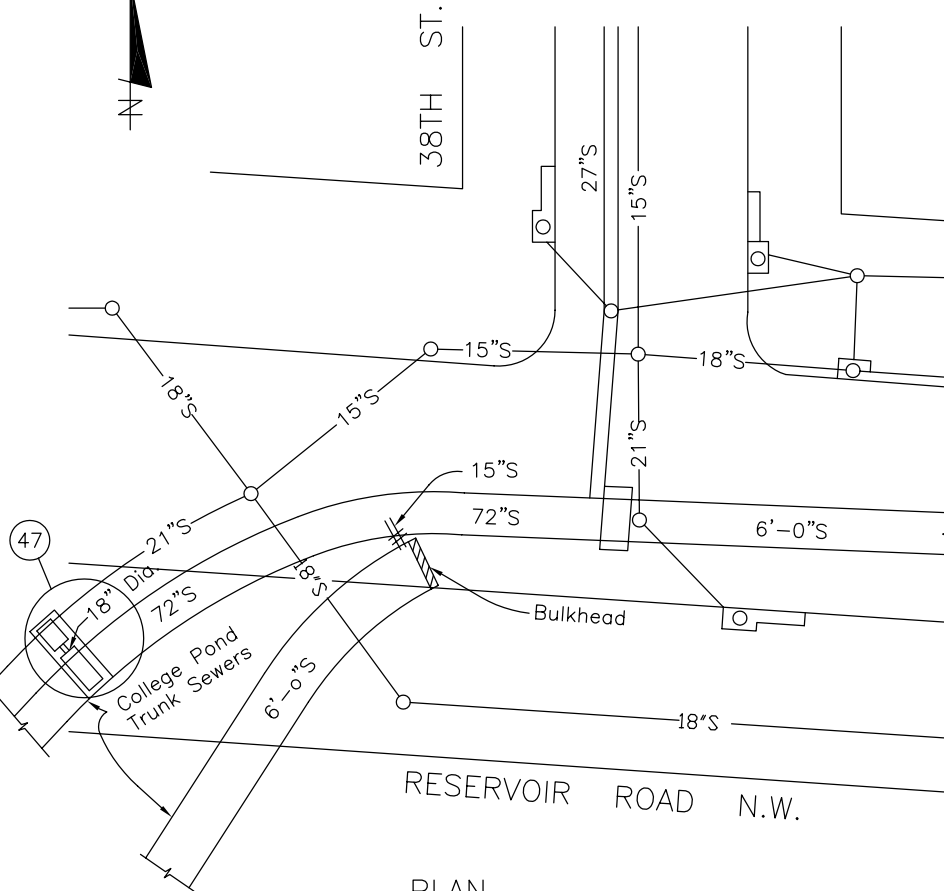
The 6-ft. by 6-ft. Overflow line discharges to the Potomac River.

There is an Outlet Structure and Gate at the outlet.



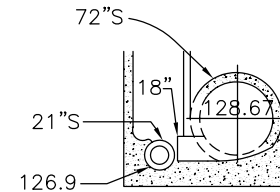
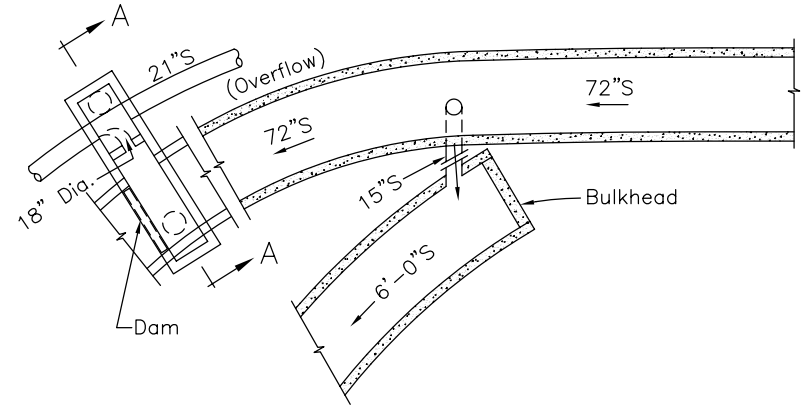
STRUCTURE NO.  
46

STRUCTURE NO. 47, College Pond Sewer - 38th and Reservoir Road N.W.  
This Structure is a double chamber connecting the 72-inch Combined Sewer to the 21-inch Sanitary Sewer through an 18-inch dia pipe in the dividing wall. Both sewers continue to Structure No. 46.



PLAN

1" = 20'



SECTION A-A

1" = 10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 029

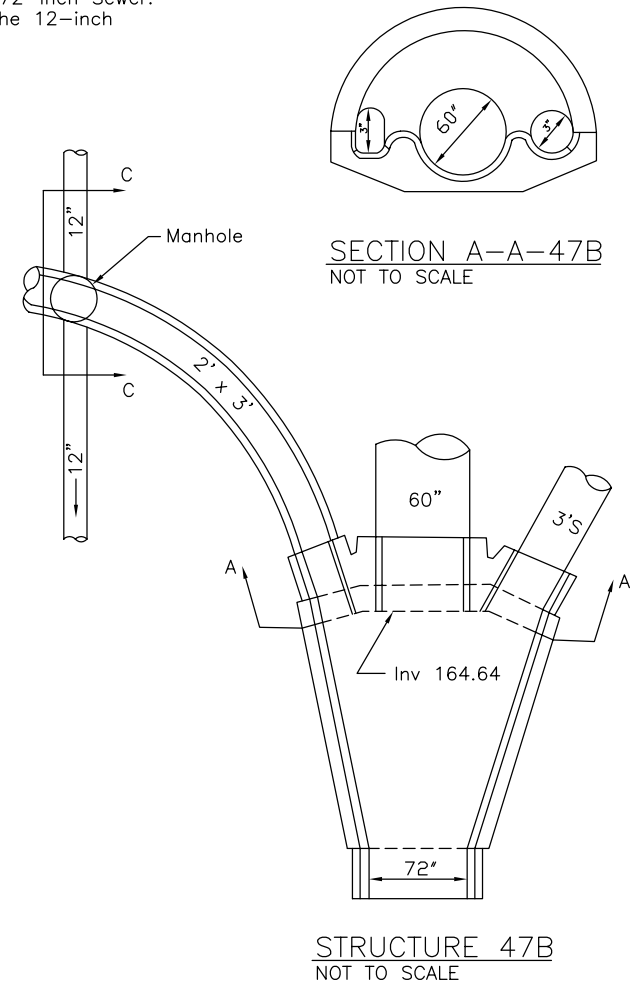
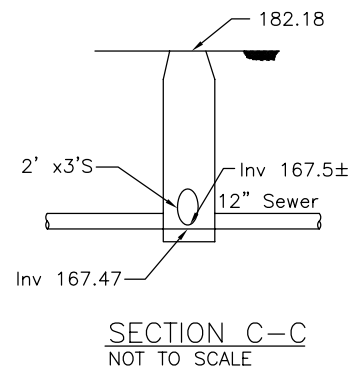
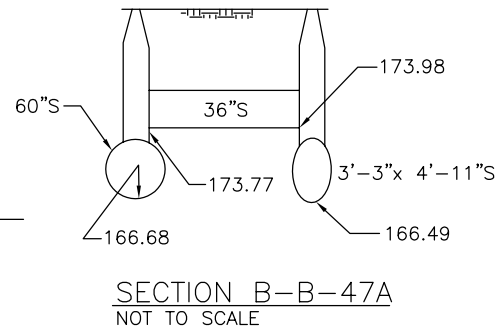
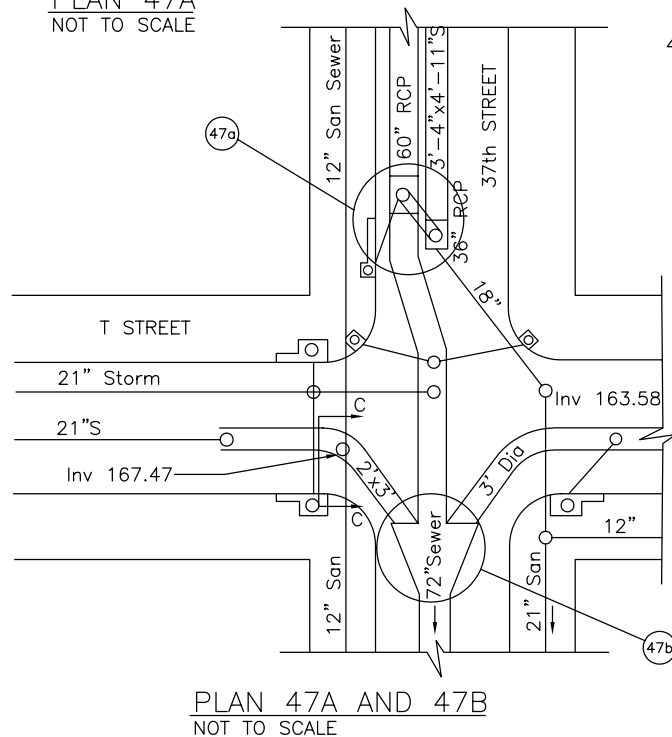
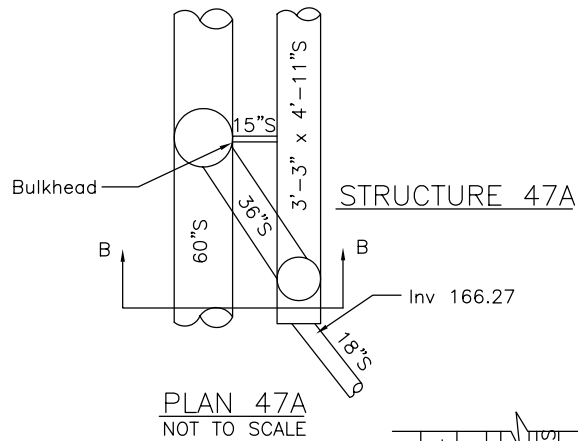
STRUCTURE NO.  
47

STRUCTURE NOS. 47A & 47B - 37th & T STREETS N.W.

Structure No. 47a has a 36-inch Overflow from the 3'-3"x 4'-11" Combined Sewer to the 60-inch Storm Sewer. Normal Dry Weather Flow is into the 18-inch Sanitary Sewer.

STRUCTURE NO. 47B

Is a Junction Chamber which joins the 60-inch Storm Sewer with the 2'x 3' Combined (abandoned) 3' Storm Sewers and discharges as a 72-inch Sewer. Normal Dry Weather Flow in the 2'x 3' Combined Sewer into the 12-inch Sanitary Sewer.

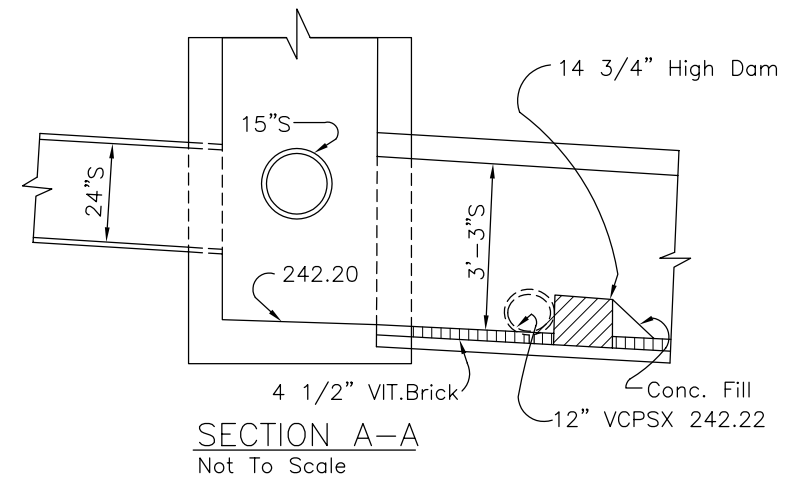
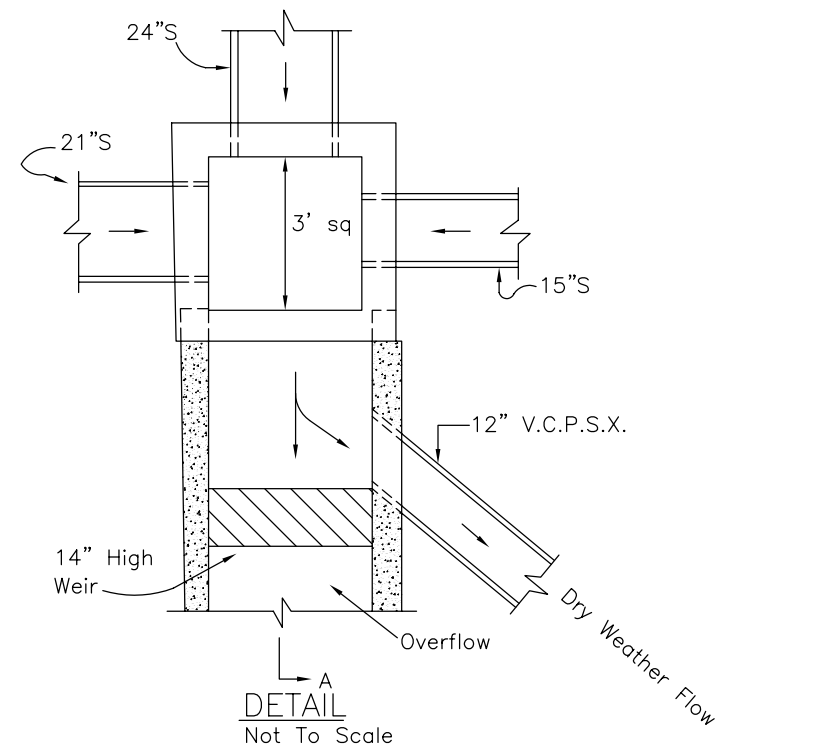
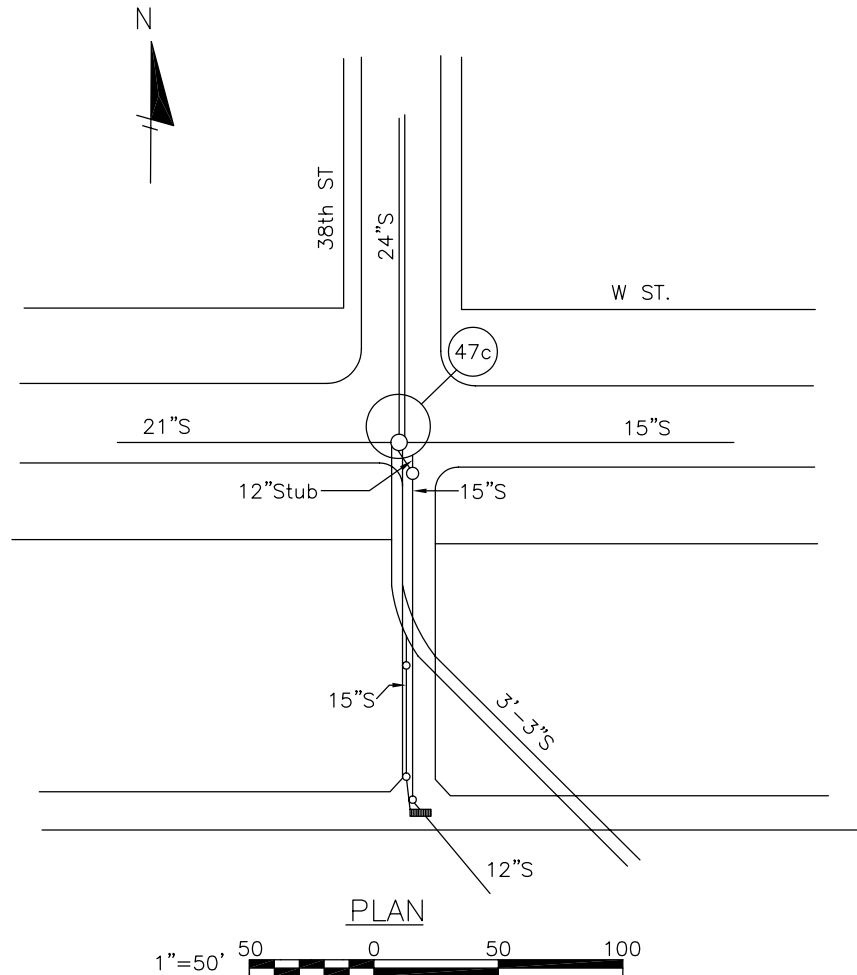


STRUCTURE 47B  
NOT TO SCALE

STRUCTURE NO.  
47a, 47b

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 029

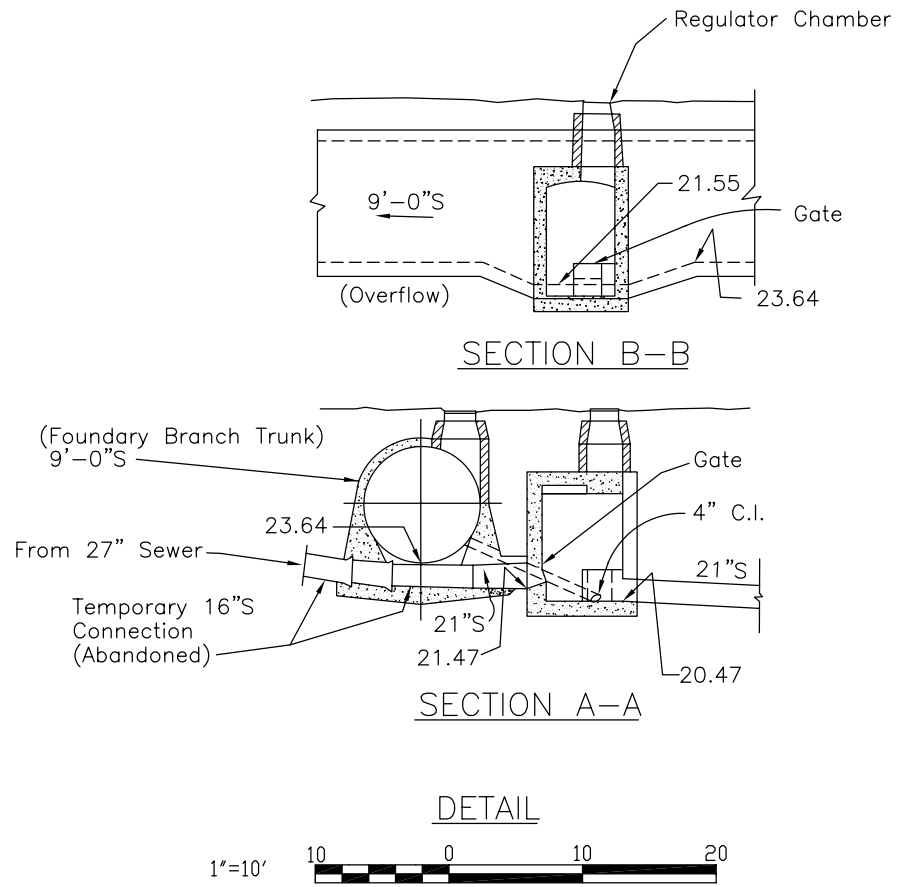
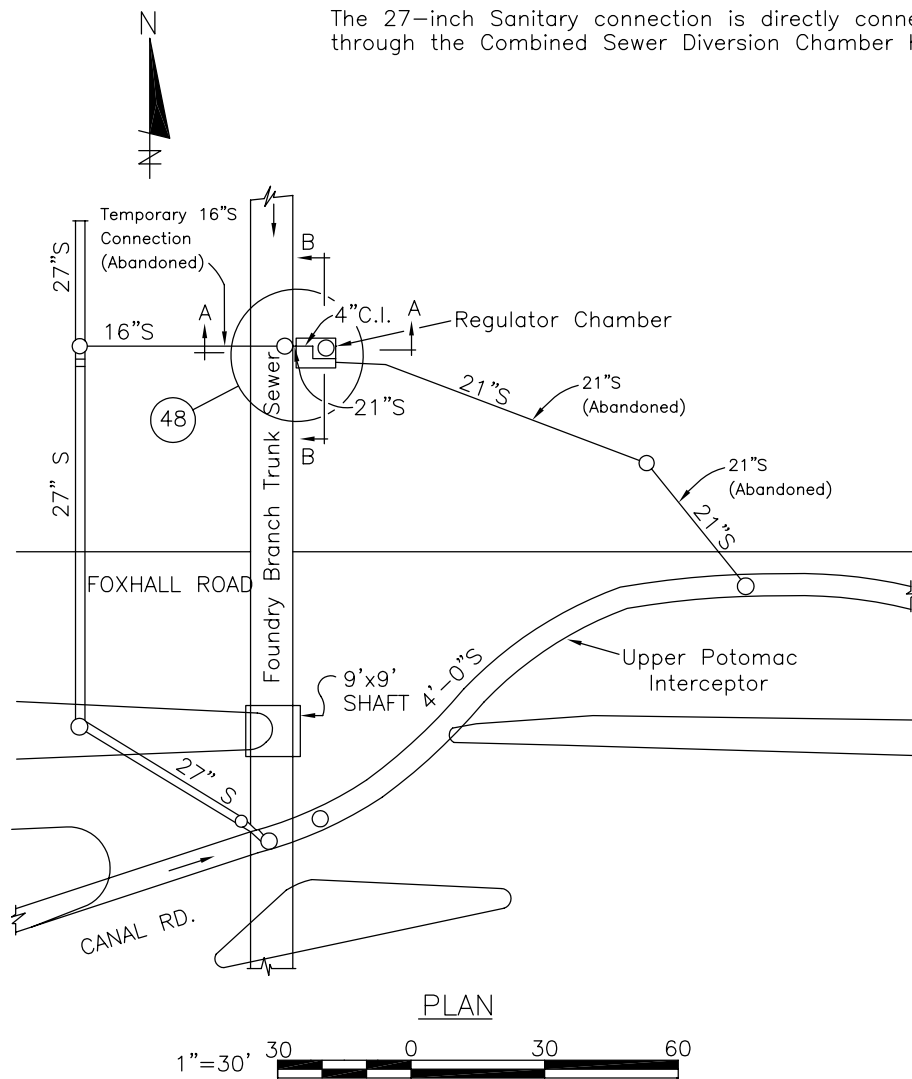
STRUCTURE NO. 47c, 38th and W Street, N.W. Dry Weather Flow in this structure is diverted into a 12-inch sewer by a 14-inch high dam, while Overflow spills over the dam and continues in a 3'-3" diameter line. (Note: Prior to 1992, this structure was designated as No. 47b)



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 029

STRUCTURE NO.  
47c

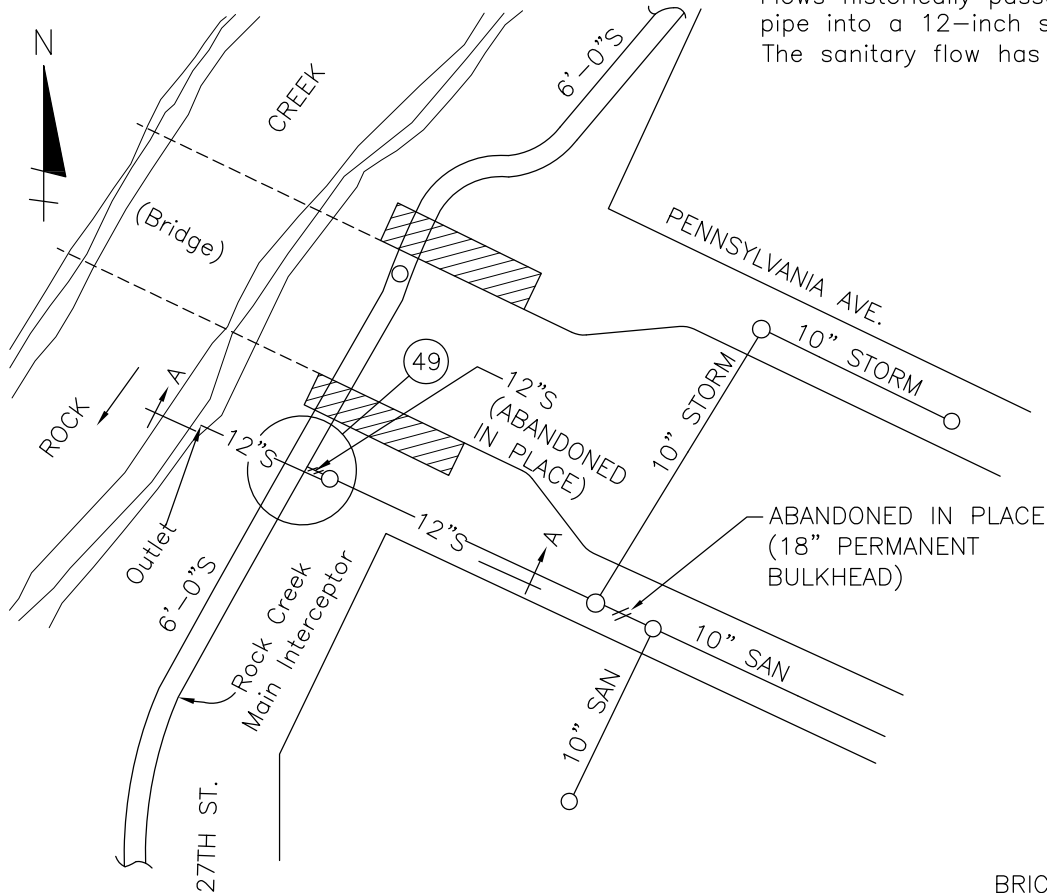
The 27-inch Sanitary connection is directly connected to the UPI. The old connection through the Combined Sewer Diversion Chamber has been abandoned.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
48

STRUCTURE NO.49 Pennsylvania Avenue, N.W. East side of Rock Creek.  
 A 12-inch Storm Sewer enters this structure, Sanitary Dry Weather  
 Flows historically passed through a short section of 3-inch cast iron  
 pipe into a 12-inch sewer leading to the Rock Creek Main Interceptor.  
 The sanitary flow has been diverted prior to to reaching structure #49.

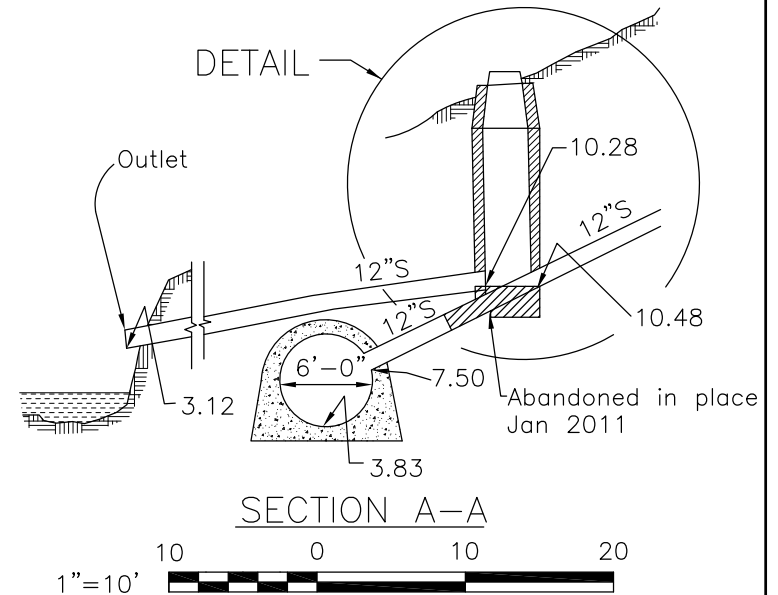


PLAN

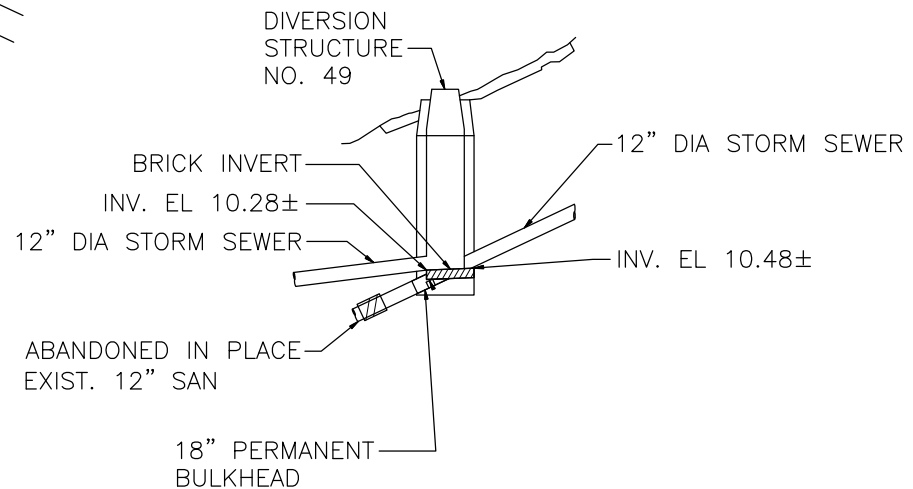
1"=50' 50 0 50 100

THIS OVERFLOW HAS BEEN ELIMINATED  
 BASED ON UPSTREAM SEPARATION

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
 REVISED DATE: MARCH 2015  
 ASSOCIATED NPDES OUTFALL # 031



SECTION A-A

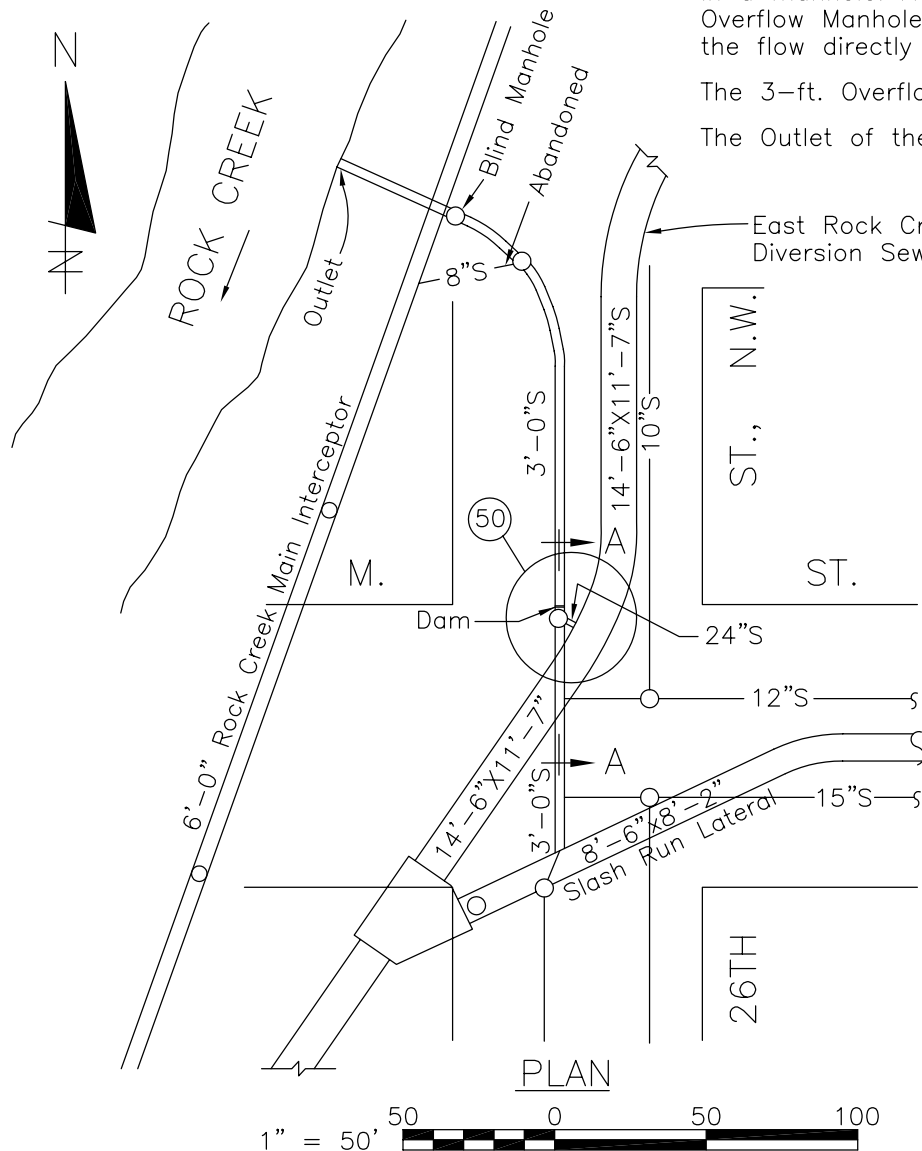


DETAIL

(CSO 031 - DIVERSION STRUCTURE MODIFICATIONS)

STRUCTURE NO.  
 49

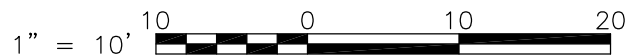
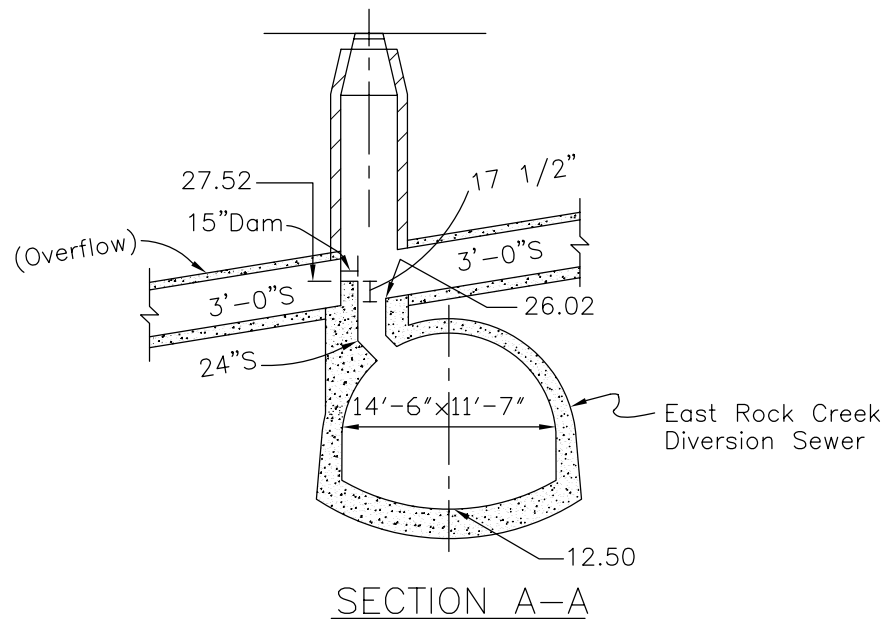




STRUCTURE NO. 50. 26th and M Streets, N.W. This structure has a slot type regulator. The Storm Overflow is formed by a 15-inch masonry dam in a manhole. A 3-ft. diameter Combined Sewer enters the Diversion and Overflow Manhole, and there is a 24-inch diversion connection conveying the flow directly down into the East Rock Creek Diversion Sewer.

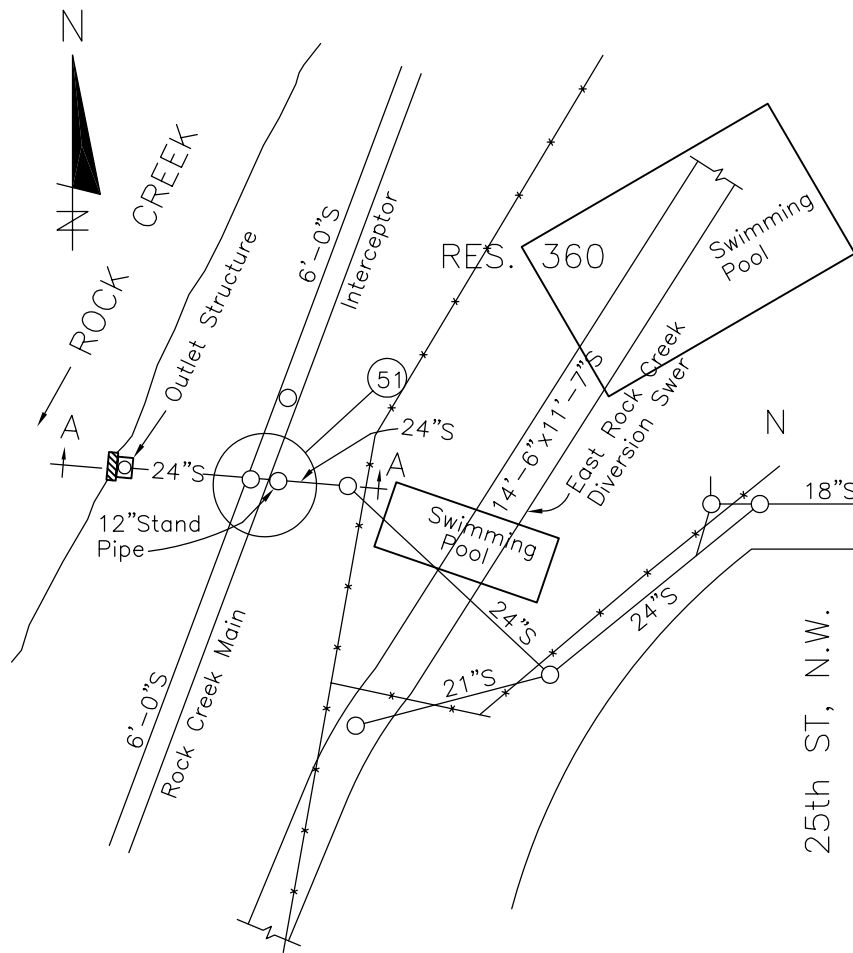
The 3-ft. Overflow line discharges into Rock Creek.

The Outlet of the Overflow line was not visible.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 032

STRUCTURE NO.  
 50

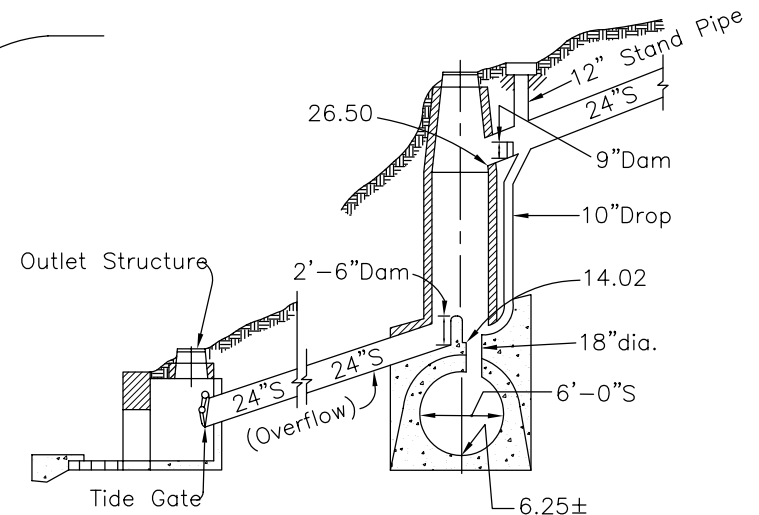
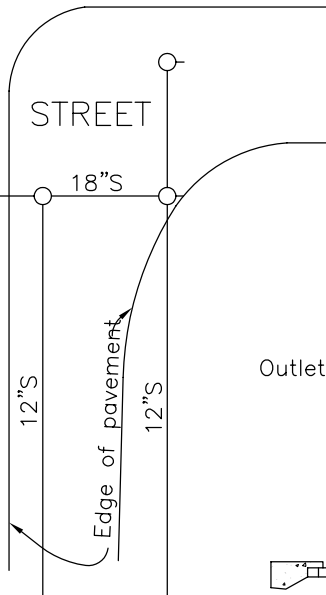


PLAN

1" = 50'

STRUCTURE NO. 51. N Street, Extended West of 25th Street, N.W. This structure has a slot-type regulator. The Storm Overflow is formed by a masonry dam. A 24-inch Combined Sewer enters the overflow manhole at a high elevation. From the 24-inch sewer there is a vertical 10-inch drop-connection to the bottom of the manhole. There is a 9-inch dam in the 24-inch sewer, downstream from the drop connection. At the bottom of the manhole, there is a vertical 18-inch intercepting connection conveying the Dry-Weather Flow into the Rock Creek Main Interceptor. West of the intercepting connection, there is a 2-ft, 6-in, high dam.

The 24-inch Overflow line discharges into Rock Creek.  
There is an Outlet Structure and Gate at the Outlet.



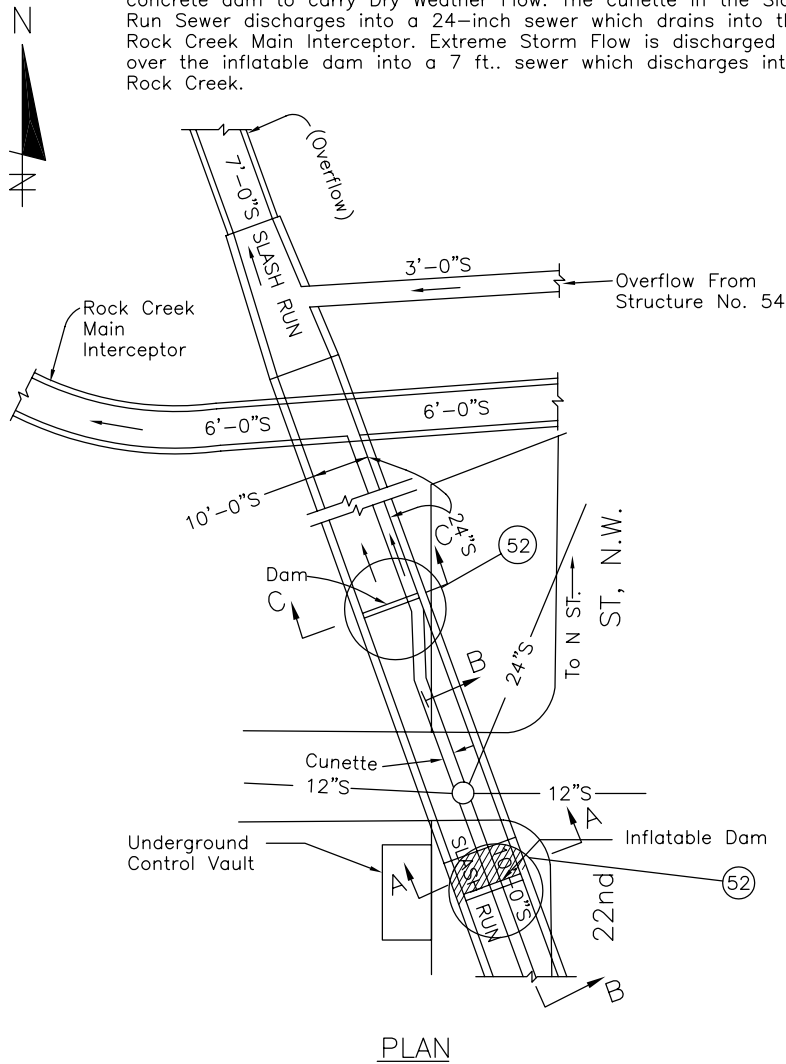
SECTION A-A

1" = 10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 033

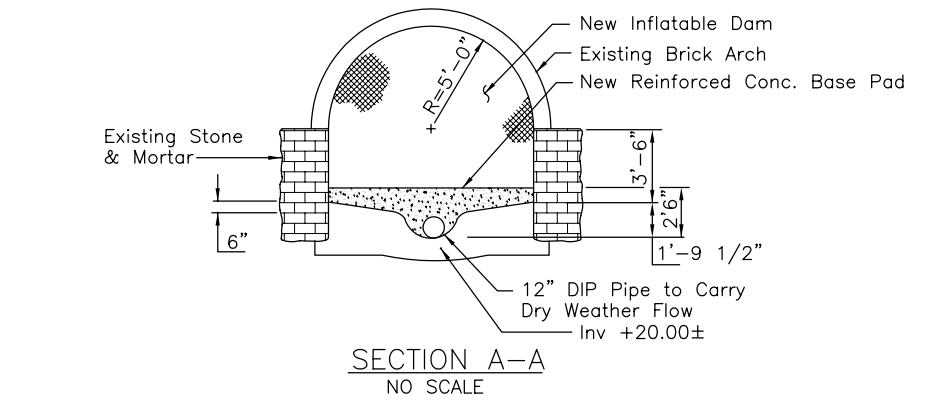
STRUCTURE NO.  
51

**STRUCTURE NO. 52 - Slash Run Trunk Sewer, Northwest of 22nd and M Streets N.W.** This sewer serves as a Storm Overflow for Combined Sewage Flow from Structures No. 53 and No. 53a. There is a masonry dam on which is constructed an inflatable dam in the 10 ft. Slash Run Sewer. A 12-inch pipe is cast in the base of the concrete dam to carry Dry Weather Flow. The cunette in the Slash Run Sewer discharges into a 24-inch sewer which drains into the Rock Creek Main Interceptor. Extreme Storm Flow is discharged over the inflatable dam into a 7 ft. sewer which discharges into Rock Creek.

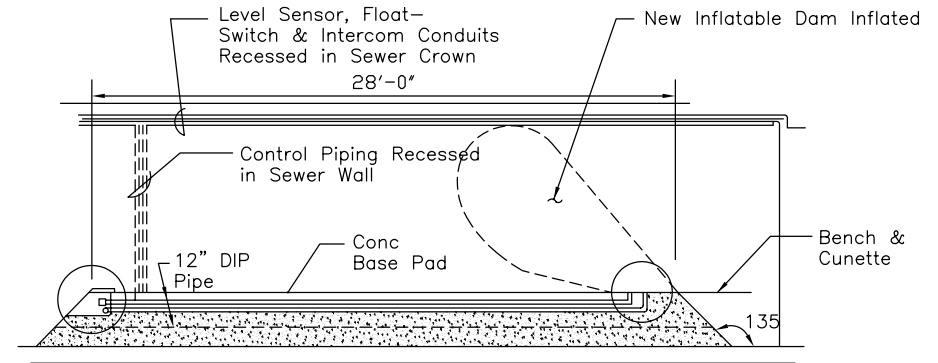


PLAN

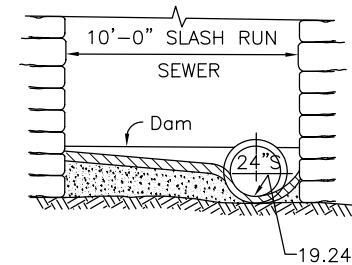
1" = 50' 50 0 50 100



SECTION A-A  
NO SCALE



SECTION B-B  
NO SCALE

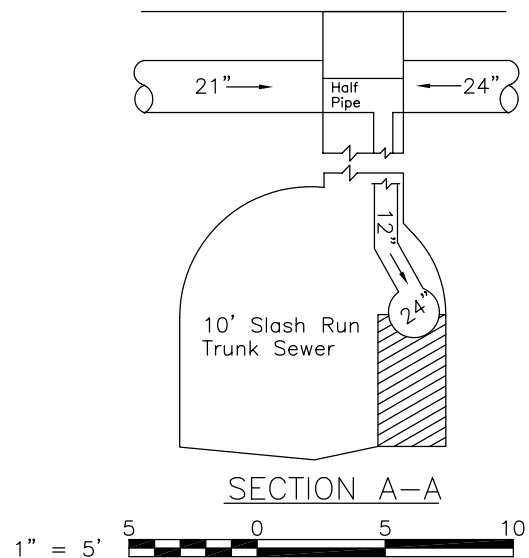
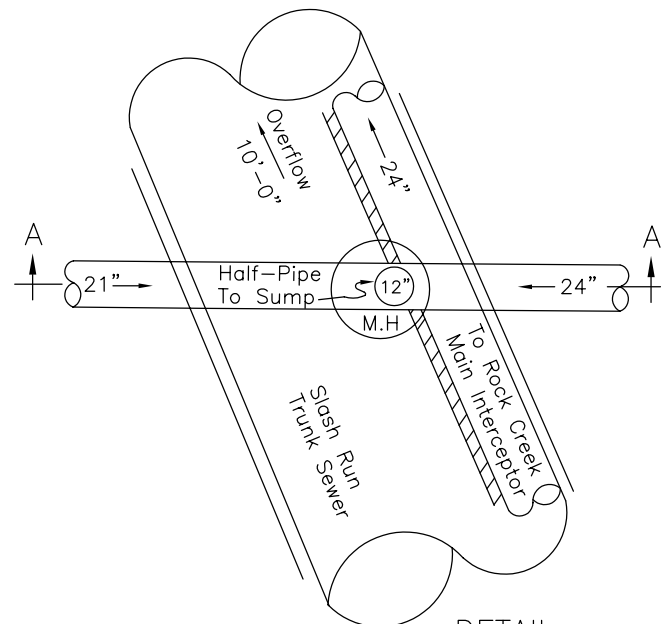
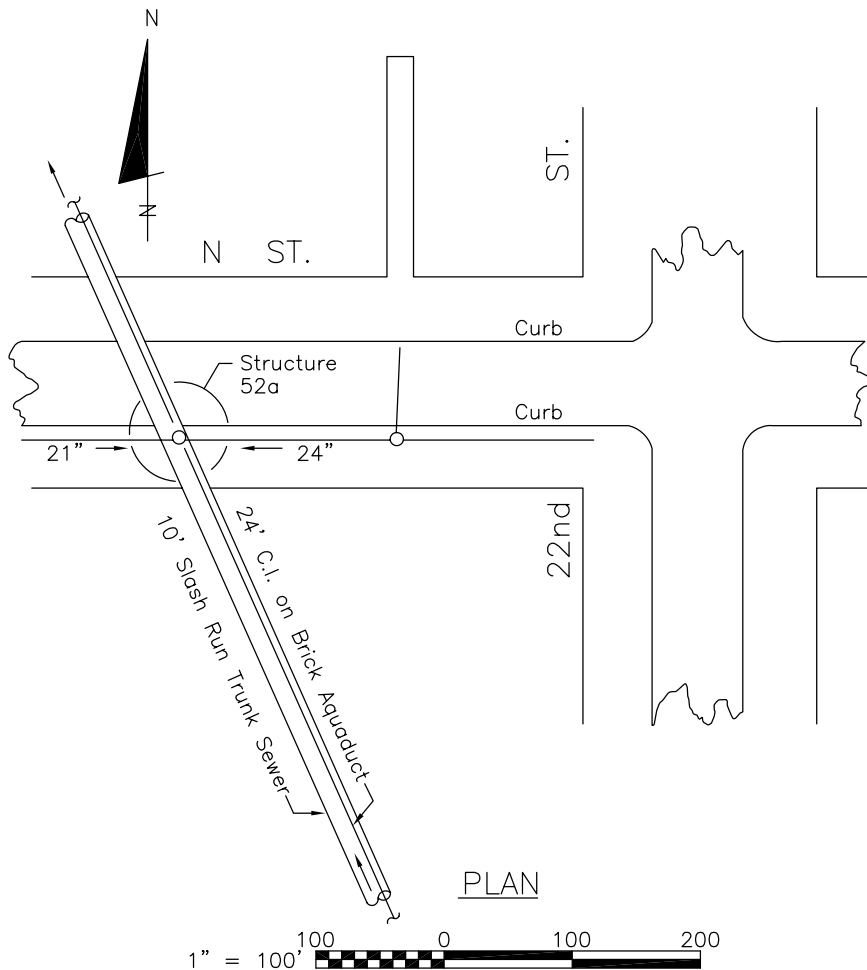


SECTION C-C  
NO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 034

STRUCTURE NO.  
52

STRUCTURE NO. 52a, N. St between 22nd and 23rd Sts, N.W. Flows approach this structure in both the 21-inch and the 24-inch sewers and are intercepted via a vertical 12-inch line to the 24-inch Interceptor that originates at Structure No. 52. Higher flows approaching the manhole spill over the sides of the half pipe into the 10'-0" Slash Run Trunk Sewer Overflow to Rock Creek.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 034

STRUCTURE NO.  
 52a

**STRUCTURE NO. 53, Slash Run Trunk Sewer, 22nd and M Street, N.W.**  
This structure has a cunette-type regulator. The Storm Overflow is formed by the continuation of the 10-ft. Slash Run Trunk Sewer beyond the Diversion Structure. The 10-ft. horseshoe Combined Slash Run Trunk Sewer enters the Diversion Chamber and the diversion is formed by depressing the cunette and turning it to the west where it develops into a 5-ft. 6-in. circular diversion connection. This connection discharges into the 8-ft. 6-in. horseshoe sewer, called the Slash Run Lateral Sewer, which in turn discharges into the East Rock Creek Diversion Sewer, at 26th and M Streets, N.W.

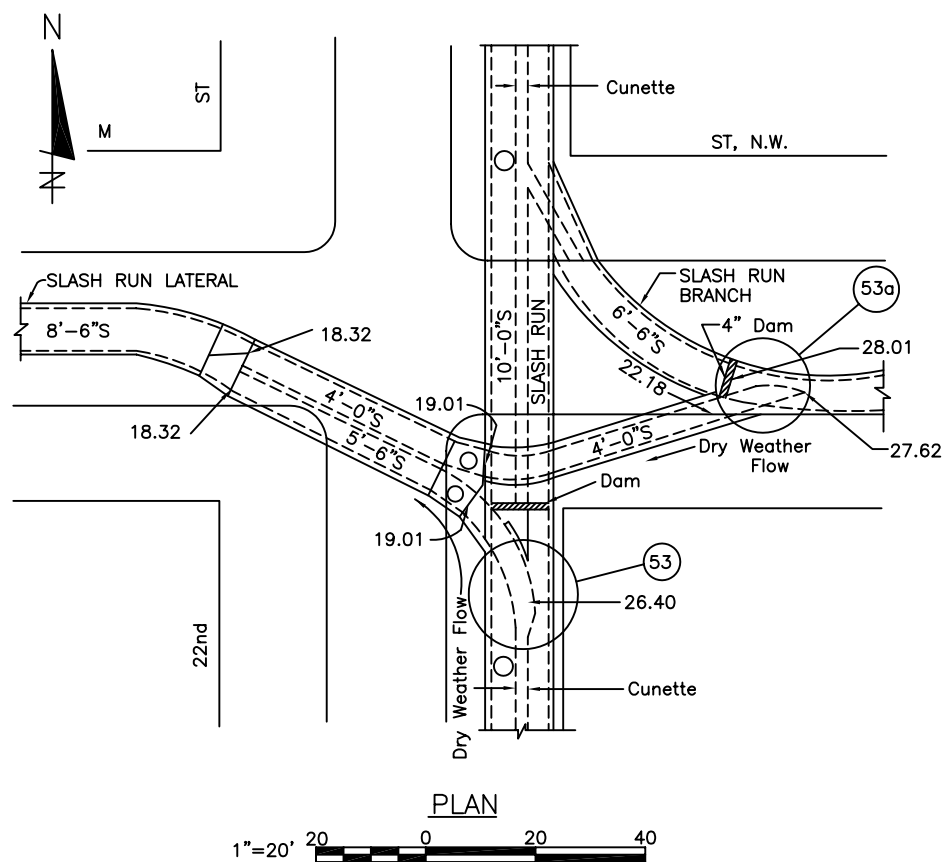
The Overflow line is further protected by a masonry dam about 4-inches higher than the berms of the Diversion Chamber. The Overflow line discharges eventually into Rock Creek.

This diversion connection operates in conjunction with a similar diversion connection from the Slash Run Branch Sewer, at the same intersection. The other structure being termed Structure No. 53a.

**STRUCTURE NO. 53a, Slash Run Branch Sewer.** This structure has a sump-type regulator. The Storm Overflow is formed by the continuation of the 6-ft. 6-in. Slash Run Branch Sewer and the 10-ft. Slash Run Trunk Sewer beyond the Diversion Structure. The 6-ft. 6-in. horseshoe Slash Run Branch Sewer enters the Diversion Chamber, and the diversion is formed by depressing the invert into a cunette, which develops into a 48-inch diameter diversion connection. The connection discharges into the 8-ft. 6-in. horseshoe sewer, called the Slash Run Lateral Sewer, which in turn discharges into the East Rock Creek Diversion Sewer.

The Overflow line is protected further by a low dam. The Overflow line discharges into the Slash Run Trunk Sewer, Which discharges eventually into Rock Creek.

The diversion connection operates in conjunction with a similar diversion connection from the Slash Run Trunk Sewer, at the same intersection. The other structure being termed Structure No. 53.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.  
53, 53a

STRUCTURE NO. 53b. L St between 21st St and New Hampshire Ave. N.W.  
Principal flows enter this structure from the east via two large Combined  
Sewers, one 9 ft. circular and the other 10 ft. by 11 ft. Dry Weather Flow  
is contained within a cunette and split, with a portion continuing northwest  
in the Slash Run Trunk Sewer and a portion diverted by a 30-inch line  
into two 16" sewers going under the Control Structure.

8'-0" S Overflow

27.6'

10'x11' Slash Run Trunk Sewer

15" deep x 24" wide Cunette

Conc. Dam  
El. 32.42

Conc. Dan  
EI 32.42

SECTION B-B  
Not To Scale

10'x11' Slush Run Trunk Sewer

10'

L ST 250'± To 21st St

53b

30"S

9'-0S

10'x11'

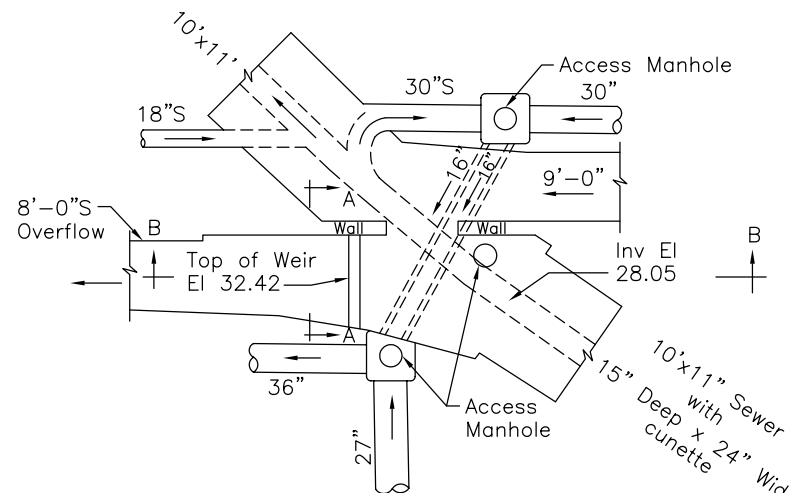
8'-0"S (Overflow)

36"S

Curb

1" = 50'

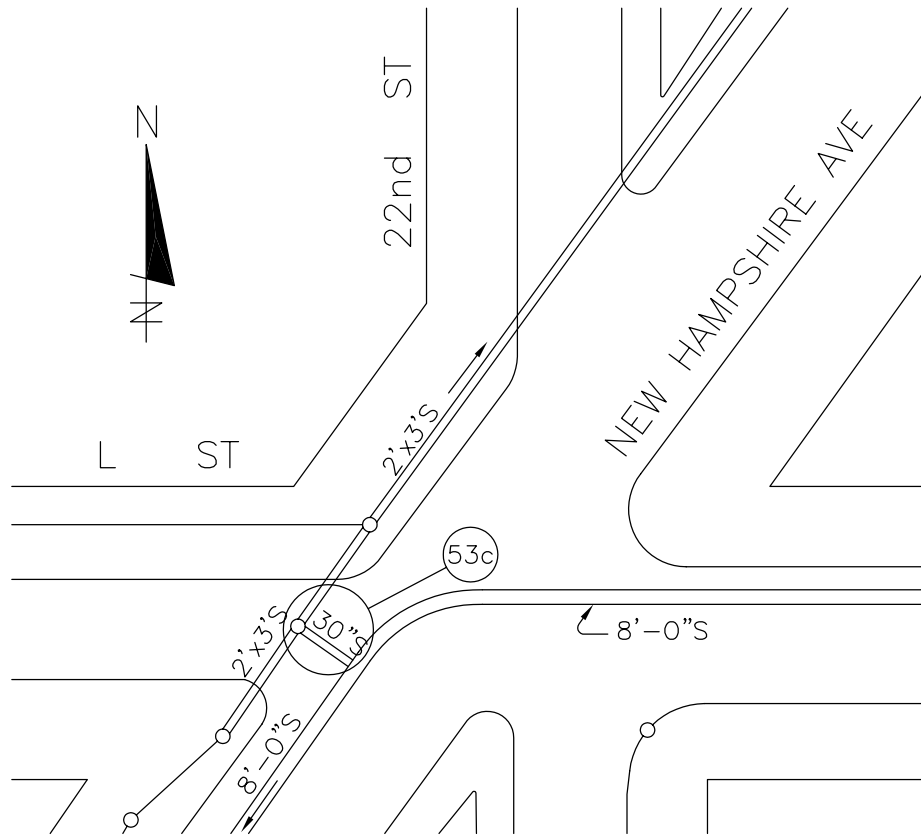
50 0 50 100



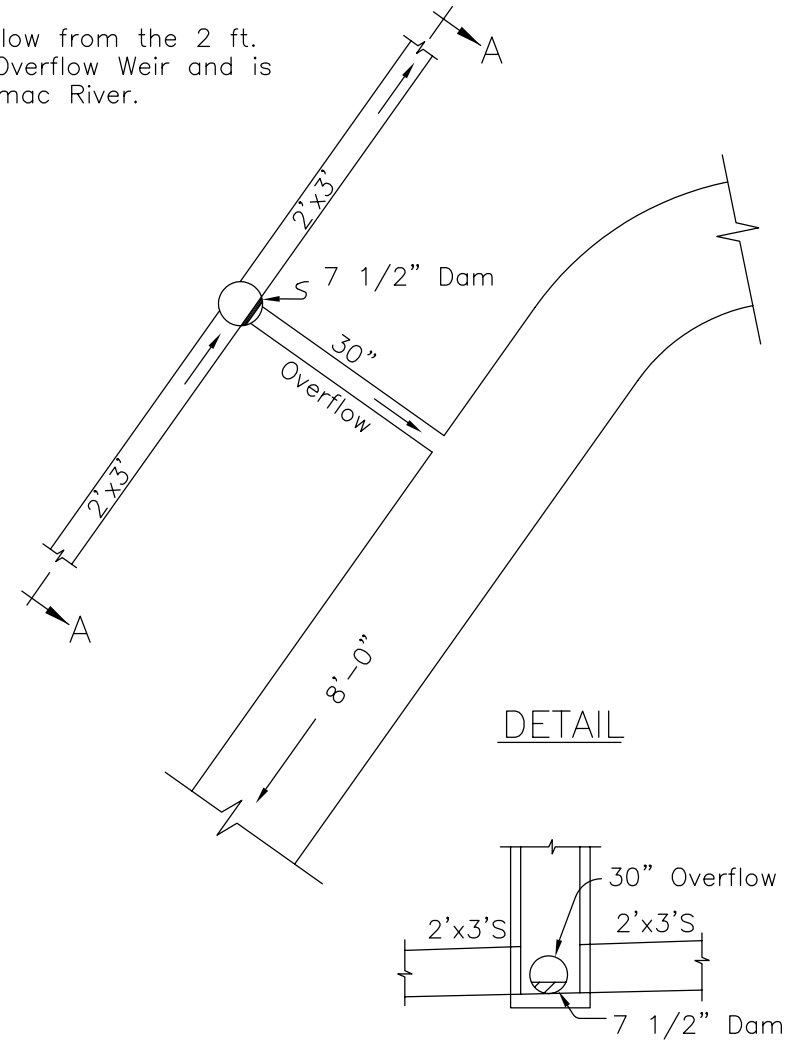
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.  
53b

STRUCTURE NO. 53c, L and 22nd Streets, N.W. Overflow from the 2 ft. by 3 ft. Combined Sewer spills over a 6-inch side Overflow Weir and is carried away by 30-inch line, ultimately to the Potomac River.



1" = 50'



SECTION A-A

1" = 10'

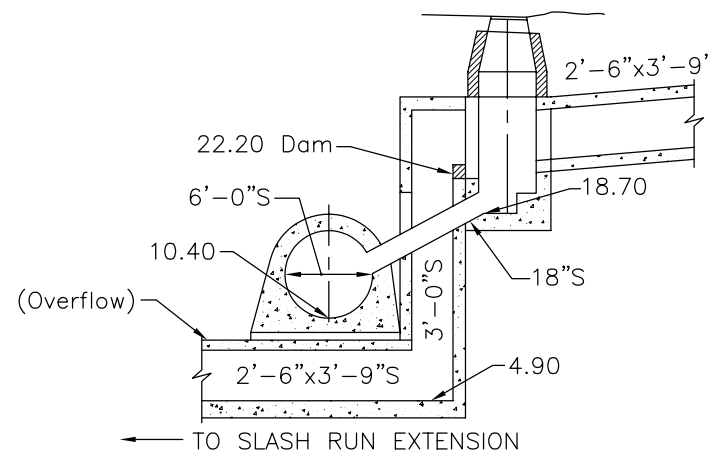
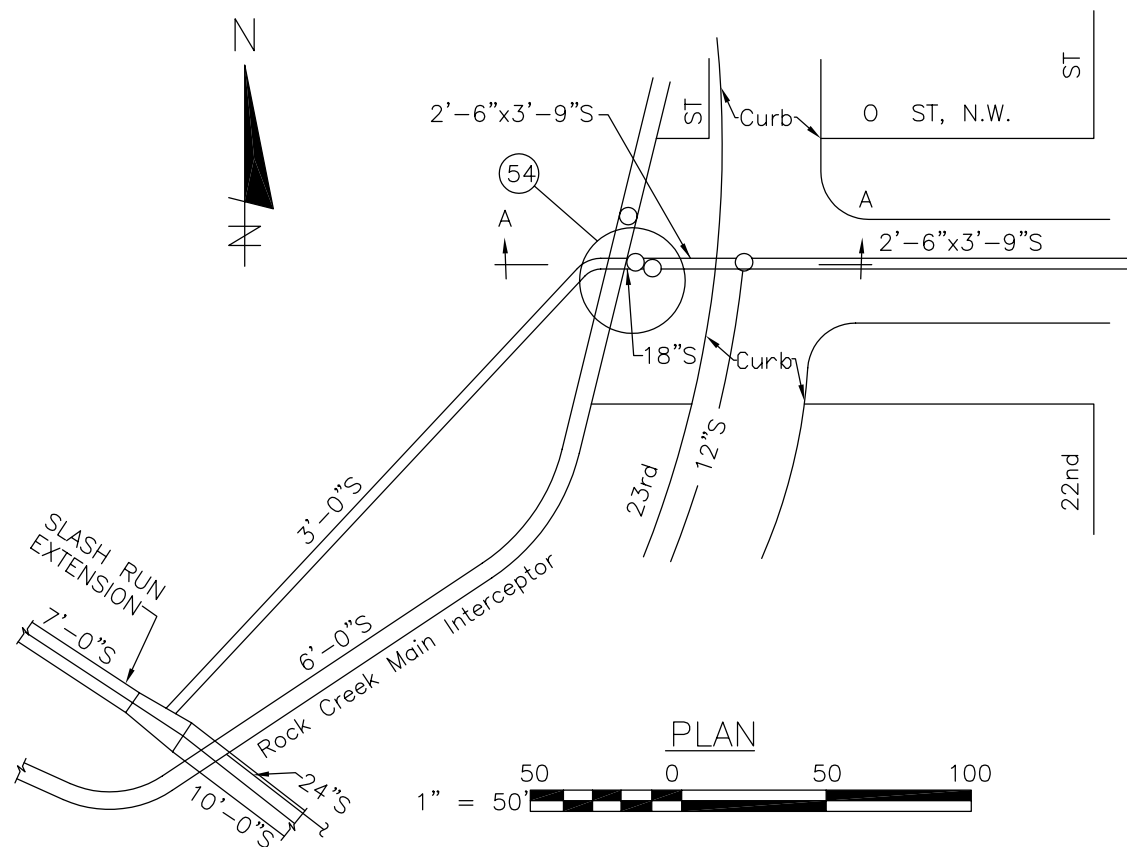
REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO.  
 53c

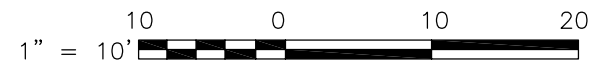
STRUCTURE NO. 54. O Street , West of 23rd Street, N.W.

This structure has a sump type regulator. The Storm Overflow is formed by a concrete dam in a manhole. A 2-ft. 6-in. by 3-ft. 9-in. egg-shaped Combined Sewer enters the diversion manhole and an 18-in. intercepting connection conveys the Dry-Weather Flow into the Rock Creek Main Interceptor.

The 3-ft. Overflow line discharges into the Slash Run Trunk Sewer Overflow line, and then continues to Rock Creek.



SECTION A-A



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 034

STRUCTURE NO.  
54

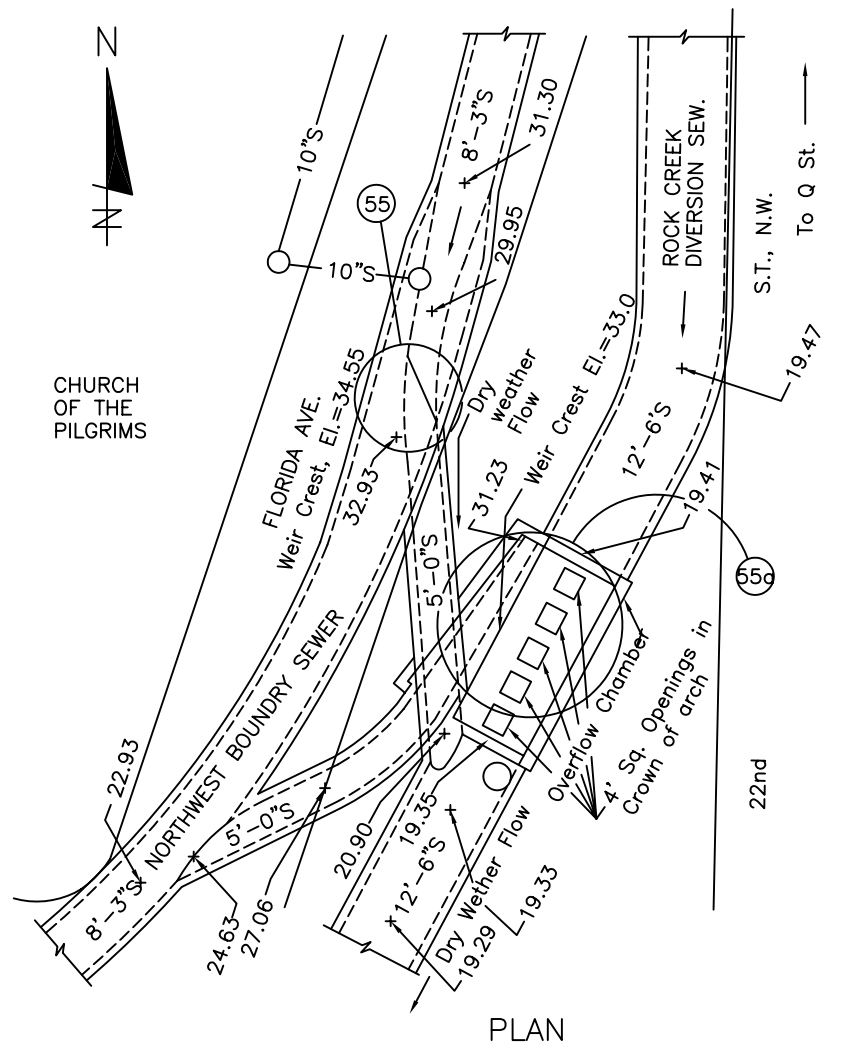


STRUCTURE NO. 55, Northwest Boundary Trunk Sewer, 22nd Street south of Q Street, N.W. This structure has a cunette-type regulator. The Storm Overflow is formed by a raised portion of the invert which acts as a dam. The 8-ft. 3-in. Combined Northwest Boundary Trunk Sewer enters the Chamber, and a 5-ft. diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

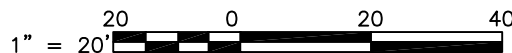
The 8-ft. 3-in. Overflow line discharges into Rock Creek.

STRUCTURE NO. 55a, East Rock Creek Diversion Sewer. This is strictly an Overflow Structure. The Storm Overflow is formed by five 4-ft. by 4-ft. square openings in the crown of the 12-ft. 6-in. East Rock Creek Diversion Sewer. The 12-ft. 6-in. sewer passes through the Overflow Structure without change in size, shape or slope.

The Overflow functions only if and when the East Rock Creek Diversion Sewer becomes surcharged. The Overflow is conveyed to Rock Creek through the Northwest Boundary Trunk Sewer.



PLAN



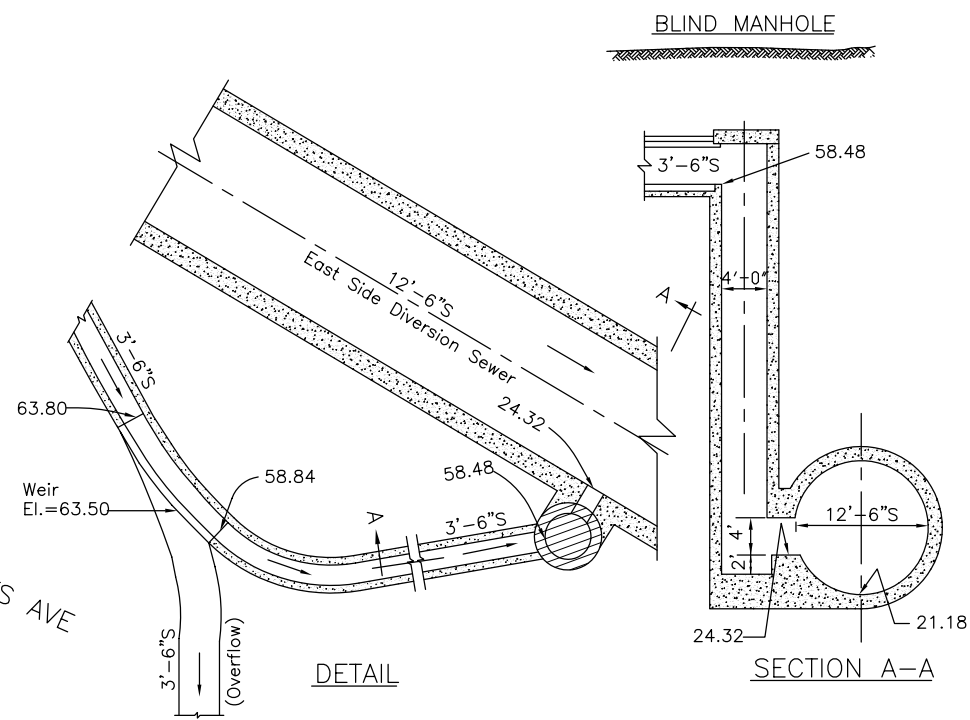
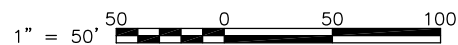
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 035


STRUCTURE NO.  
55, 55a

The 3-ft. 6-in. Overflow line discharges into Rock Creek.



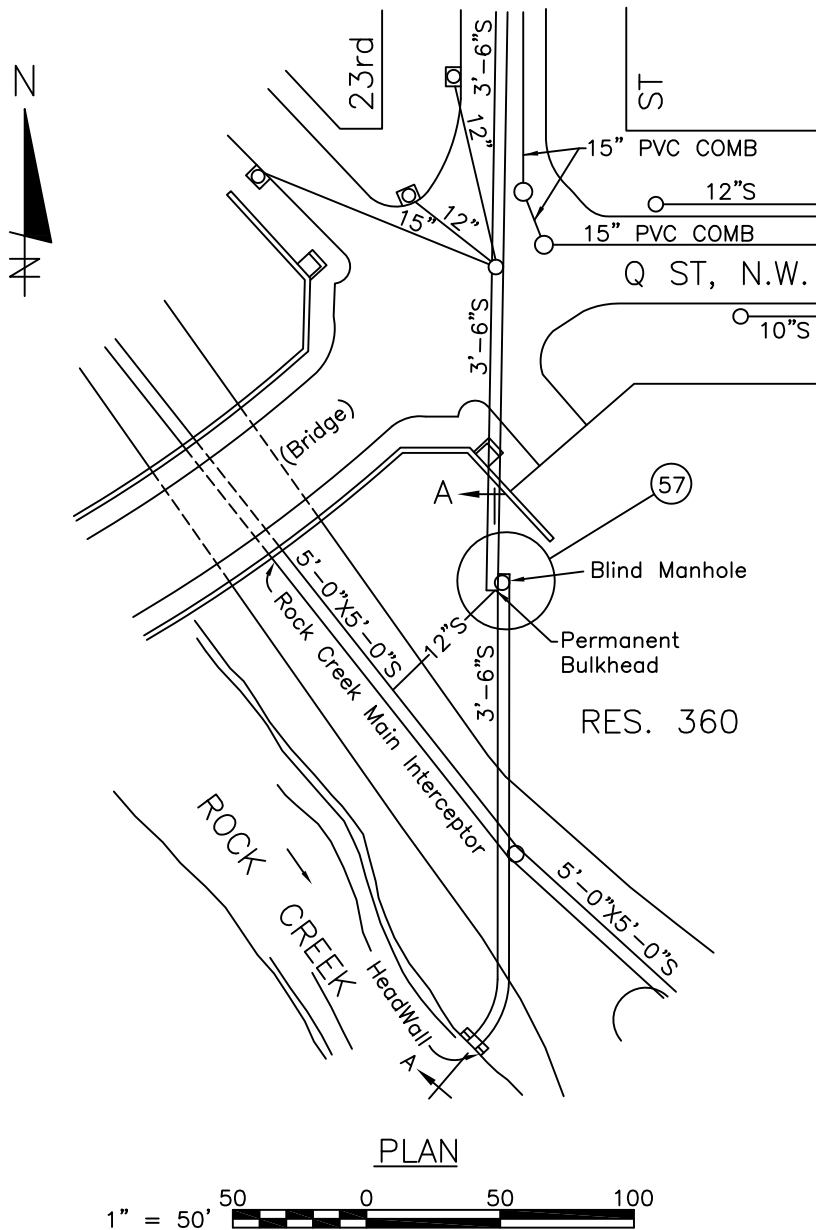
## PLAN



1" = 10' 

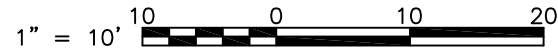
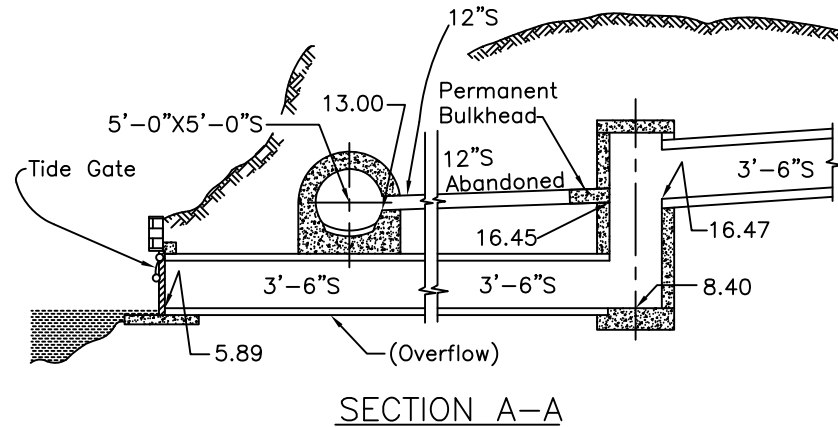
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 036

STRUCTURE NO.  
56



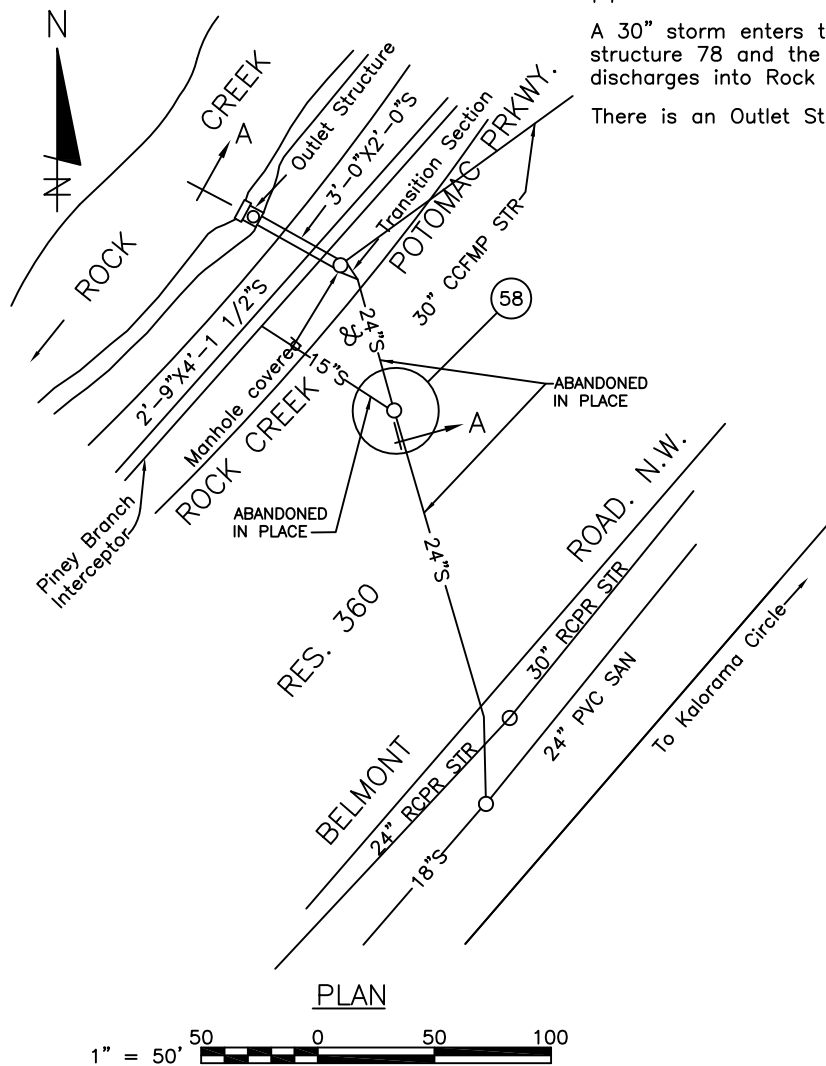
STRUCTURE NO. 57, 23rd Street south of Q Street, N.W.  
This structure has a sump-type regulator.

The 3-ft. 6-in. Overflow line discharges into Rock Creek.  
There is an Outlet Structure and Gate at the Outlet.



REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2014  
ASSOCIATED NPDES OUTFALL # 036

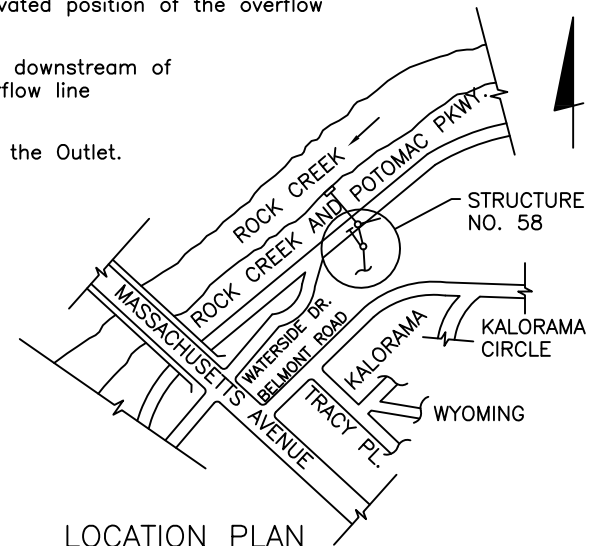
STRUCTURE NO.  
57



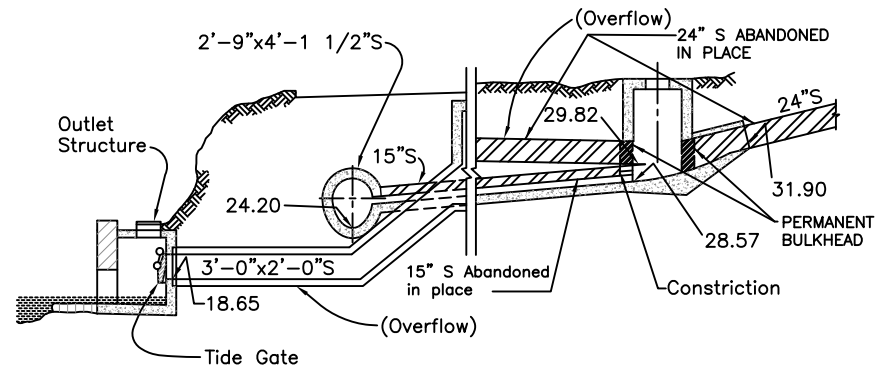
STRUCTURE NO. 58, Northwest of Belmont Road and Rock Creek Potomac Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the overflow pipe.

A 30" storm enters the overflow manhole downstream of structure 78 and the 3-ft. by 2-ft. Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



LOCATION PLAN  
NOT TO SCALE

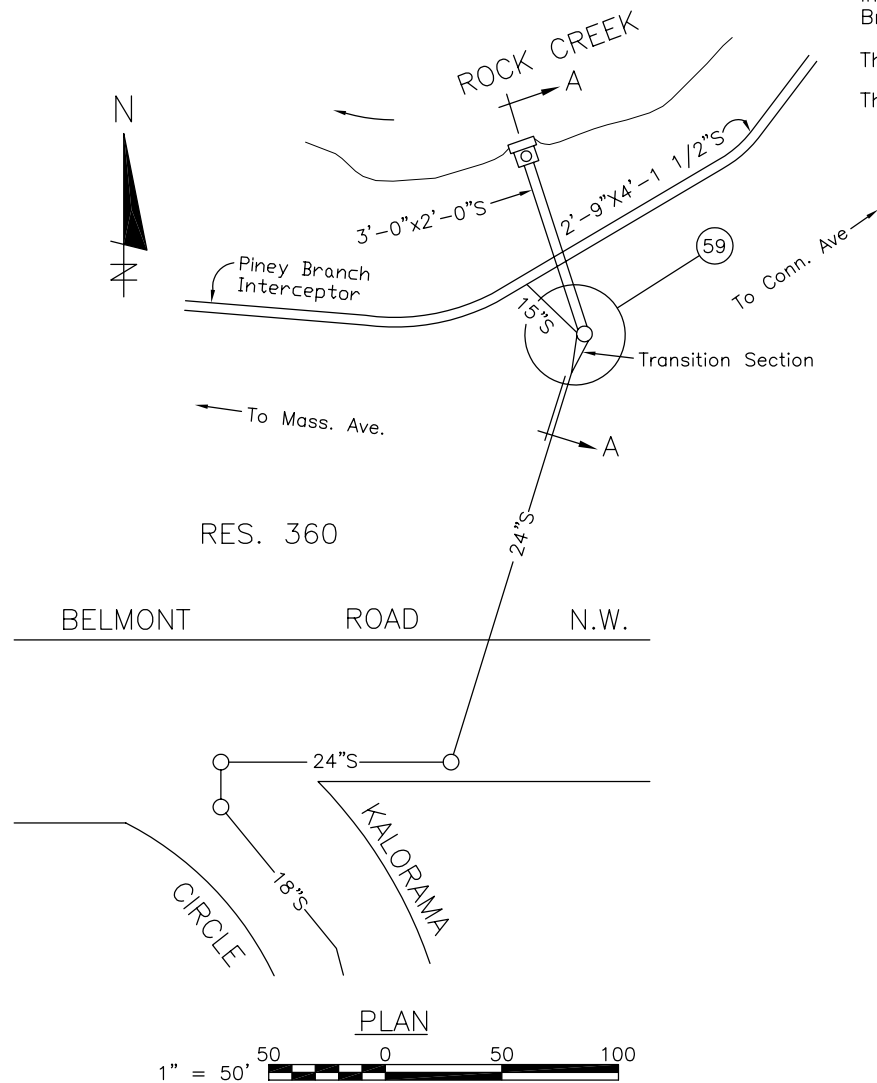


SECTION A-A

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: FEBRUARY 2012  
ASSOCIATED NPDES OUTFALL # 037

THIS OVERFLOW HAS BEEN ELIMINATED  
BASED ON UPSTREAM SEPARATION

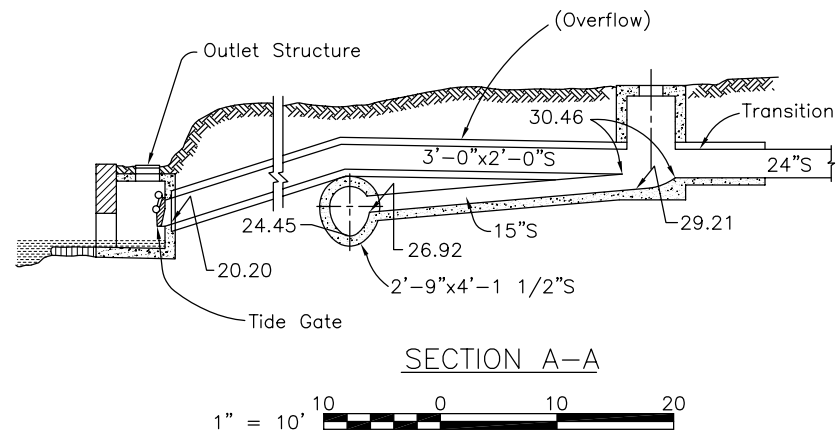
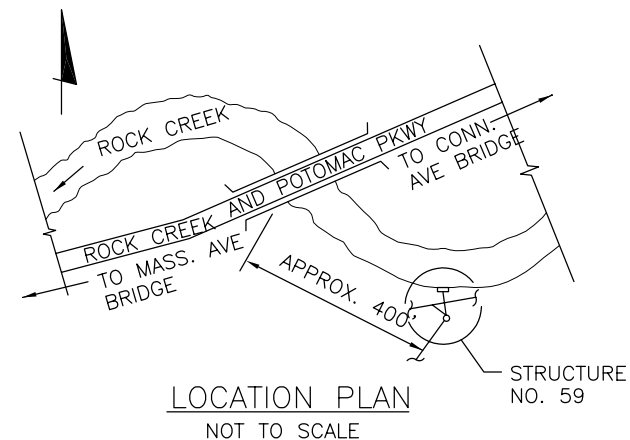
STRUCTURE NO.  
58



STRUCTURE NO. 59. North of Belmont Road and East of Kalorama Circle, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 24-inch Combined Sewer enters the overflow manhole and a 15-inch intercepting connection conveys the Dry-Weather Flow into the Piney Branch Interceptor.

The 3-ft. by 2-ft. Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 038

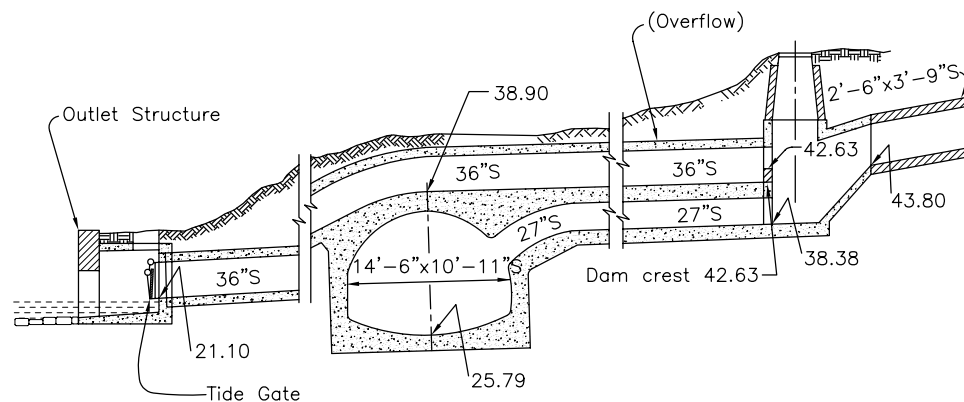
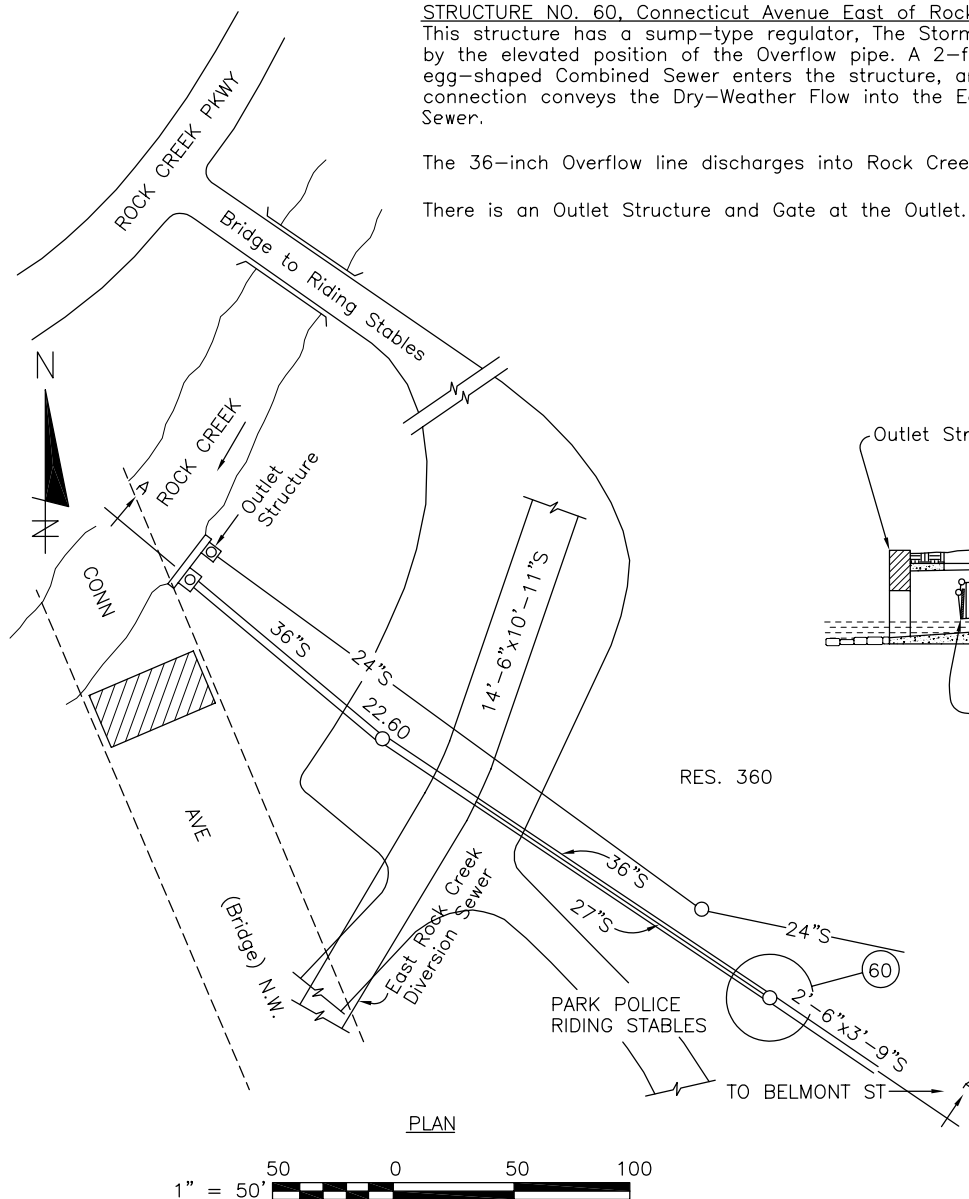
STRUCTURE NO.  
59

STRUCTURE NO. 60, Connecticut Avenue East of Rock Creek, N.W.

This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 2-ft. 6-in. by 3-ft. 9-in. egg-shaped Combined Sewer enters the structure, and a 27-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

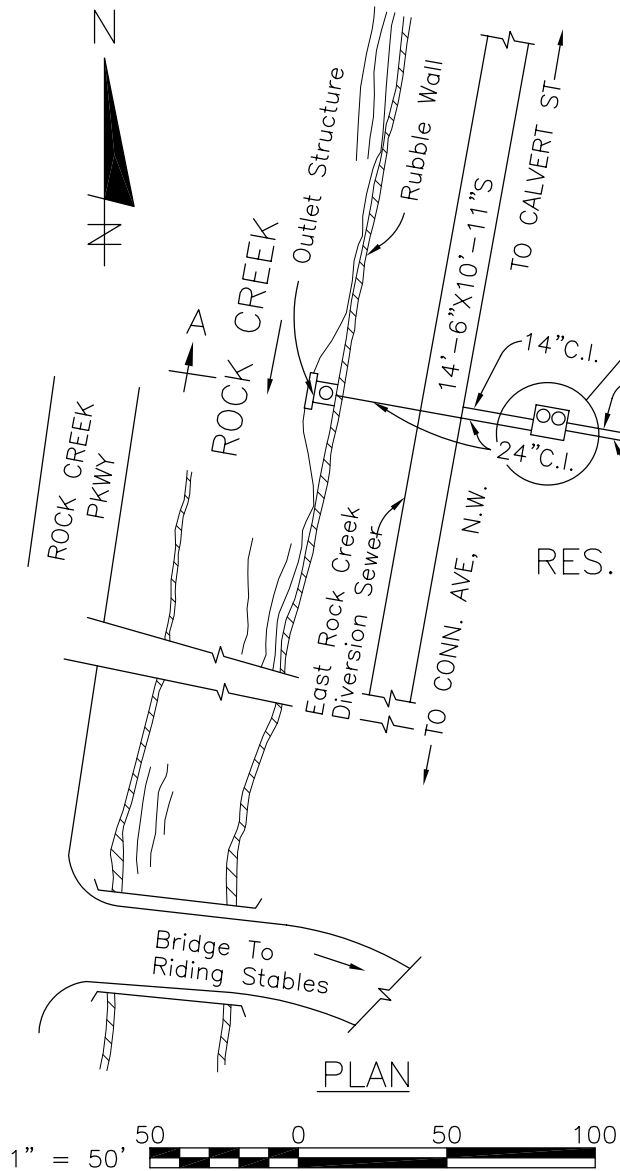
The 36-inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 039

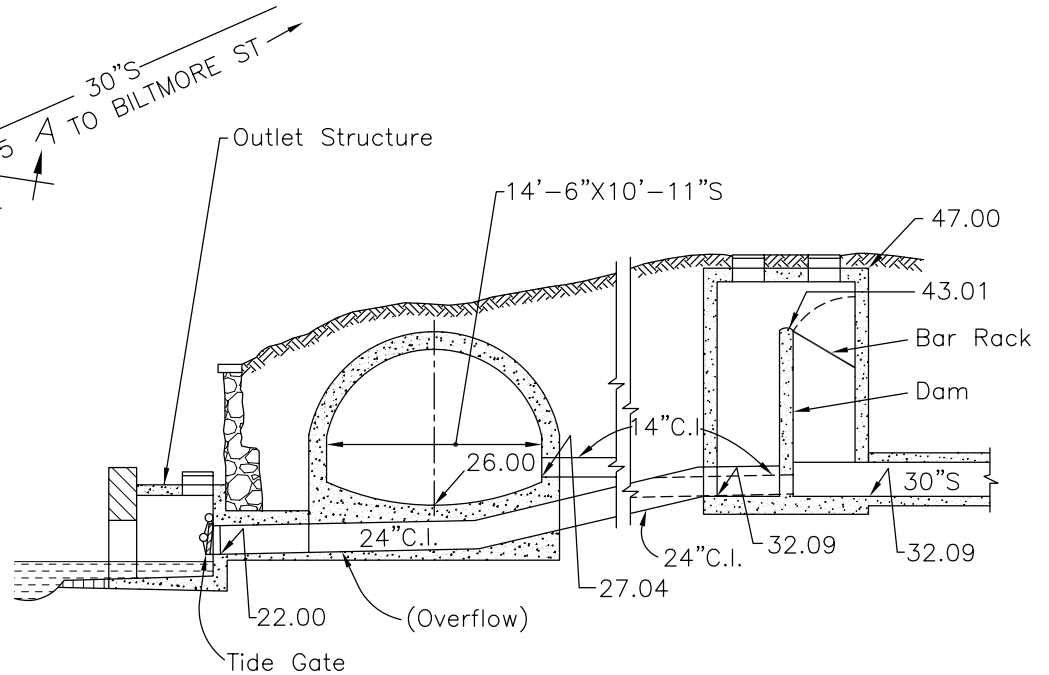
STRUCTURE NO.  
 60



STRUCTURE NO. 61, Biltmore Street, Extended, East of Rock Creek. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 30-inch Combined Sewer enters the structure and a 14-inch cast-iron diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer. The structure includes a Bar Rack that provides solids and floatables control. The Bar Rack rotates up if it becomes blinded.

The 24-inch cast-iron Overflow line discharges into Rock Creek. There is an Outlet Structure and Gate at the Outlet.

RES. 360



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 040

STRUCTURE NO.  
61

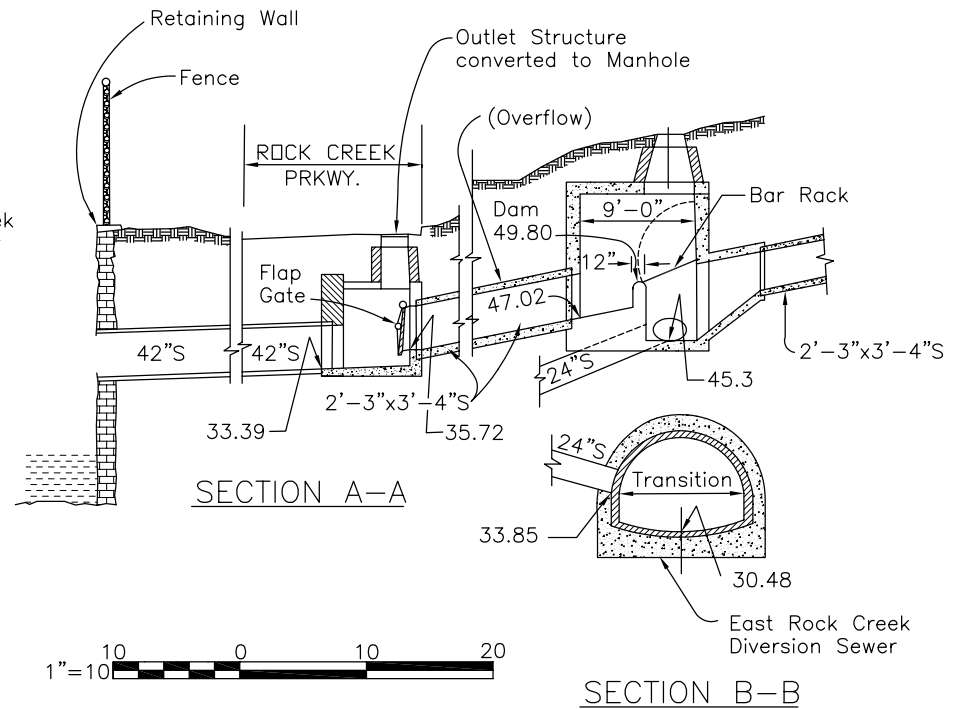
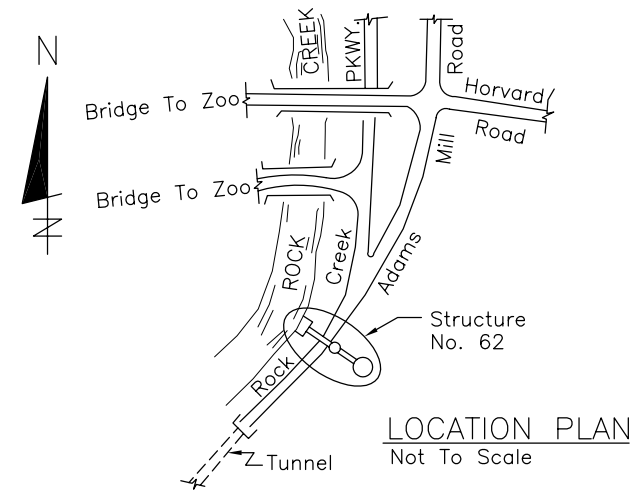
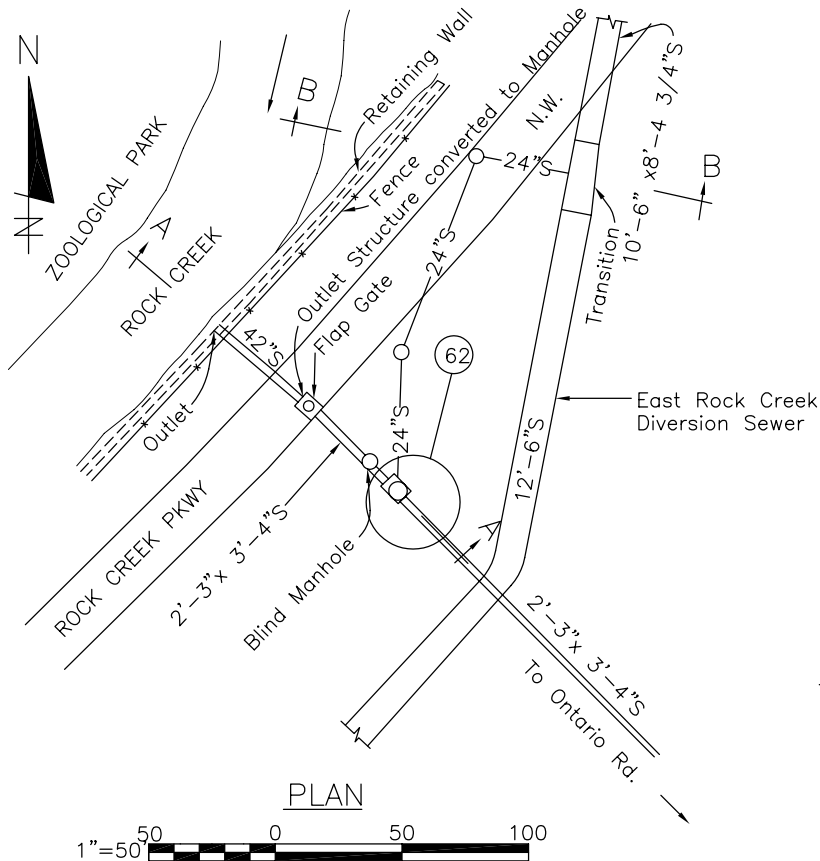
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-62 1:1 04/23/04 14:52 GH-G

STRUCTURE NO. 62, Ontario Road, Extended, and Rock Creek Parkway

This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 2-ft. 3-in. by 3-ft. 4-in. egg-shaped Combined Sewer enters the structure and a 24-in. diversion connection conveys the Dry-Weather Flow to the East Rock Creek Diversion Sewer. The structure includes a Bar Rack that provides solids and floatables control. The Bar Rack rotates up if it becomes blinded.

The 2-ft. 3-in. by 3-ft. 4-in. Overflow line discharges into Rock Creek.

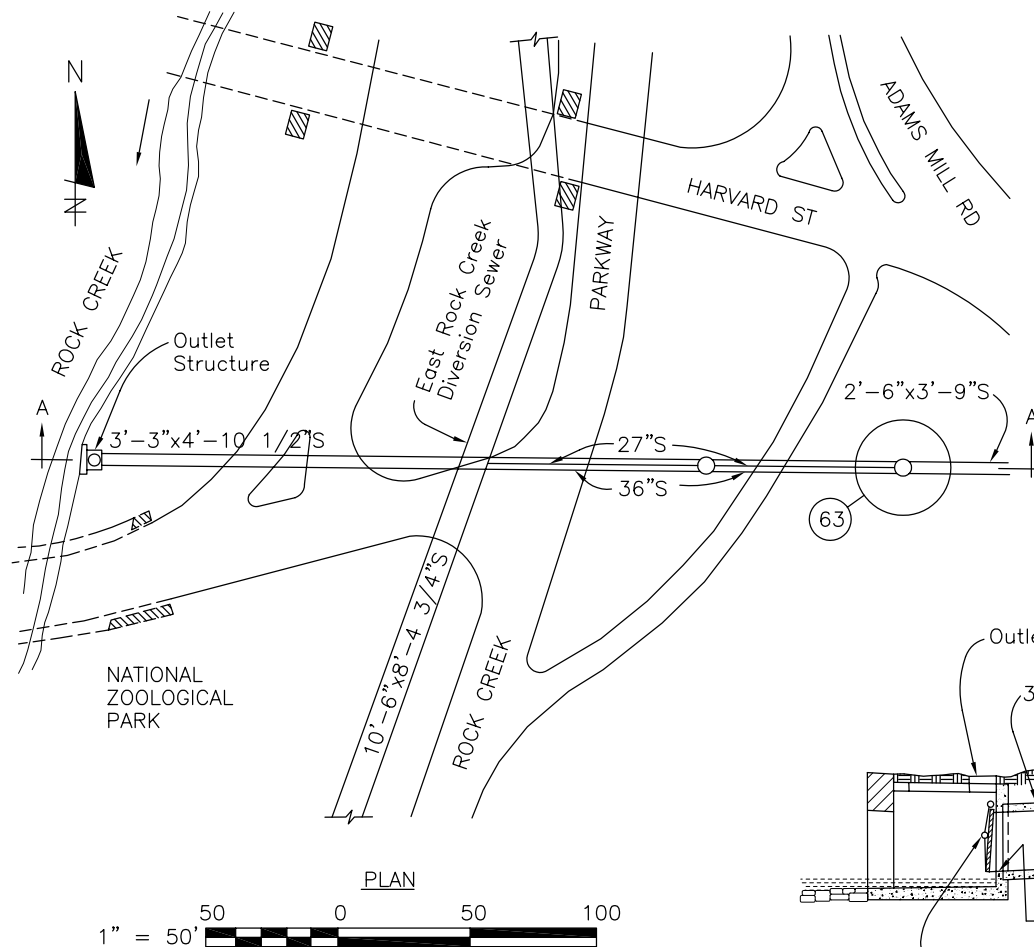
There is a Flap Gate in a manhole midway between the Overflow Structure and Rock Creek.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 041

STRUCTURE NO.  
62

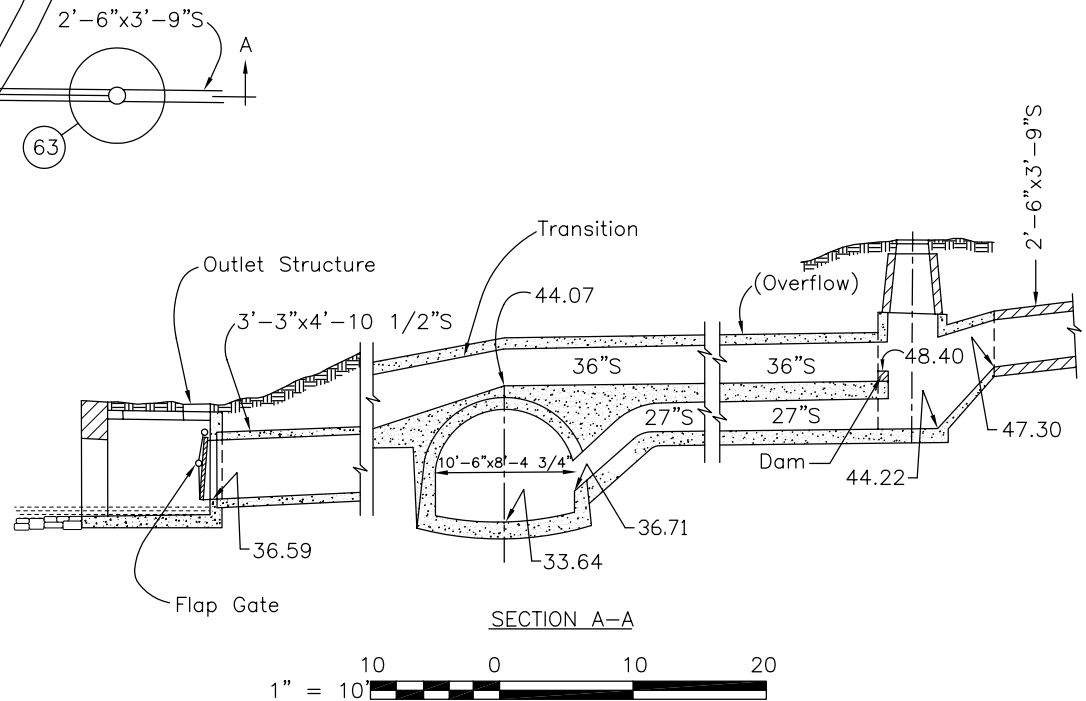




**STRUCTURE NO. 63. Harvard Street and Rock Creek Parkway, N.W.**  
 This Structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 2-ft. 6-in. by 3-ft. 9-in. egg-shaped Combined Sewer enters the structure and a 27-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 36-inch Overflow line discharges into Rock Creek,

There is an Outlet Structure and Gate at the Outlet.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 042

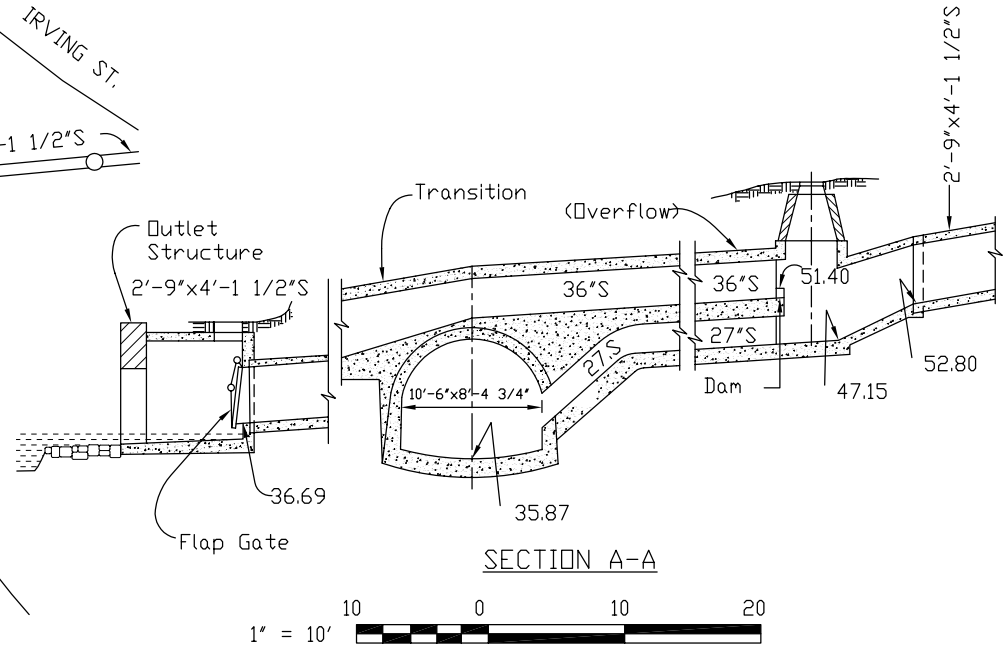
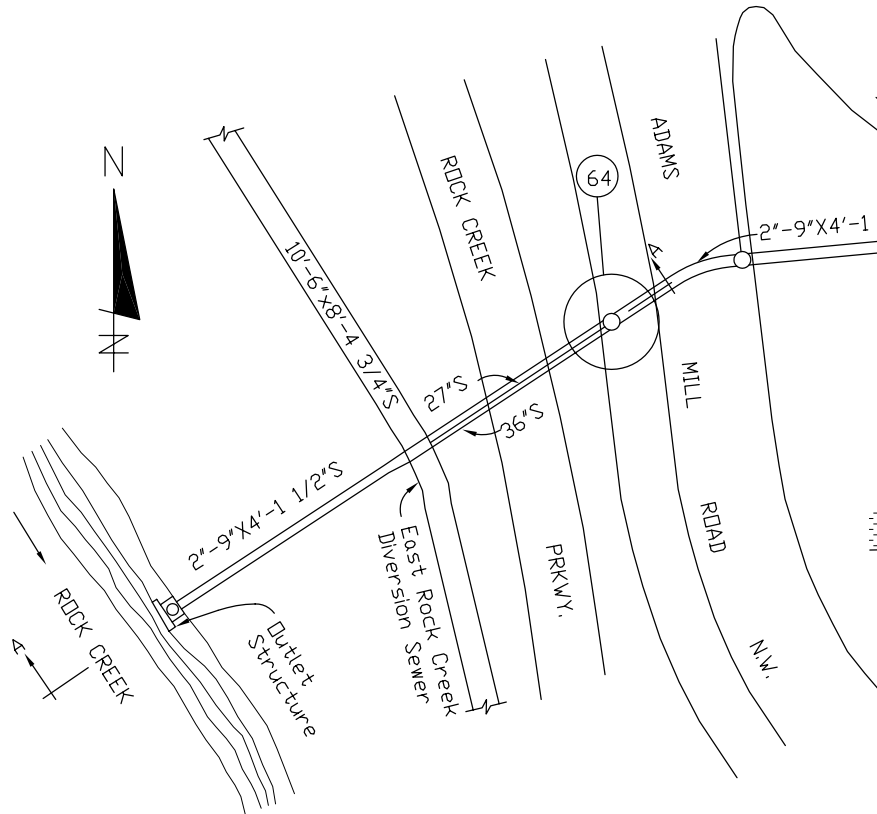
STRUCTURE NO.  
 63

STRUCTURE NO. 64, Adams Mill Road South of Irving Street, N.W.

This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 2-ft. 9-in. by 4-ft. 1-1/2-in. egg-shaped Combined Sewer enters the structure; and a 27-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer. Approximately 400 feet south of Irving Street.

The 36-inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 043

STRUCTURE NO.  
 64

STRUCTURE NO.65, Kenyon Street and Adams Mill Road, N.W.

This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 21-inch Combined Sewer and a 15-inch Combined Sewer enters the overflow manhole, and a 12-inch diversion connection conveys the Dry-Weather Flow into the 2-ft. 9-in. by 4-ft. 1 1/2-in. Sewer east of Structure No. 64.

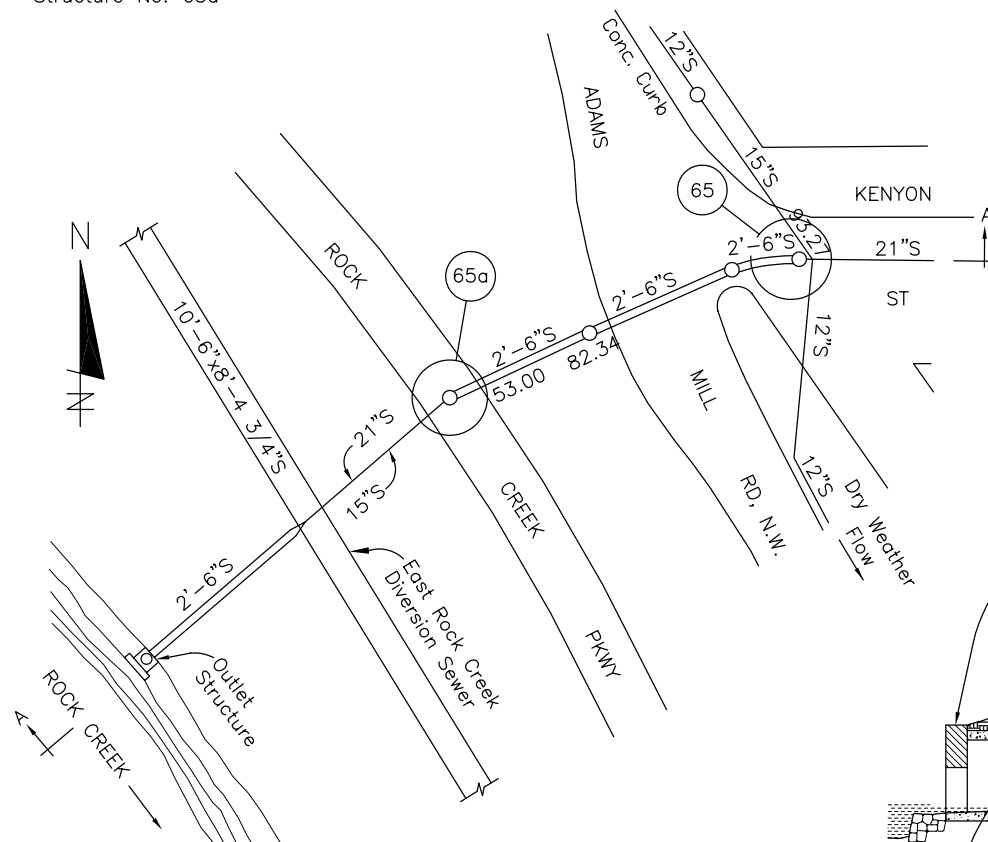
The 2-ft. 6-in. Overflow line continues and becomes a part of Structure No. 65a

STRUCTURE NO. 65a. This structure has a sump-type regulator.

The Storm Overflow formed by the elevated position of the Overflow pipe. A 2-ft. 6-in. Combined Sewer enters the structure, and a 15-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

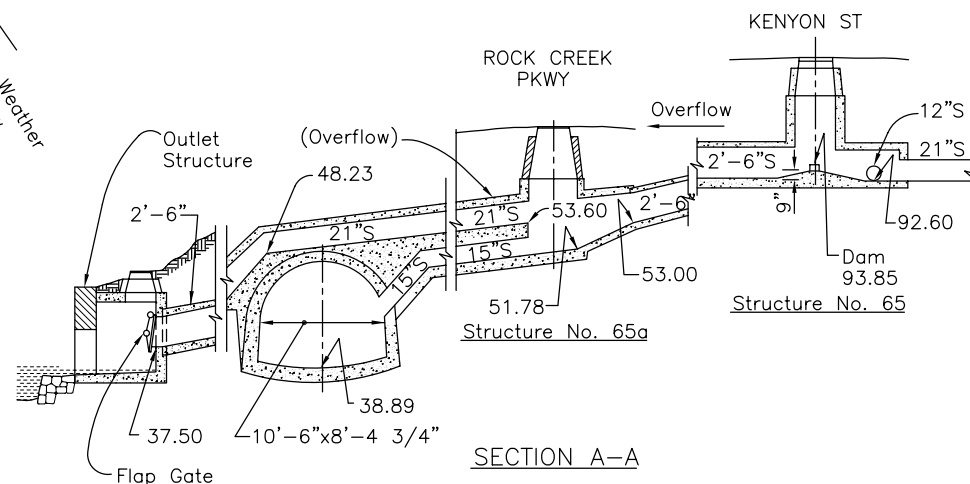
The 21-inch Overflow line discharges to Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

1" = 50'

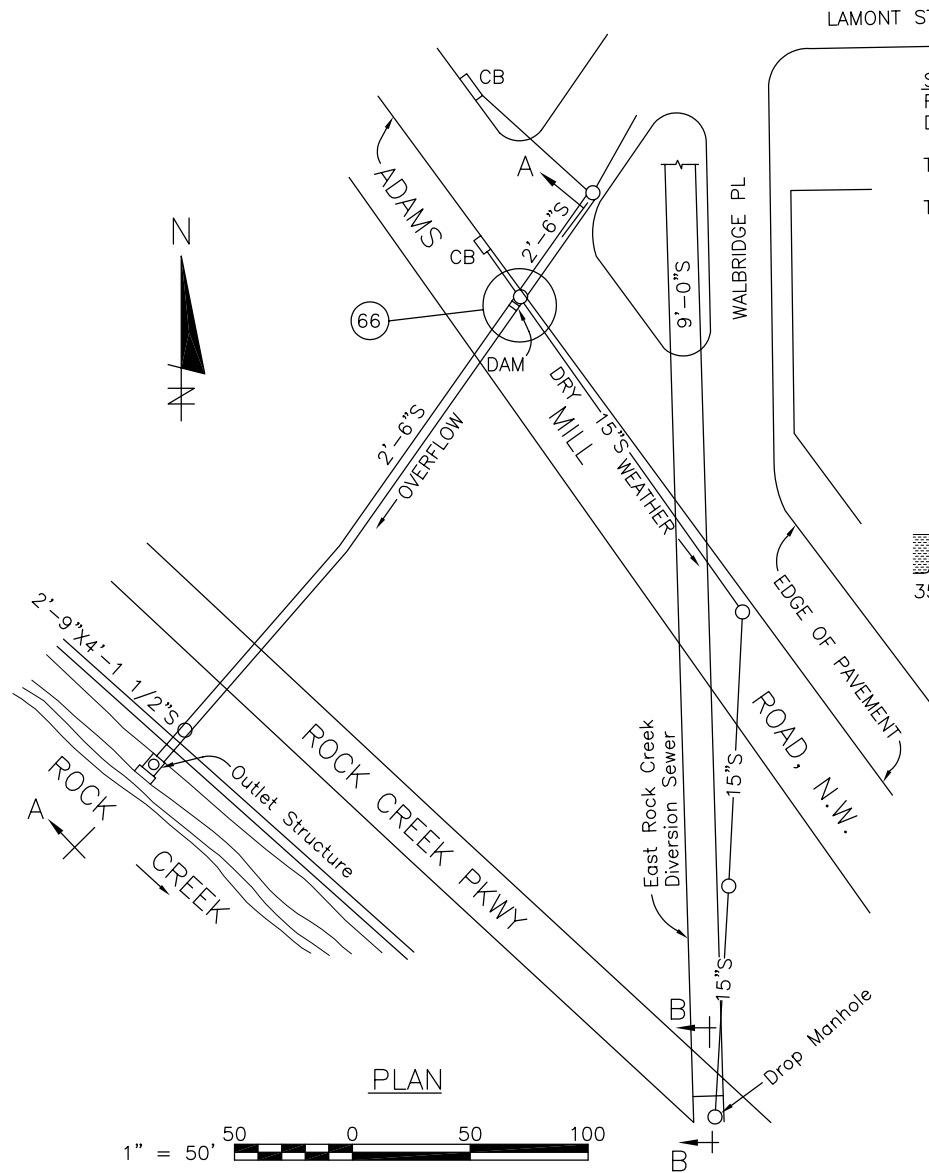


SECTION A-A

1" = 10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 044

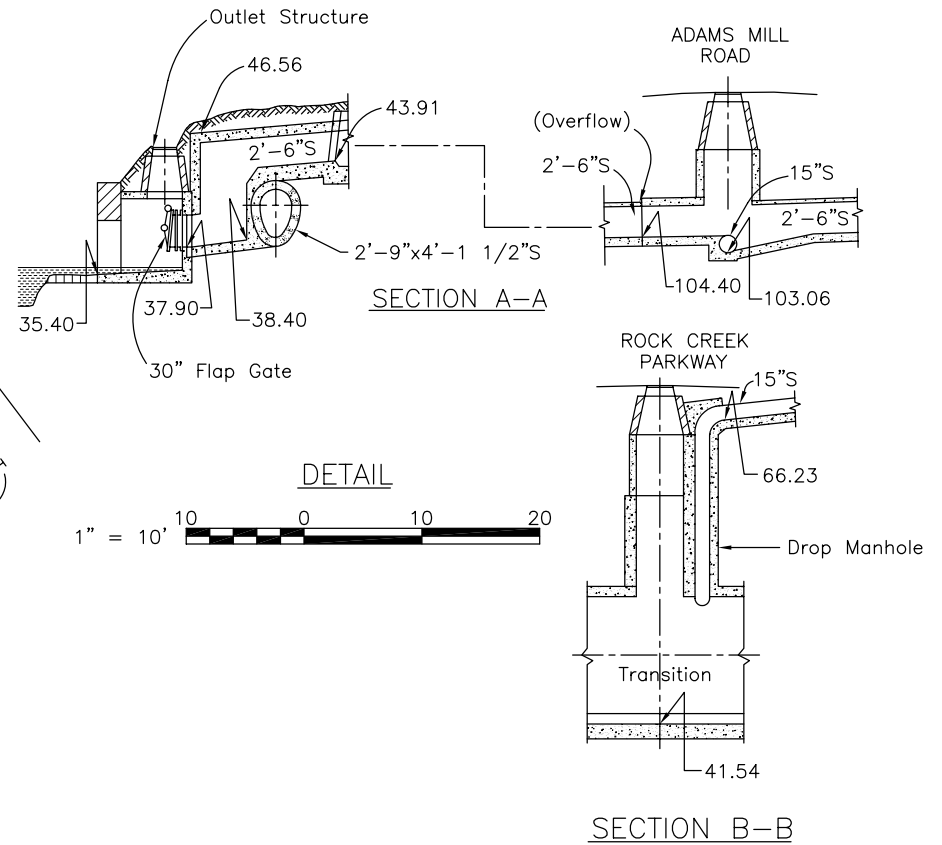
STRUCTURE NO.  
65, 65a



STRUCTURE NO. 66. A 2-ft. 6-in. Combined Sewer enters the structure. Dry Weather Flows are diverted by a dam into a 15-in. sewer and into the East Rock Creek Diversion Sewer. Overflow is into a 2-ft. 6-in. sewer.

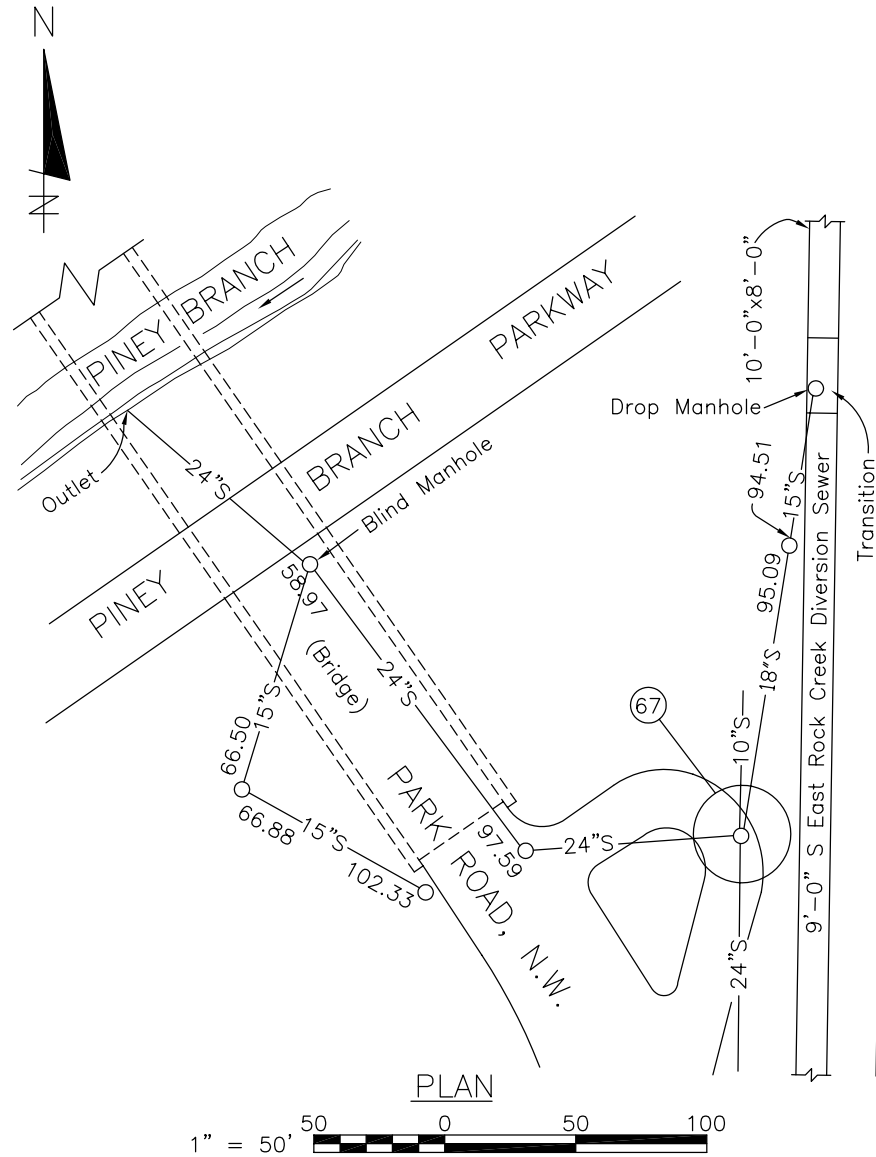
The 2-ft. 6-in. Overflow is into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 045

STRUCTURE NO.  
66

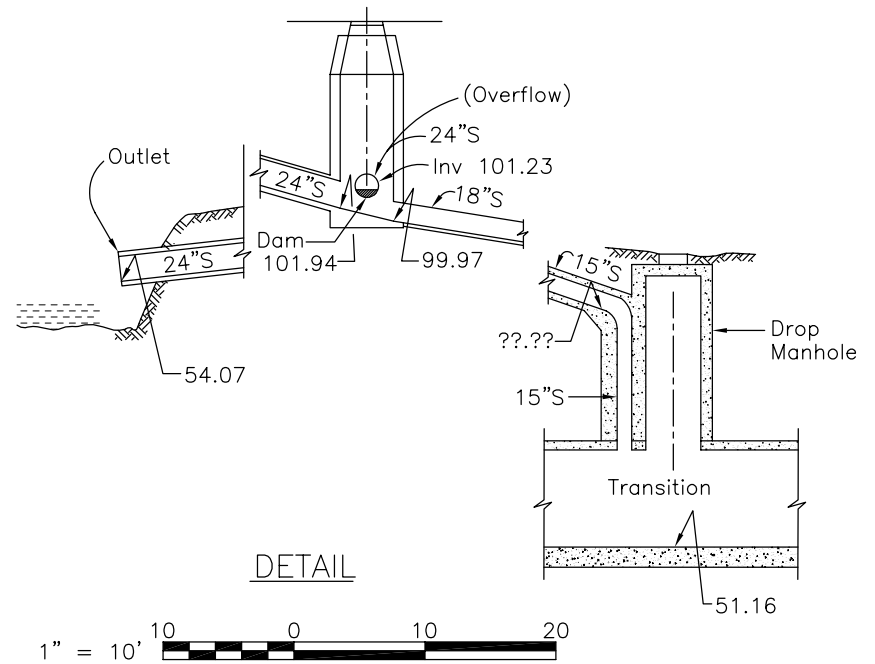


STRUCTURE NO. 67. Park Road South of Piney Branch Parkway, N.W.

This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 24-inch Combined Sewer enters the overflow manhole and an 18-inch, diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 24-inch Overflow line discharges into Piney Branch.

There is no Gate or Outlet Structure at the Outlet.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 046

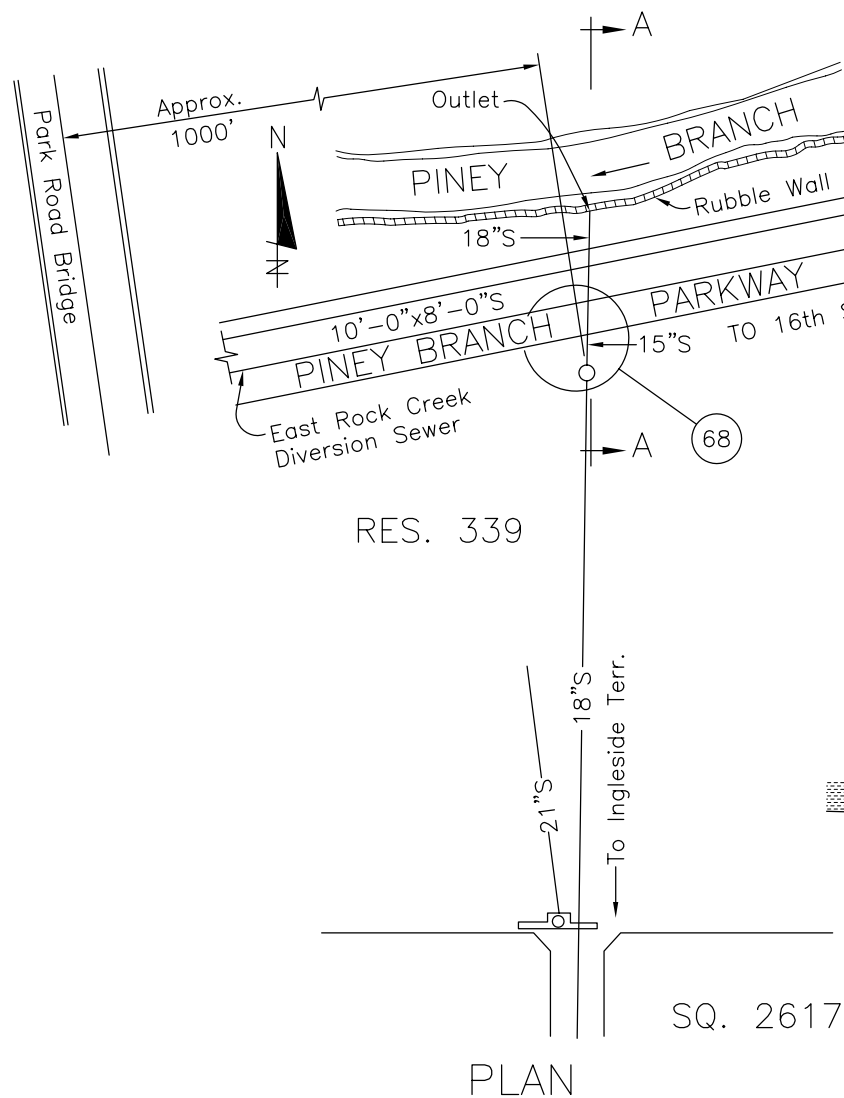
STRUCTURE NO.  
67

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-68 1:1 04/23/04 15:05 GH-G

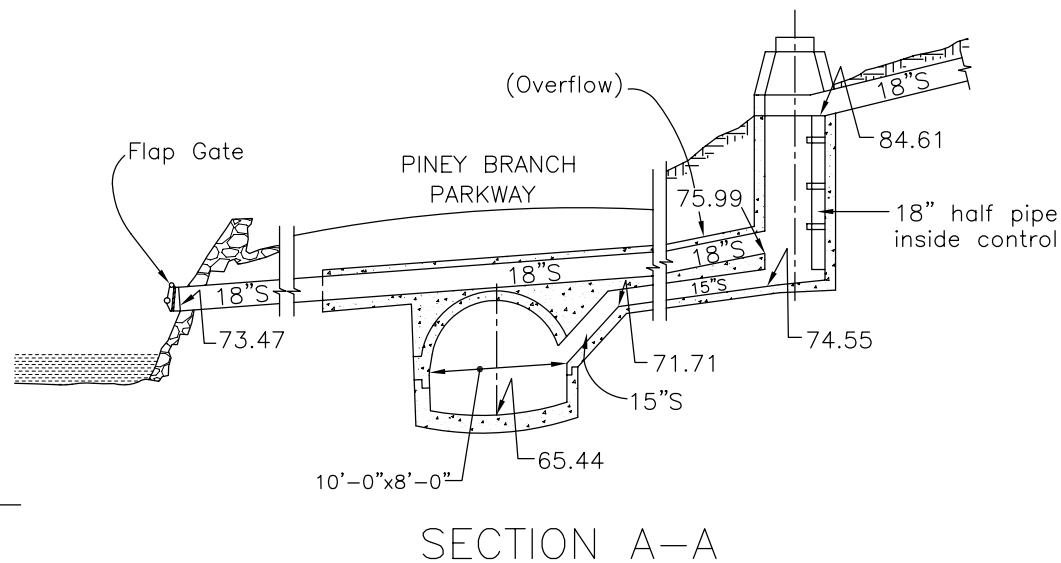
STRUCTURE NO. 68, Ingleside Terrace, Extended, and Piney Branch Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. An 18-inch Combined Sewer enters the overflow manhole and a 15-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 18-inch Overflow line discharges into Piney Branch.

There is a Gate at the Outlet.



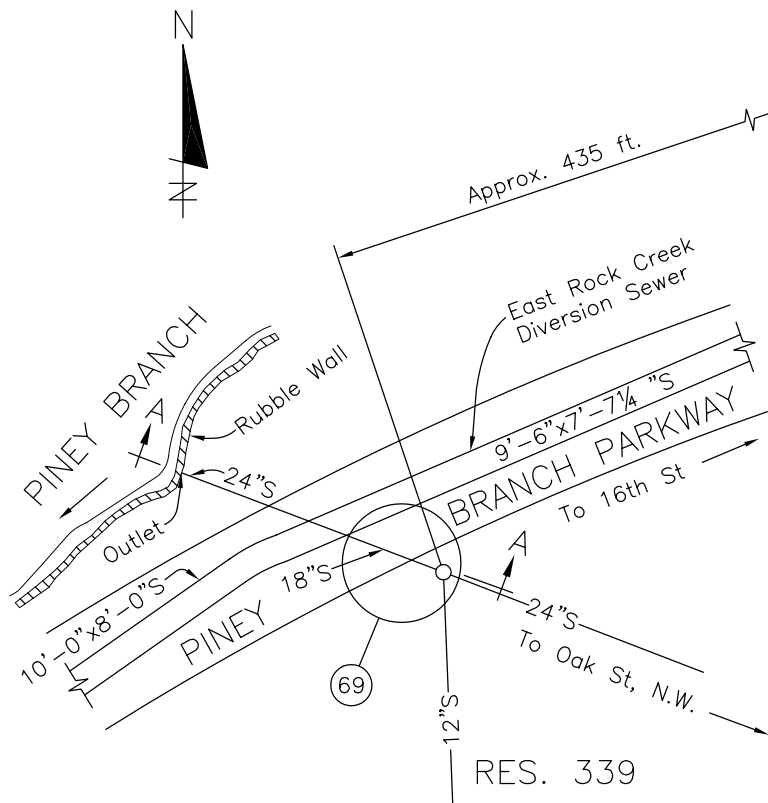
1" = 50'



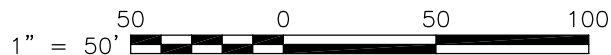
1" = 10'

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 047

STRUCTURE NO.  
 68



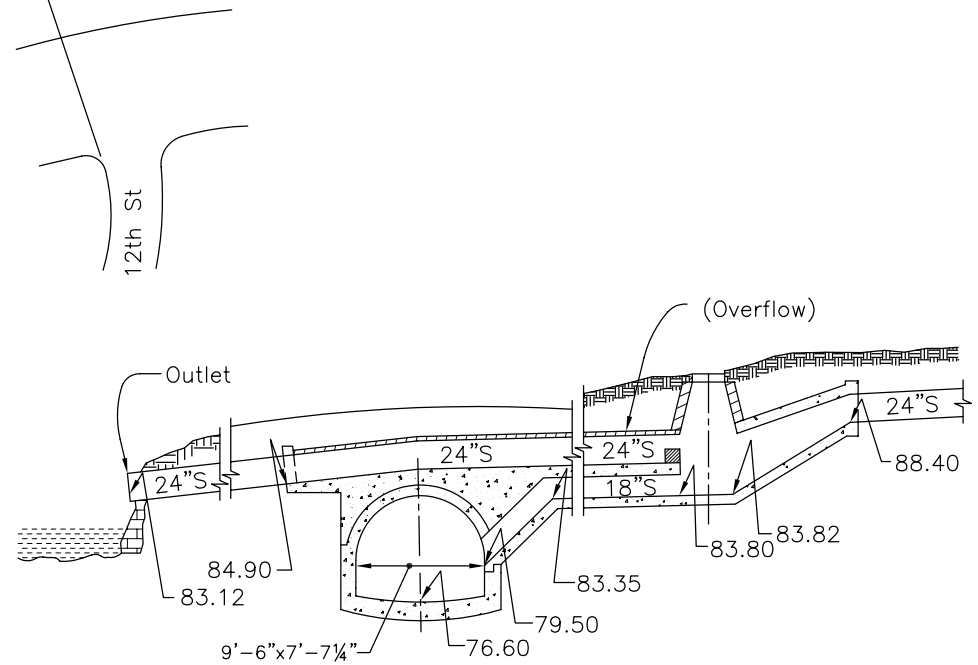
PLAN



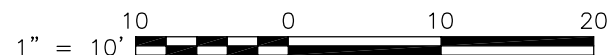
STRUCTURE NO. 69, Oak Street Sewer, Mount Pleasant Street, Extended, and Piney Branch Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 24-inch Combined Sewer enters the overflow manhole, and a 18-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 24-inch Overflow line discharges into Piney Branch.

There is no Outlet Structure or Gate at the Outlet.



SECTION A-A



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 048

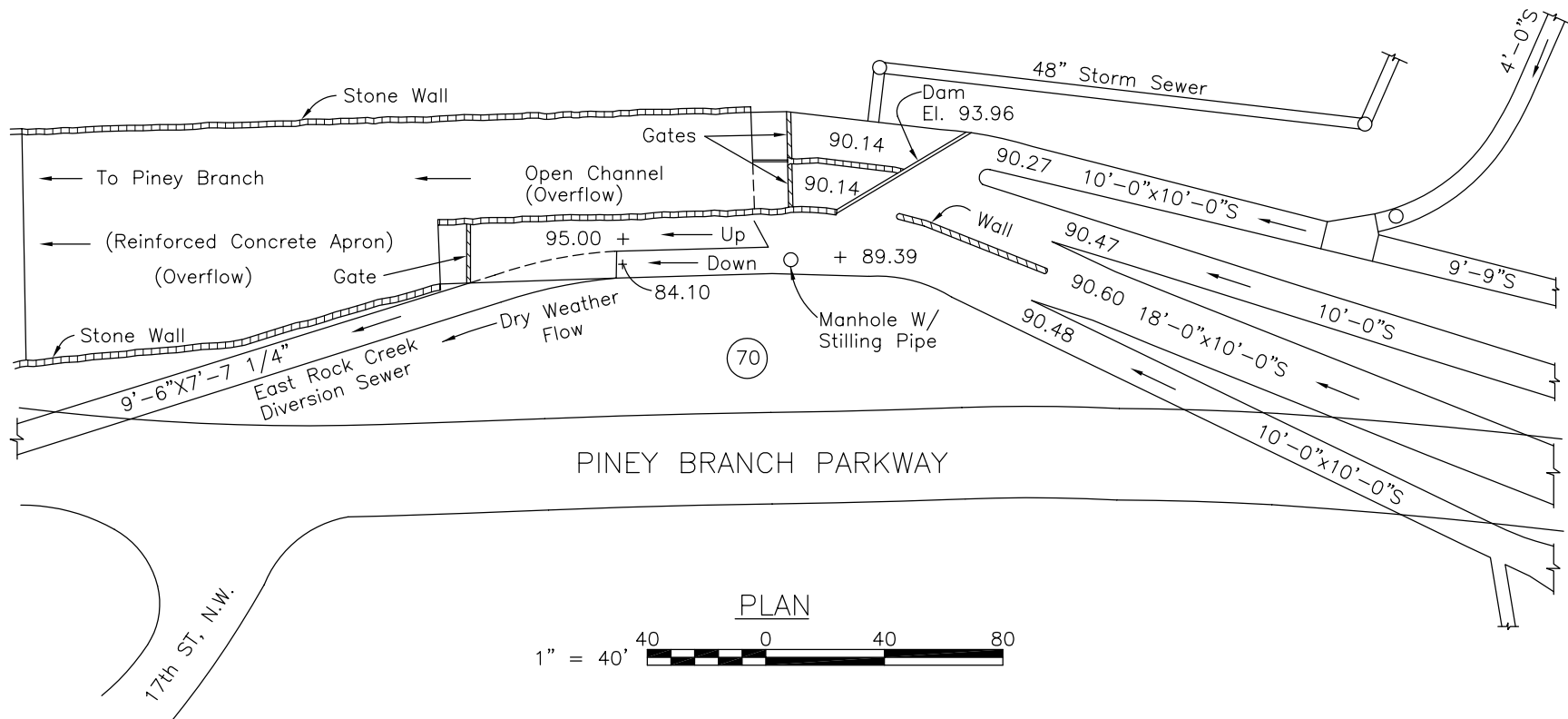
STRUCTURE NO.  
69

STRUCTURE NO. 70, Piney Branch Sewers, Piney Branch Parkway  
 West of 16th Street, N.W. This structure has sump-type regulators.  
 The Storm Overflow is formed by a masonry dam. Two 10-ft. by 10-ft.  
 horseshoe shaped sewers, an 18-ft. by 10-ft. rectangular sewer, and a  
 10-ft. circular sewer, all Combined Sewers, enter the structure. The  
 upstream end of the East Rock Creek Diversion Sewer forms the diversion  
 connection. This connection is 9-ft. 6-in. by 7-ft. 7 1/4-in. in size and  
 has a horseshoe shape. The Dam is 10.90 ft. high where the Dry-Weather  
 Flow enters the diversion connection. In addition there is a 3.67 ft. high  
 dam at the north end of the structure. The Overflow line is an open concrete  
 channel.

The Overflow Channel discharges into Piney Branch which in turn discharges  
 to Rock Creek.

There are Gates at the Outlets.

RES. 339



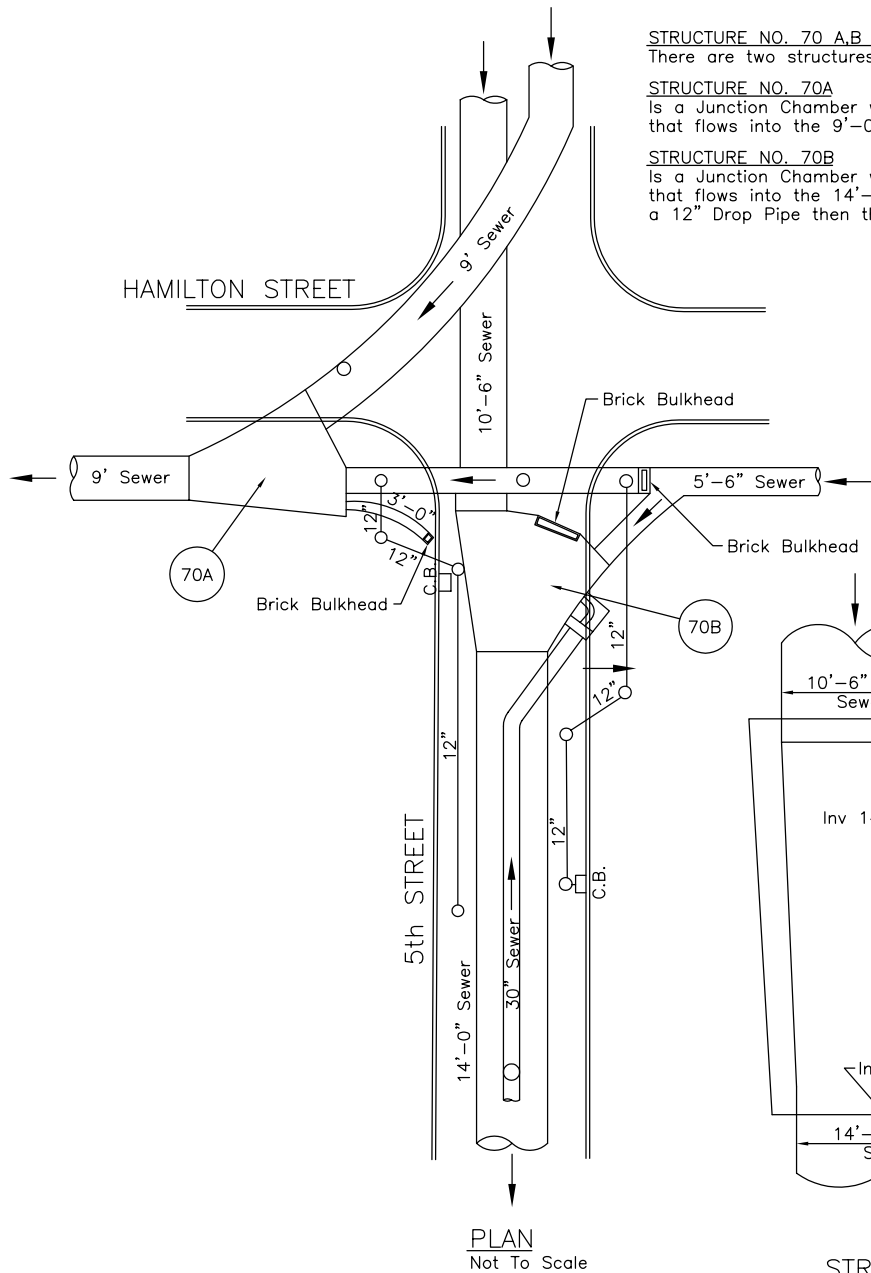
PLAN

1" = 40' 40 0 40 80

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 049

STRUCTURE NO.  
 70





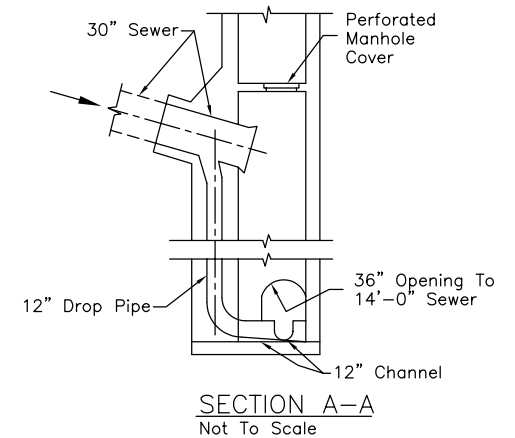
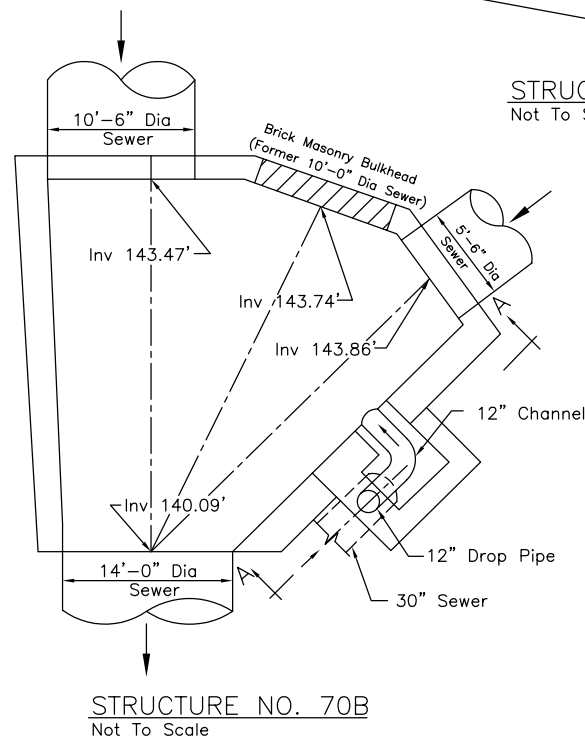
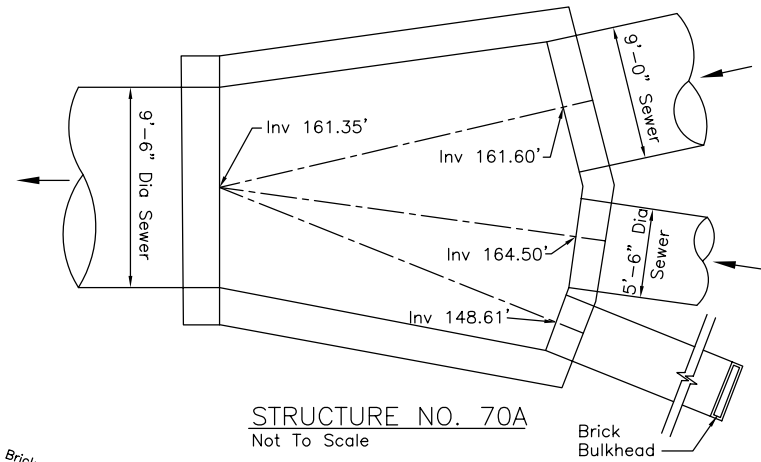
**STRUCTURE NO. 70 A,B 5th & HAMILTON STREET**  
There are two structures at this location.

**STRUCTURE NO. 70A**

Is a Junction Chamber with a 5'-6" dia, 3'-0" dia ports bulkheaded closed and a 9'-0" dia sewer that flows into the 9'-0" Piney Branch Trunk Sewer.

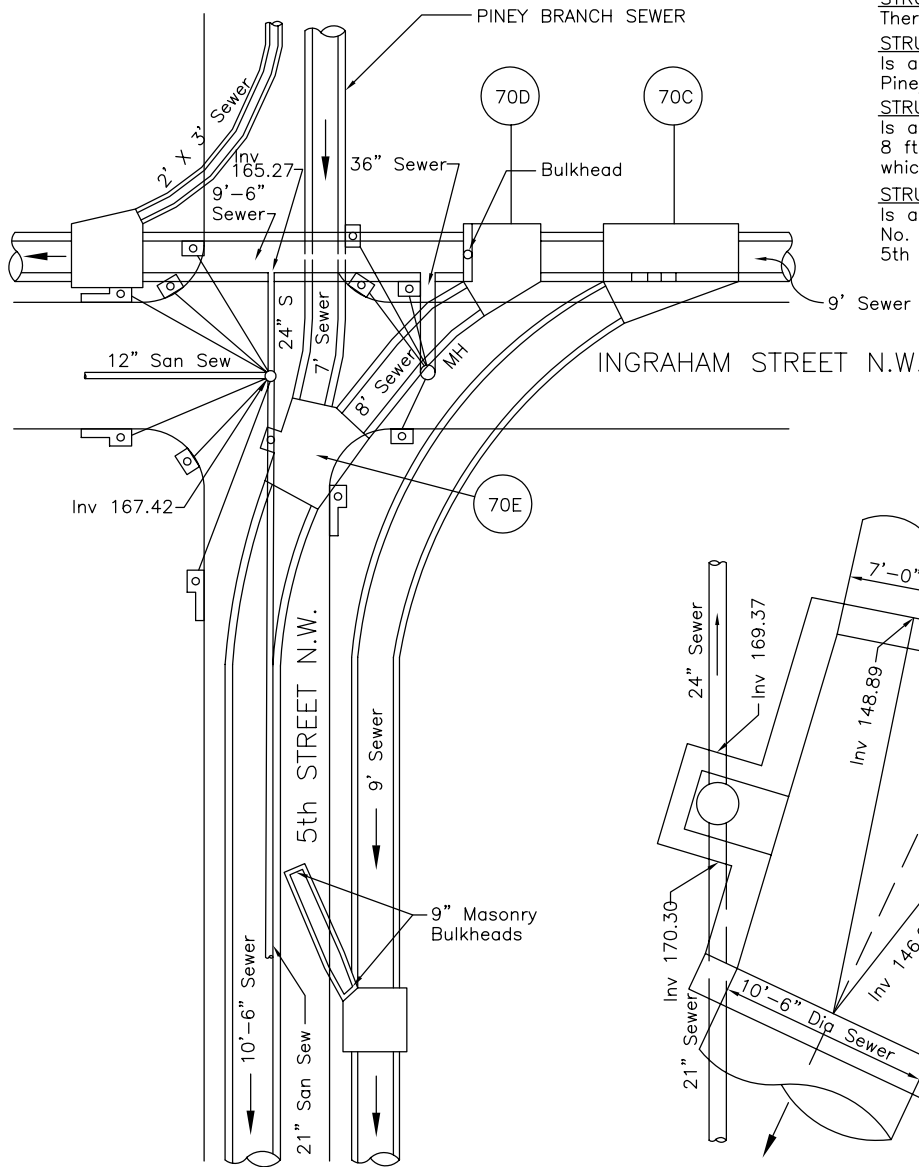
**STRUCTURE NO. 70B**

Is a Junction Chamber with a 14'-0" dia, 5'-6" dia and 10'-6" dia ports and 10'-0" dia bulkheaded sewer that flows into the 14'-0" Piney Branch Trunk Sewer. Sewer from the 30" dia flows into Structure No. 70b via a 12" Drop Pipe then through a 36" opening into the 14'-0" sewer.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

**STRUCTURE NO.**  
70a, 70b



PLAN  
Not To Scale

STRUCTURE NO. 70C,D,E 5th & INGRAHAM STREET N.W.  
There are three structures at this location.

STRUCTURE NO. 70C

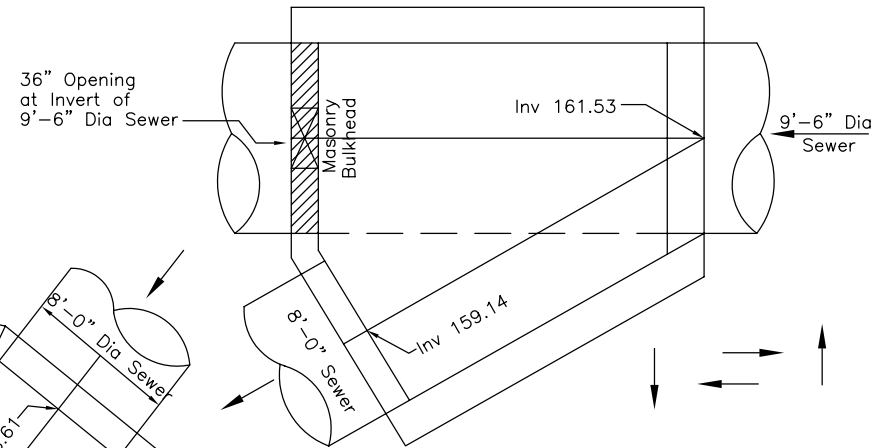
Is a Junction Chamber with two 2'-6"x 2'-0" ports to release flow into the 9 ft. diameter Piney Branch Trunk Sewer.

STRUCTURE NO. 70D

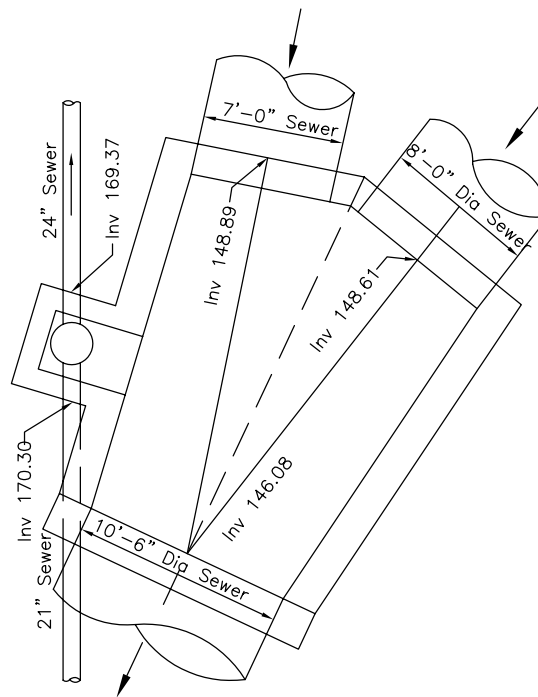
Is a Junction Chamber which diverts the flow from the 9'-6" diameter Piney Branch Sewer into the 8 ft. branch of the Piney Branch Trunk Sewer. There is a 36" arched opening in the west bulkhead which diverts the 9'-6" sewer to relieve flow into the Piney Branch Sewer.

STRUCTURE NO. 70E

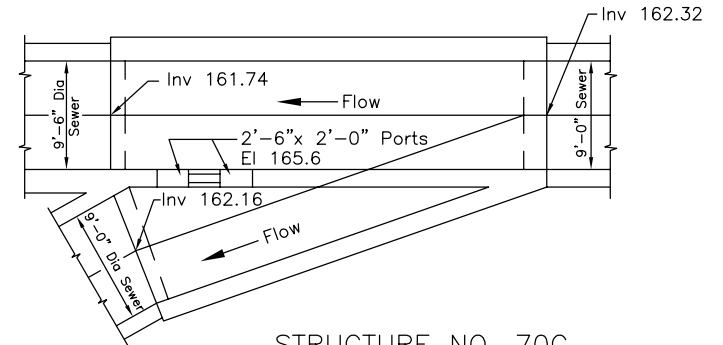
Is a Junction Chamber connecting the 7 ft. sewer in 5th Street and the 8 ft. sewer from Structure No. 70d with the 10'-6" Piney Branch Trunk sewer and the Sanitary Flow from a 21-inch sewer in 5th Street and a 12-inch sewer in Ingraham Street.



STRUCTURE NO. 70D  
Not To Scale



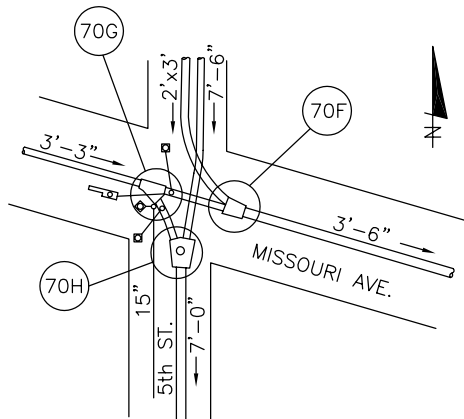
STRUCTURE NO. 70E  
Not To Scale



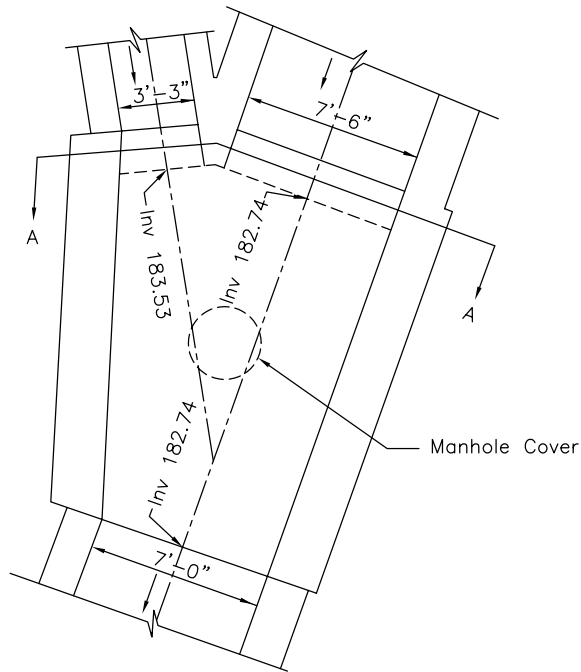
STRUCTURE NO. 70C  
Not To Scale

STRUCTURE NO.  
70c, 70d, 70e

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A



LOCATION PLAN  
Not To Scale



STRUCTURE NO. 70H  
Not To Scale

STRUCTURE NO. 70F,G,H - 5th & MISSOURI AVE. N.W.  
There are three structures at this location.

STRUCTURE NO. 70F

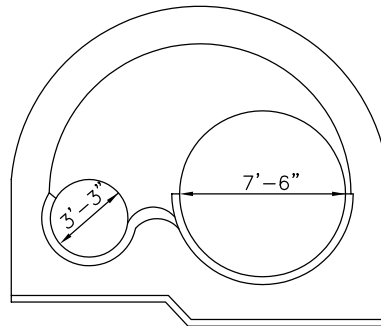
Is a Junction Chamber between the 2'x 3' Piney Branch Combined Sewer in 5th Street and the 3'x 6' sewer in Missouri Avenue.

STRUCTURE NO. 70G

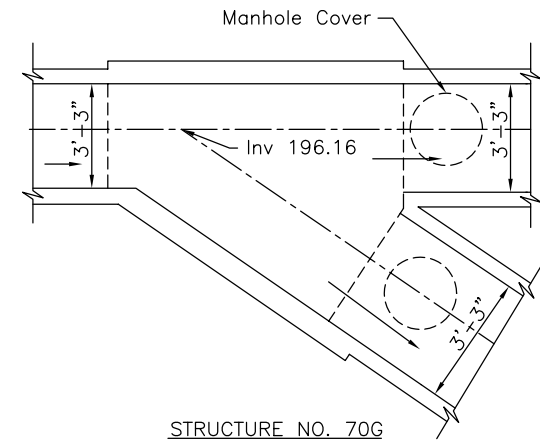
Is a Junction Chamber between the 3'-3" Combined Sewer in Missouri Avenue, the Piney Branch Sewer and the Rock Creek Diversion Sewer.

STRUCTURE NO. 70H

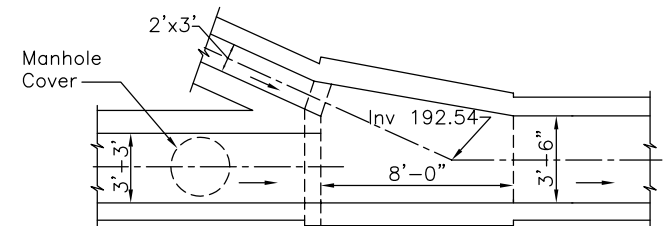
Is a Junction Chamber between the 3'-3" Combined Leg from Structure No. 70G the 7-ft. Rock Creek Diversion Sewer and the 7'-6" Rock Creek Diversion.



SECTION A-A (70H)  
Not To Scale



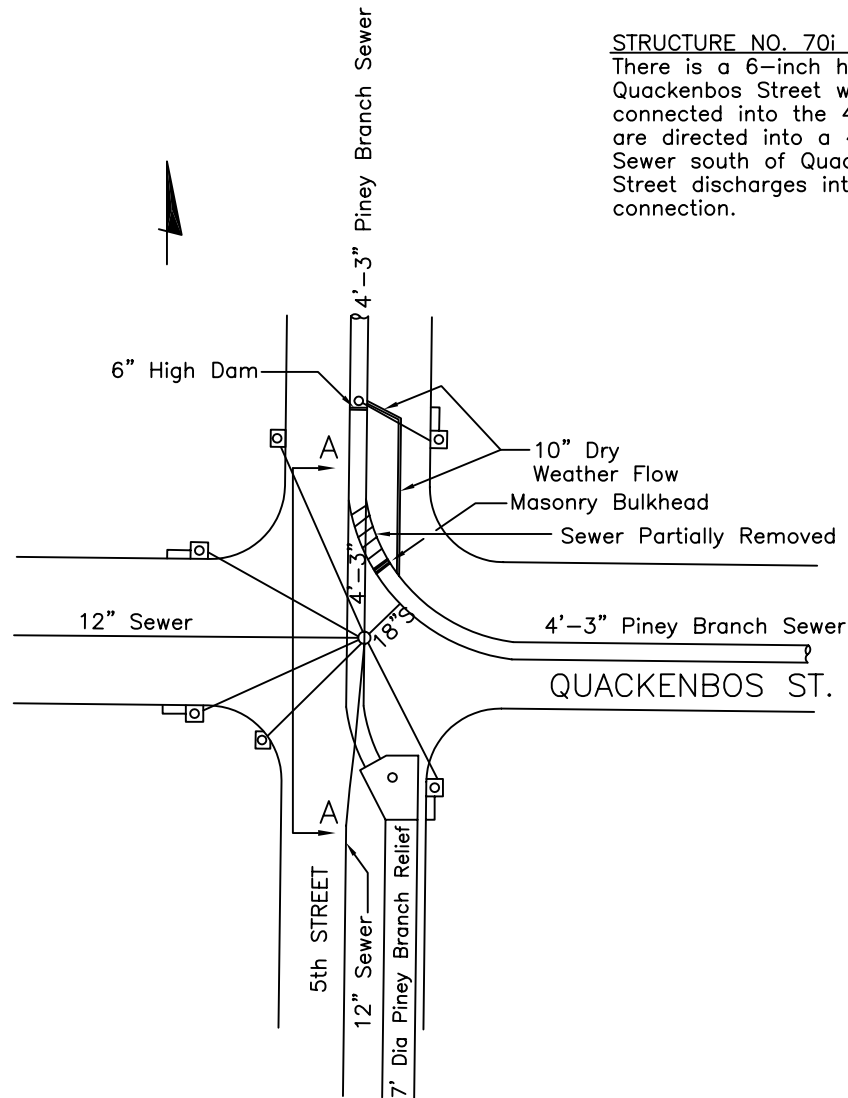
STRUCTURE NO. 70G  
Not To Scale



STRUCTURE NO. 70F  
Not To Scale

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

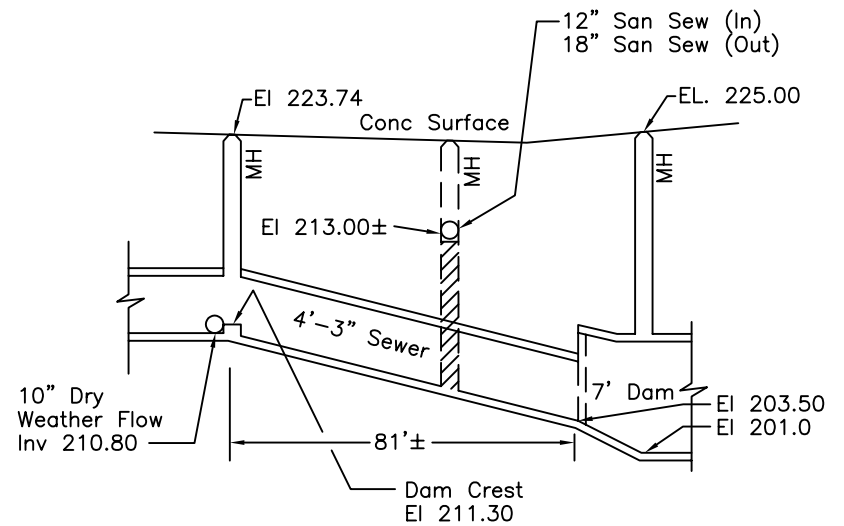
STRUCTURE NO.  
70f, 70g, 70h



LOCATION PLAN  
Not To Scale

STRUCTURE NO. 70i - 5th & QUACKENBOS STREETS N.W.

There is a 6-inch high dam in the 4'-3" Piney Branch Sewer north of Quackenbos Street which diverts Dry Weather Flow into a 10-inch sewer connected into the 4'-3" sewer downstream of a bulkhead. Storm flows are directed into a 4'-3" relief connection which becomes a 7-ft. Relief Sewer south of Quackenbos Street. The 12-inch Sanitary Sewer in 5th Street discharges into the Piney Branch Sewer through an 18-inch connection.



SECTION A-A  
SECTION PINEY BRANCH RELIEF  
Not To Scale

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 049

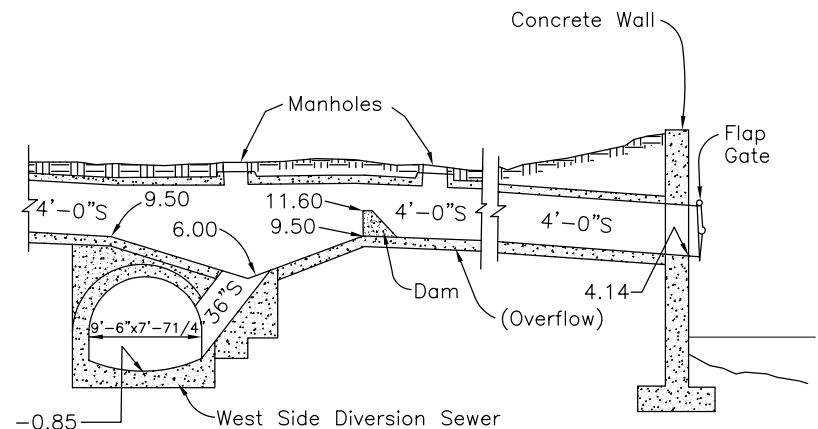
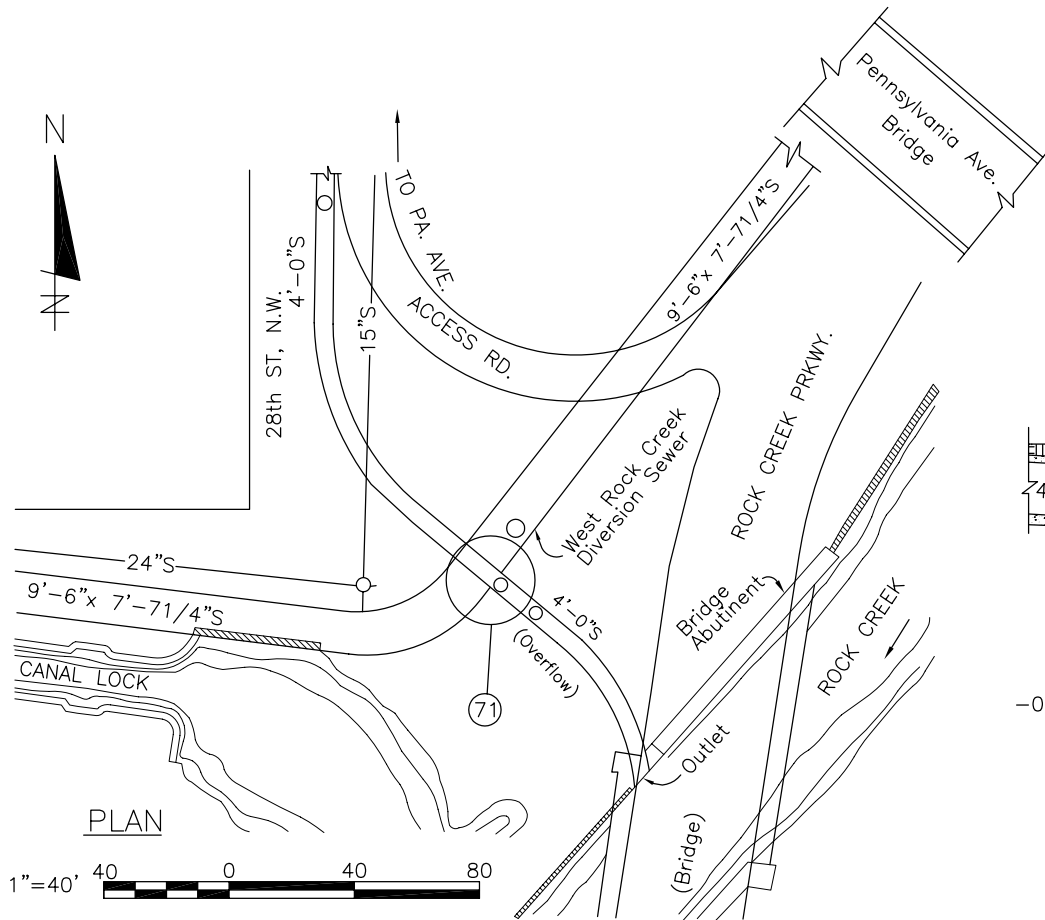
STRUCTURE NO.  
70i

STRUCTURE NO. 71, 28th Street, West of Rock Creek Parkway, N.W.

This structure has a sump-type regulator. The Storm Overflow is formed by a depressed section of the invert and a masonry dam. A 4-ft. Combined Sewer enters the manhole, and a 36-inch diversion connection conveys the Dry-Weather Flow to the West Rock Creek Diversion Sewer.

The 4-ft. Overflow line discharges into Rock Creek.

There is a Flap Gate on the outlet line mounted on a retaining wall at Rock Creek.



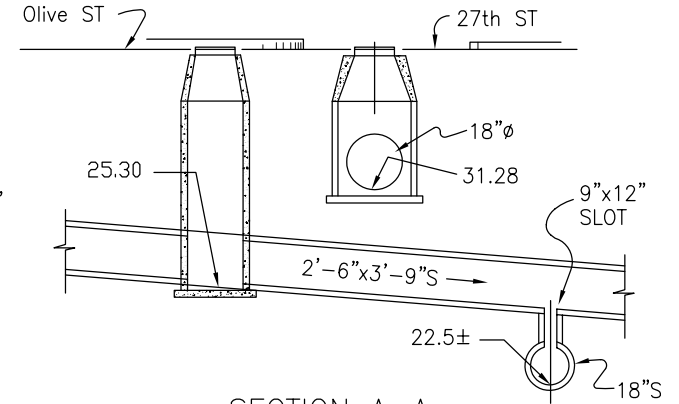
REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # 050

STRUCTURE NO.  
 71

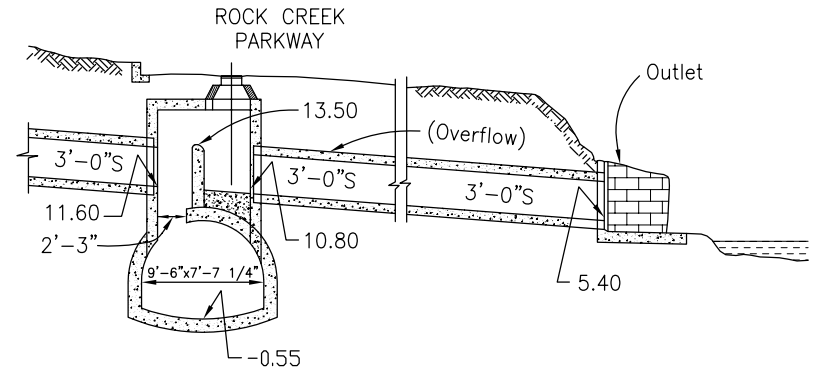
STRUCTURE NO. 72, Olive Street, Extended and Rock Creek Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 3-ft. Combined Sewer enters the structure and a 2-ft. 3-in. vertical diversion connection conveys the Dry-Weather Flow to the West Rock Creek Diversion Sewer.

The 3-ft. Overflow line discharges into Rock Creek.  
There is an Outlet Structure and no Gate at the Outlet.

STRUCTURE NO. 72a. Olive Street and 27th Street, N.W. This structure has a slot type regulator. Dry Weather Flow passes through a 9"x 12" slot which goes into a 18-inch Sanitary Sewer. Overflow continues in the 2'-6"x 3'-9" Sewer to the 36-inch Flap Gate and into Structure No. 72.

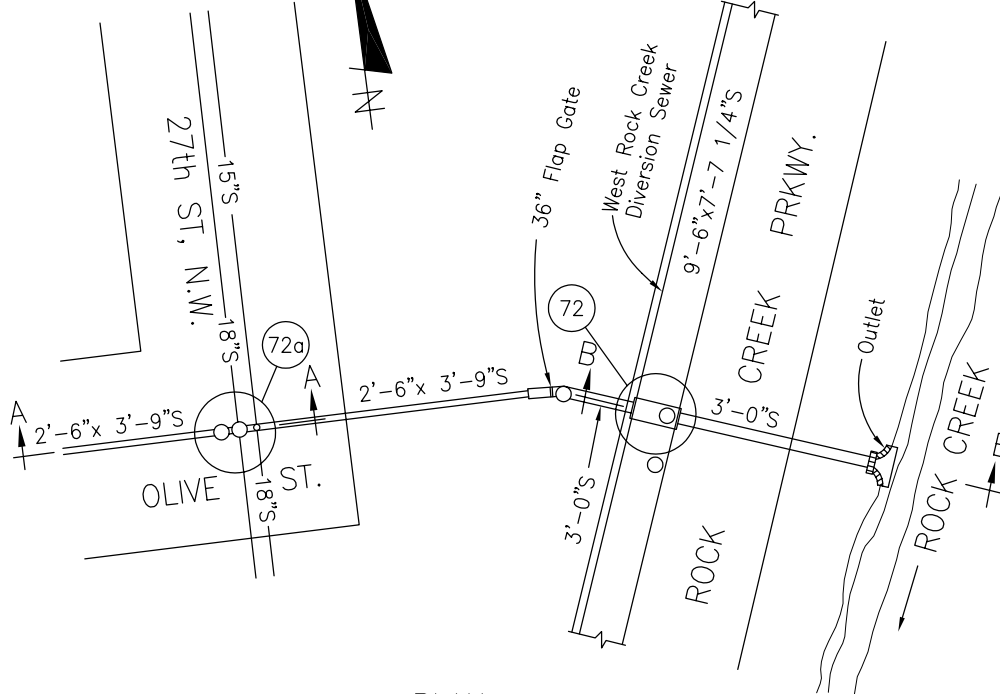


SECTION A-A



SECTION B-B

1" = 10'



PLAN

1" = 40'

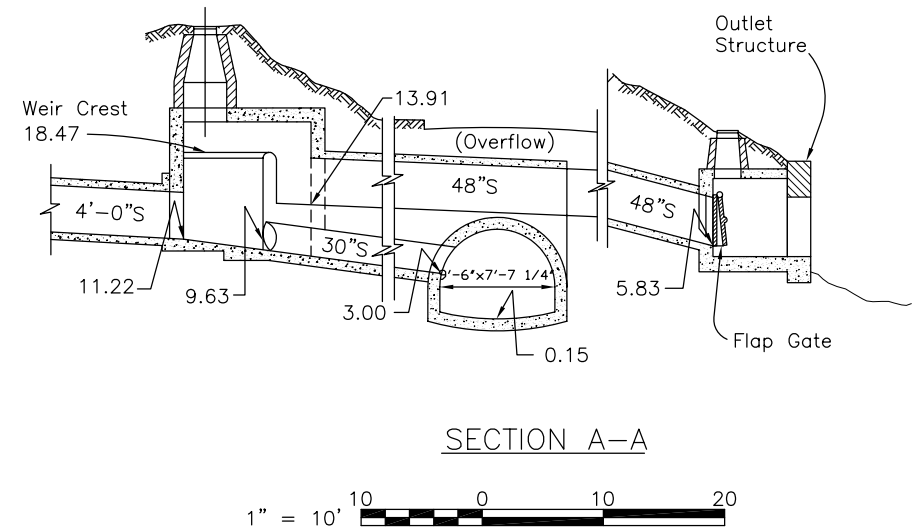
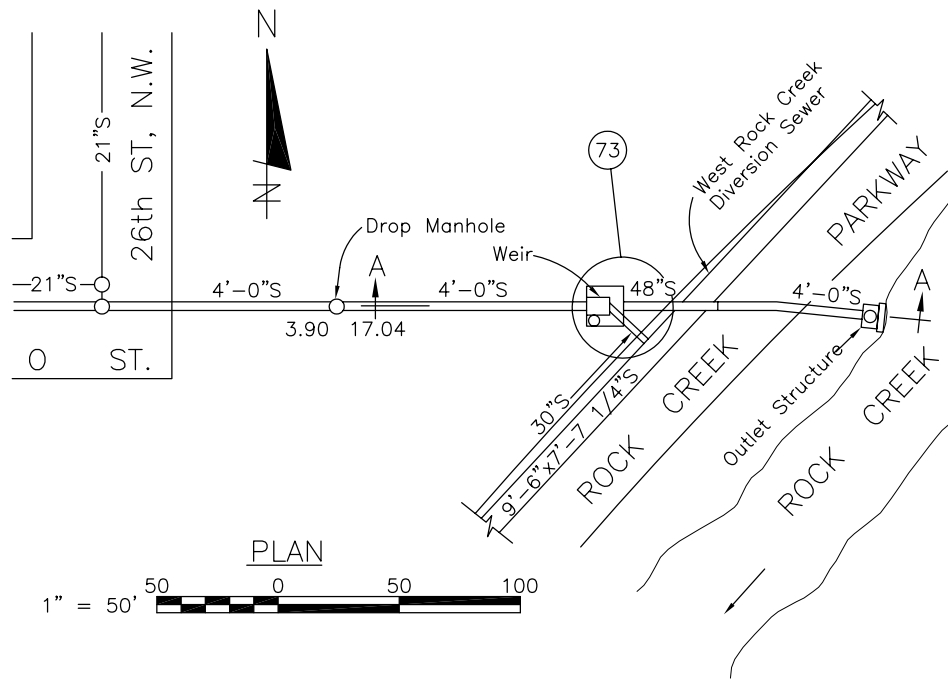
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 051

STRUCTURE NO.  
72 & 72a

STRUCTURE NO. 73, O Street, Extended, and Rock Creek Parkway, N.W.  
This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 4-ft. Combined Sewer enters the structure and a 30-inch diversion connection conveys the Dry-Weather Flow into West Rock Creek Diversion Sewer.

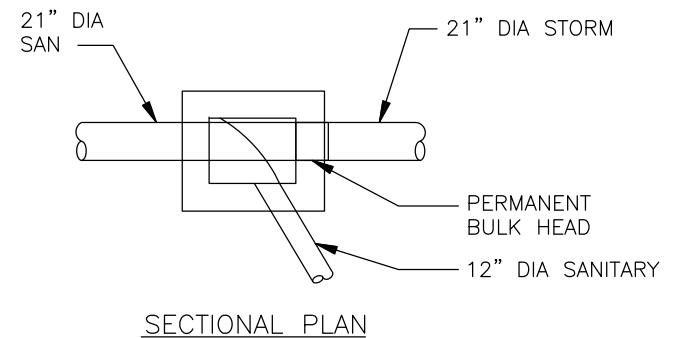
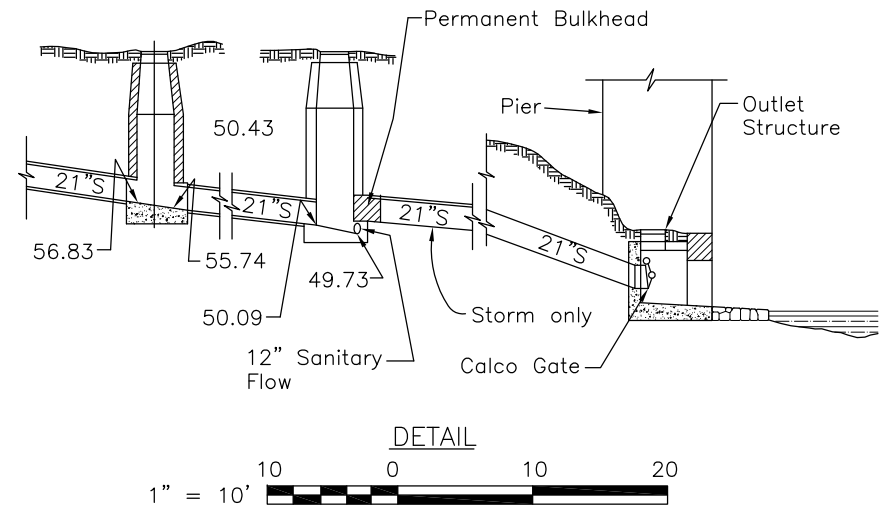
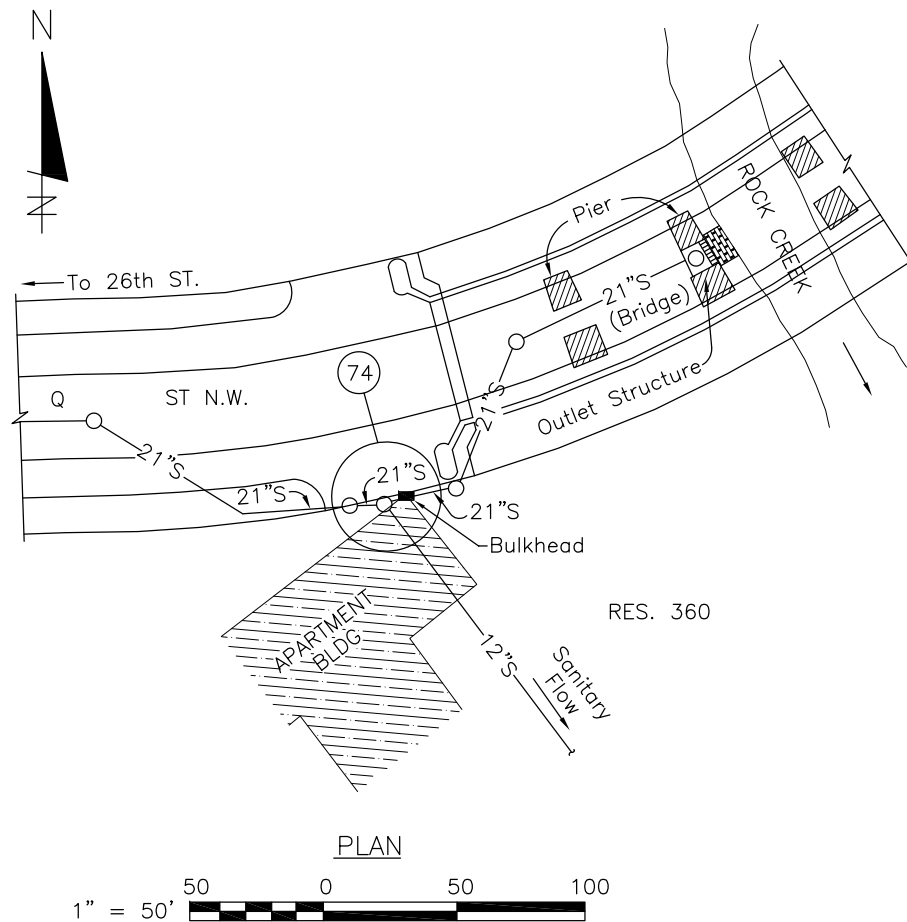
The 48-inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 052

STRUCTURE NO.  
73



STRUCTURE NO. 74, Q Street, West of Rock Creek, N.W.  
This structure had a sump-type regulator. A 21-inch Sanitary Sewer enters the structure and a 12-inch connection conveys the Sanitary Flow into West Rock Creek Diversion Sewer. The overflow has been eliminated by the permanent bulkhead.

The 21-inch Storm Sewer line discharges into Rock Creek.

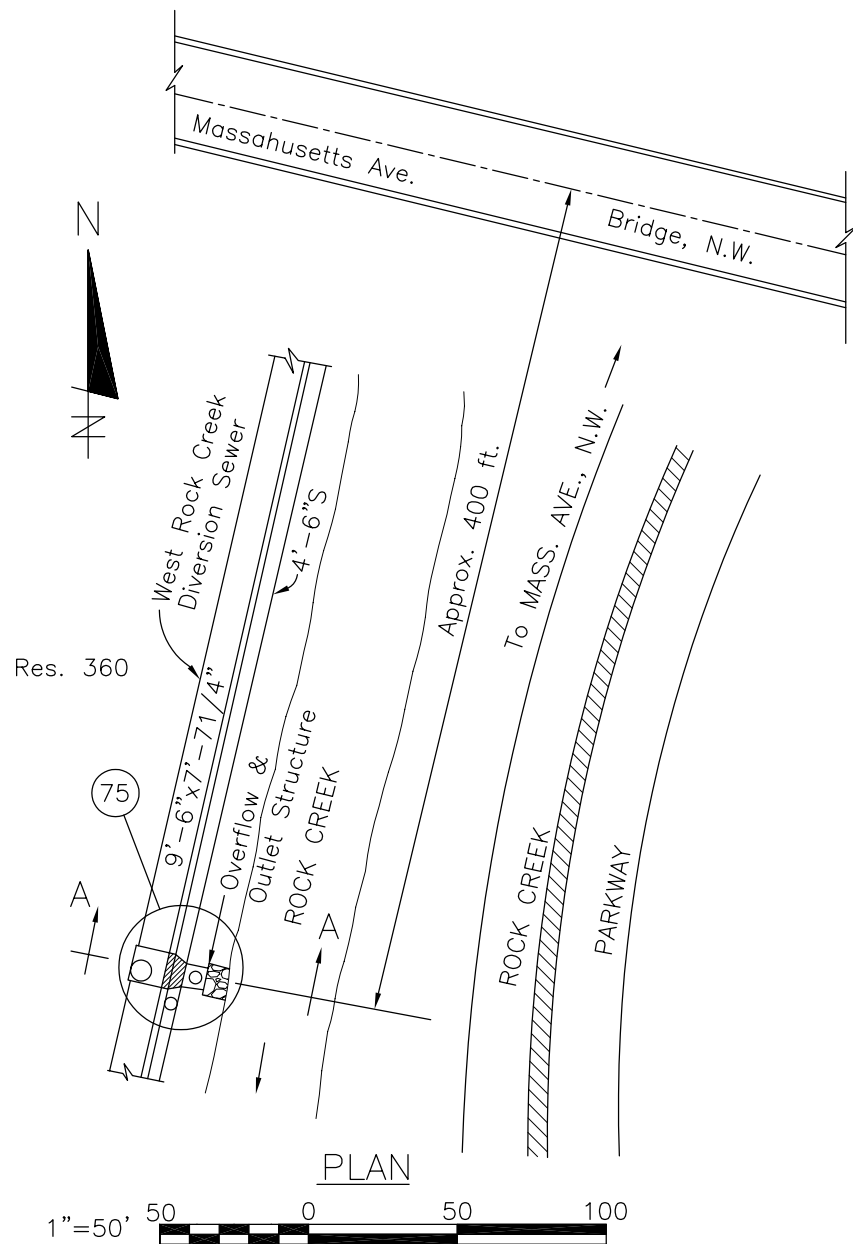
There is an Outlet Structure and Gate at the Outlet.

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2015  
ASSOCIATED NPDES OUTFALL # 053

THIS OVERFLOW HAS BEEN ELIMINATED  
BASED ON UPSTREAM SEPARATION

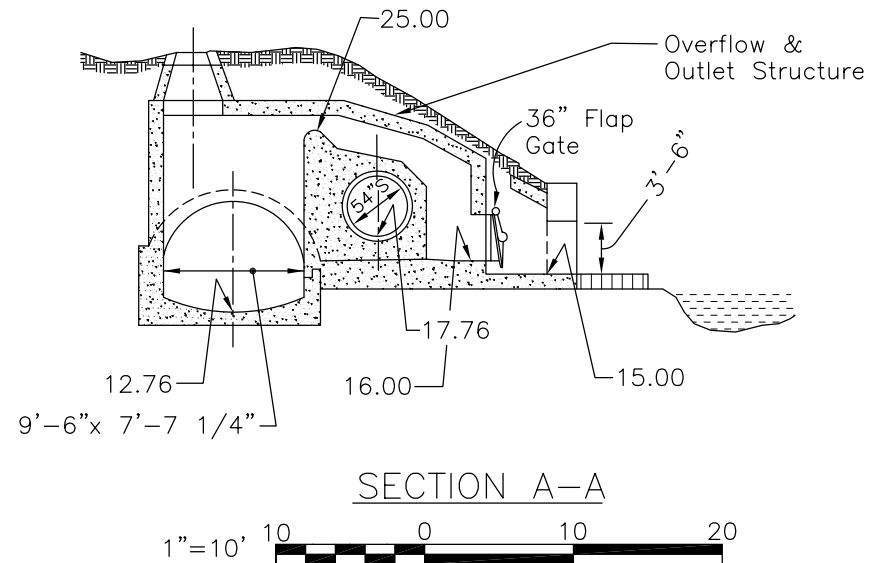
STRUCTURE NO.  
74





STRUCTURE NO. 75, West Rock Creek Diversion Sewer. West Side of Rock Creek About 400 ft. South of Massachusetts Avenue, N.W. This is a side-overflow structure. The Overflow is formed by a masonry dam. The West Rock Creek Diversion Sewer passes through the structure, and the Overflow occurs only when the sewer surcharges.

There is an Outlet Structure and Gate at the Outlet.

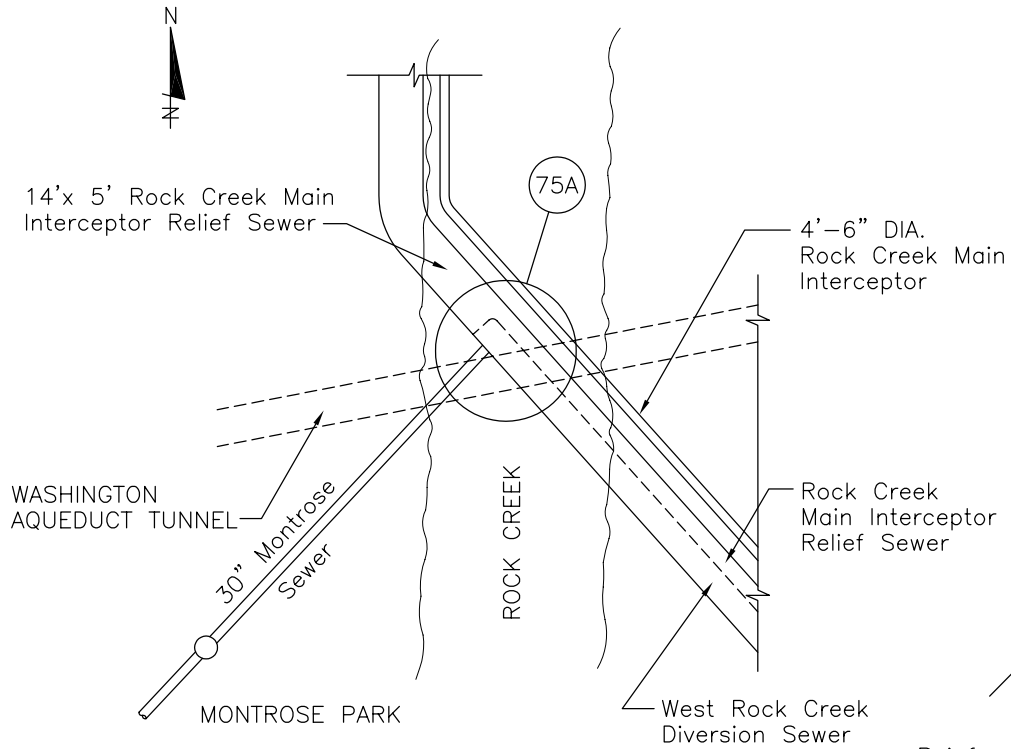


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 054

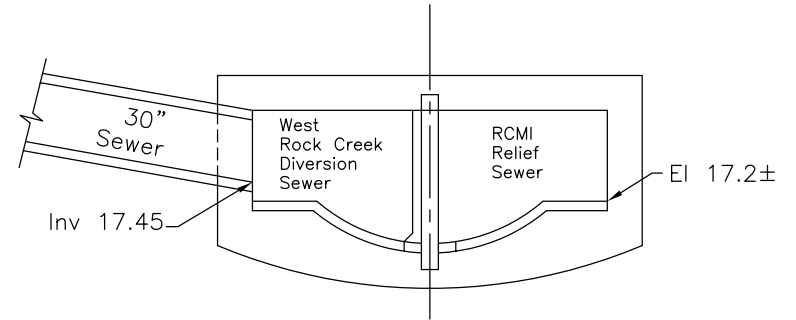
STRUCTURE NO.  
75

# STRUCTURE NO. 75A – MONTROSE PARK SEWER

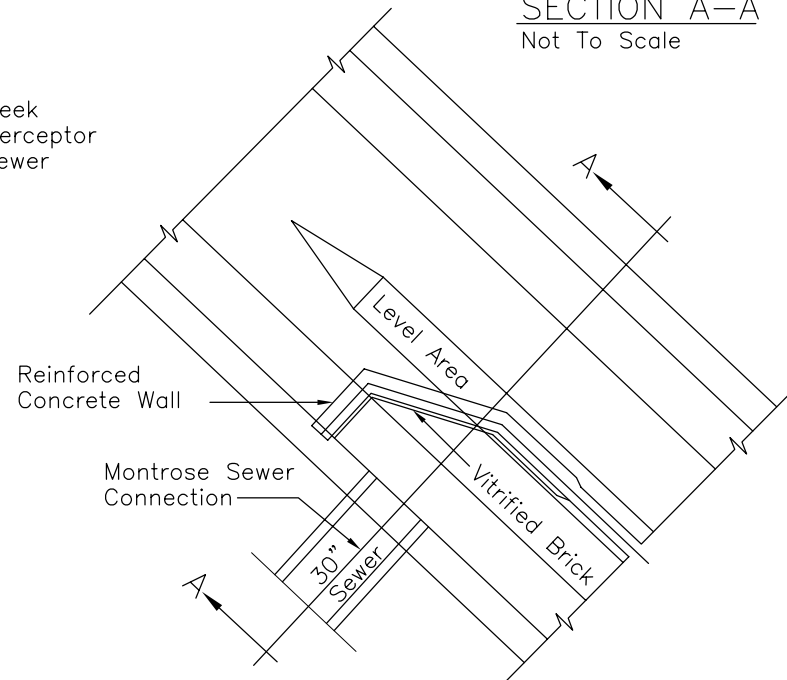
Structure No. 75a is the start of the partition in the 14'x 5' West Rock Creek Diversion Sewer, to create the Combined West Rock Creek Diversion Sewer and the Rock Creek Main Interceptor Relief Sewer.



LOCATION PLAN  
Not To Scale



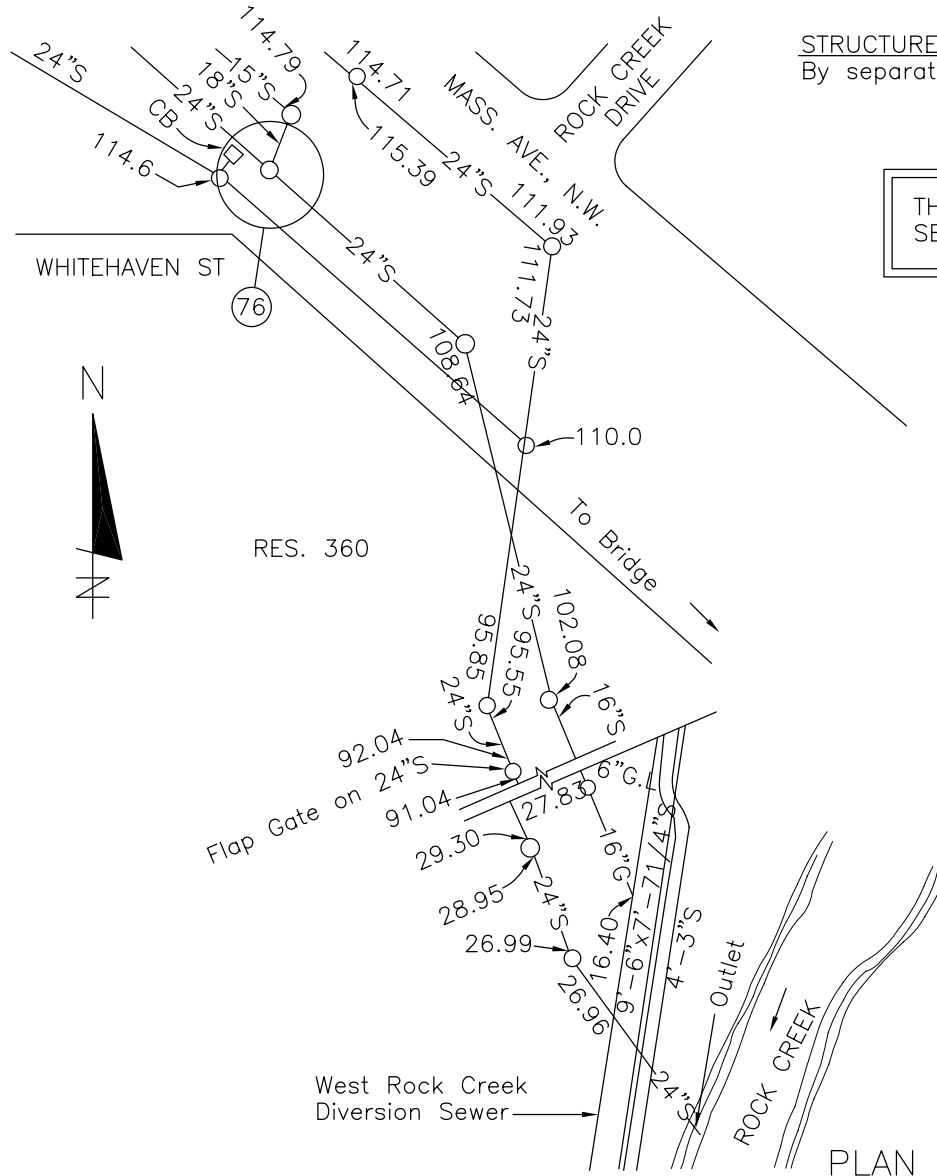
SECTION A-A  
Not To Scale



PLAN  
STRUCTURE NO. 75A  
Not To Scale

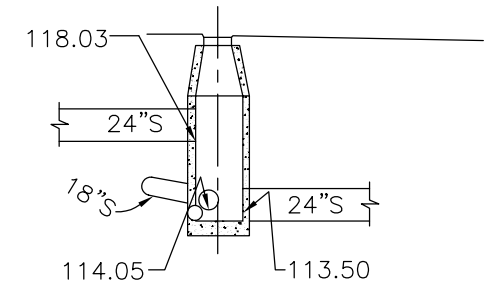
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
75a

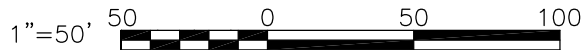


STRUCTURE NO 76. Massachusetts Avenue and Whitehaven Street, N.W.  
By separation of the Sewers Structure No. 76 Overflow has been eliminated.

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION. DEPICTED PLAN IS NO LONGER VALID.



DETAIL



PLAN

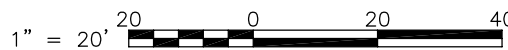
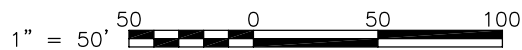
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 055

STRUCTURE NO.  
76

At this time there is now a 7'8" by 4'0" Gate that will serve to relieve surcharge in the West Rock Creek Diversion Sewer. (Inspection in January, 1980, revealed that the Gate has not opened since original installation.)

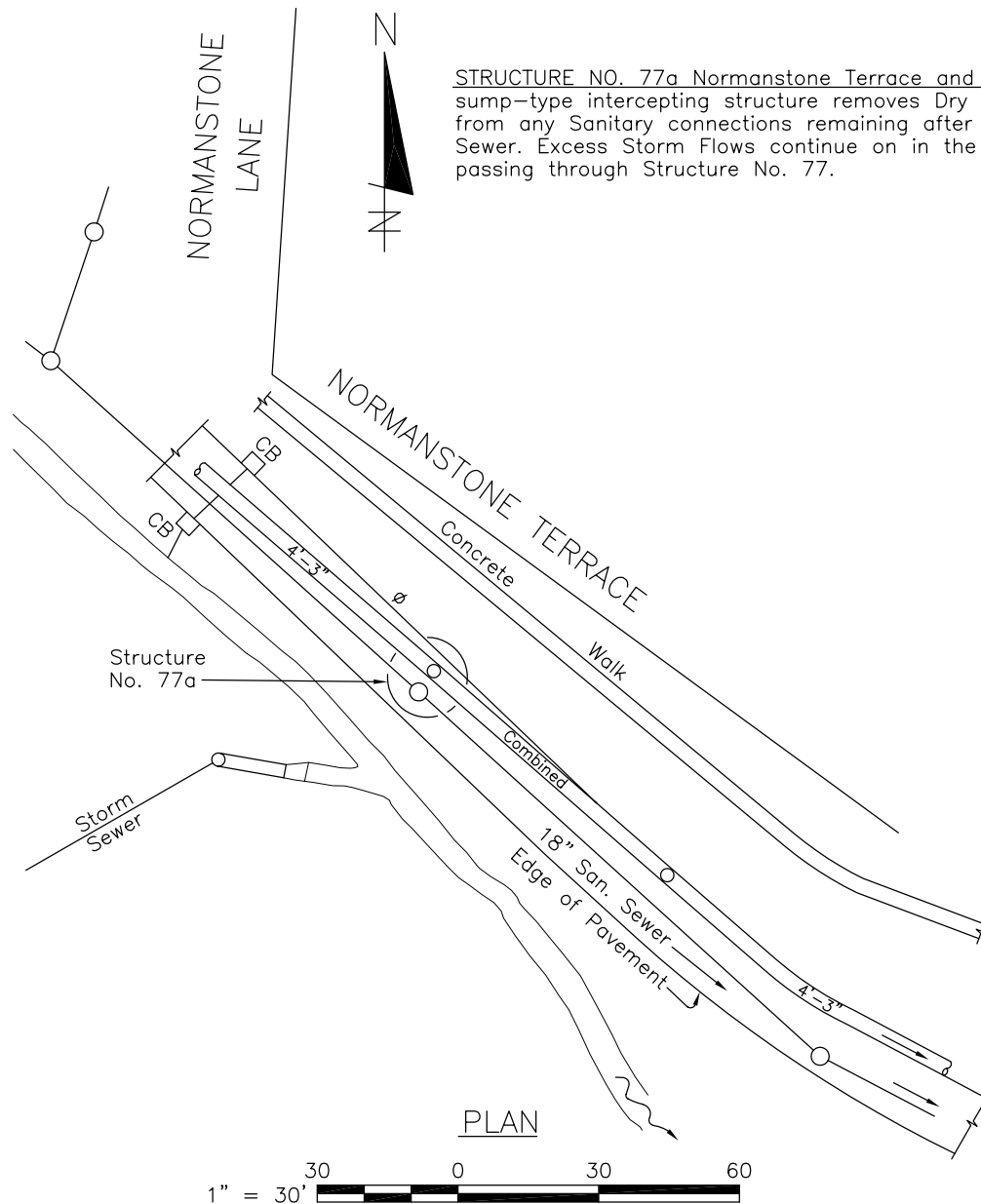


## PLAN

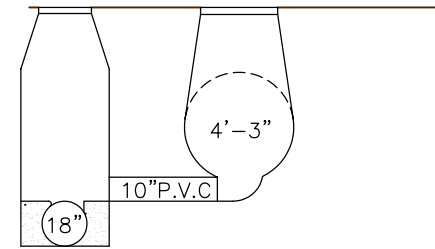


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 056

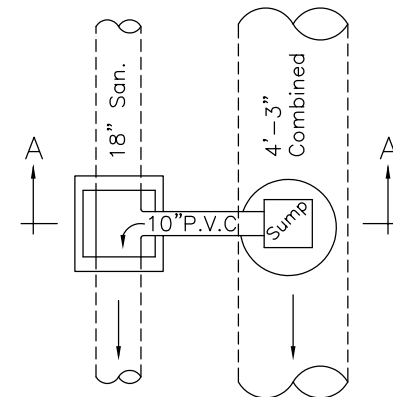
STRUCTURE NO.  
77



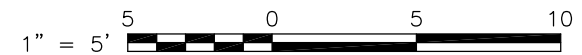
STRUCTURE NO. 77a Normanstone Terrace and Normanstone Lane, N.W. This sump-type intercepting structure removes Dry Weather Flow, including that from any Sanitary connections remaining after separation, to an 18" Sanitary Sewer. Excess Storm Flows continue on in the 4'3" line to Rock Creek, after passing through Structure No. 77.



SECTION A-A



DETAILS



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 056

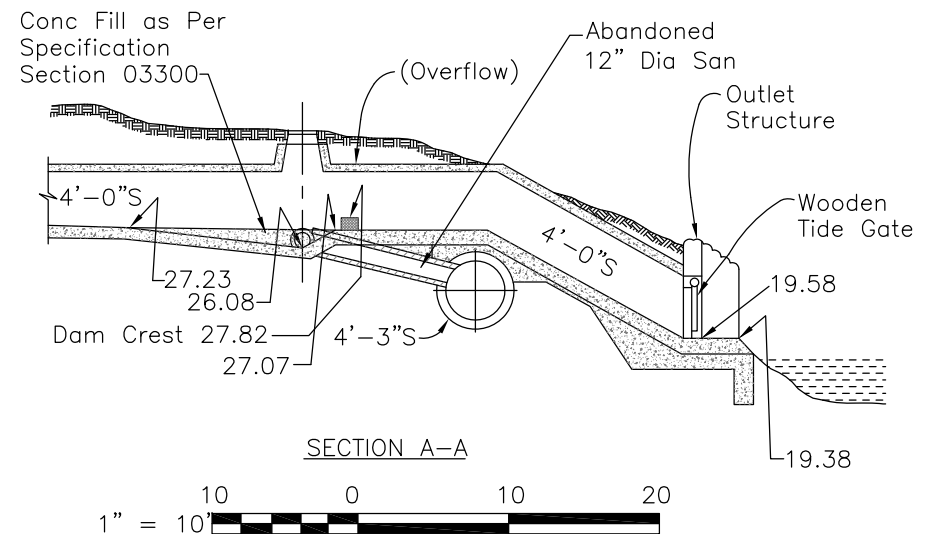
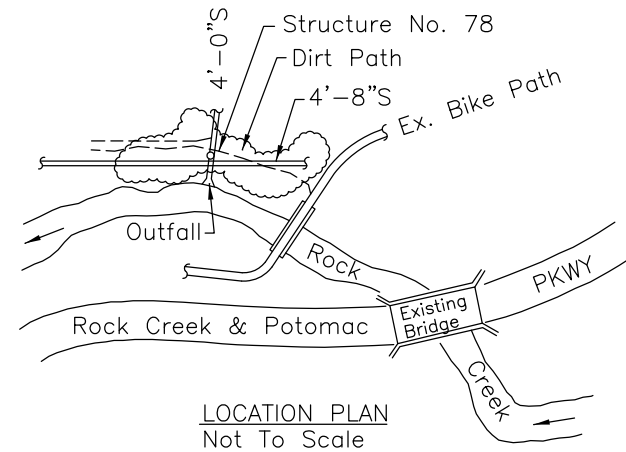
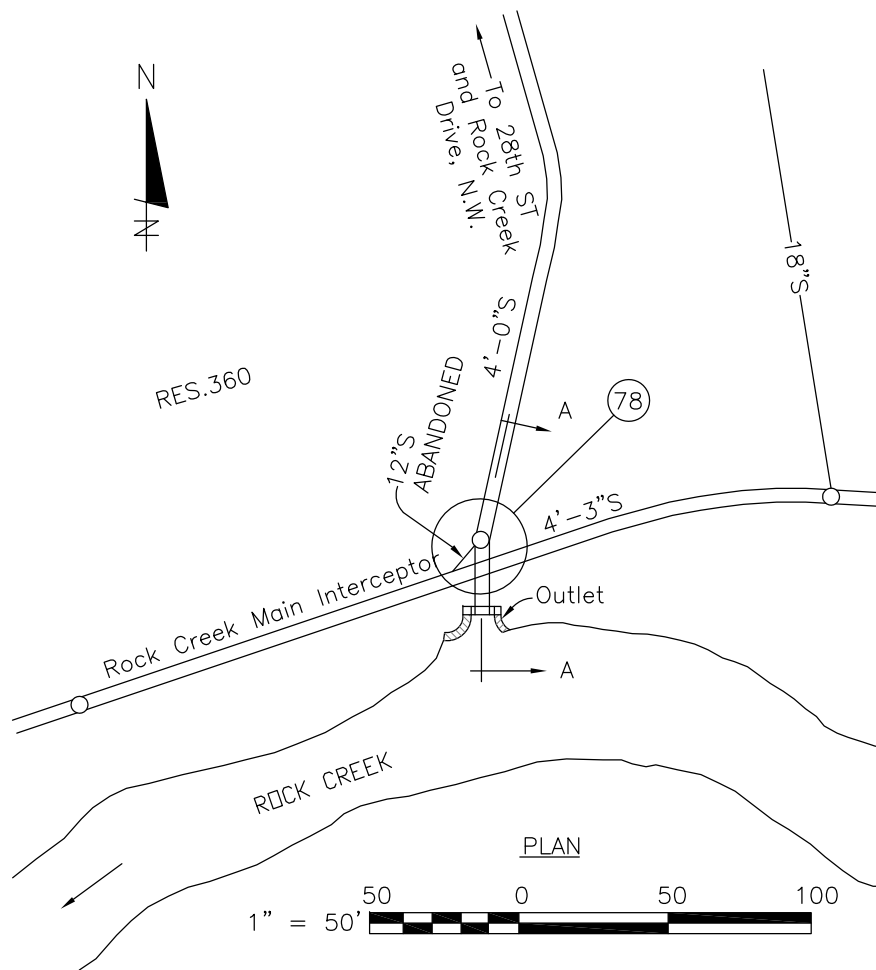
STRUCTURE NO.  
77a

STRUCTURE NO. 78, 28th Street, Extended, and West of Rock Creek, N.W.

This structure has a sump-type regulator.

The 4-ft. Overflow line discharges into Rock Creek.

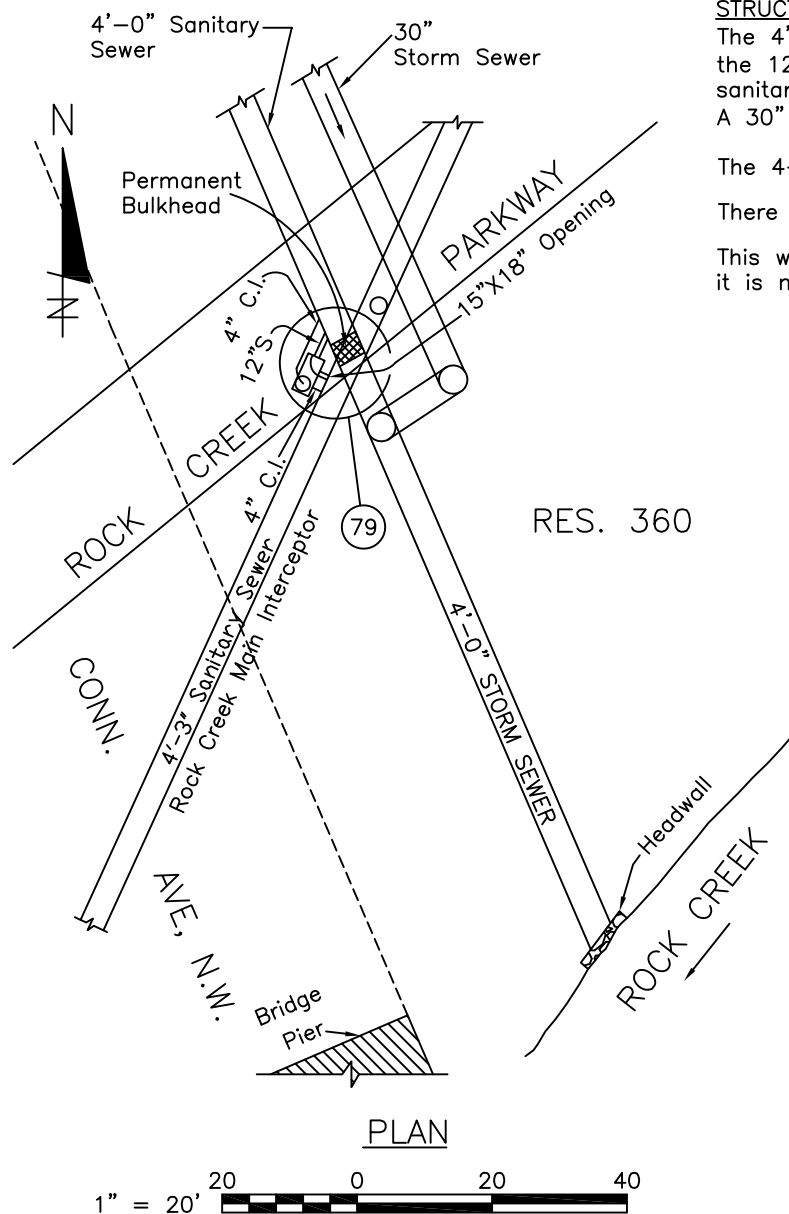
There is an Outlet Structure and Gate at the Outlet.



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REVISED DATE: MARCH 2015  
ASSOCIATED NPDES OUTFALL # 057

THIS OVERFLOW HAS BEEN ELIMINATED  
BASED ON UPSTREAM SEPARATION

STRUCTURE NO.  
78



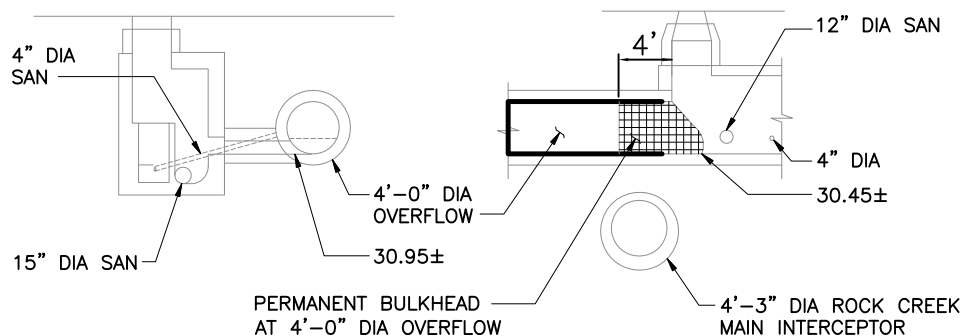
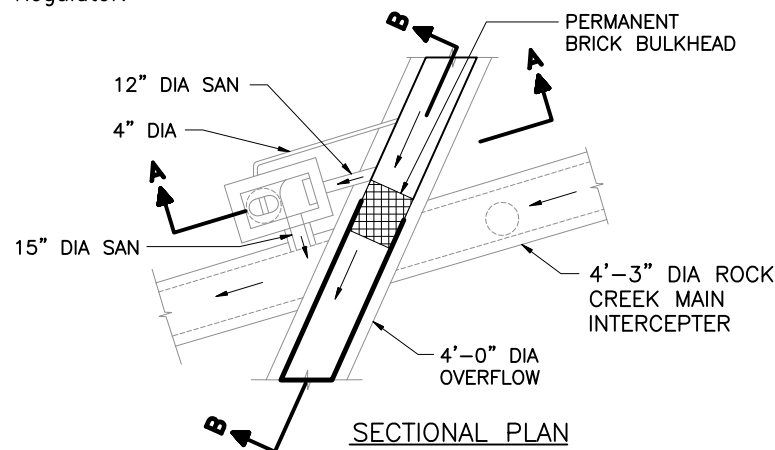
STRUCTURE NO. 79, Connecticut Avenue and Rock Creek Parkway, N.W.

The 4'-0" sanitary sewer passes through diversion structure 79 VIA the 12" and 15" connections. A permanent bulkhead in the 4'-0" sanitary sewer separates sanitary sewage from discharging at CSO 058. A 30" storm connects to the 4'-0" sewer downstream of the bulkhead.

The 4-ft. Storm Sewer line discharges into Rock Creek.

There is a Headwall and no Gate at the Outlet.

This was formerly a float type Regulator. The float device has been removed, it is now a sump type Regulator.



DETAIL

THIS OVERFLOW HAS BEEN ELIMINATED  
BASED ON UPSTREAM SEPARATION

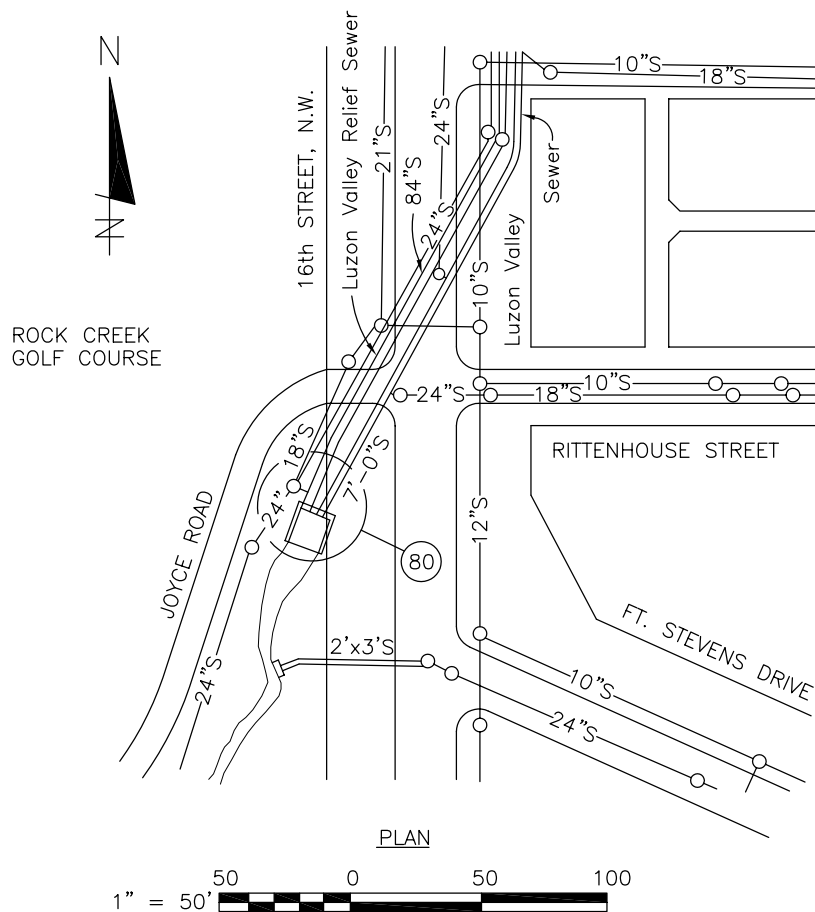
STRUCTURE NO.  
79

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: FEBRUARY 2012  
ASSOCIATED NPDES OUTFALL # 058

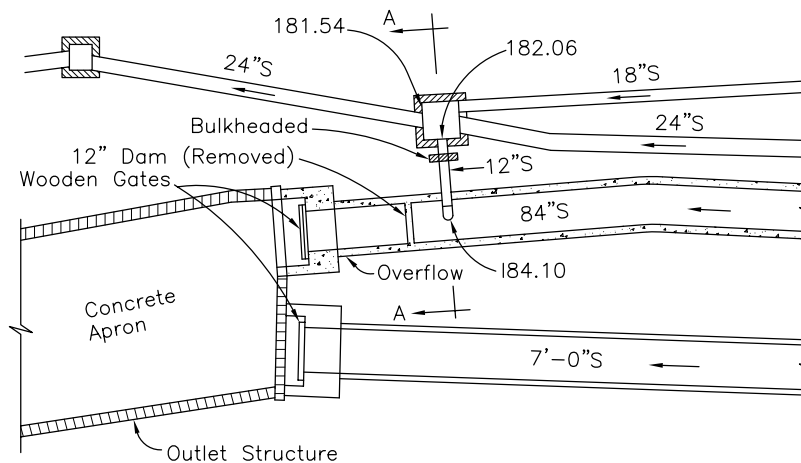
STRUCTURE NO. 80, Lozon Valley Relief Sewer, 16th and Rittenhouse Streets, N.W. This structure has a sump-type Regulator. The Storm Overflow is formed by a masonry dam. The 84-inch Combined Sewer enters the Overflow Chamber and a 12-inch intercepting connection conveys the Dry-Weather Flow into the 24-inch Sanitary Sewer which in turn discharges into Rock Creek Main Interceptor.

The 84-inch Overflow line discharges into Rock Creek.

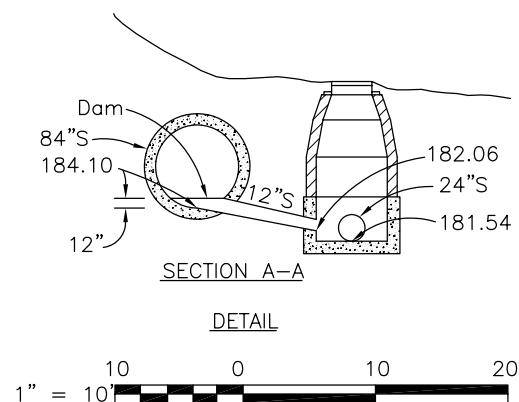
There is an Outlet Structure and Gate at the Outlet.



THIS OVERFLOW HAS BEEN ELIMINATED  
BASED ON UPSTREAM SEPARATION.



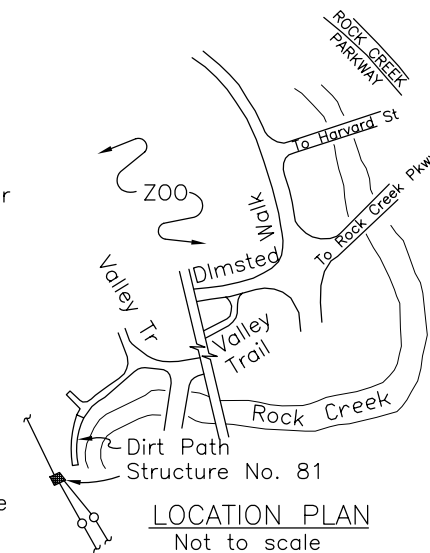
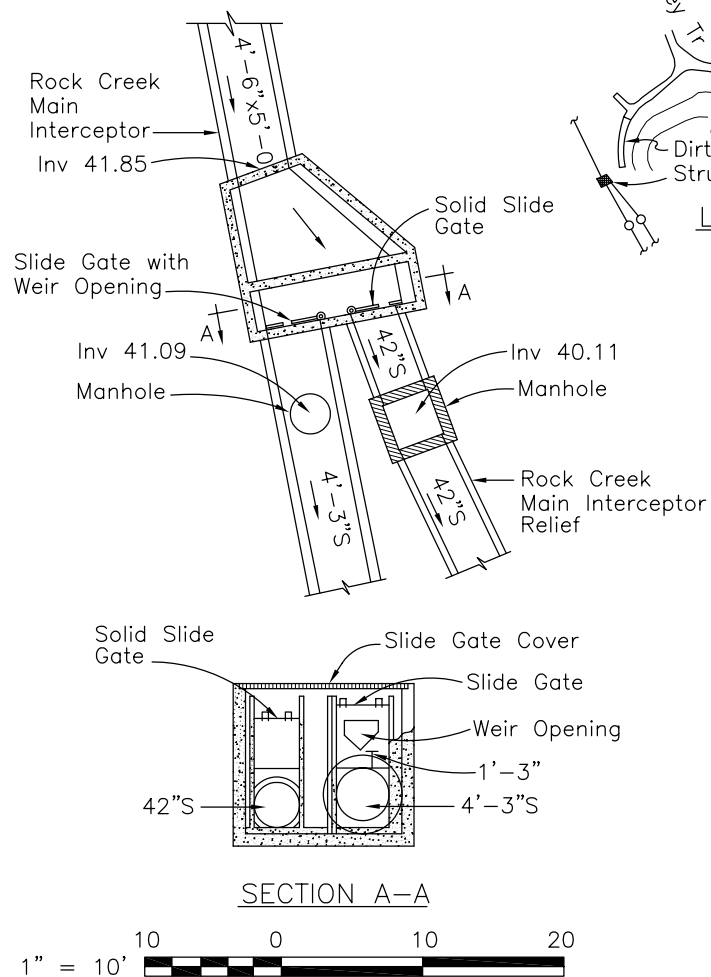
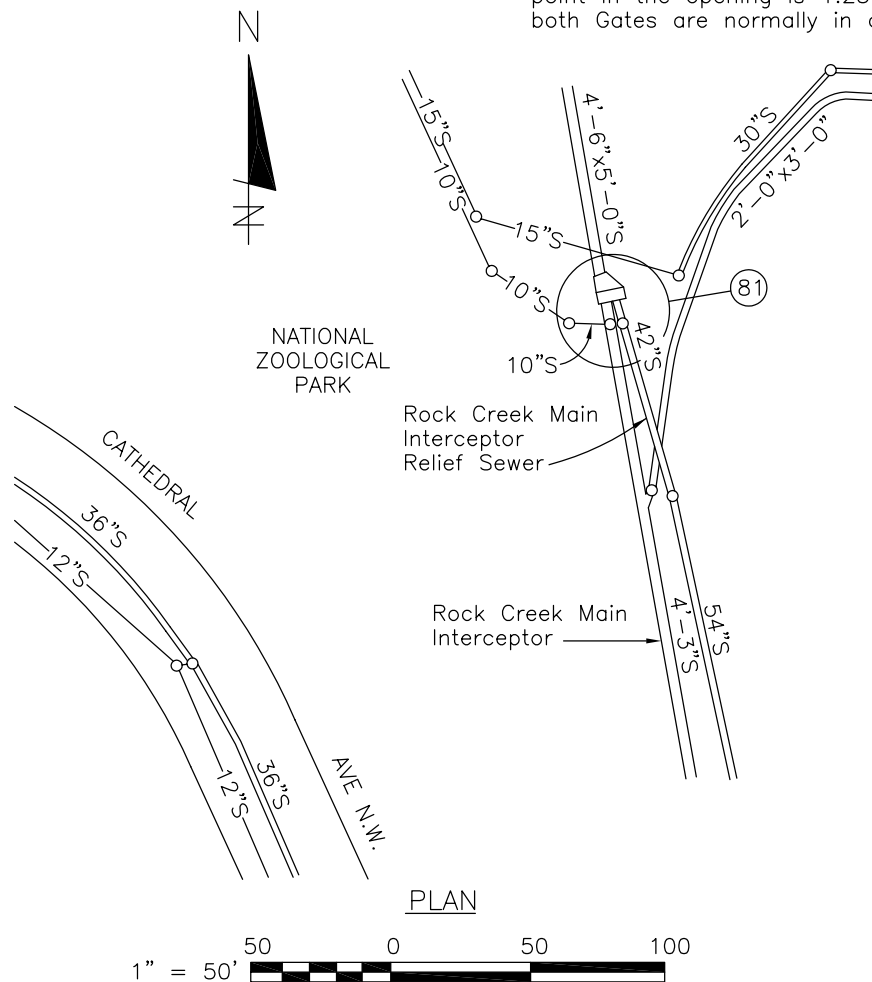
SCALE : 1"=20'



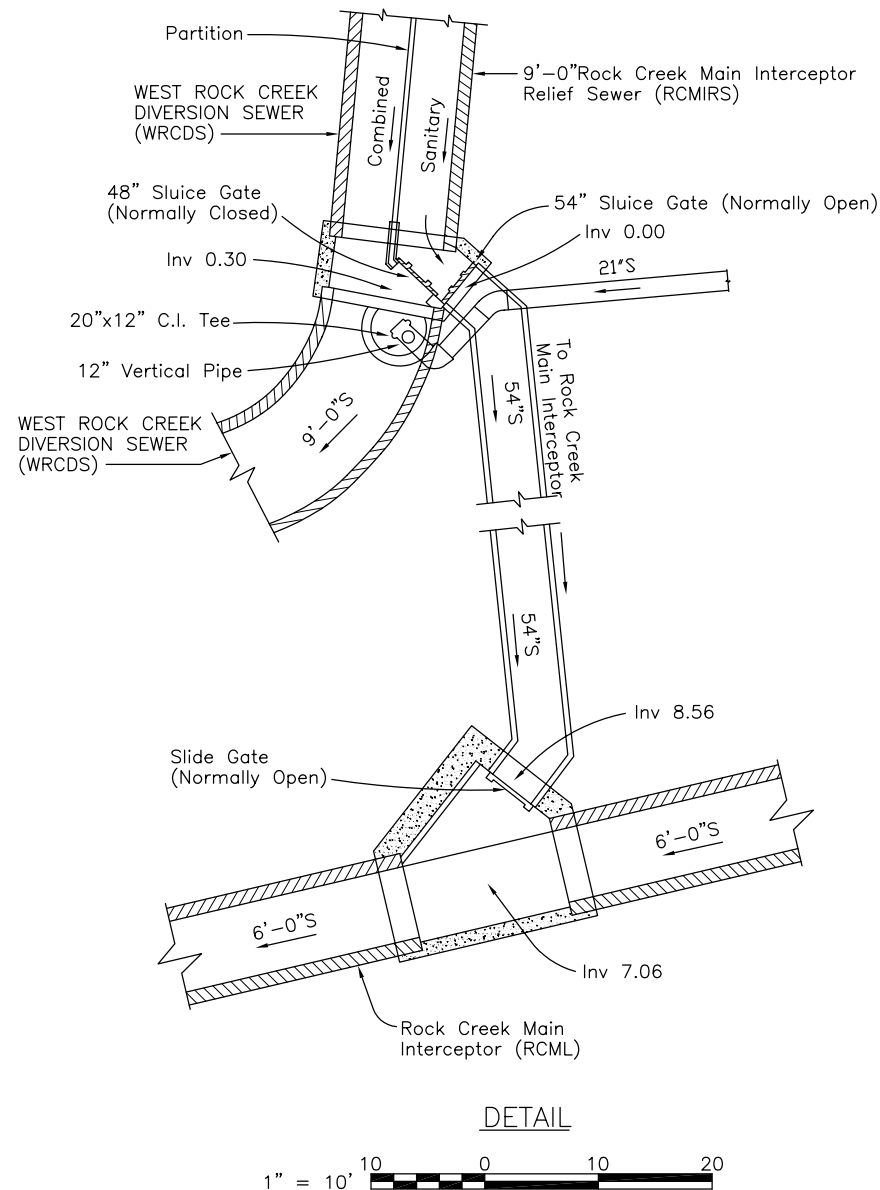
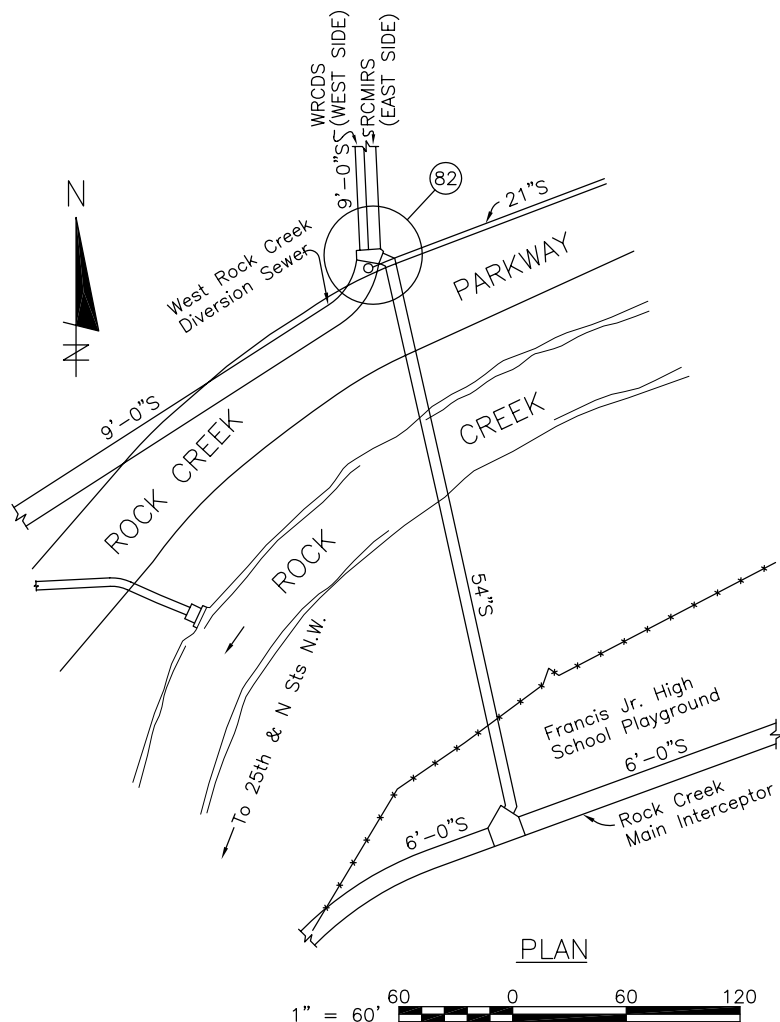
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
80





STRUCTURE NO. 82, West Rock Creek Diversion Sewer, 25th and P Streets, N.W., both extended. This structure controls the Rock Creek Main Interceptor Relief Flow. Normal operation directs all of the sanitary portion of the RCMIRS (east half of the partitioned sewer) through the 54-inch diameter connection to the 6-ft. Rock Creek Main Interceptor. In an emergency the 48-inch Sluice Gate can be opened and the two 54-inch Sluice Gates closed to divert all flow in the RCMIRS into the WRCDs.

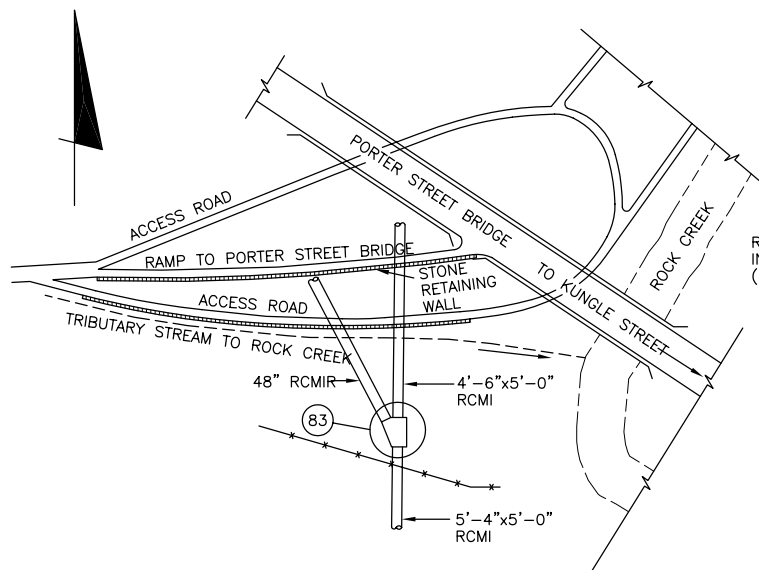


REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # N/A

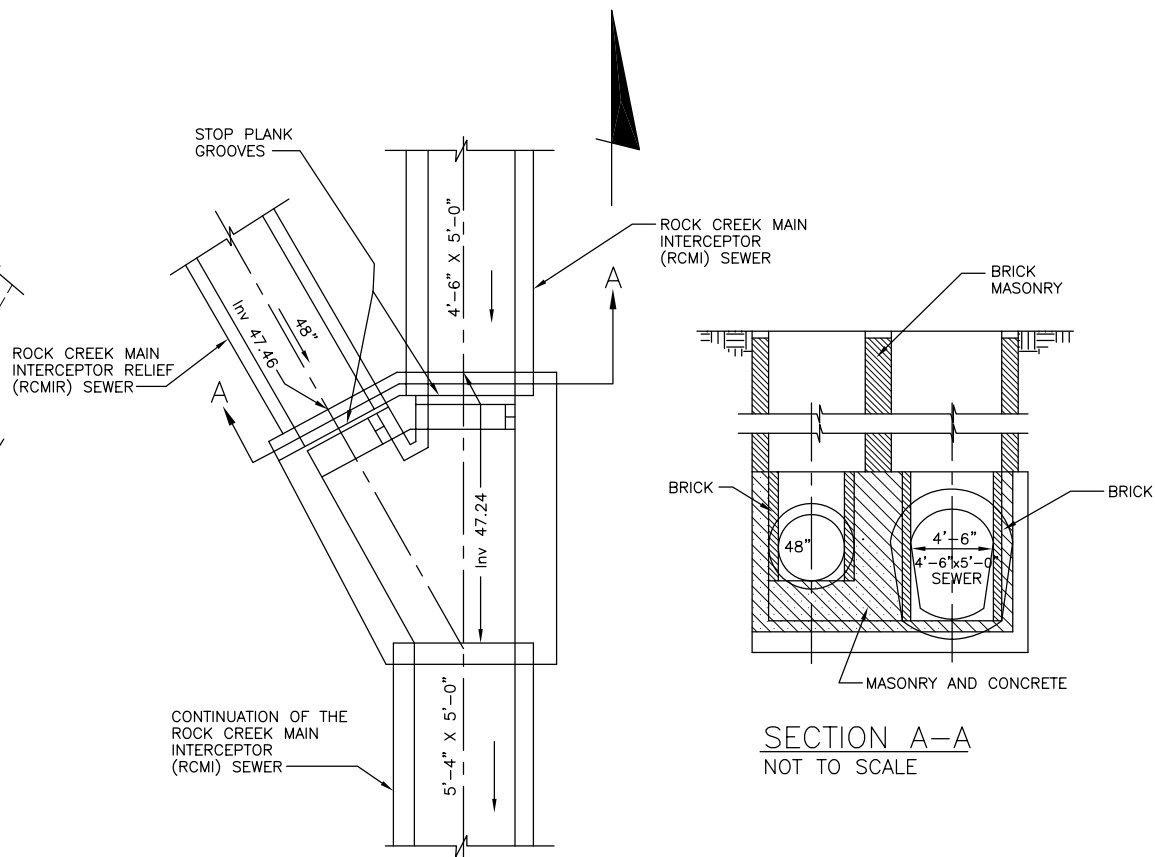
STRUCTURE NO.  
 82

# STRUCTURES NUMBERS 83 — ROCK CREEK MAIN INTERCEPTOR SPLIT

This is a Junction Chamber the 48-inch Rock Creek Main Interceptor Relief (RCMIR) and the 4'-6" x 5'-0" Rock Creek Main Interceptor (RCMI) with the 5'-4" x 5'-0" continuation of the RCMI. (See Structure No. 83A & 83B for location on upstream initiation of Relief Sewer).



LOCATION PLAN  
NOT TO SCALE



PLAN — STRUCTURE 83  
NOT TO SCALE

SECTION A-A  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
83

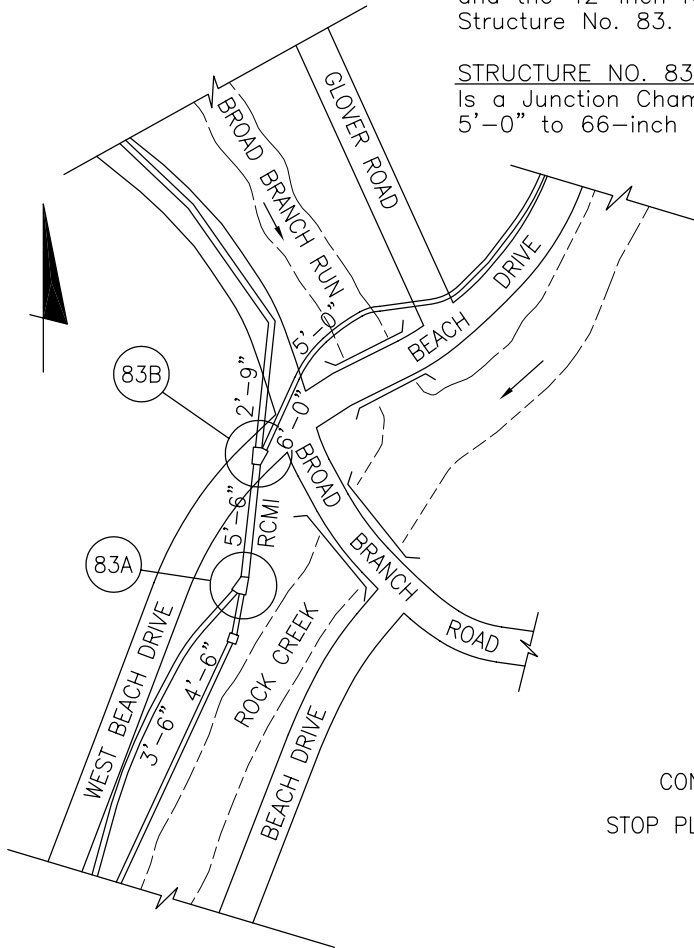
# STRUCTURES NO. 83A AND 83B – ROCK CREEK MAIN INTERCEPTOR SPLIT

## STRUCTURE NO. 83A

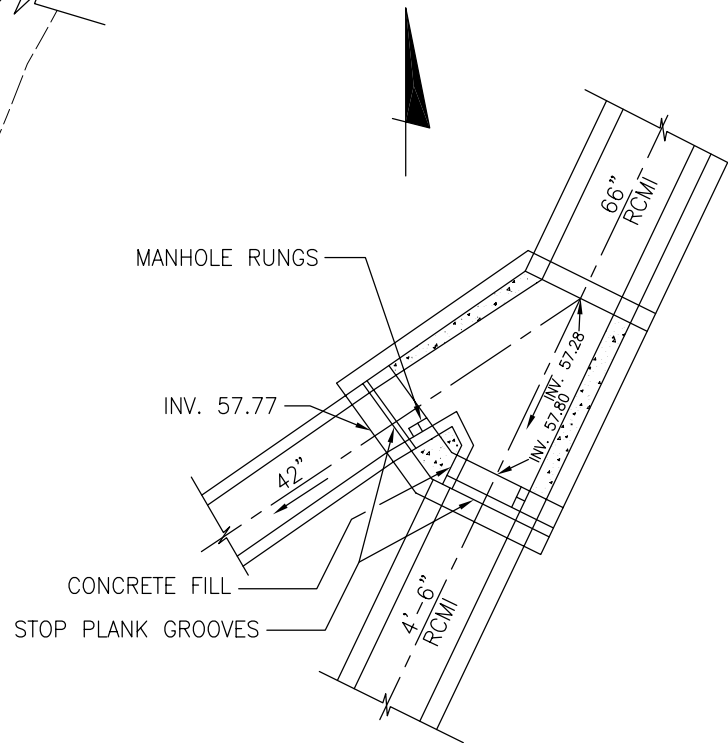
Is a Junction Chamber at the transition of the RCM from 66-inch diameter to 4'-6" and the 42-inch Relief Sewer which becomes a 48-inch Sewer and terminates at Structure No. 83.

## STRUCTURE NO. 83B

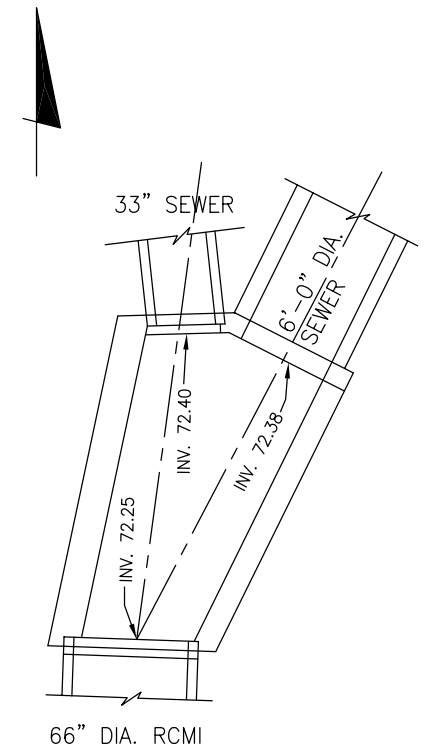
Is a Junction Chamber between a 33-inch Sewer and the transition of the RCM from 5'-0" to 66-inch diameter.



LOCATION PLAN  
NOT TO SCALE



STRUCTURE 83A  
NOT TO SCALE



STRUCTURE 83B  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
83a & 83b

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-84-84A 1:1 04/22/04 11:55 GH-G

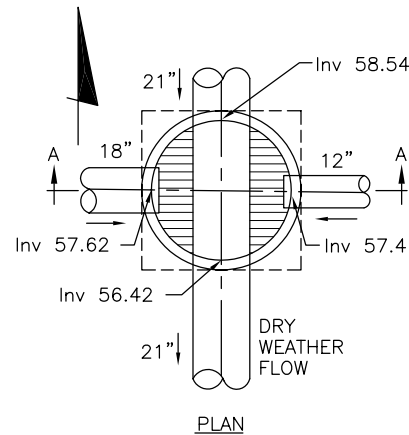
## STRUCTURE NO. 84 & 84A

### STRUCTURE NO. 84 - 26th AND P STREETS. N.W.

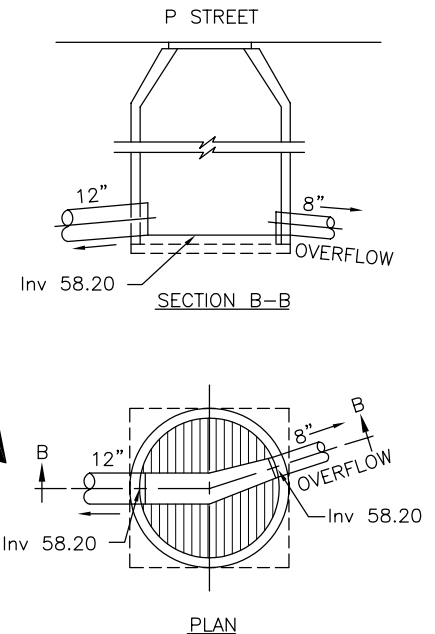
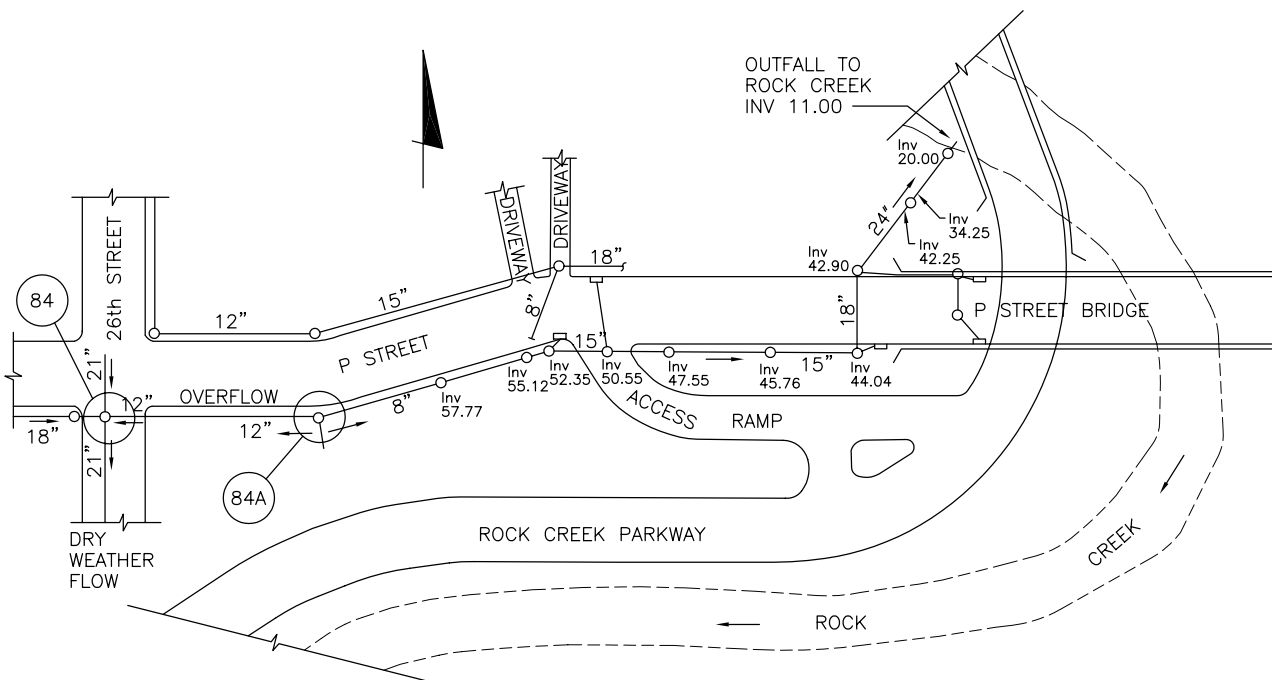
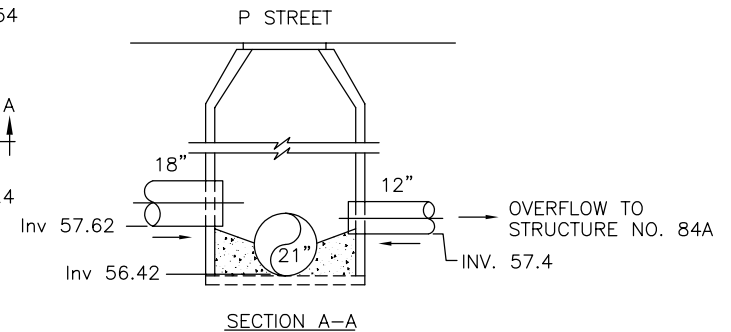
This structure consist of the 21-inch 26th Street Sewer which intercepts the P Street Sewer at the intersection of 26th and P Street. During low flow conditions, the 21-inch 26th Street Sewer intercepts the 18-inch and 12-inch P Street Sewer at this structure. Dry Weather Flow continues down 26th Street to the 4'-0" diameter O Street Sewer at the intersection of O Street and 26th Streets. The O Street Sewer carries flow from the O Street Drainage Area and the P Street Drainage Area to Structure No. 73 where flow is then diverted into the 5'-6"x 7'-7 1/4" West Rock Creek Diversion Sewer.

### STRUCTURE NO. 84A - P STREET. N.W.

This structure consist of the 12-inch P Street Sewer and the 8-inch P Street Sewer. During high flow conditions, flow may overflow from the 12-inch P Street Sewer into the 8-inch P Street Sewer. The flow will continue east on P Street and discharge into Rock Creek.



STRUCTURE NO. 84  
NOT TO SCALE



STRUCTURE NO. 84A  
NOT TO SCALE

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REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # 060

STRUCTURE NO.  
84, 84a

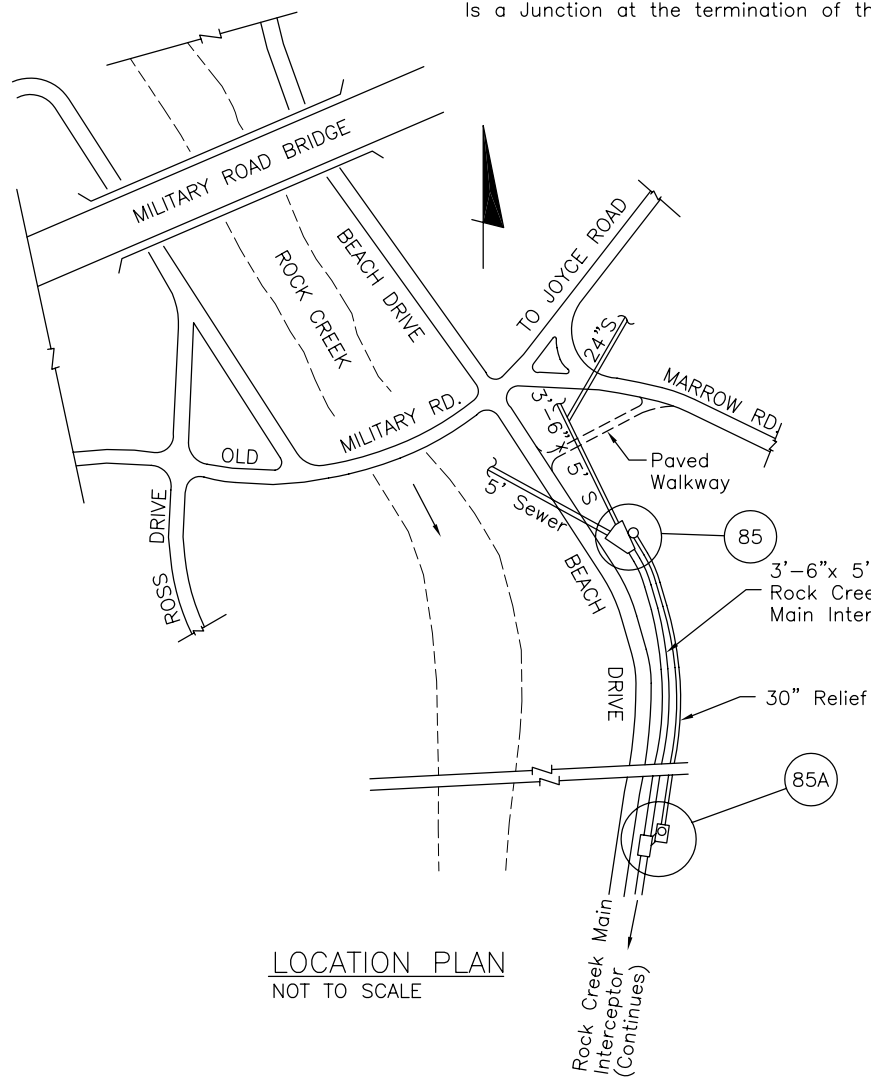
STRUCTURES NOS. 85 & 85A - ROCK CREEK MAIN INTERCEPTOR SPLIT

STRUCTURE NO. 85

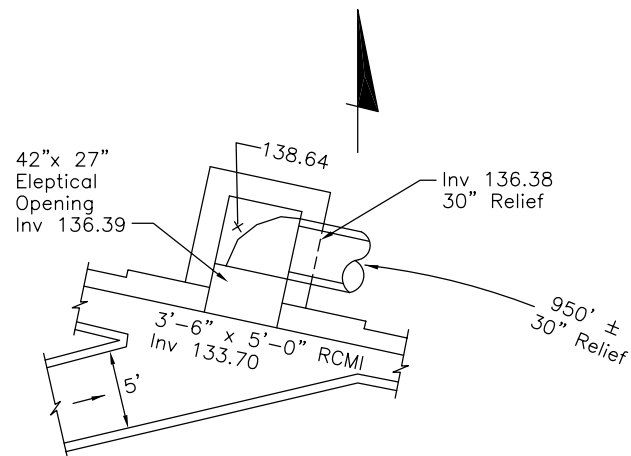
Is a 30-inch Overflow Relief Sewer connection to the 3'-6"x 5'-0" RCMI.

STRUCTURE NO. 85A

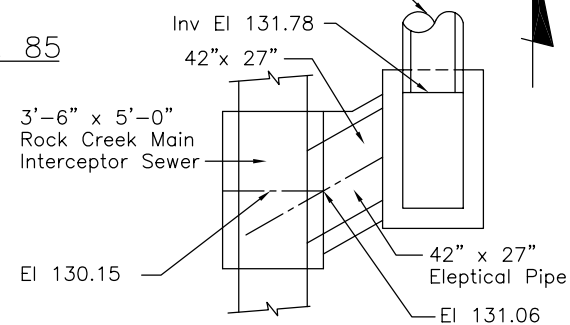
Is a Junction at the termination of the 30-inch Relief Sewer back into the 3'-6"x 5'-0" RCMI.



LOCATION PLAN  
NOT TO SCALE



STRUCTURE NO. 85  
NOT TO SCALE



STRUCTURE NO. 85A  
NOT TO SCALE

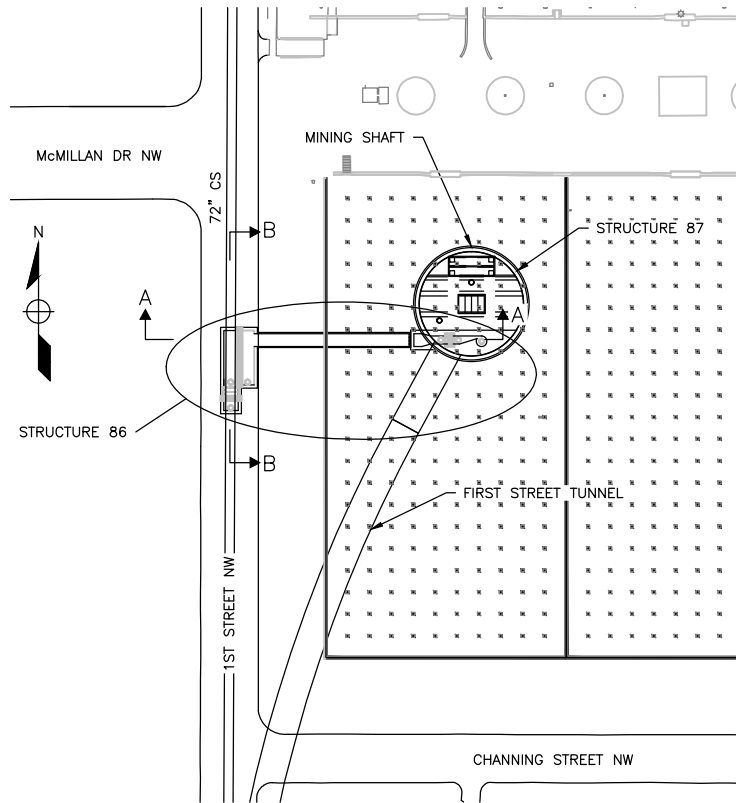
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
85 & 85a

### Structure No.86, First Street NW

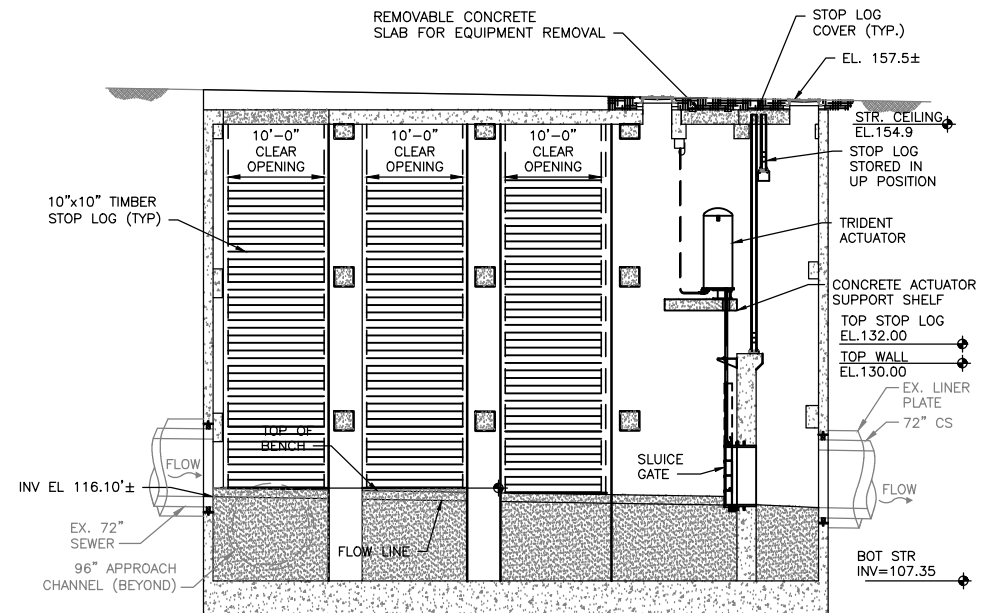
Until First Street Tunnel is operational, the flow in 72-inch combined sewer continues to pass through structure No. 86. Once tunnel is operational, flow in 72-inch combined sewer gets diverted into the tunnel up to the diversion capacity of Structure No.86.

The information presented in this drawing is preliminary. This drawing will be updated once the asbuilts are received.



LOCATION PLAN

NOT TO SCALE

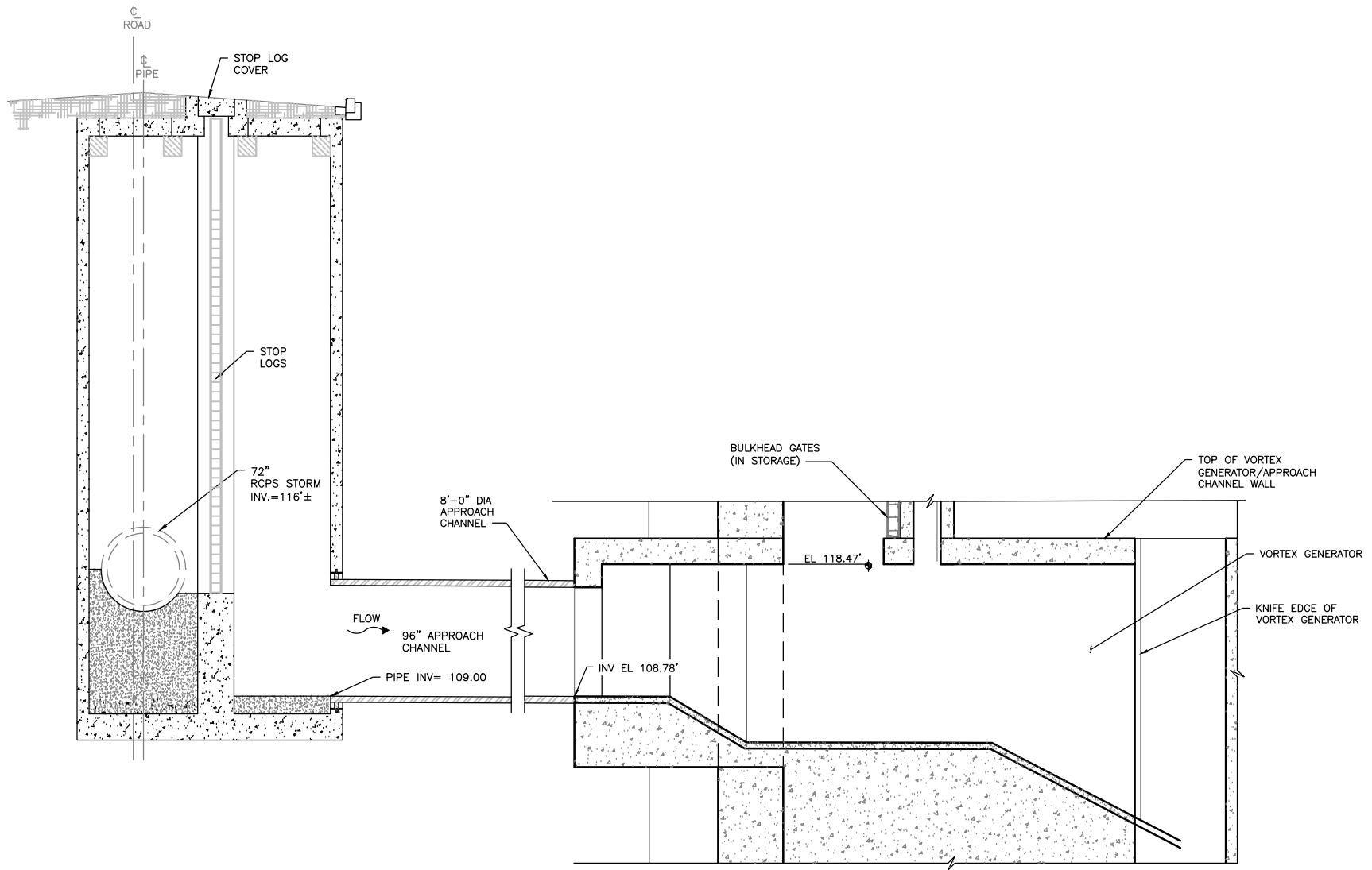


SECTION B-B

NOT TO SCALE

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
86 (1 OF 2)

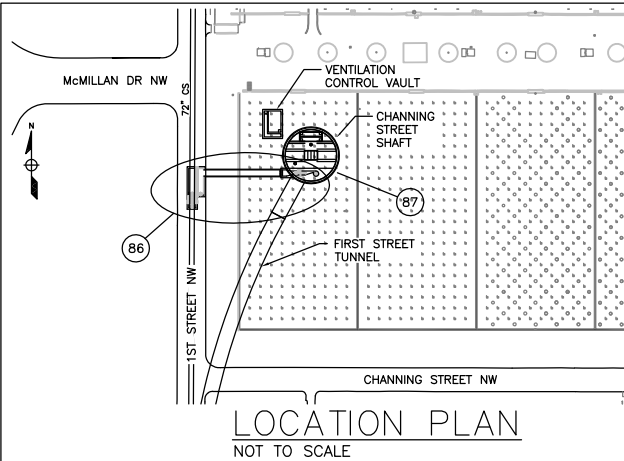


SECTION A-A  
NOT TO SCALE

REVISED BY: PROGRAM CONSULTANTS ORGANISATION  
REVISED DATE: MARCH 2016  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
86 (2 OF 2)

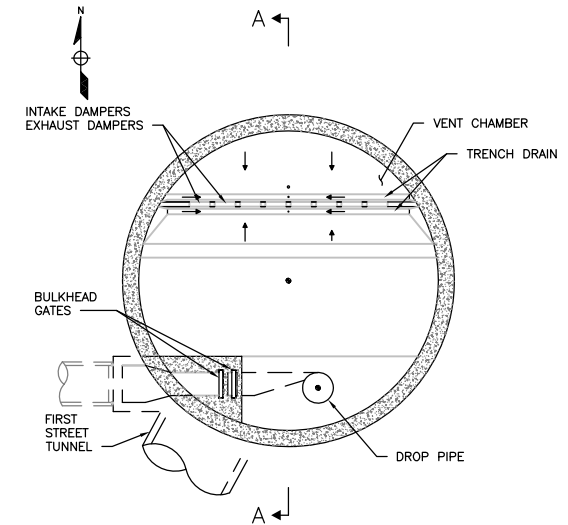




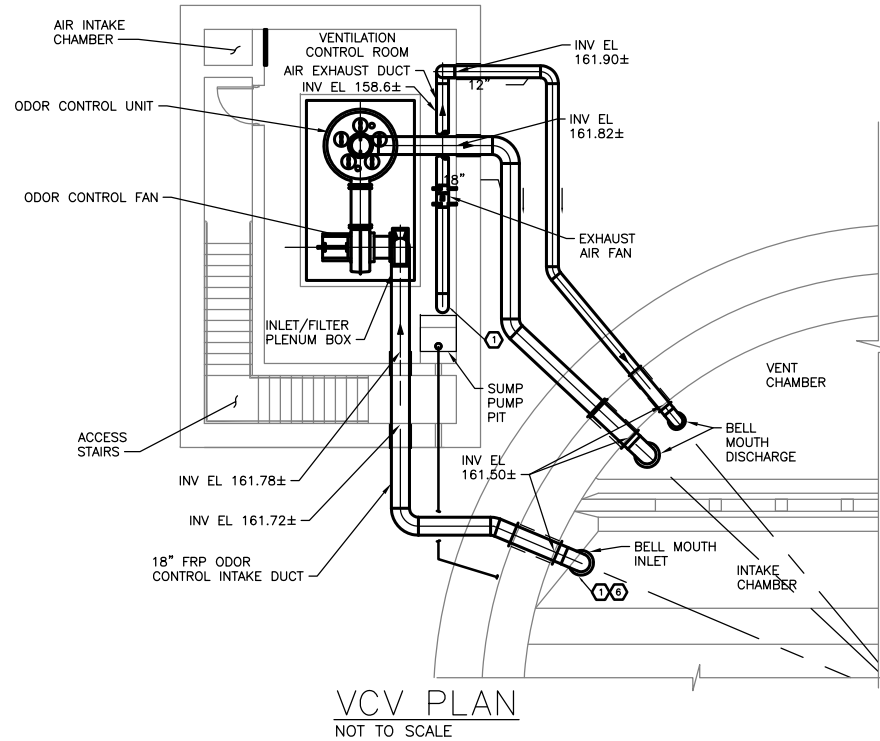
### Structure No.87, First Street NW

Structure No. 87 is a drop shaft that also provides venting for the First Street Tunnel.

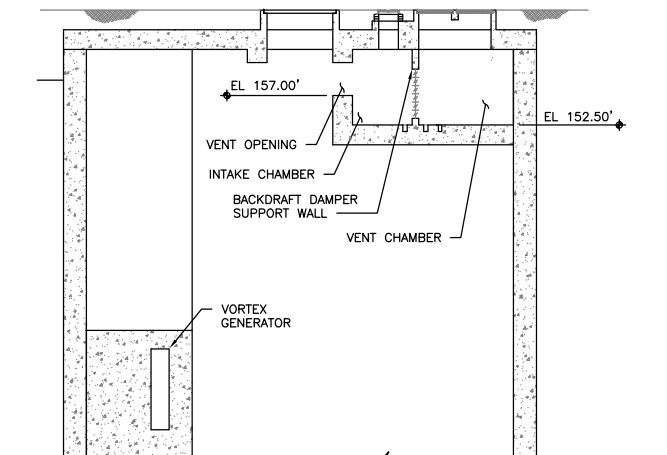
The information presented in this drawing is preliminary. This drawing will be updated once the asbuilts are received.



PLAN  
NOT TO SCALE



VCV PLAN  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

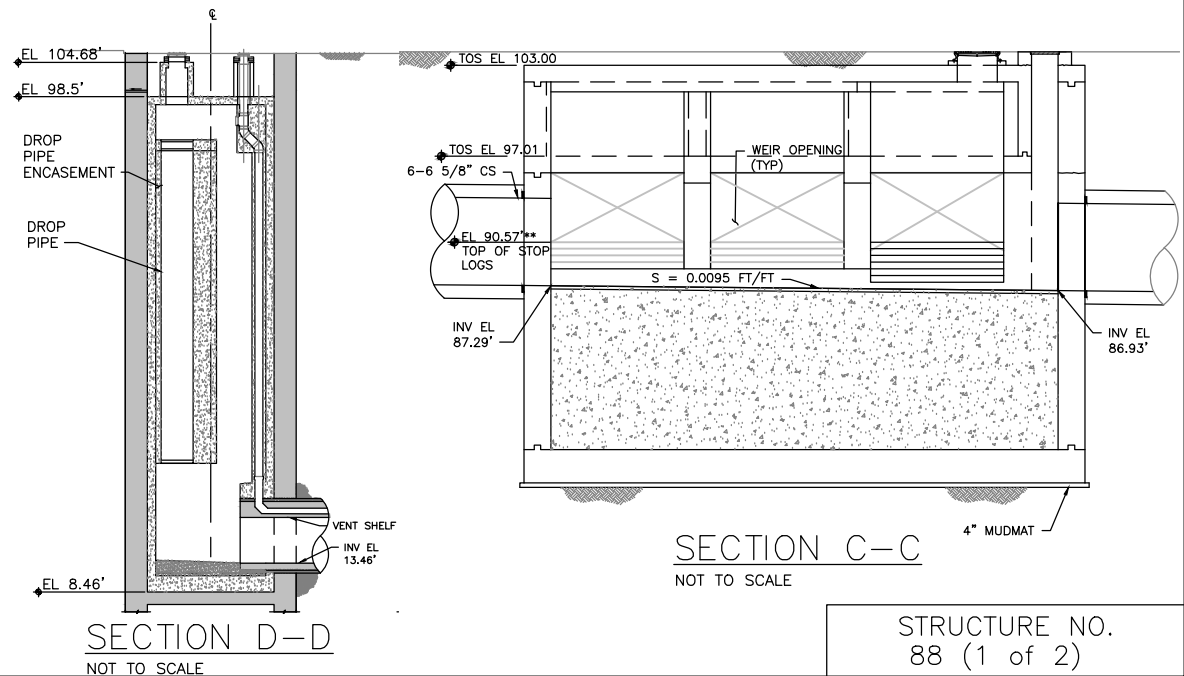
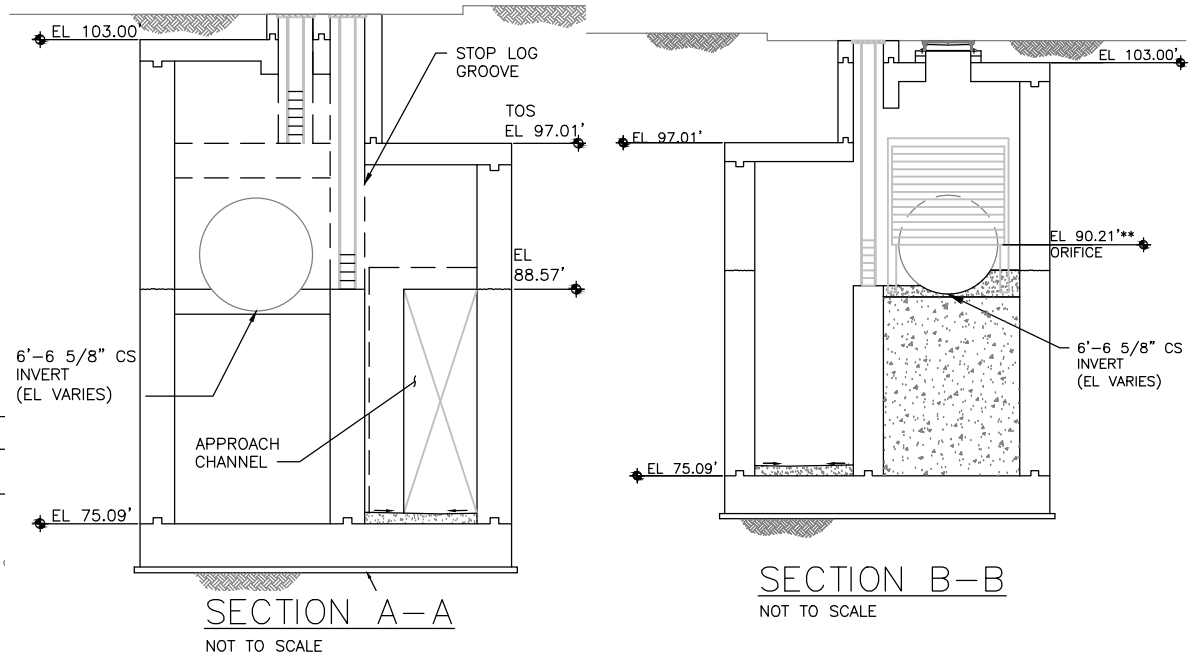
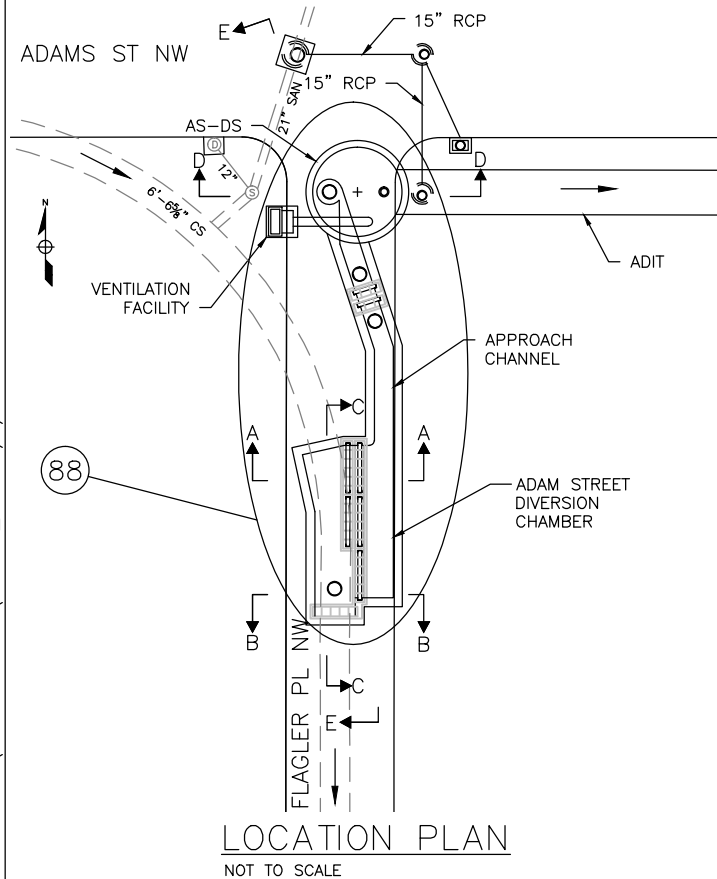
STRUCTURE NO.  
87

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REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL # N/A

# Structure No.88, Flagler Pl NW and Adams St NW

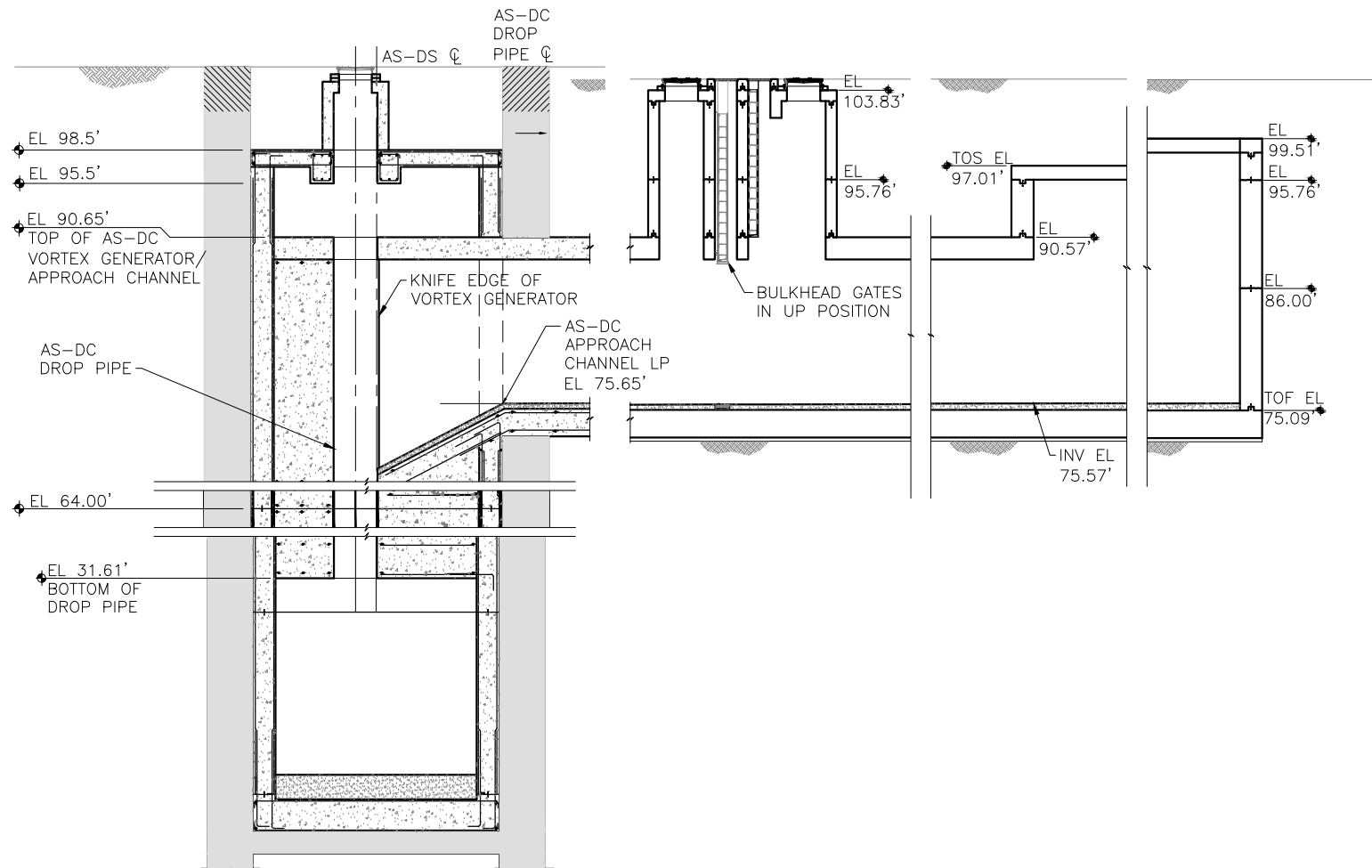
The flow in the 6'-6 3/8" combined sewer is intercepted and diverted to the tunnel when the flow in the trunk sewer exceeds the side overflow wier elevation.

The information presented in this drawing is preliminary. This drawing will be updated once the asbuilts are received.



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 REVISED DATE: MARCH 2016  
 ASSOCIATED NPDES OUTFALL #N/A

STRUCTURE NO.  
 88 (1 of 2)



SECTION E-E  
NOT TO SCALE

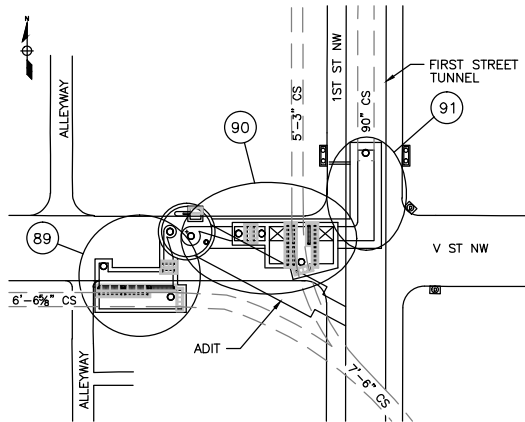
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL #N/A

STRUCTURE NO.  
88 (2 OF 2)

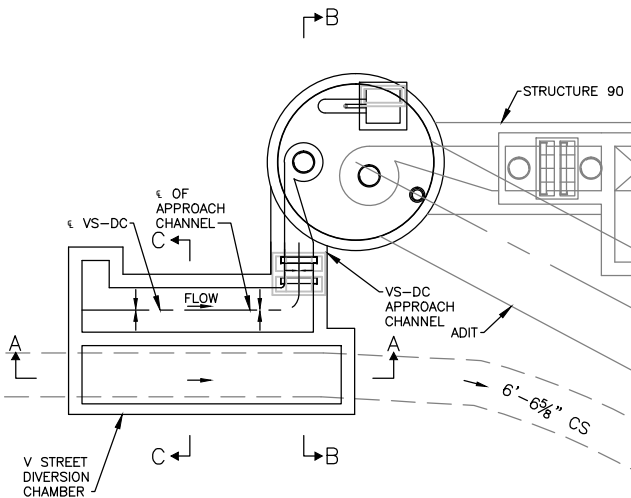
# Structure No.89 V Street NW

The flow in the 6'-6" sewer will be intercepted and diverted to the tunnel when the capacity of the 6'-6 5/8" sewer is exceeded.

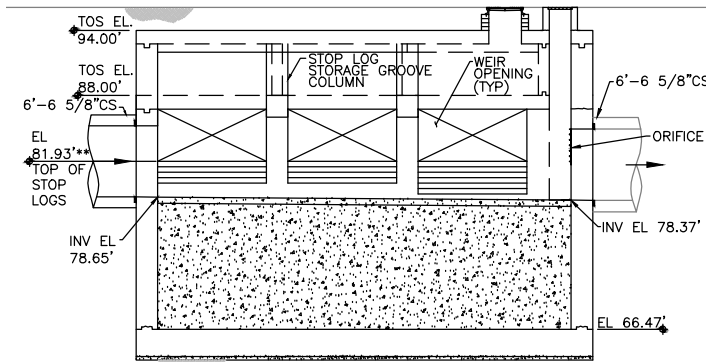
The information presented in this drawing is preliminary. This drawing will be updated once the asbuilts are received.



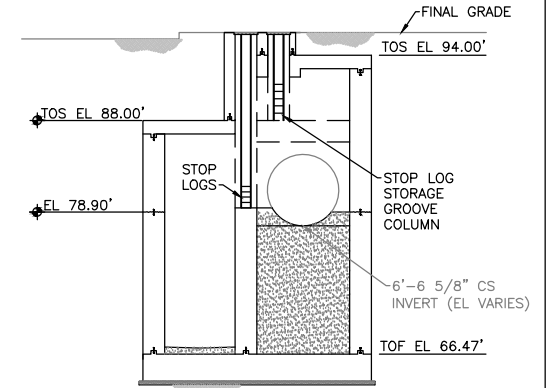
LOCATION PLAN  
NOT TO SCALE



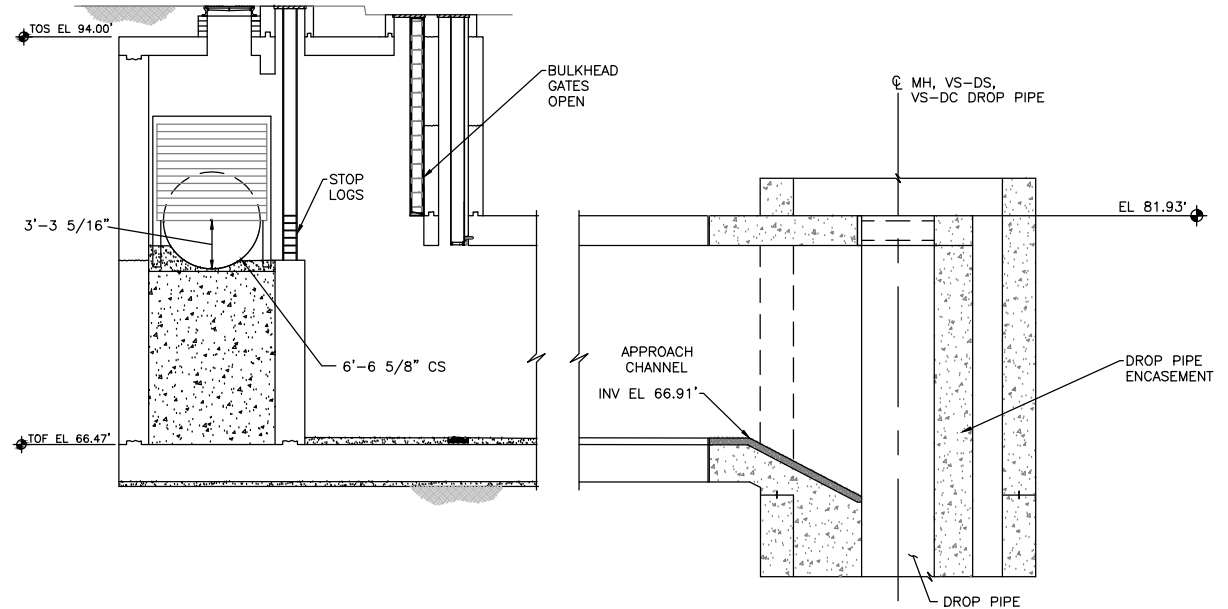
PLAN  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE



SECTION C-C  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE

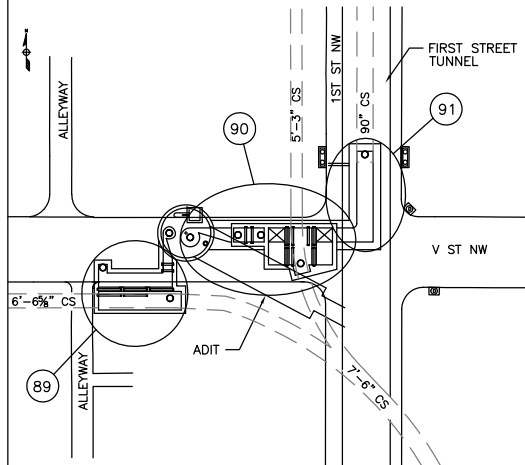
STRUCTURE NO.  
89

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2016  
ASSOCIATED NPDES OUTFALL # N/A

# Structure No.90 V Street NW

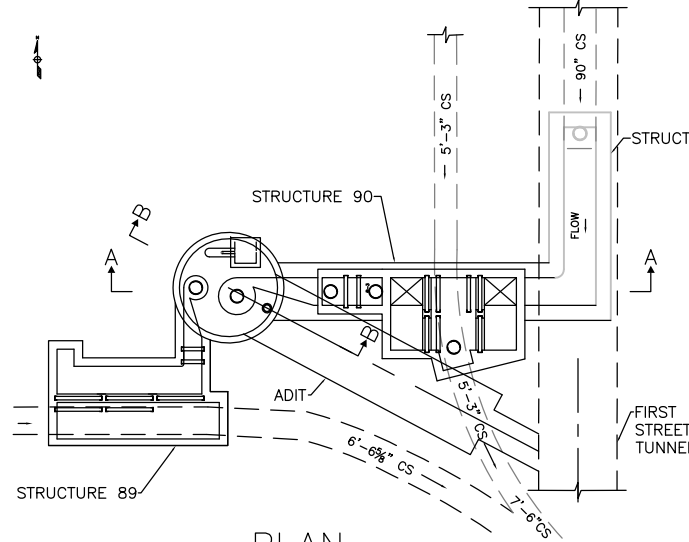
The flow in the 5'-3" sewer is intercepted and diverted to the tunnel when the flow exceeds the side overflow weir elevation.

The information presented in this drawing is preliminary. This drawing will be updated once the asbuilts are received.



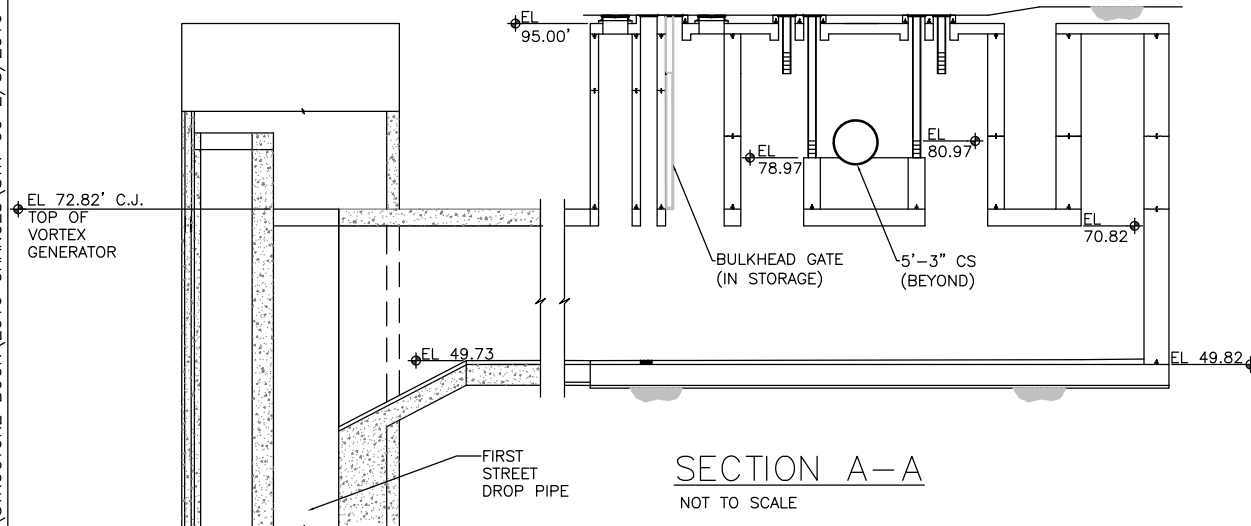
LOCATION PLAN

NOT TO SCALE



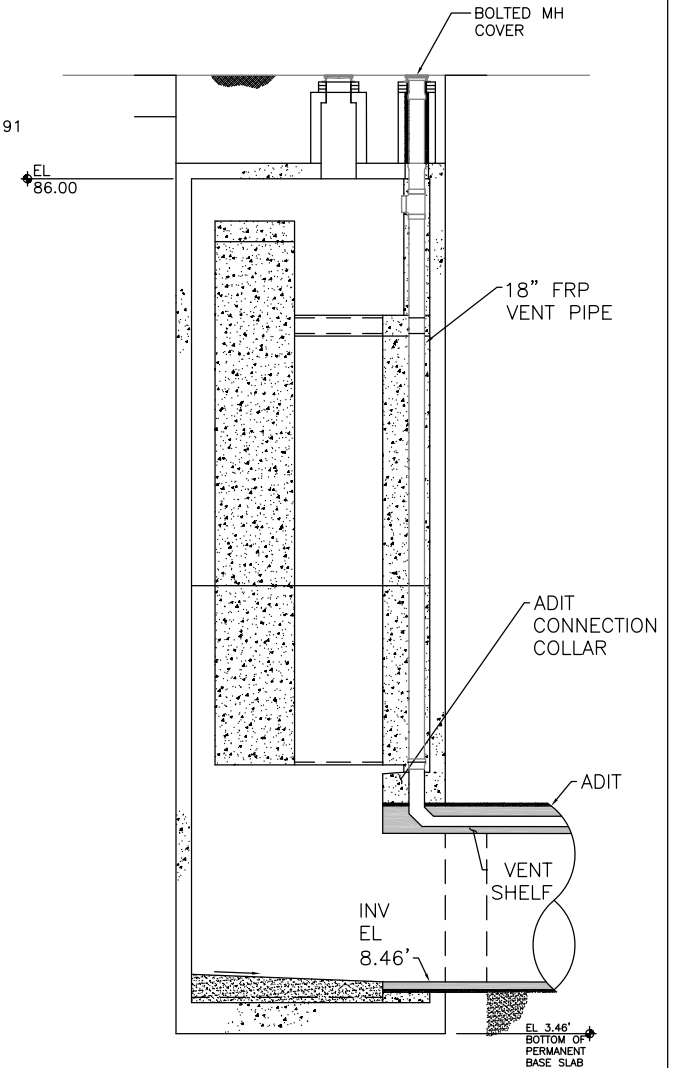
PLAN

NOT TO SCALE



SECTION A-A

NOT TO SCALE

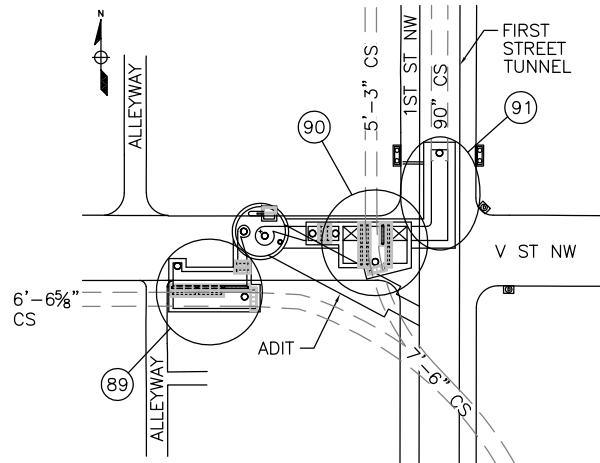


SECTION B-B

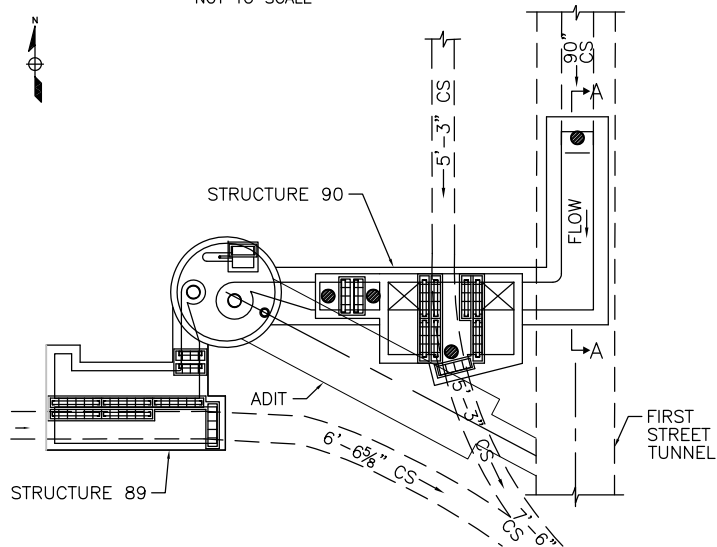
NOT TO SCALE

STRUCTURE NO.  
90

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL # N/A



LOCATION PLAN  
NOT TO SCALE

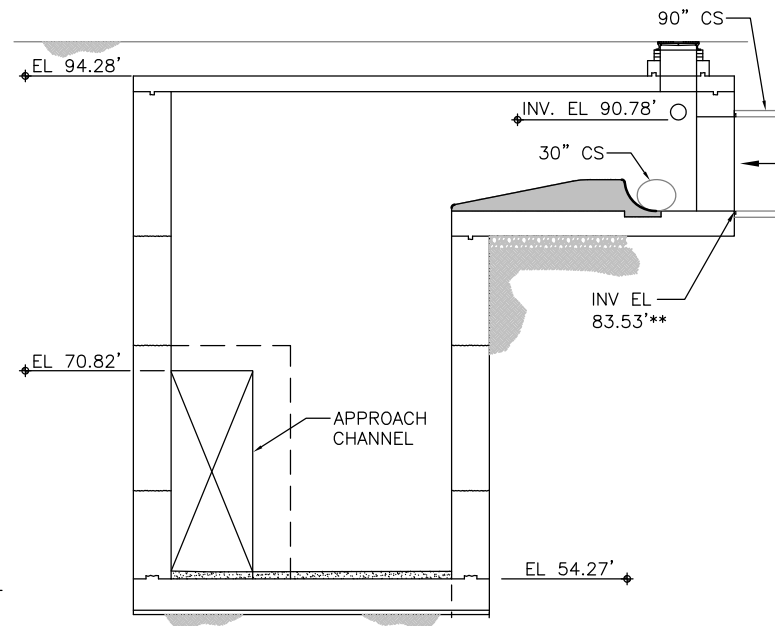


PLAN  
NOT TO SCALE

# Structure No.91, V and First Street NW

The flow in the 90" sewer is intercepted and diverted to the tunnel when the capacity of the 30" sewer is exceeded.

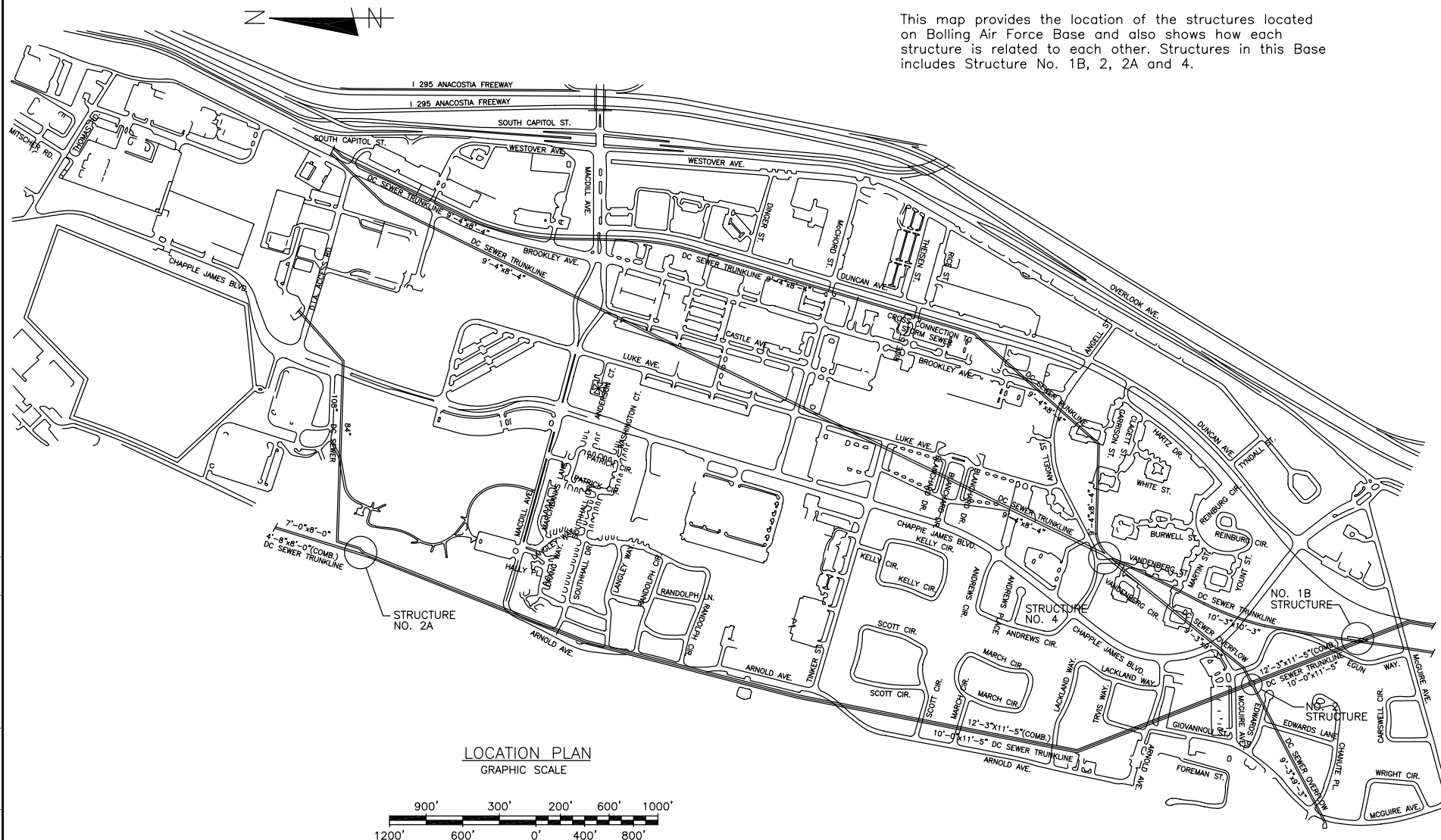
The information presented in this drawing is preliminary. This drawing will be updated once the asbuilts are received.



SECTION A-A  
NOT TO SCALE

# BOLLING AIR FORCE BASE SEWER SYSTEM

This map provides the location of the structures located on Bolling Air Force Base and also shows how each structure is related to each other. Structures in this Base includes Structure No. 1B, 2, 2A and 4.



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
BOLLING-1



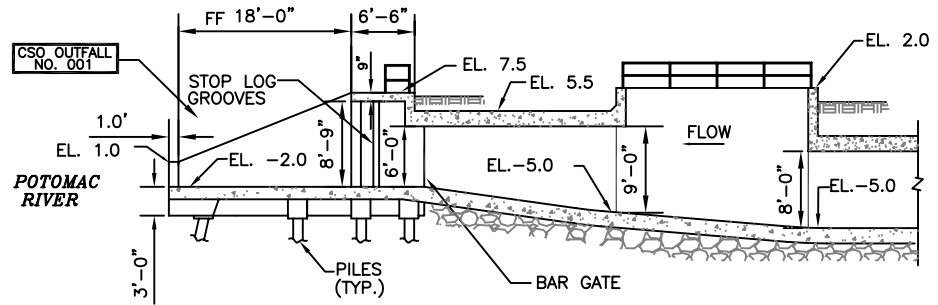
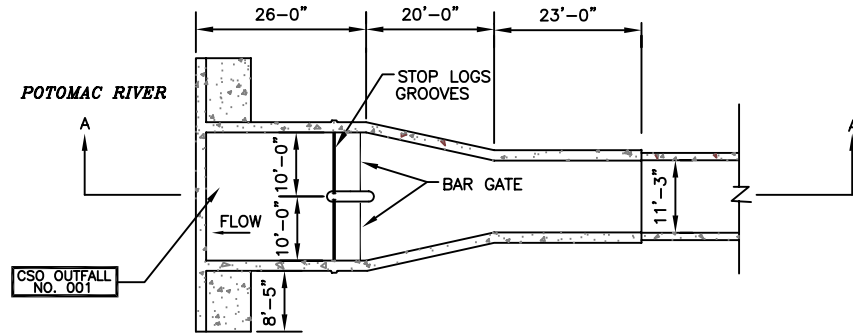
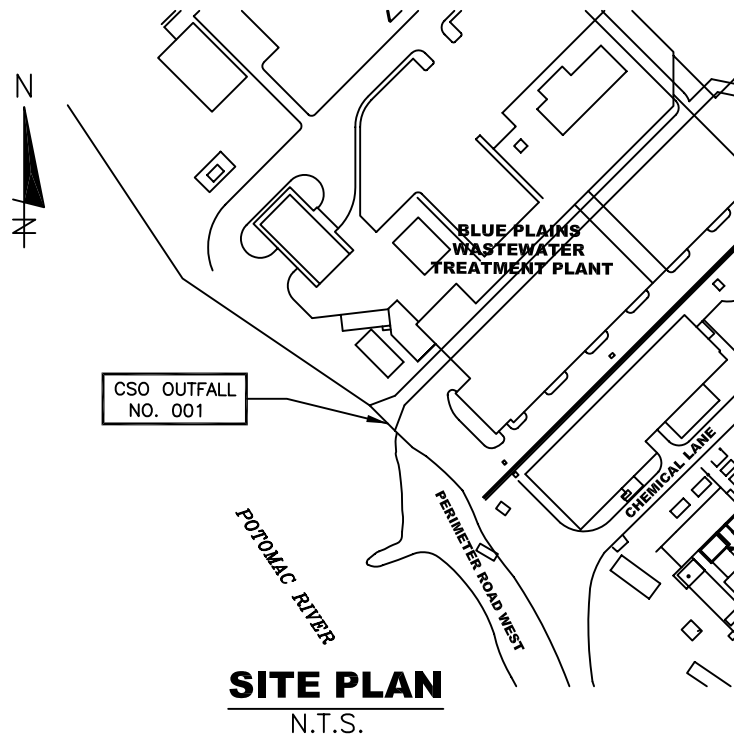


## **Section 3**

# **Outfall Structures and Tide Gates**

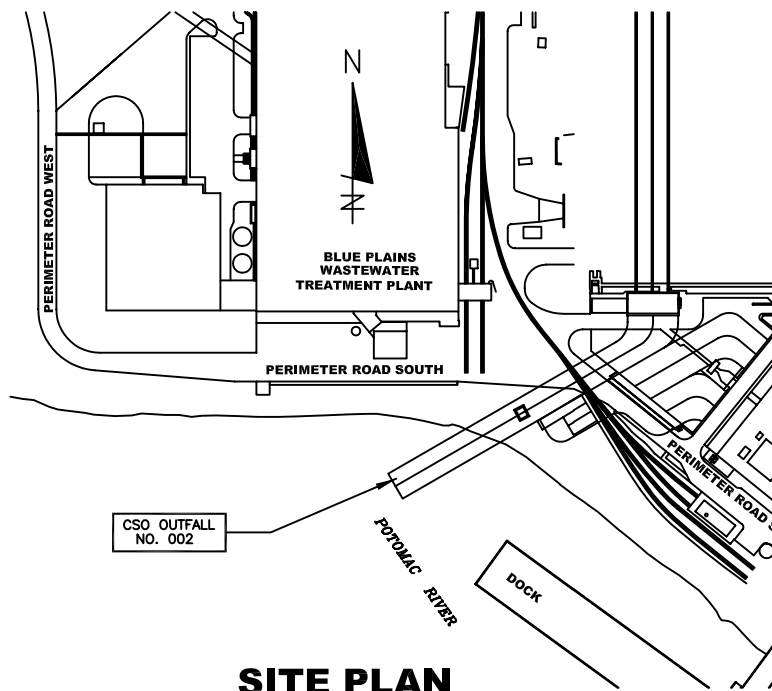


FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-001

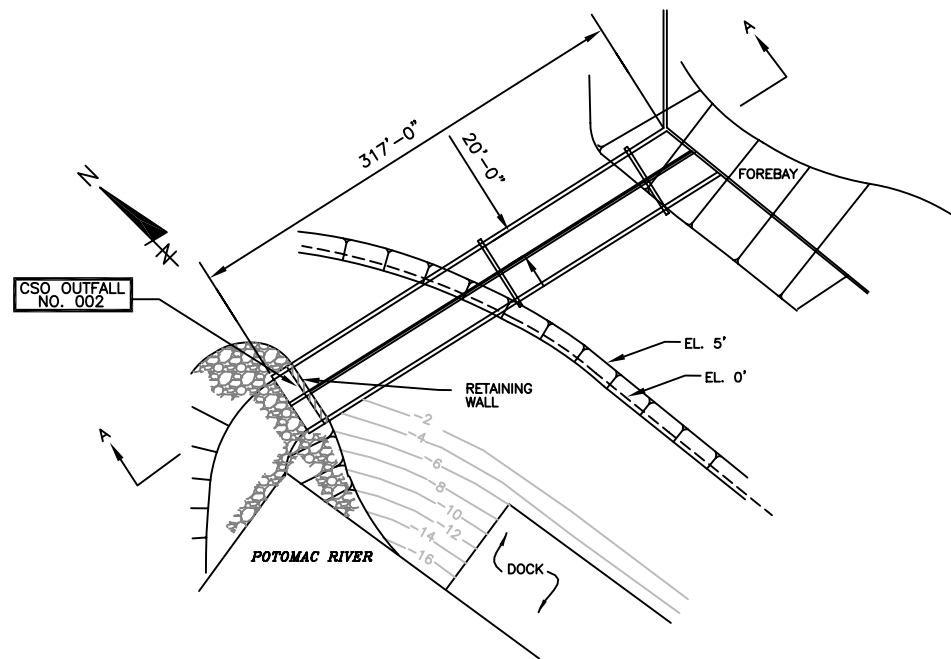


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
001



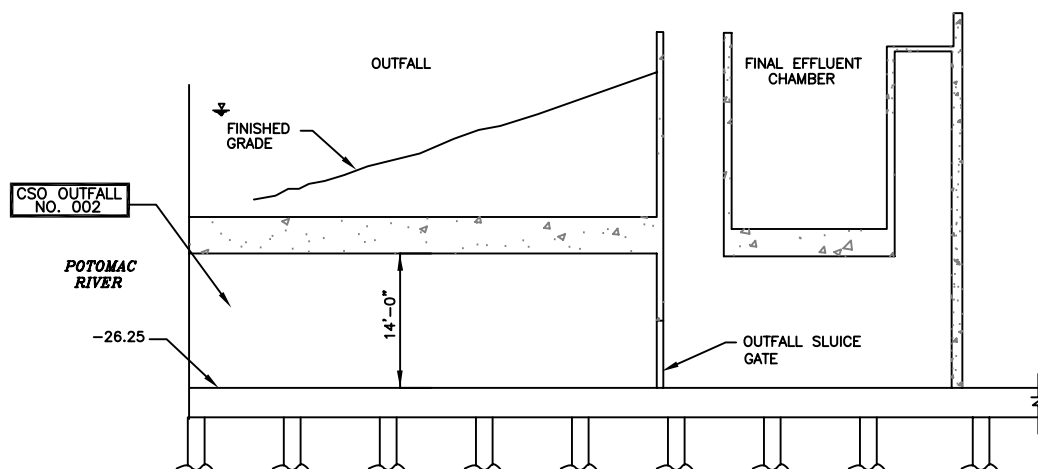
**SITE PLAN**  
N.T.S.



**PLAN**  
N.T.S.



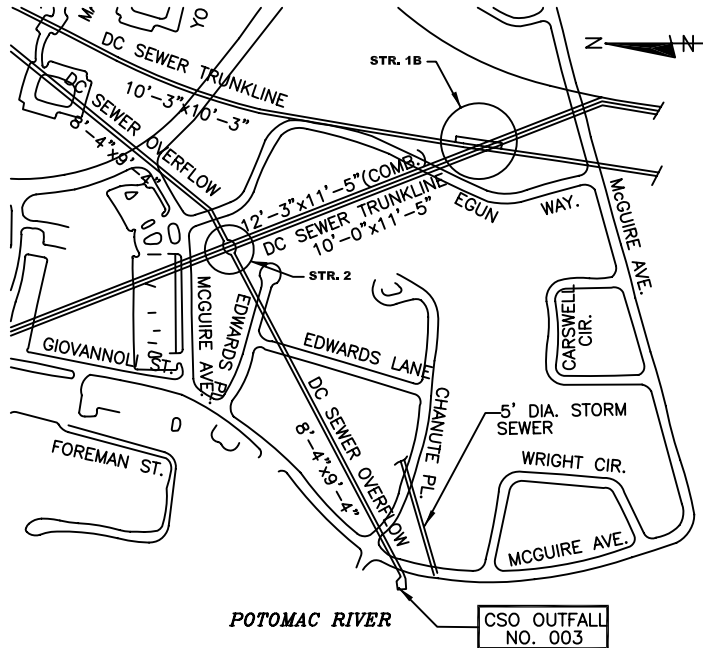
**PHOTO**



**SECTION A-A**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: WWTP OUTFALL

NPDES NO.  
002

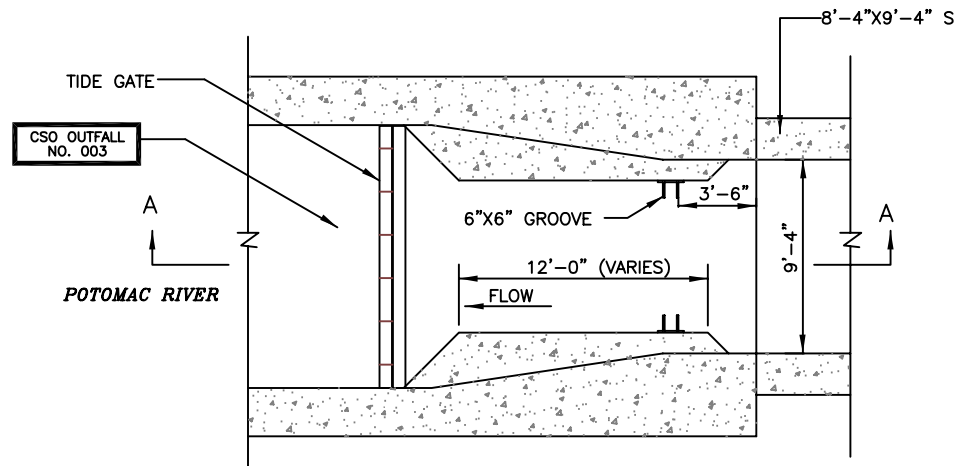


**SITE PLAN**  
SCALE: 1"=2000'

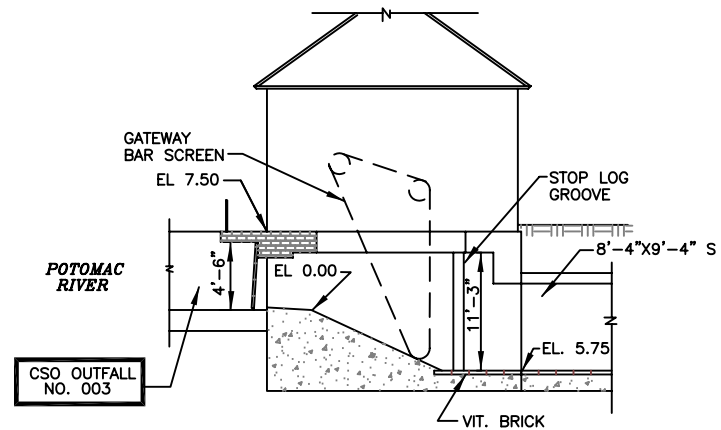


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

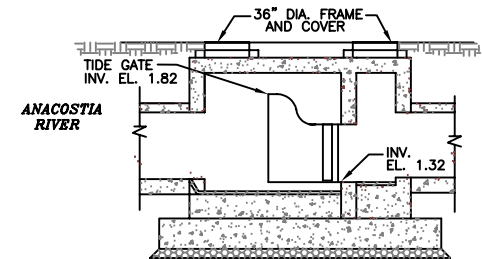
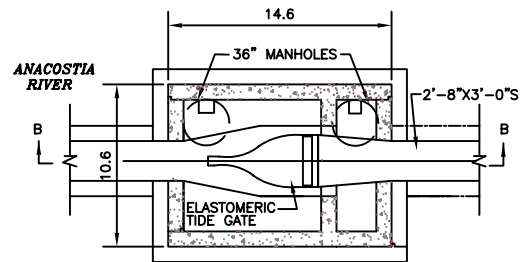
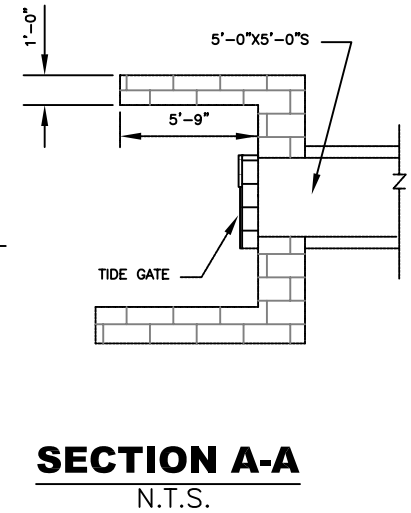
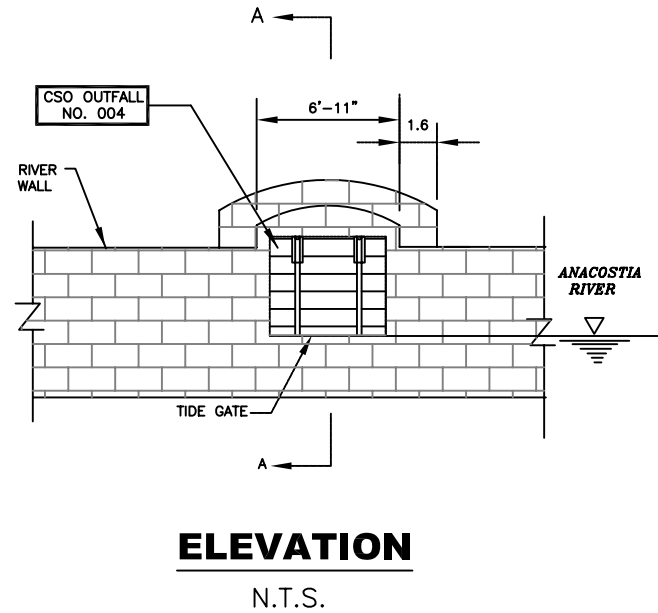
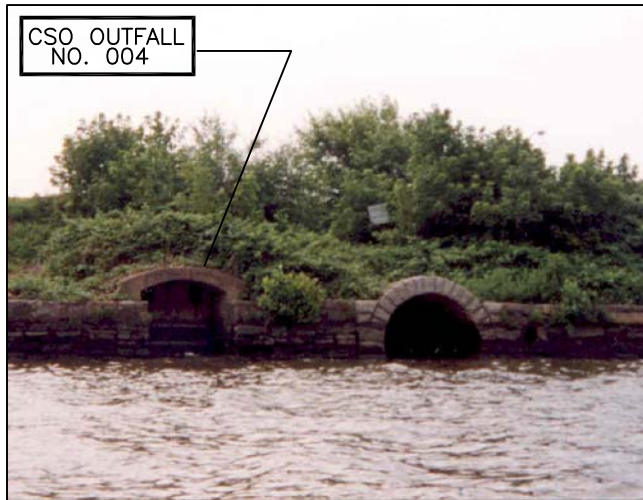
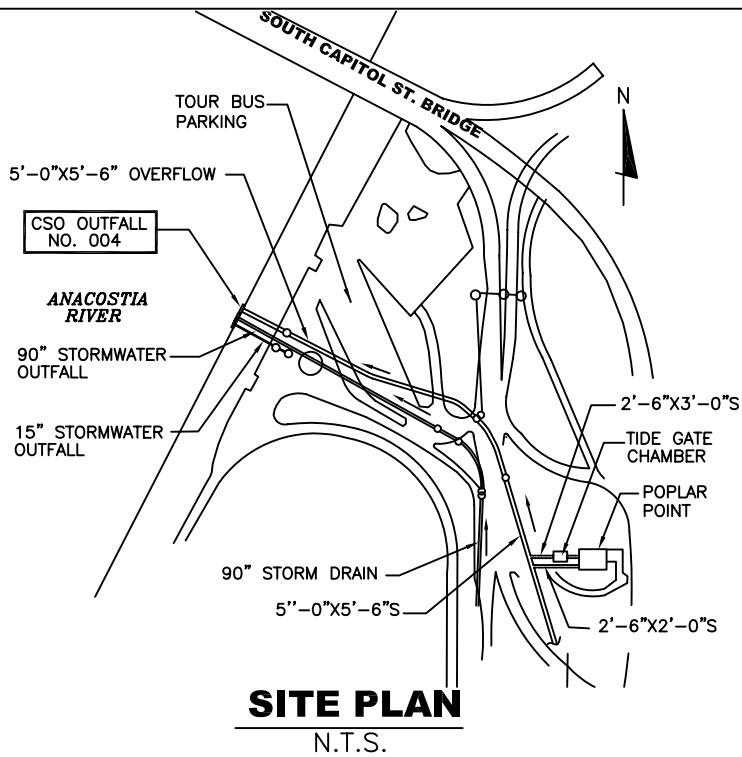


**PLAN**  
N.T.S.



**SECTION A-A**  
N.T.S.

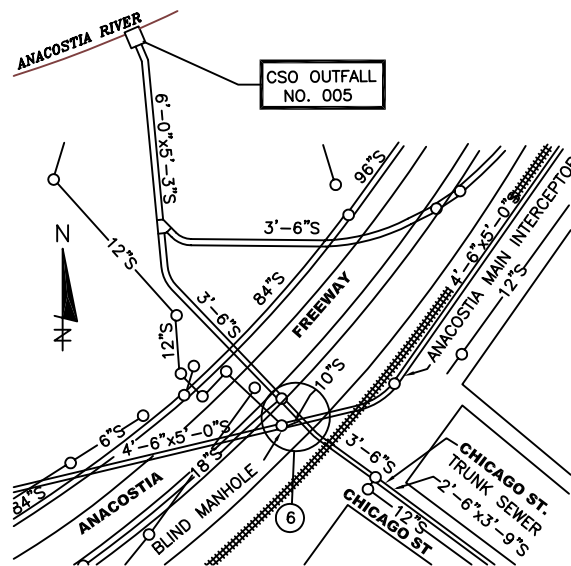
NPDES NO.  
003



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: EMERGENCY RELIEF

NPDES NO.  
004



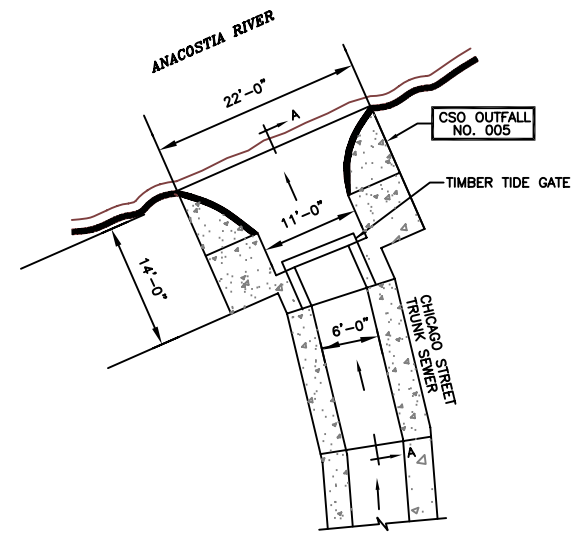


**SITE PLAN**

SCALE: 1"=200'

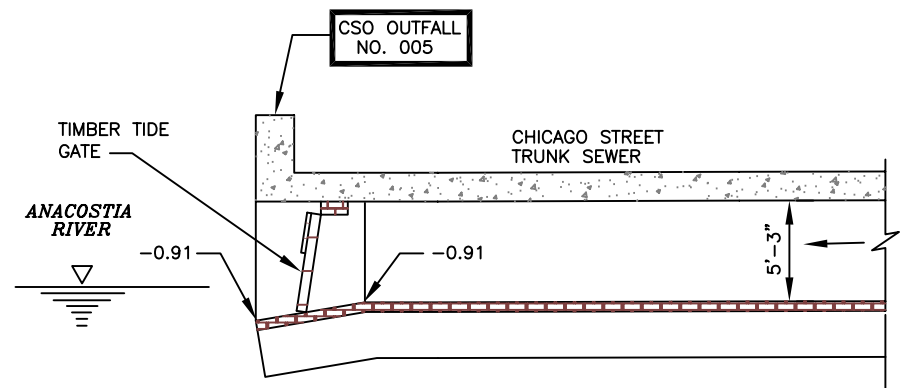


**PHOTO**



**PLAN**

N.T.S.

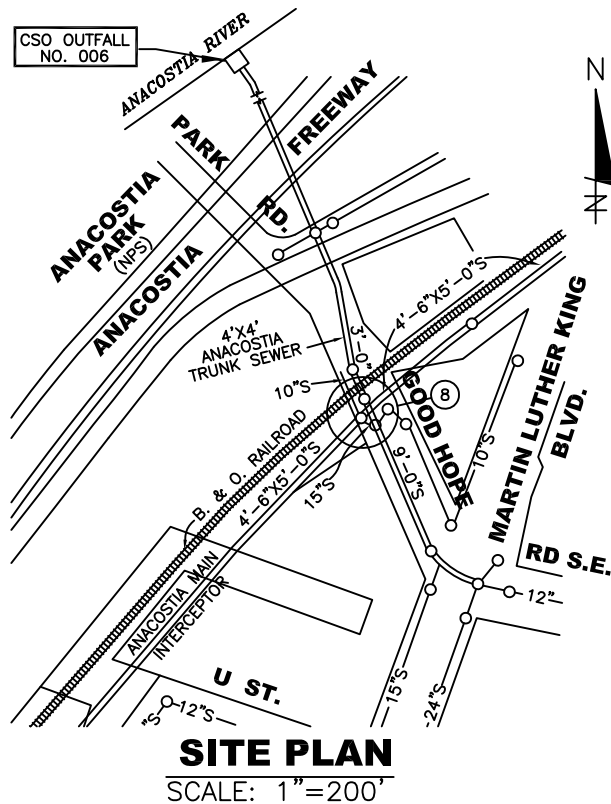


**SECTION A-A**

N.T.S.

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 OUTFALL TYPE: CSO

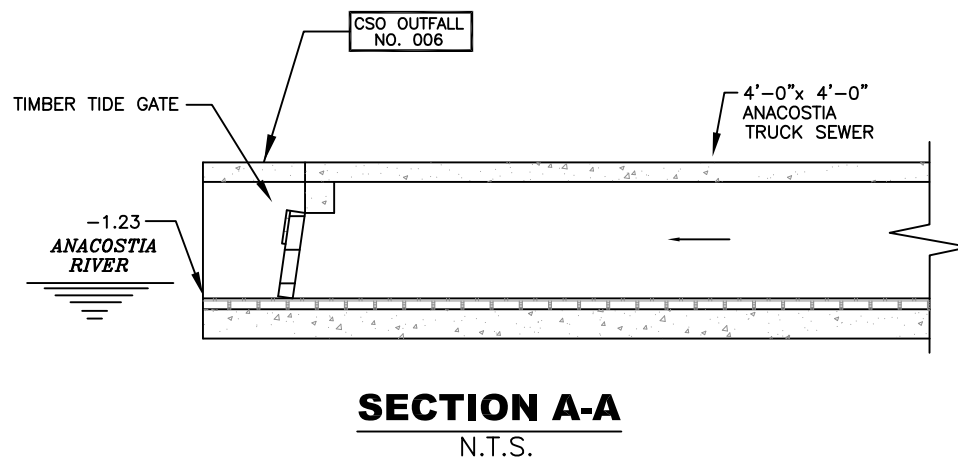
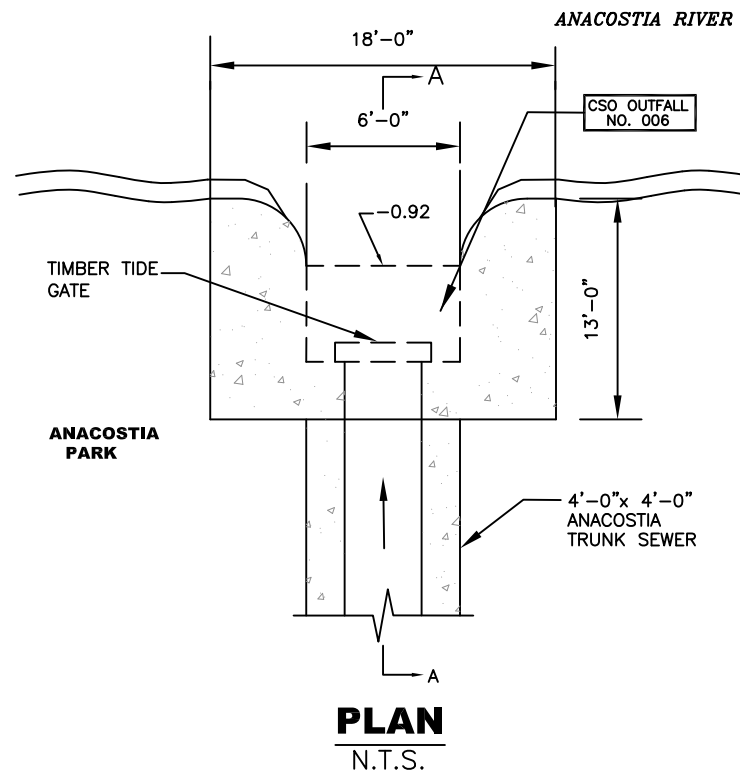
NPDES NO.  
 005



**PHOTO**

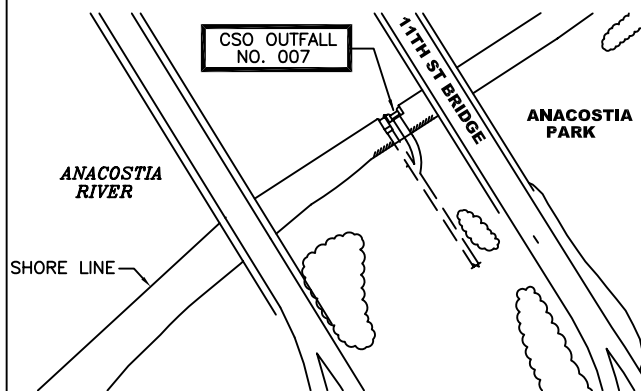
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: FEBRUARY 2012  
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO  
A SEPARATE STORM SEWER OUTFALL.



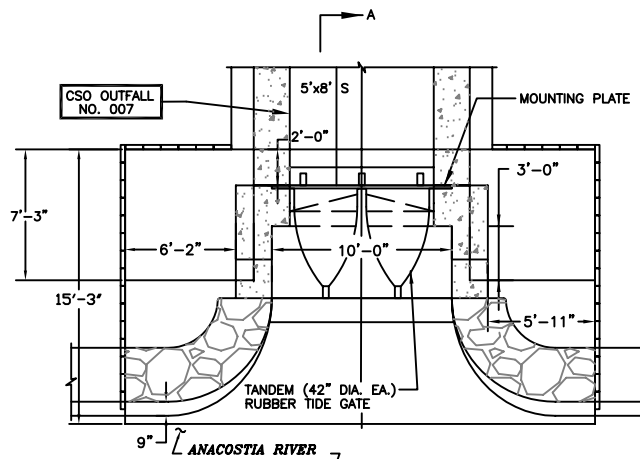
NPDES NO.  
006





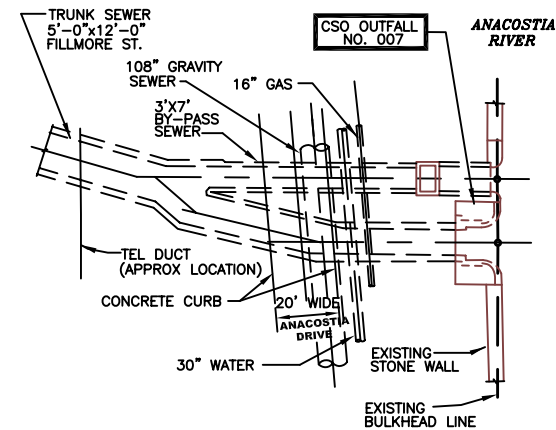
## SITE PLAN

SCALE: 1"=50'



## PLAN AT EL +5.75

N.T.S.

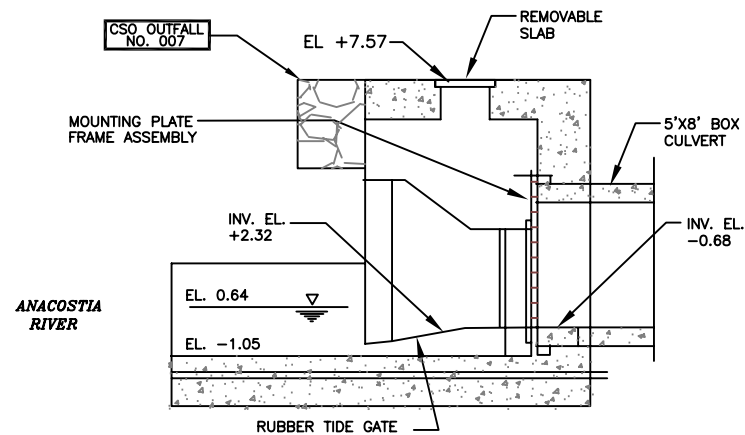


## DETAIL PLAN

N.T.S.



## PHOTO

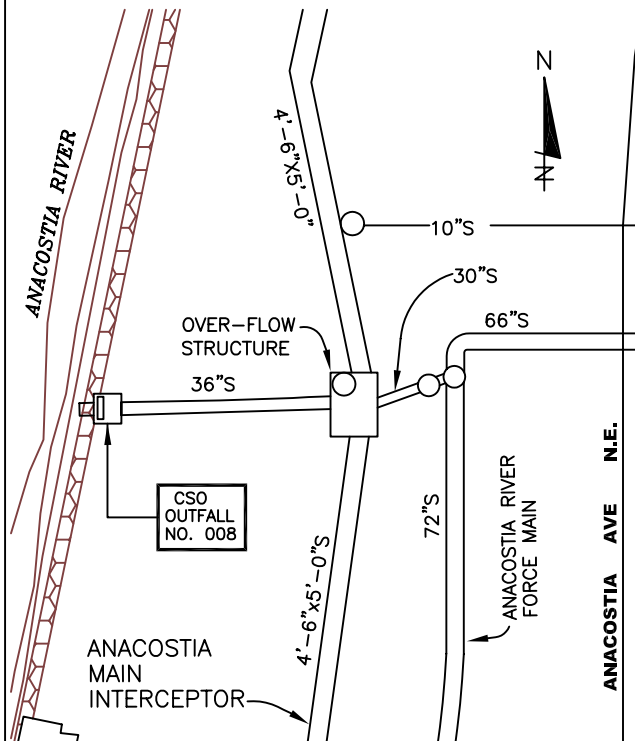


## SECTION A-A

N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
007



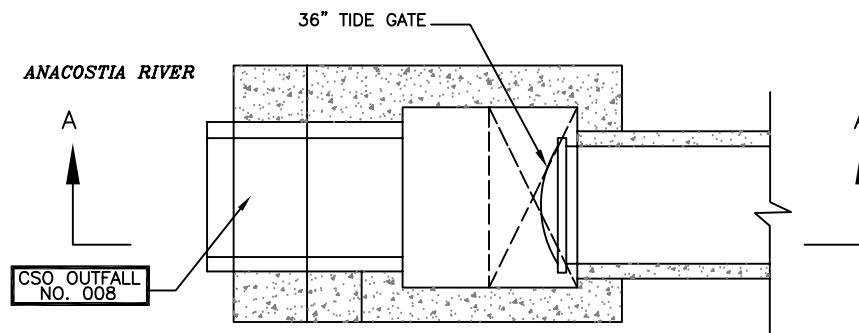
**SITE PLAN**

SCALE: 1"=60'



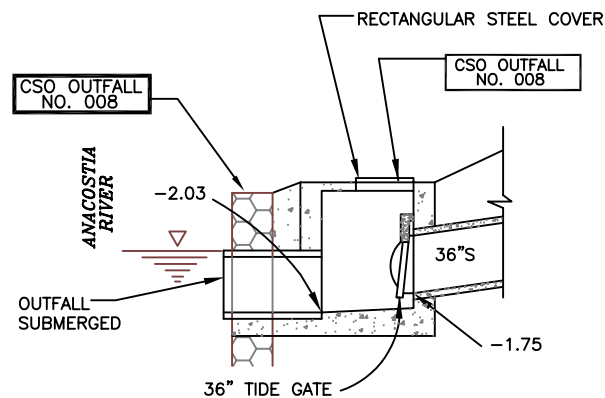
**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: EMERGENCY RELIEF



**PLAN**

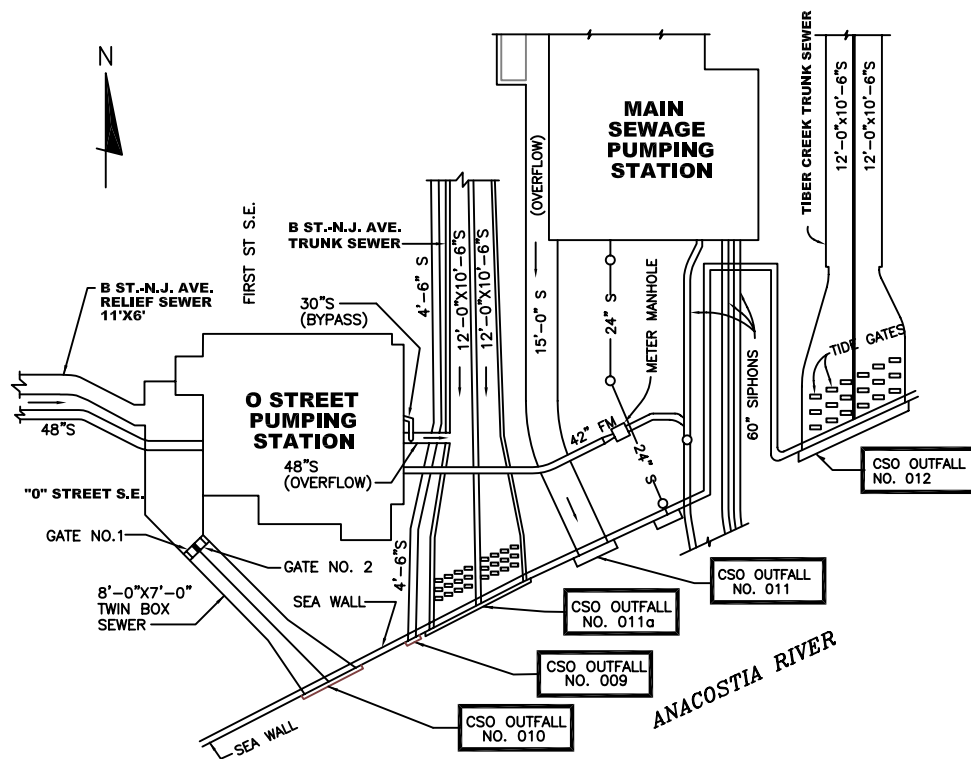
SCALE: 1"=5'



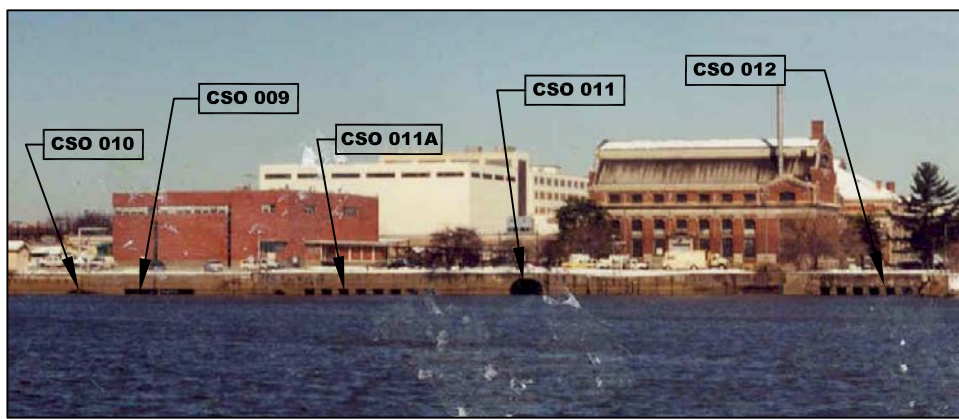
**SECTION A-A**

SCALE: 1"=10'

NPDES NO.  
008



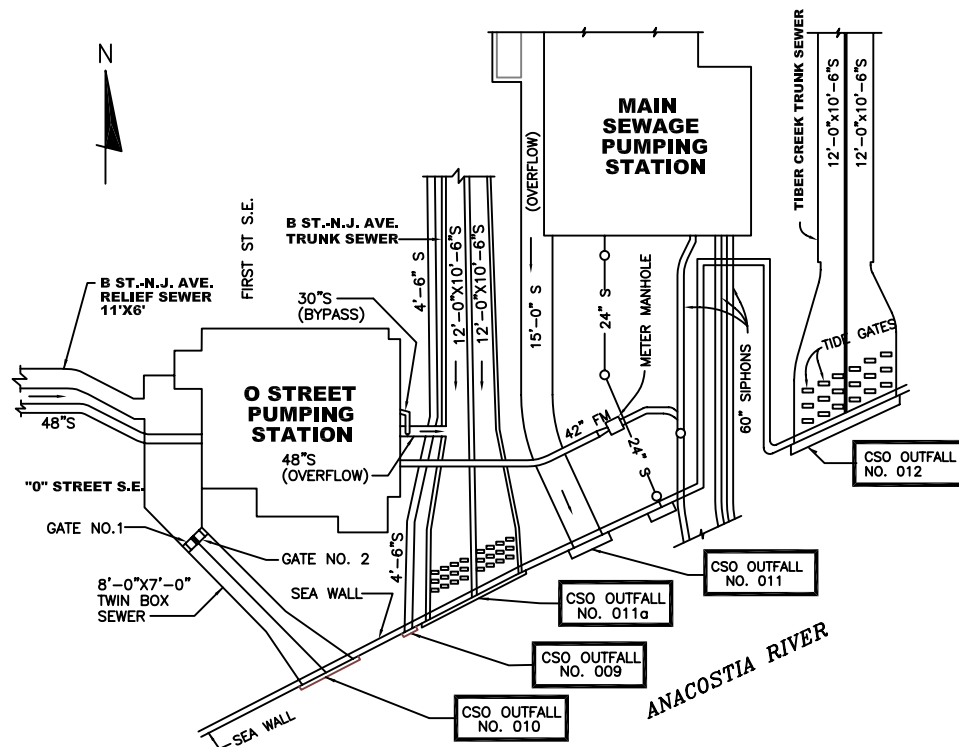
**SITE PLAN**  
N.T.S.



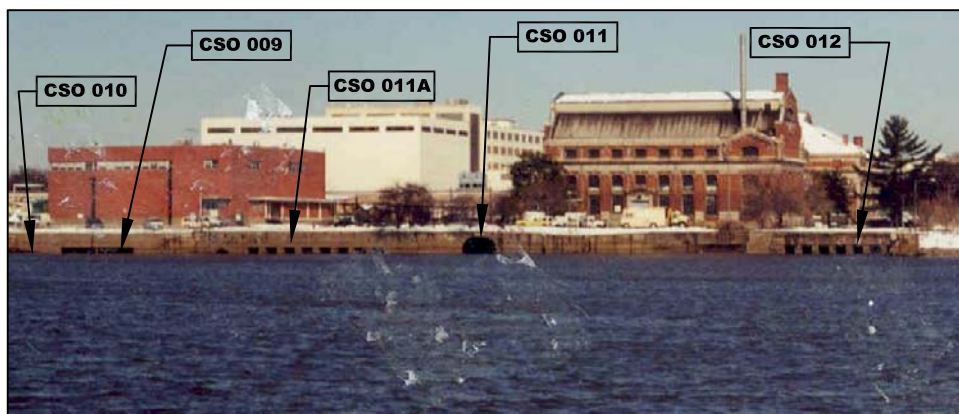
**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
009

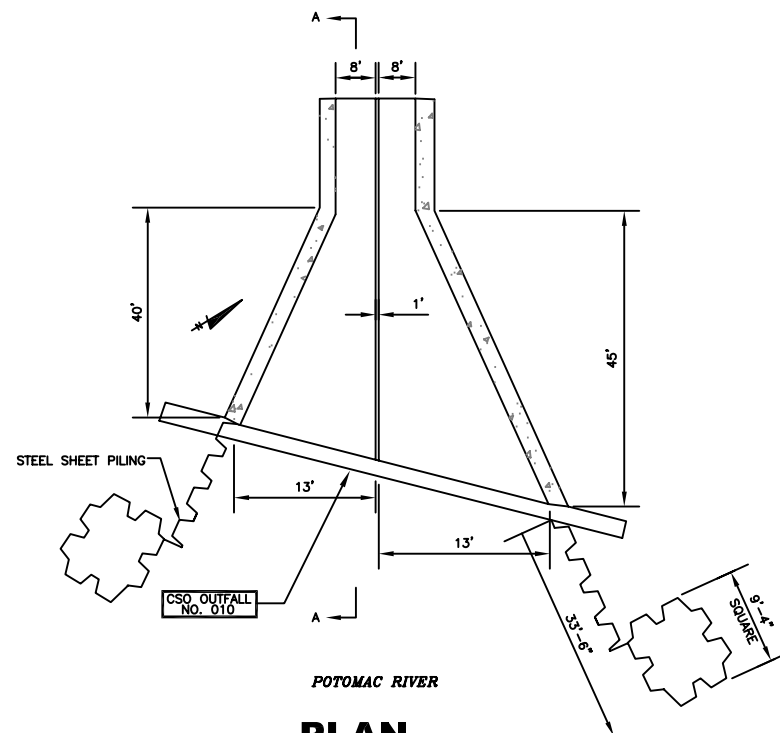


**SITE PLAN**  
N.T.S.

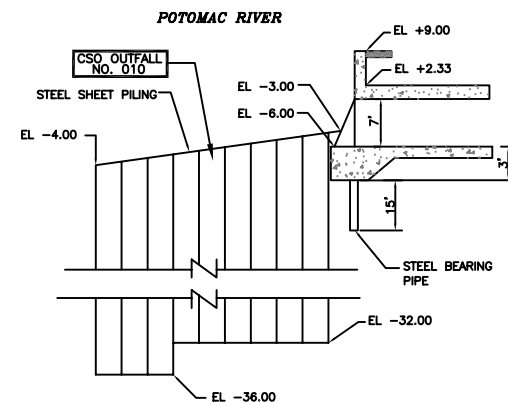


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



**PLAN**  
N.T.S.



**SECTION A-A**  
N.T.S.

NPDES NO.  
010

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

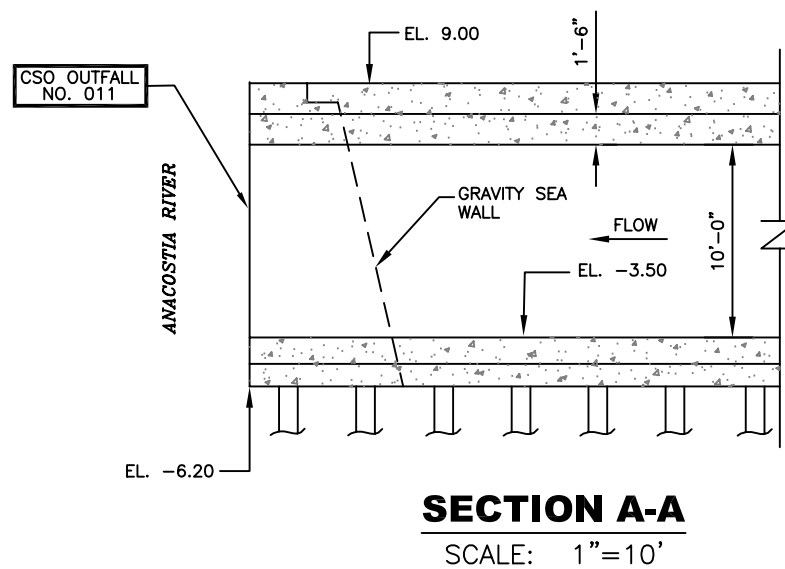
NPDES NO.  
011

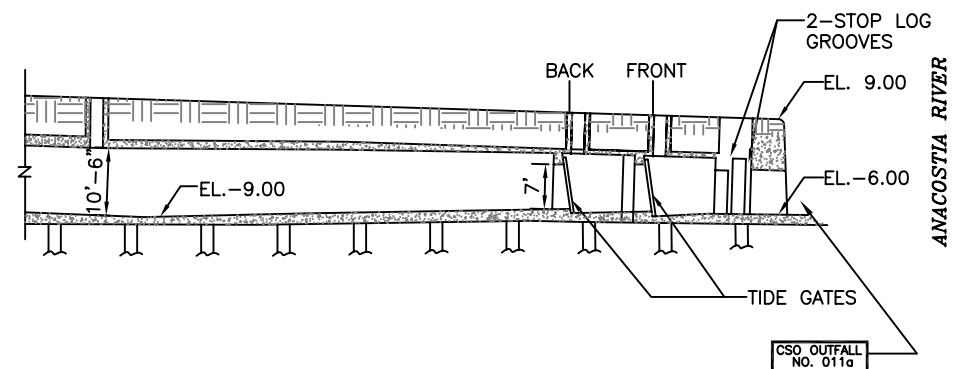


Figure 1 shows a riverbank with a stone wall and a series of vertical piles. Arrows point from labels 'CSO 011a', 'CSO 011', and 'CSO 012' to specific locations. 'CSO 011a' points to a pile, 'CSO 011' points to a tunnel entrance, and 'CSO 012' points to the water surface.

## PHOTO

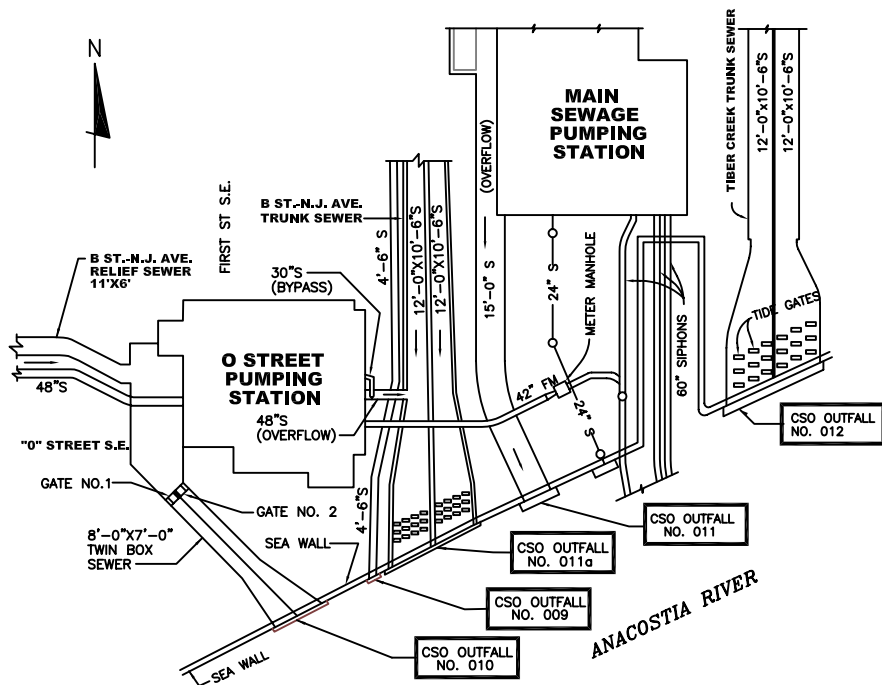
Technical drawing of Sluice Gate 5B. The drawing shows a cross-section of the gate structure. On the left, a vertical line is labeled "B ST./ NEW JERSEY AVE. TRUNK SEWER (2@12'WX10'-6\"H)". To the right of the sewer, a vertical line is labeled "MH'S". The gate structure consists of a series of vertical gates numbered 1 through 8. The gates are labeled "BACK TIDE GATE (TYP.)" and "FRONT TIDE GATE (TYP.)". The gates are supported by a structure labeled "2-STOP LOG GROOVES PER BAY". The elevation of the gates is indicated as "EL. -6.0". The river is labeled "ANACOSTIA RIVER". The gate structure is labeled "SLUICE GATE 5B". The elevation of the river is indicated as "EL. -6.0±". A box labeled "CSO OUTFALL NO. 011a" is shown at the bottom right.

**PLAN**  
SCALE: 1"=30'

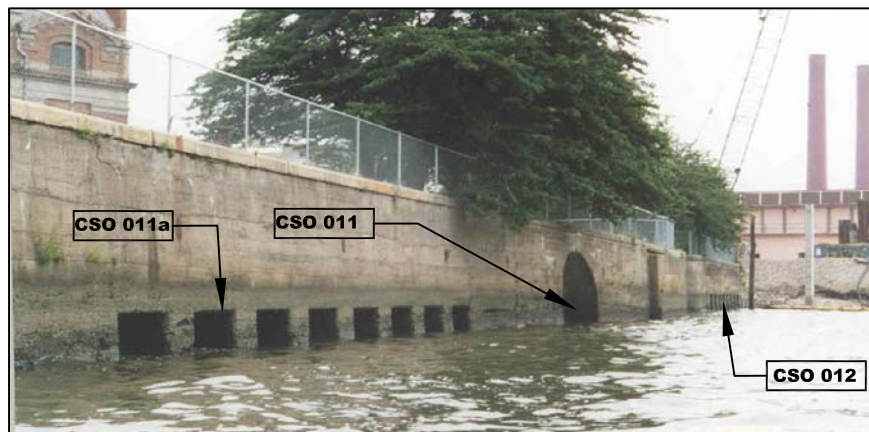


**SECTION A-A**  
SCALE: 1"=30'

NPDES NO.  
011a

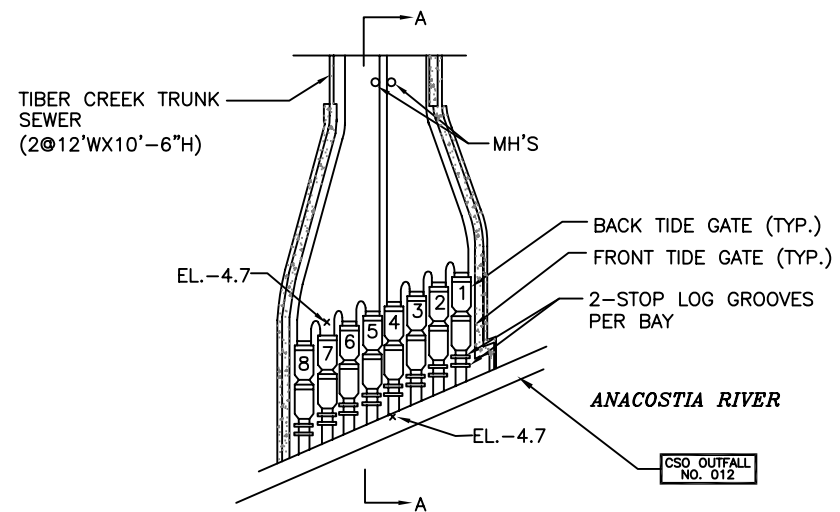


**SITE PLAN**  
N.T.S.

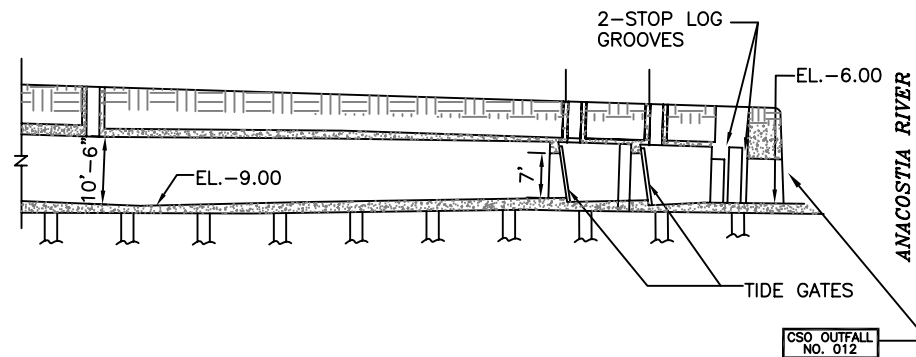


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



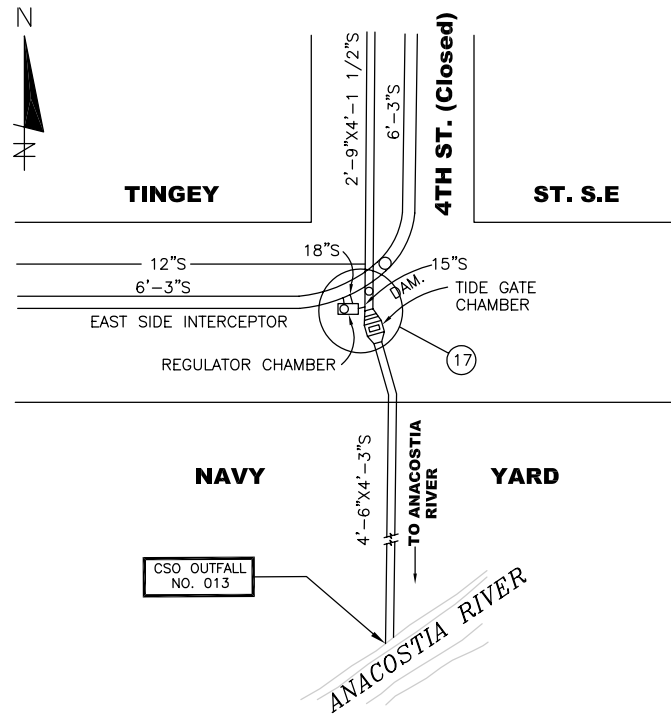
**PLAN**  
SCALE: 1"=30'



**SECTION A-A**  
SCALE: 1"=30'

NPDES NO.  
012

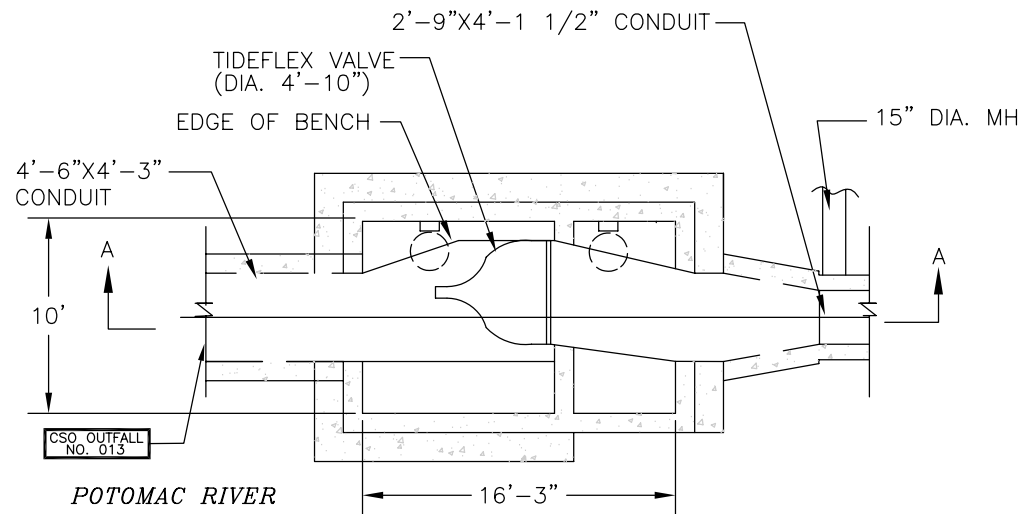
FILE: J:\1163\WASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-013



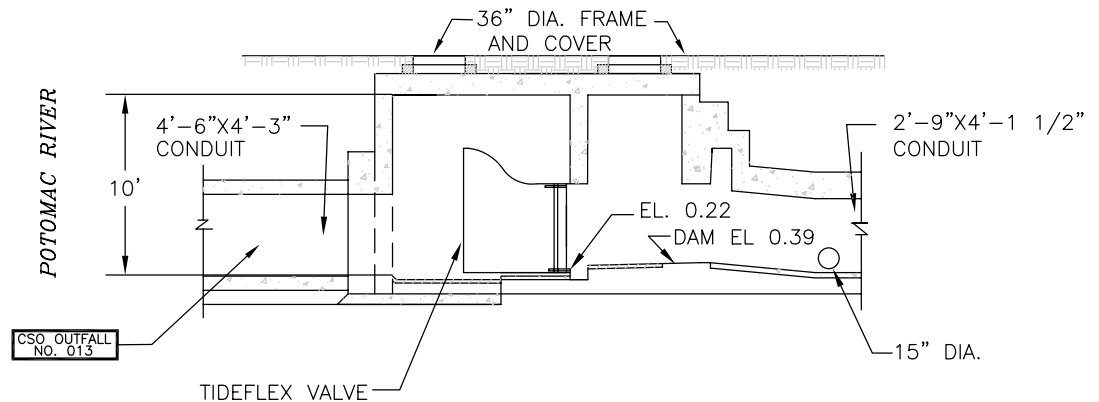
**SITE PLAN**  
SCALE: 1"=100'



**PHOTO**



**PLAN**  
N.T.S.

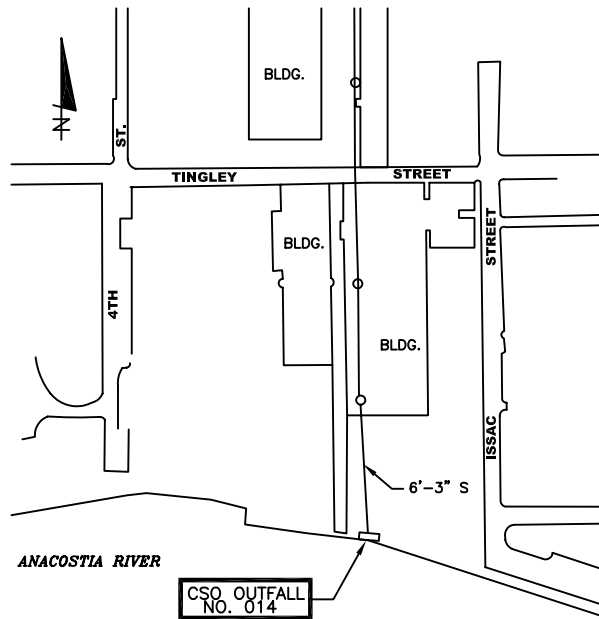


**SECTION A-A**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
013





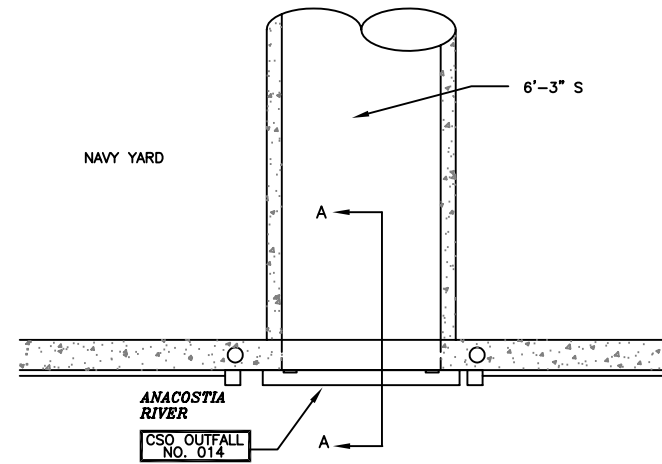
## PLAN

SCALE: 1"=100'



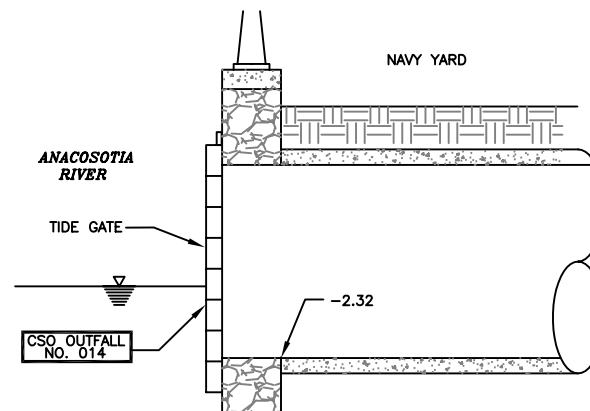
## PHOTO

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



## PLAN

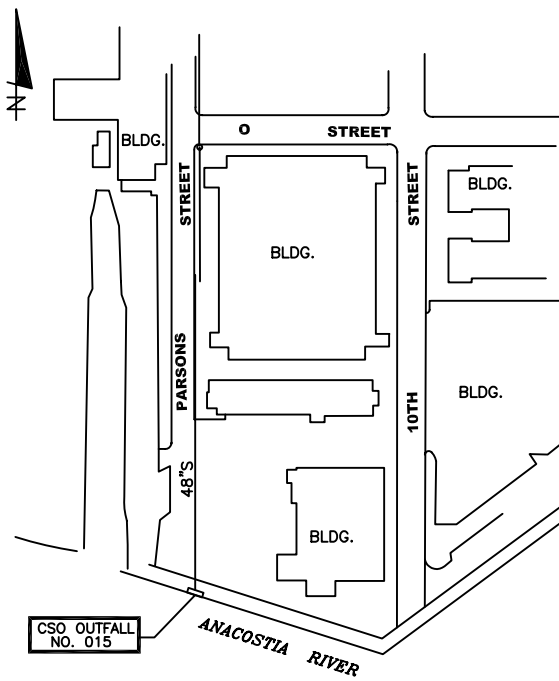
N.T.S.



## SECTION A-A

N.T.S.

NPDES NO.  
014



## **SITE PLAN**

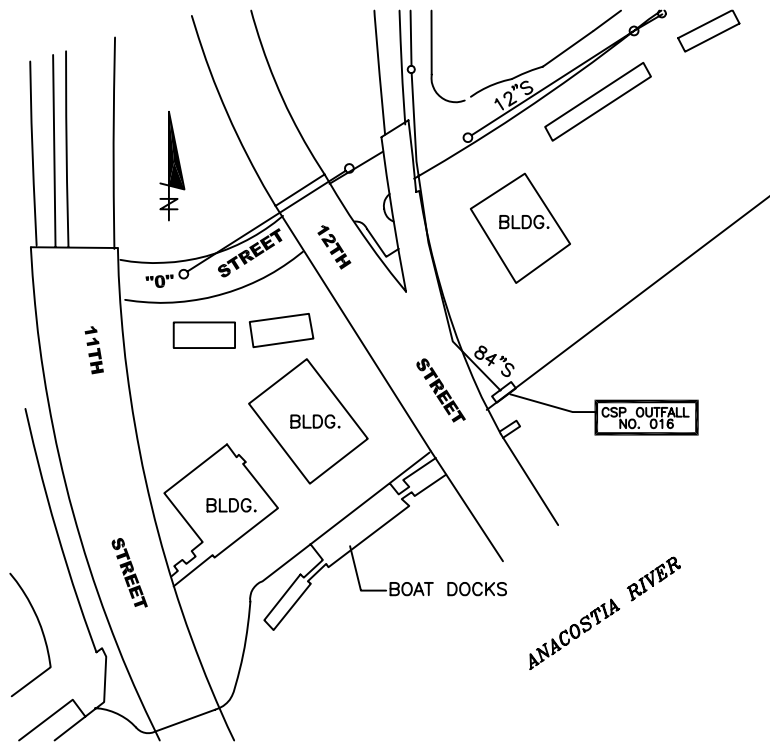
N.T.S.



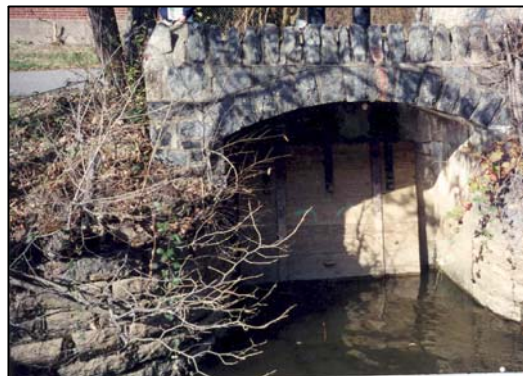
## **PHOTO**

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 OUTFALL TYPE: CSO

NPDES NO.  
 015

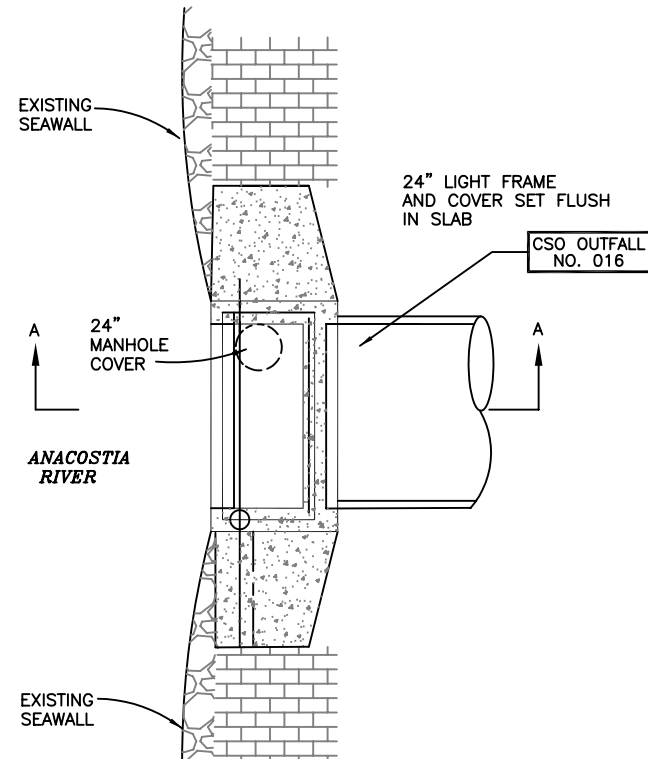


**SITE PLAN**  
N.T.S.

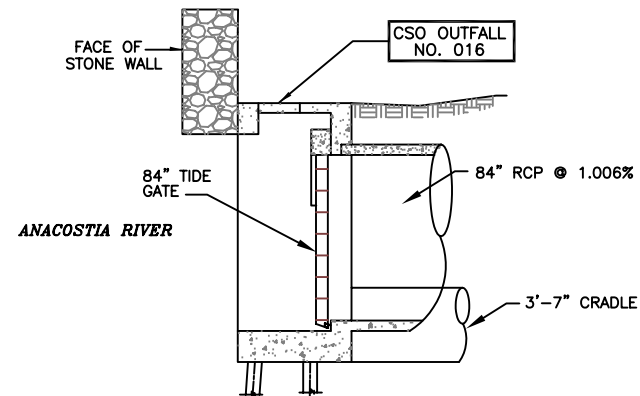


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

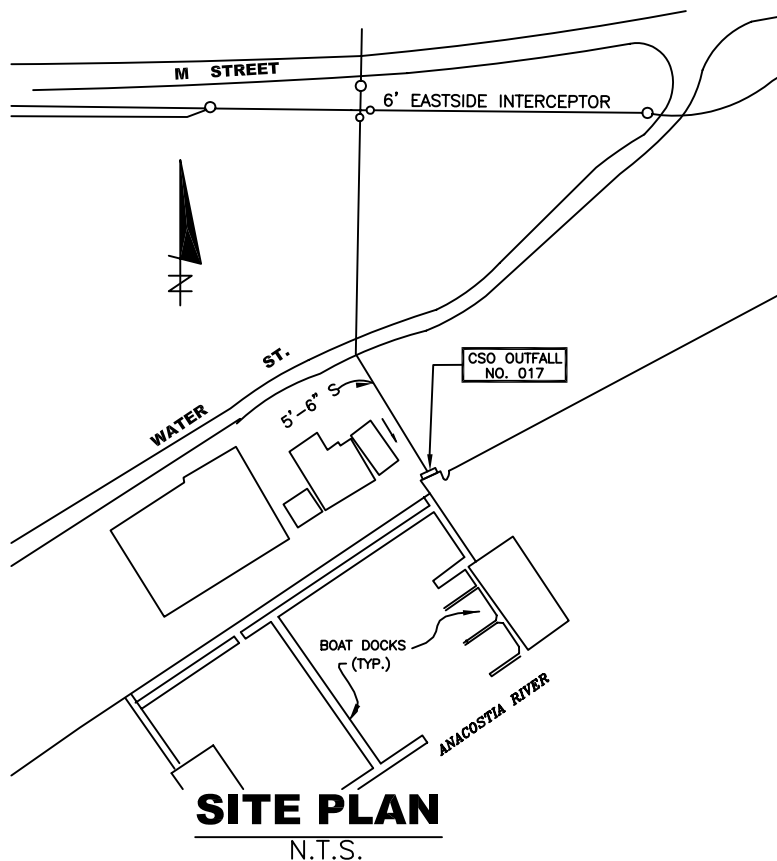


**PLAN**  
N.T.S.



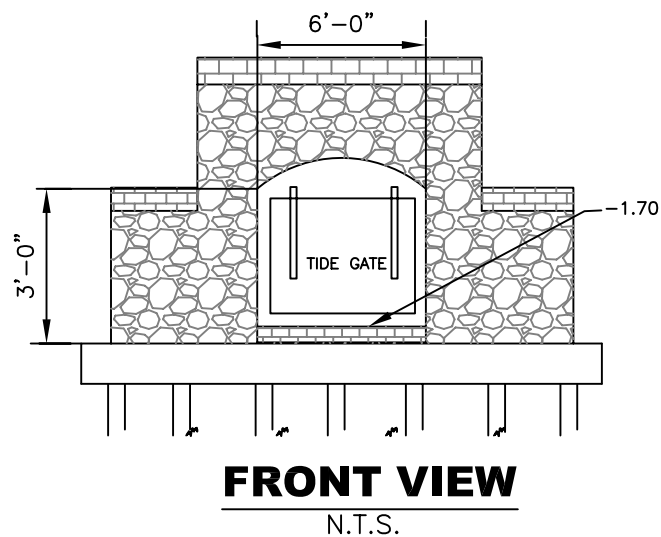
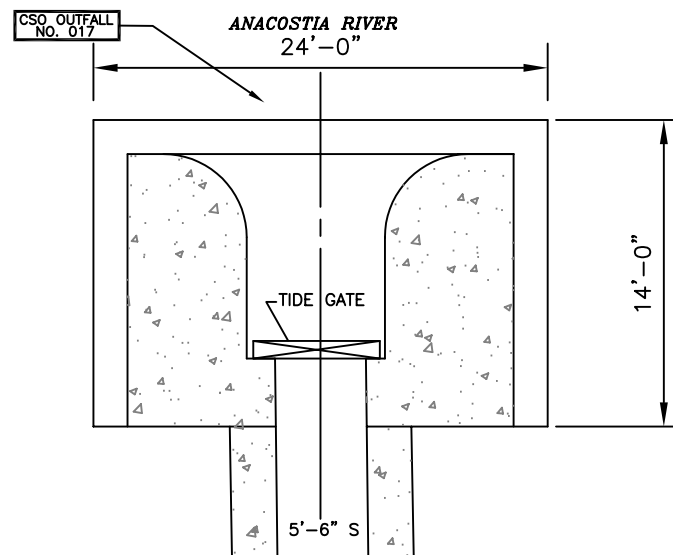
**SECTION A-A**  
N.T.S.

NPDES NO.  
016

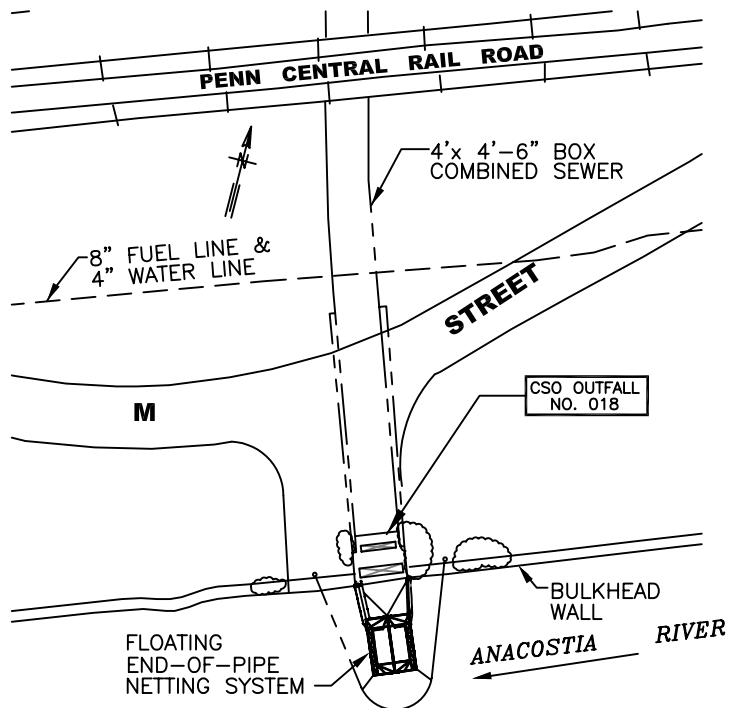


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



NPDES NO.  
017



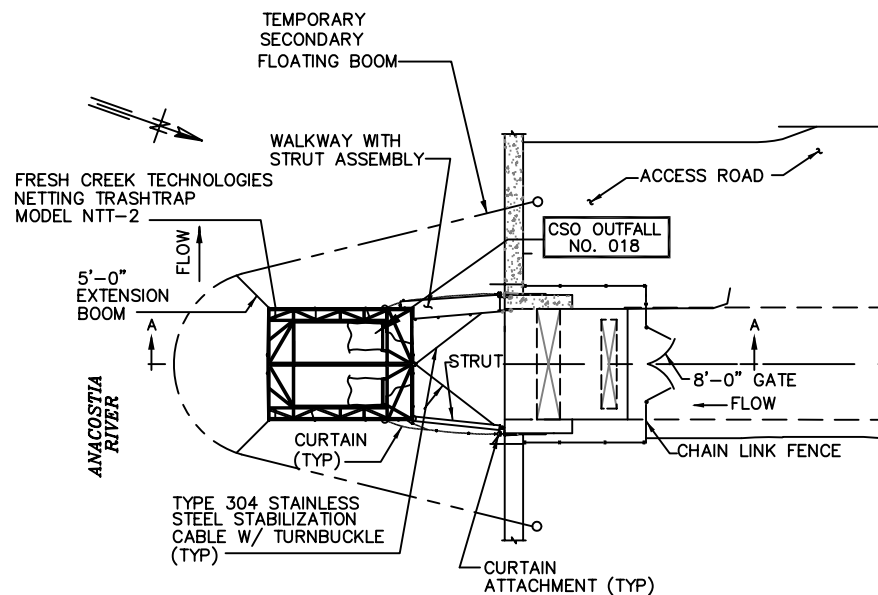
## **SITE PLAN**

SCALE: 1"=50'



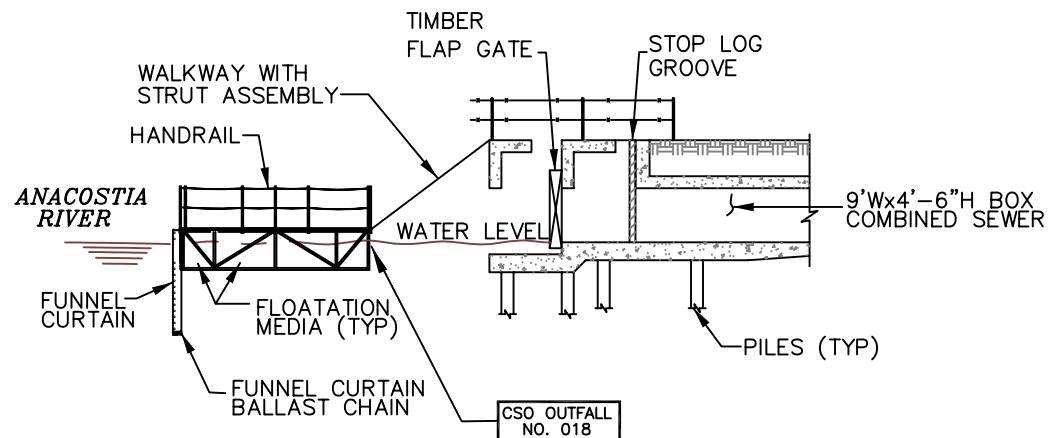
## **PHOTO**

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 OUTFALL TYPE: CSO



## **PLAN**

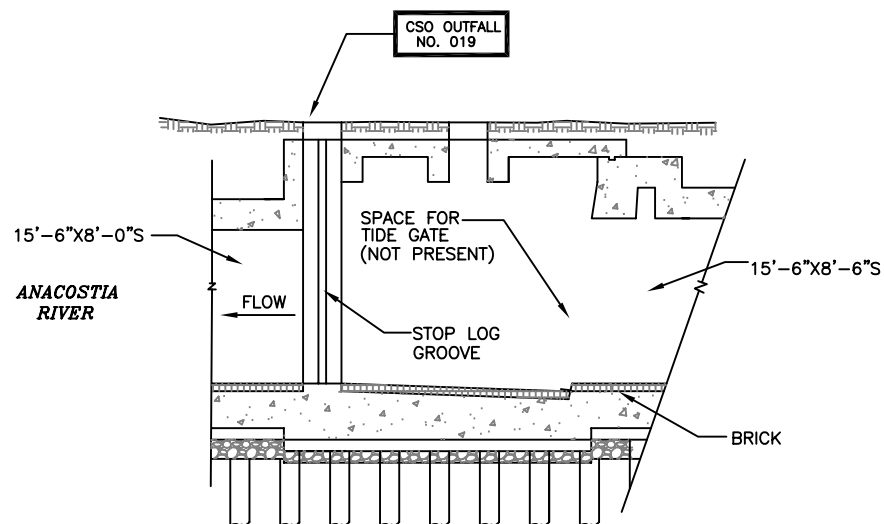
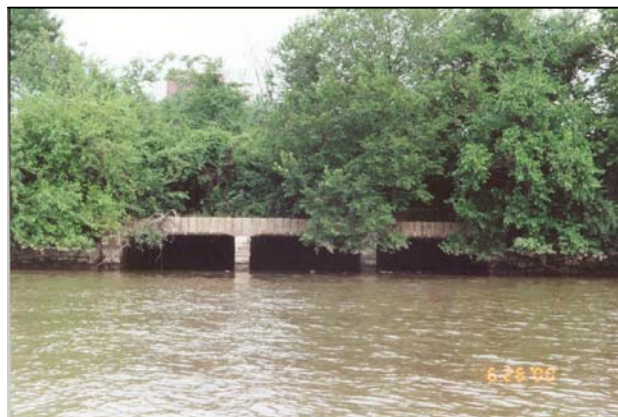
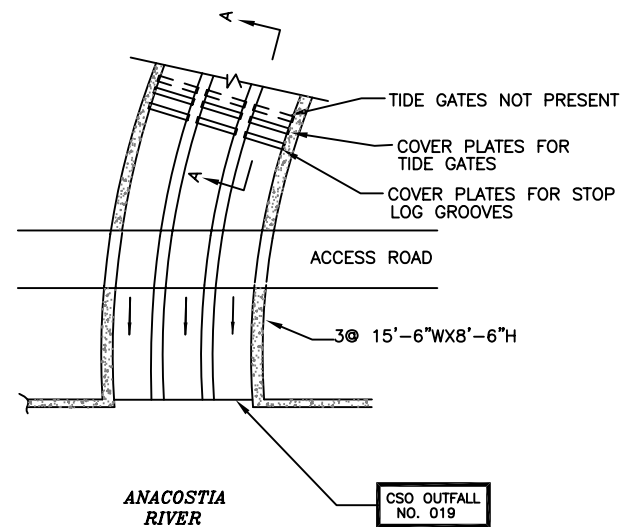
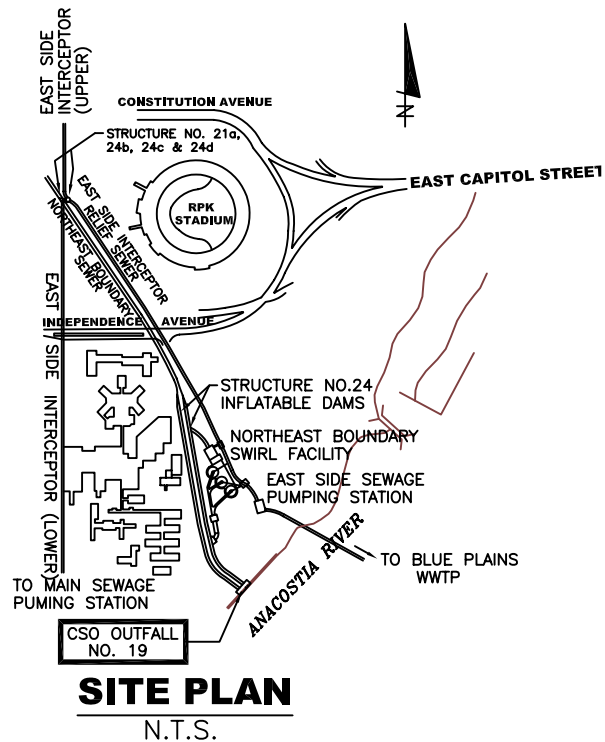
N.T.S.



## **SECTION A-A**

N.T.S.

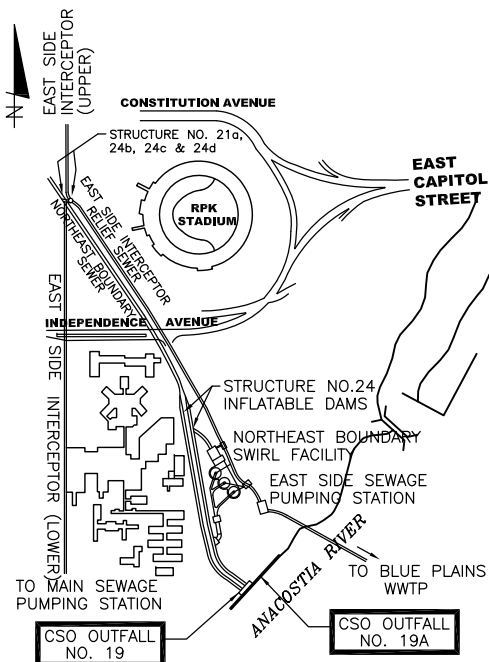
NPDES NO.  
018



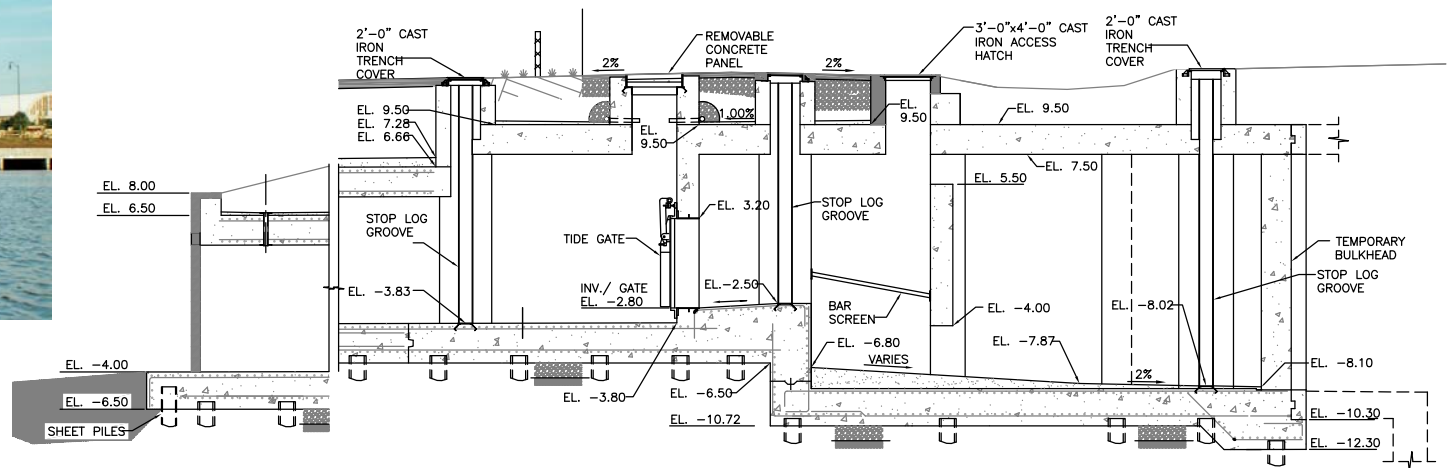
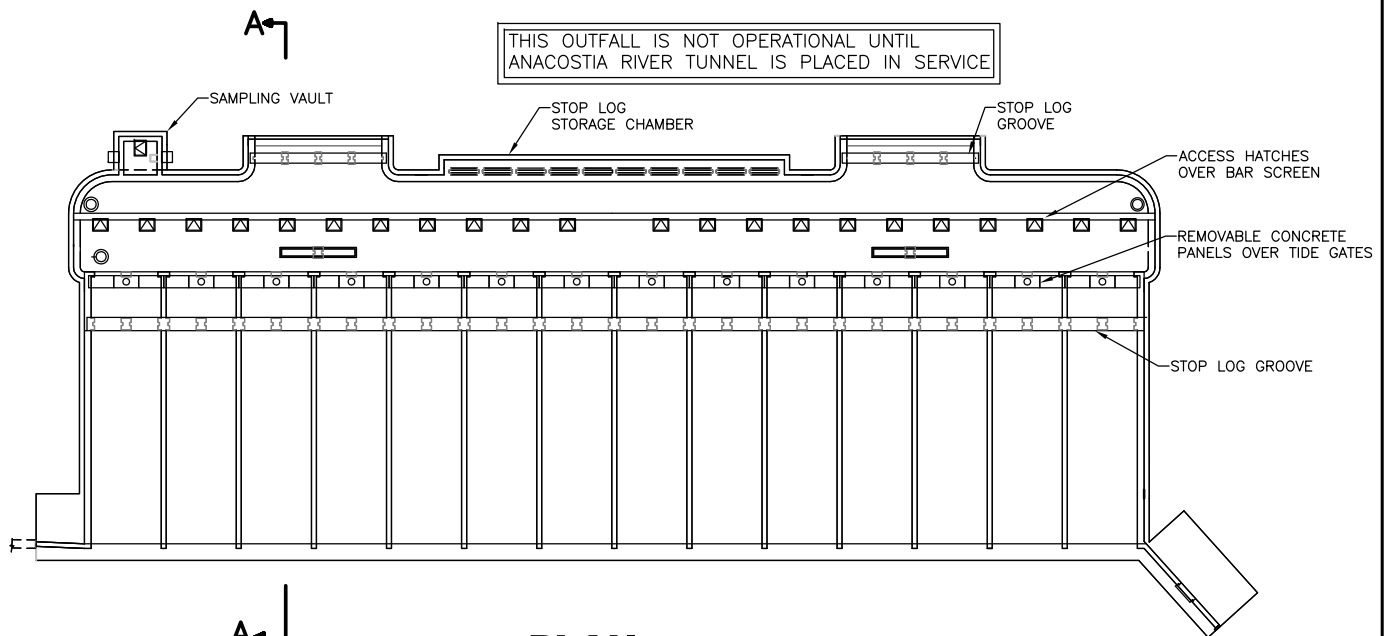
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
019



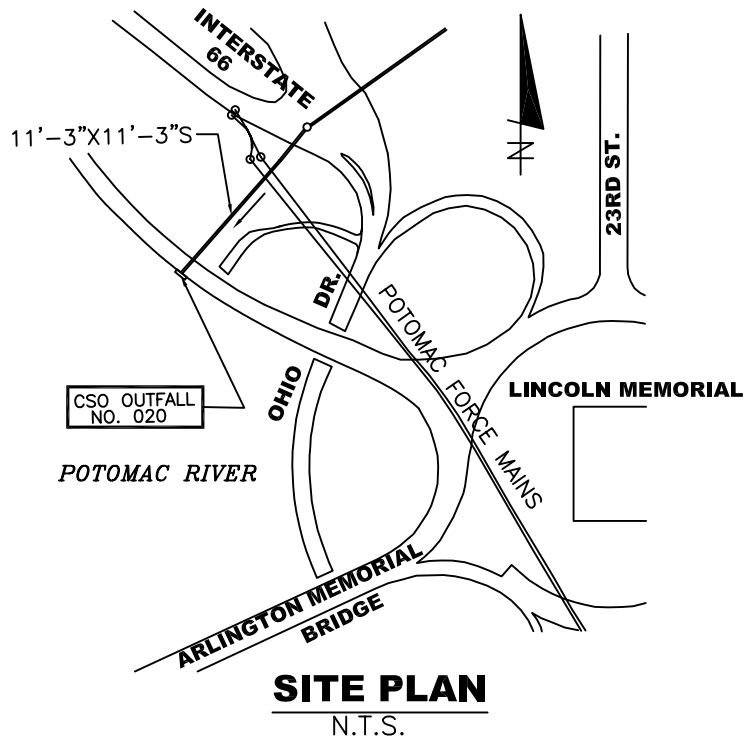


**PHOTO**



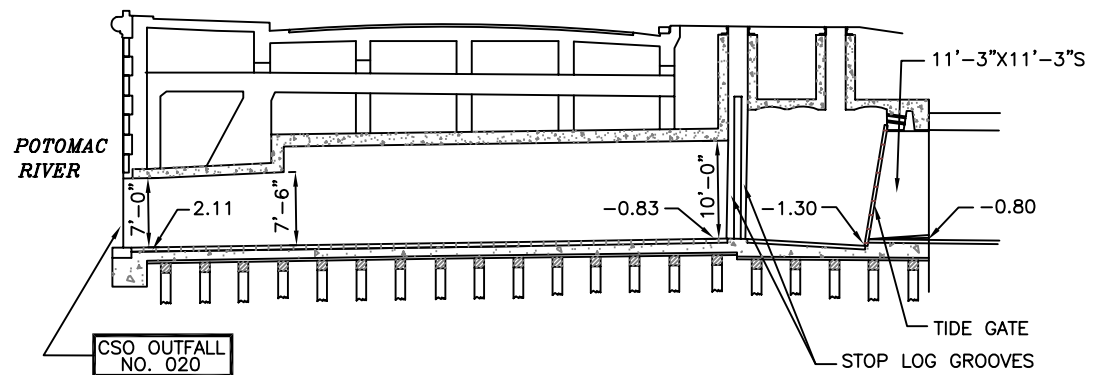
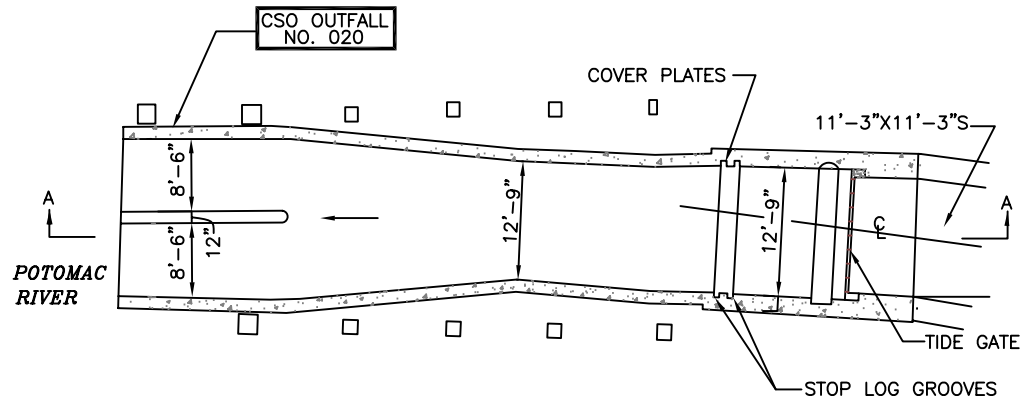
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2016  
OUTFALL TYPE: CSO

NPDES NO.  
019A



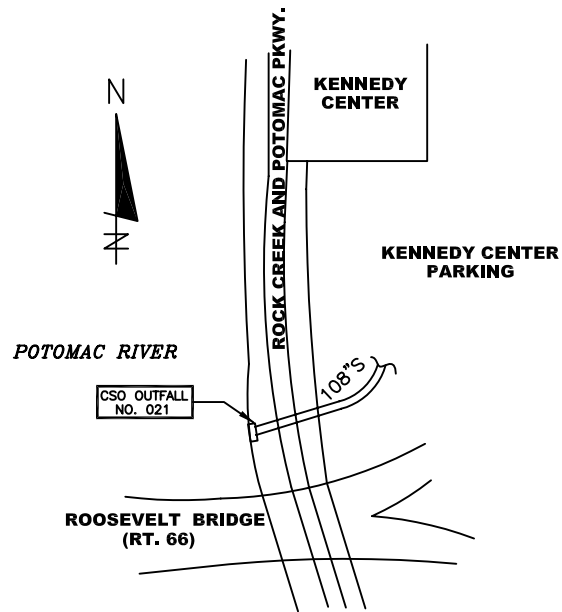
**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

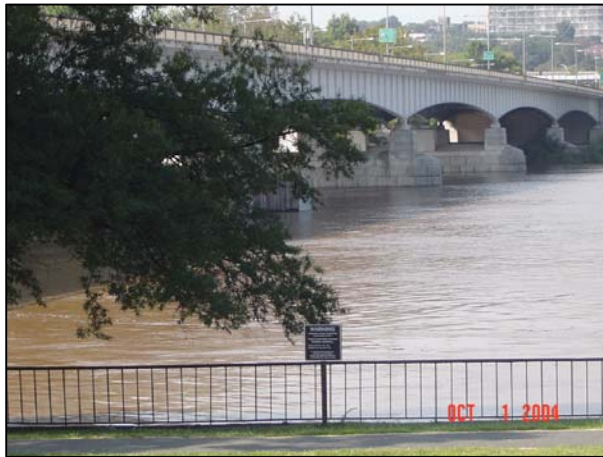


NPDES NO.  
020

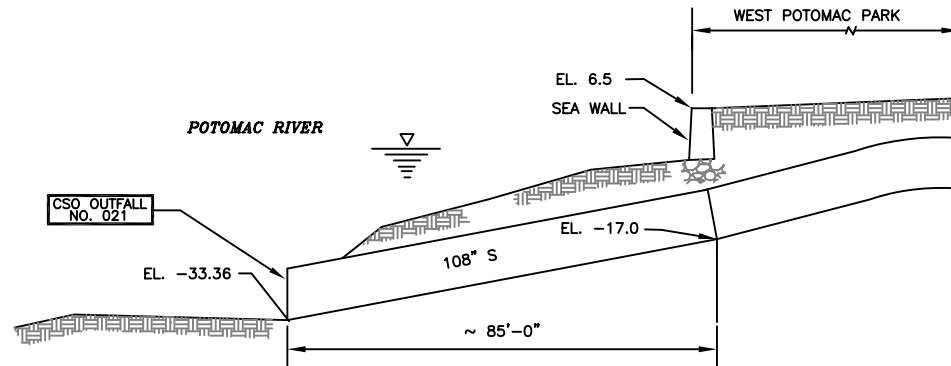




**SITE PLAN**  
N.T.S.



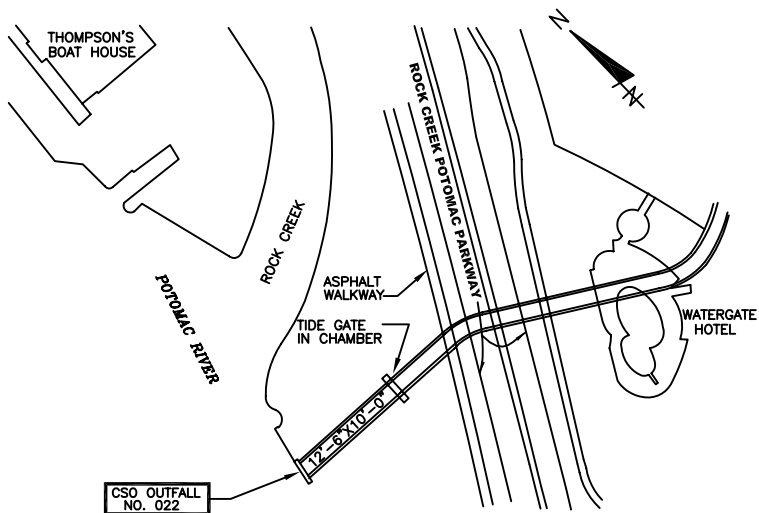
**PHOTO**



**PROFILE**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

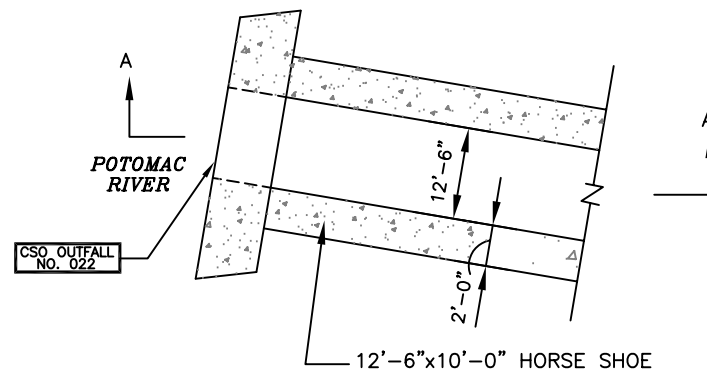
NPDES NO.  
021



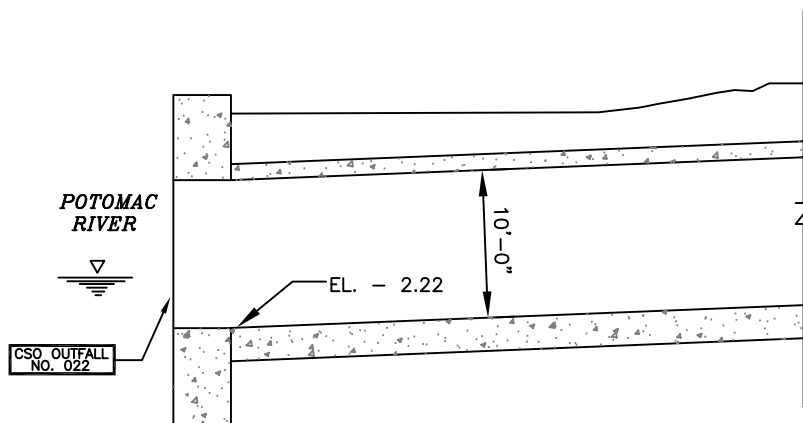
**SITE PLAN**  
N.T.S.



**PHOTO**



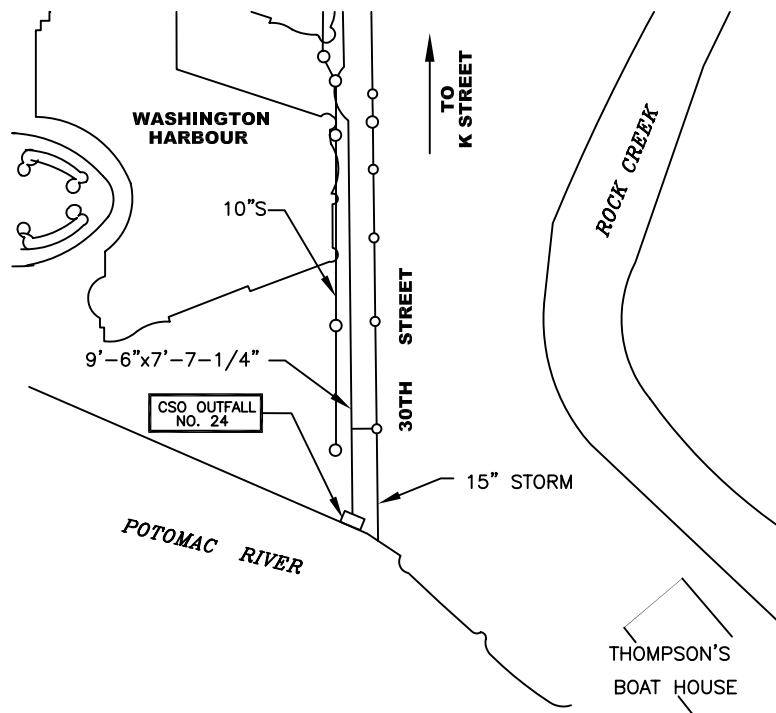
**PLAN**  
N.T.S.



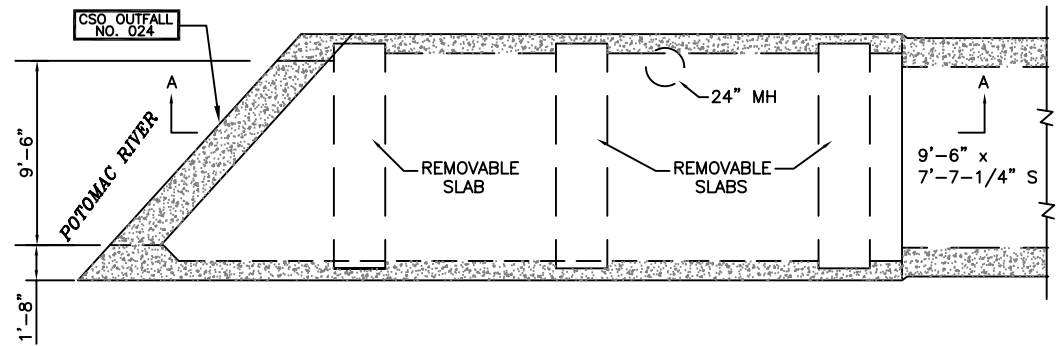
**SECTION A-A**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
022



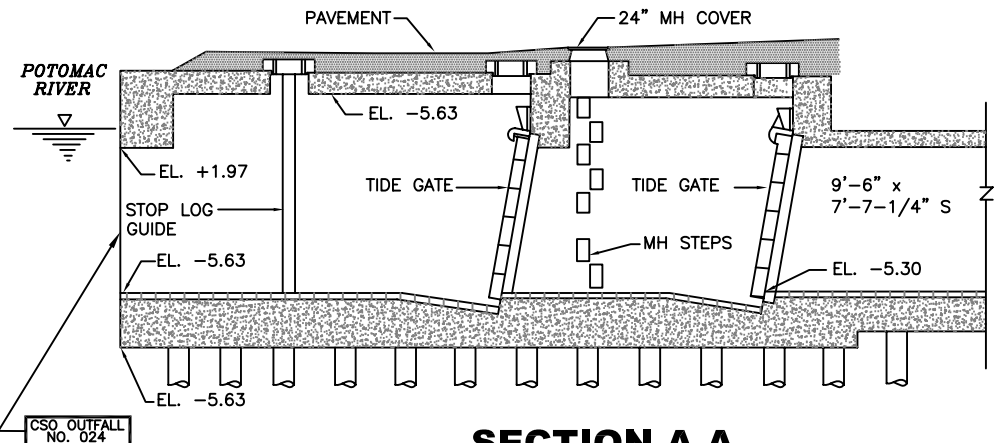
**SITE PLAN**  
SCALE: 1"=300'



**PLAN**  
SCALE: 1"=10'



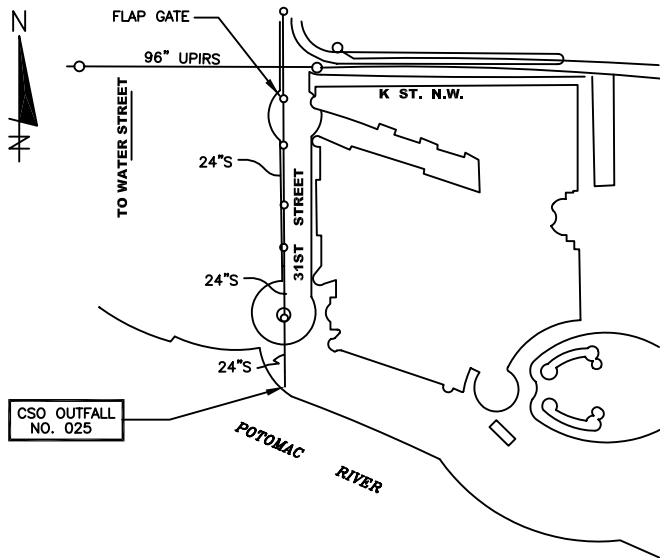
**PHOTO**



**SECTION A-A**  
SCALE: 1"=10'

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
024



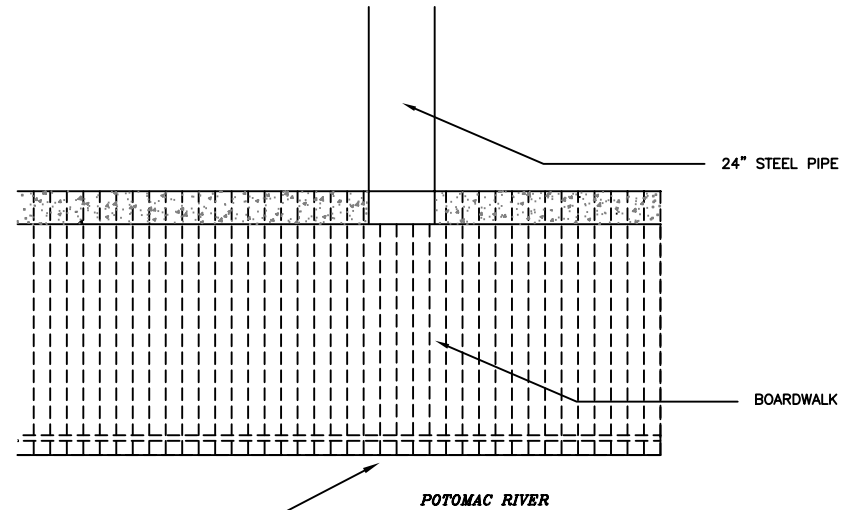
## SITE PLAN

SCALE: 1"=200'



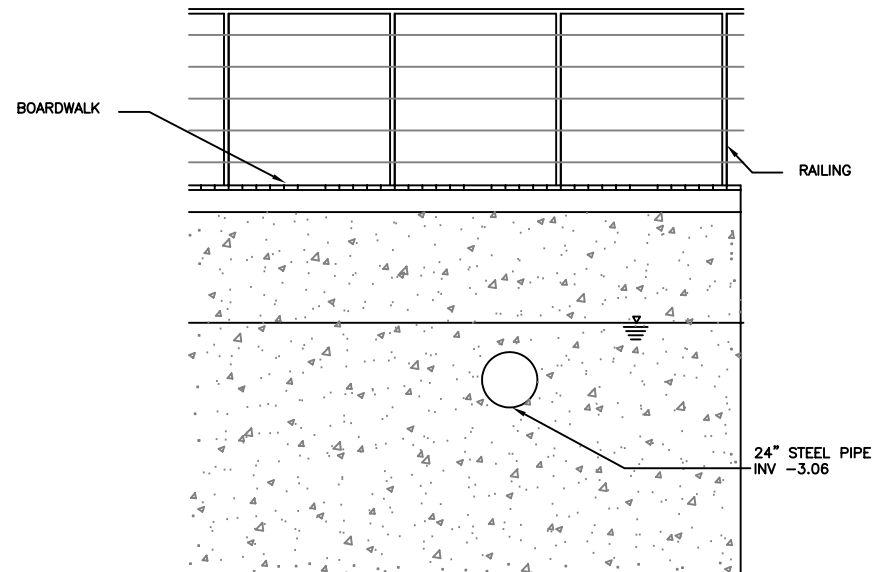
## PHOTO

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



## PLAN

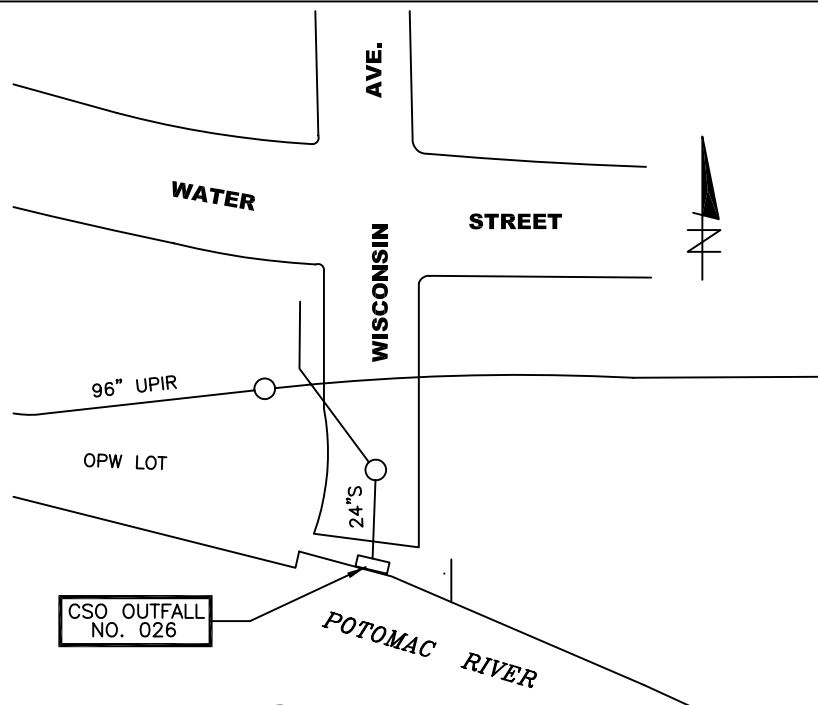
N.T.S.



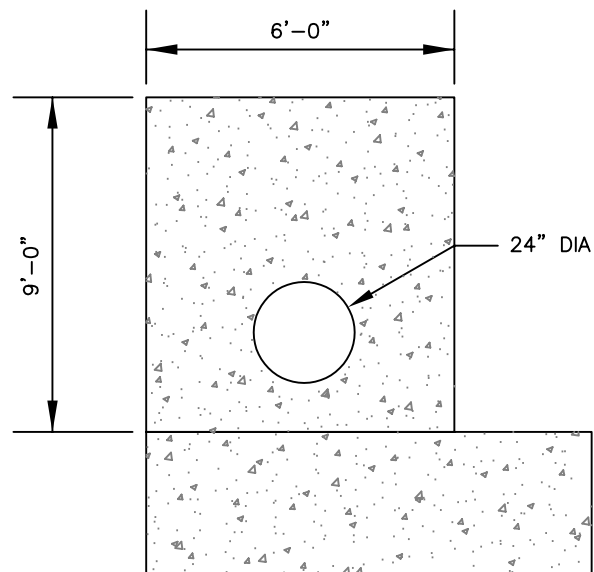
## FRONT VIEW

N.T.S.

NPDES NO.  
025



**SITE PLAN**  
SCALE: 1"=200'



**FRONT VIEW**  
N.T.S.

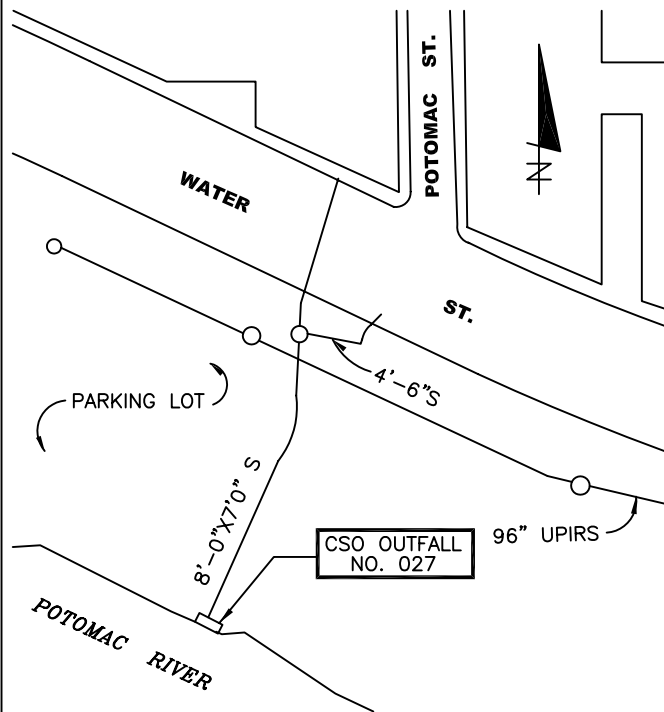


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
026



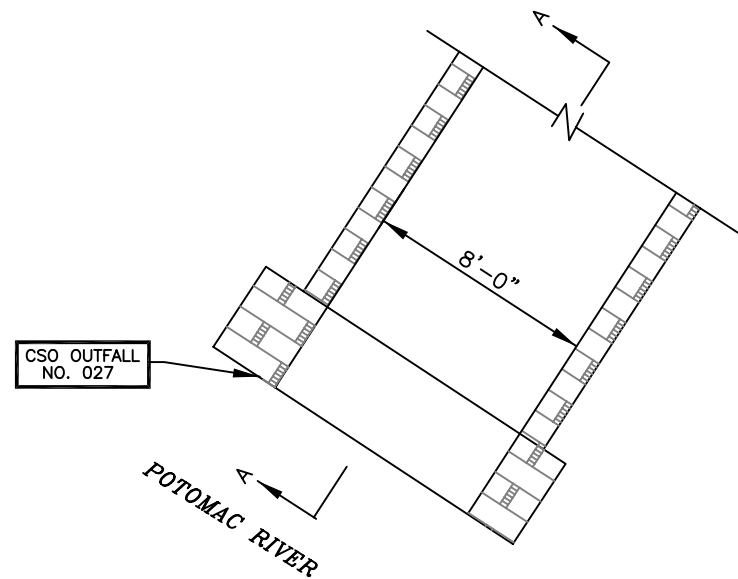


**SITE PLAN**  
SCALE: 1"=200'

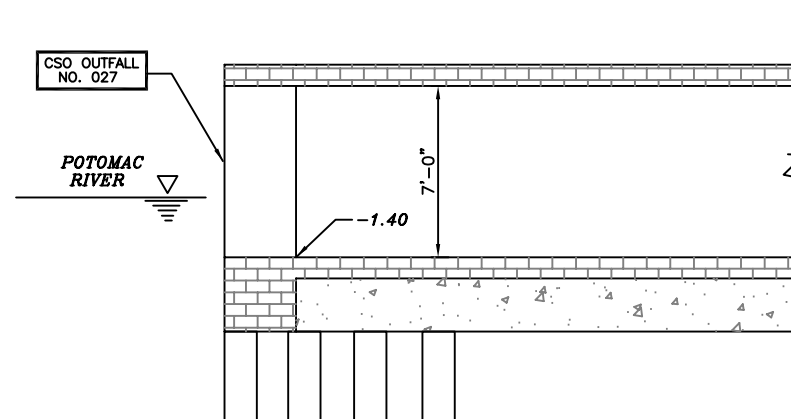


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



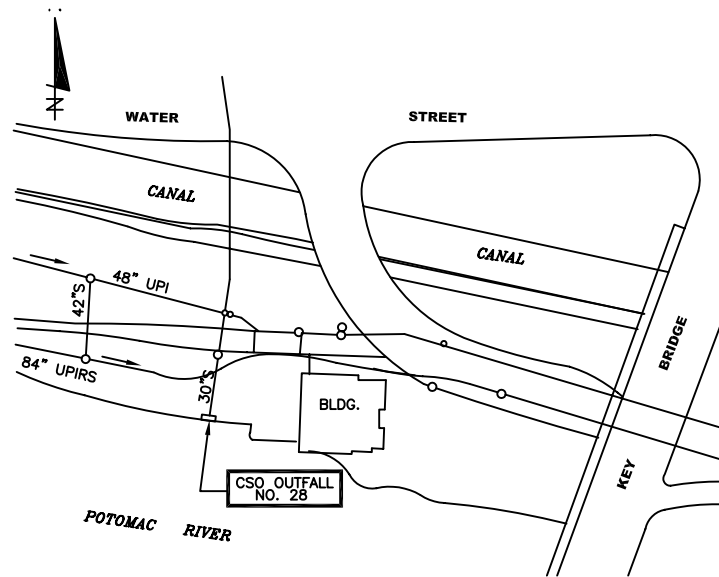
**PLAN**  
N.T.S.



**SECTION A-A**  
N.T.S.

NPDES NO.  
027

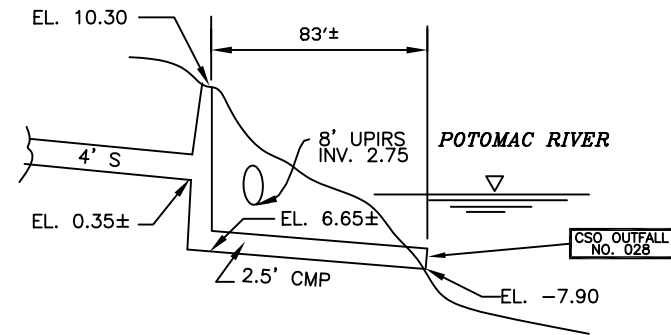
FILE: J:\1163\WASTPLAN\TECH\_MEM\STRUCTURE\_BOOK\OUTFALLS\NPDES-028



**SITE PLAN**  
SCALE: 1"=100'



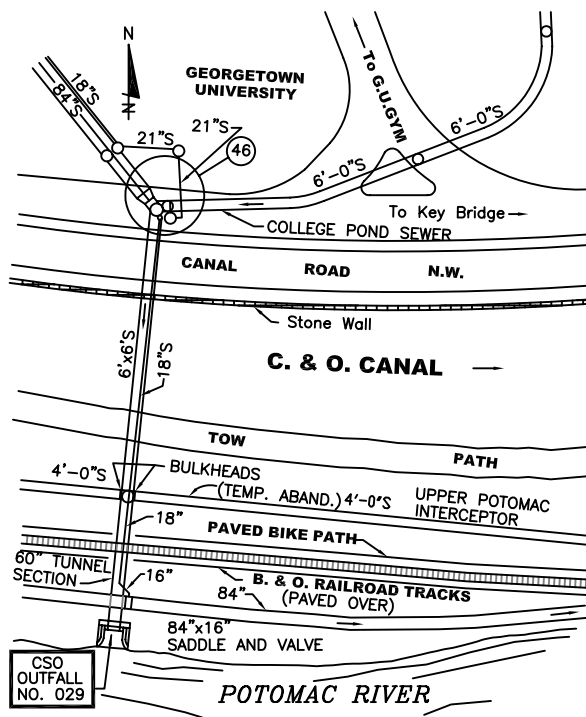
**PHOTO**



**SECTION**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
028



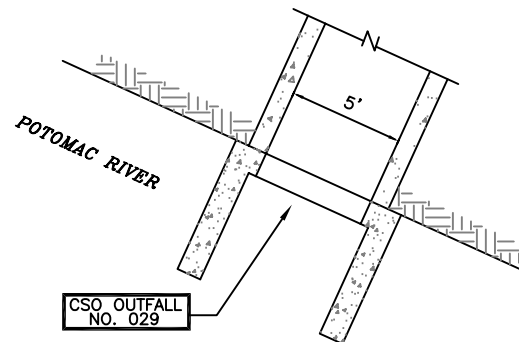
## SITE PLAN

SCALE: 1"=100'



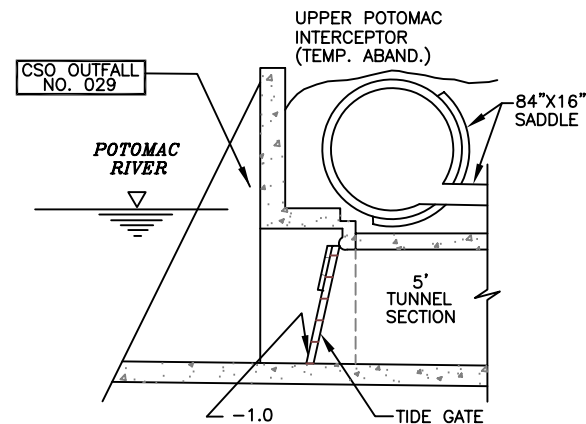
## PHOTO

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



## PLAN

N.T.S.

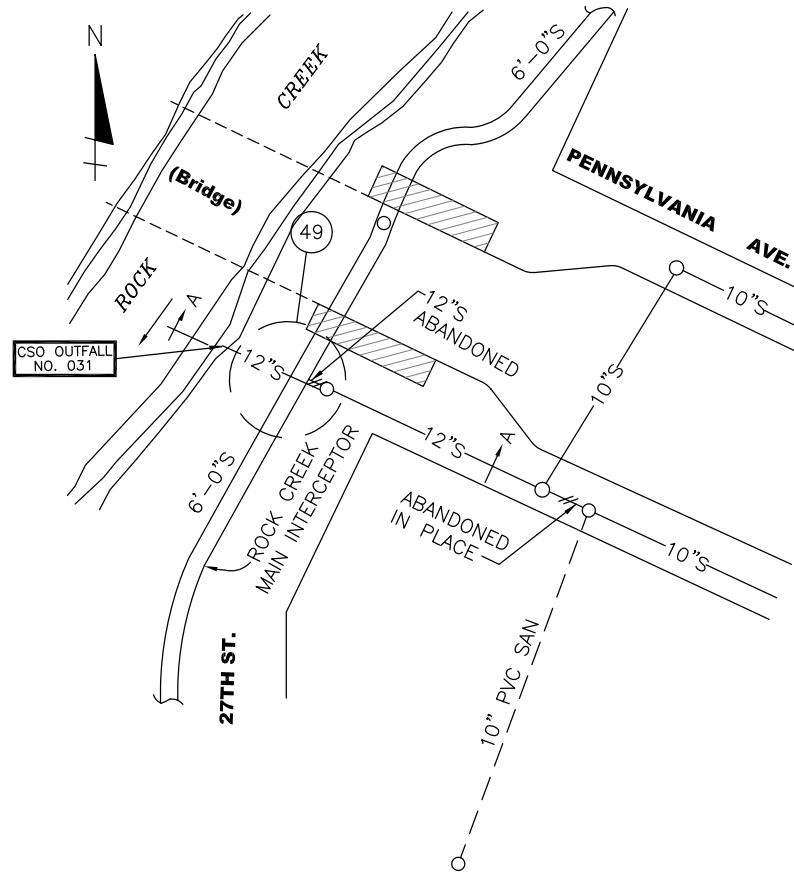


## SECTION

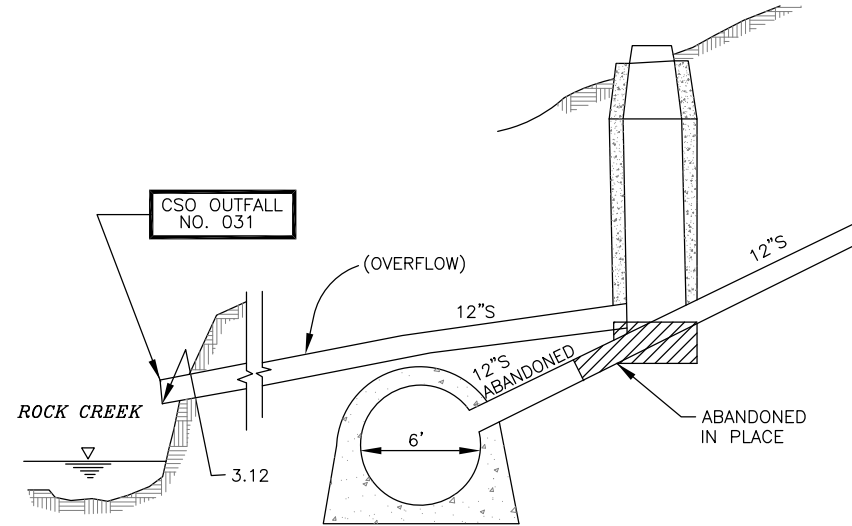
N.T.S.

NPDES NO.  
029





**SITE PLAN**  
SCALE: 1"=80'



**SECTION A-A**  
N.T.S.

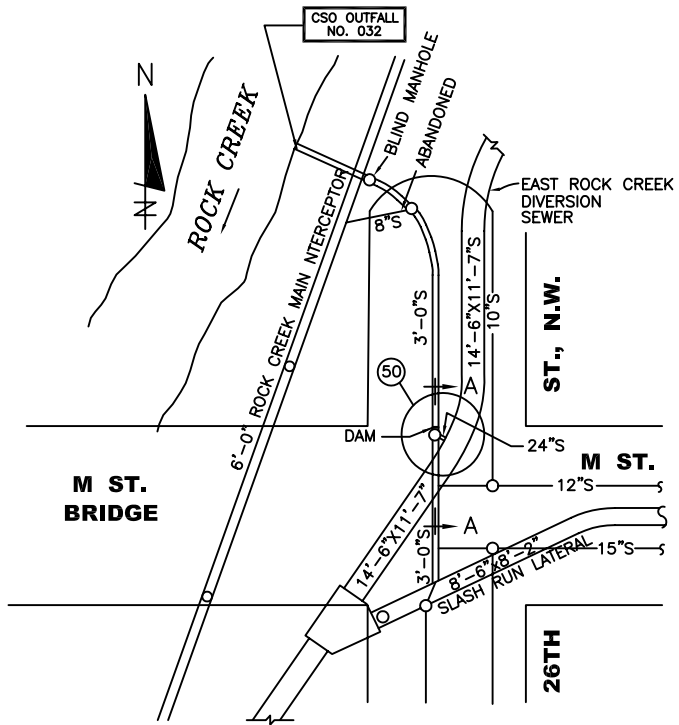


**PHOTO**

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2015  
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO  
A SEPARATE STORM SEWER OUTFALL.

NPDES NO.  
031

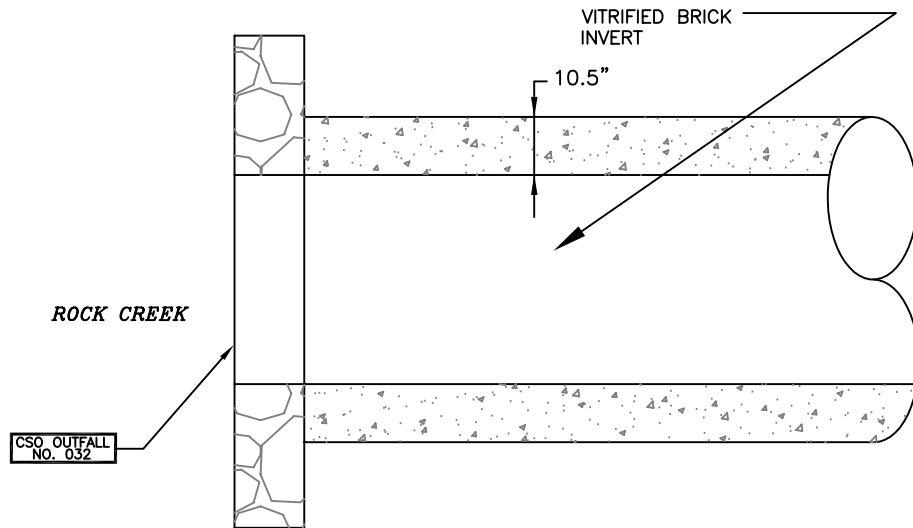


**SITE PLAN**

SCALE: 1"=100'

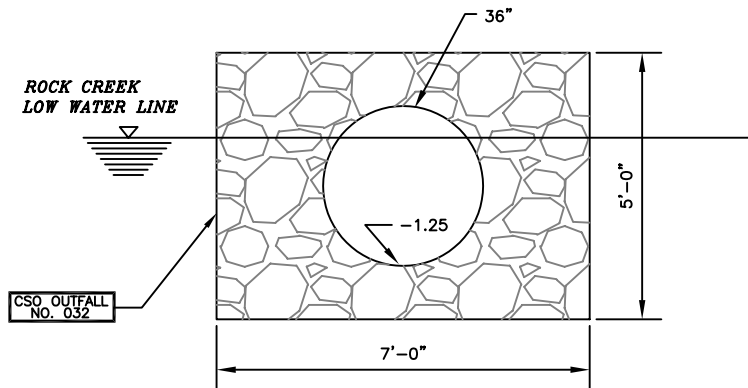


**PHOTO**



**PLAN**

N.T.S.



**FRONT VIEW**

N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
032

ROCK CREEK

A

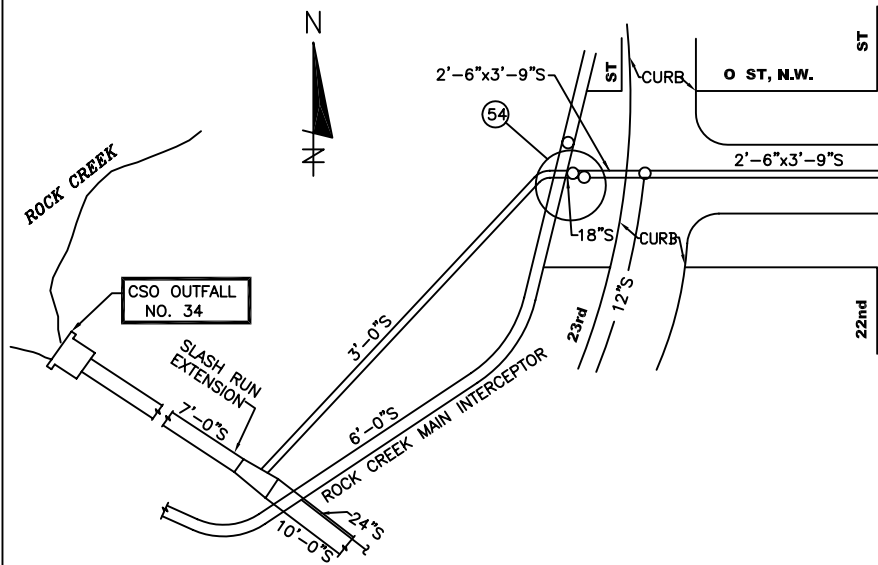
24" MH

24" V.C. PIPE

CSO OUTFALL NO. 001

A

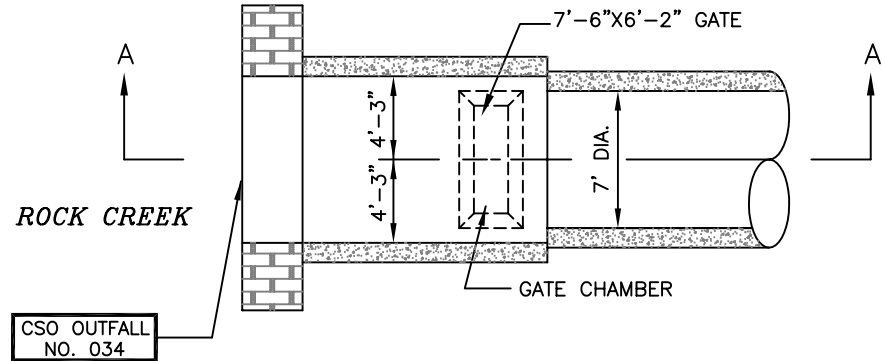
[illegible]NPDES NO.  
033



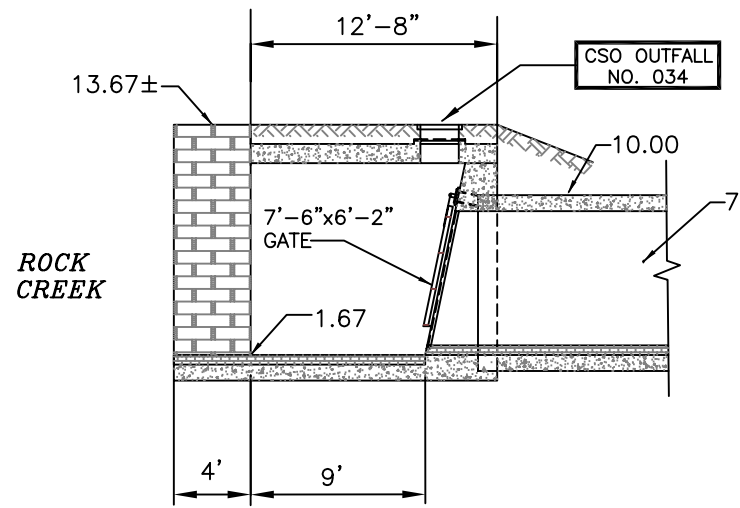
**SITE PLAN**  
SCALE: 1"=100'



**PHOTO**



**PLAN**  
N.T.S.

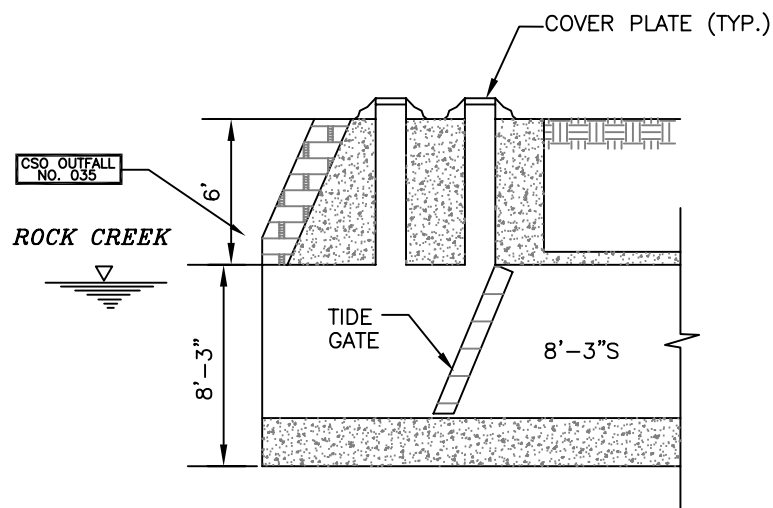
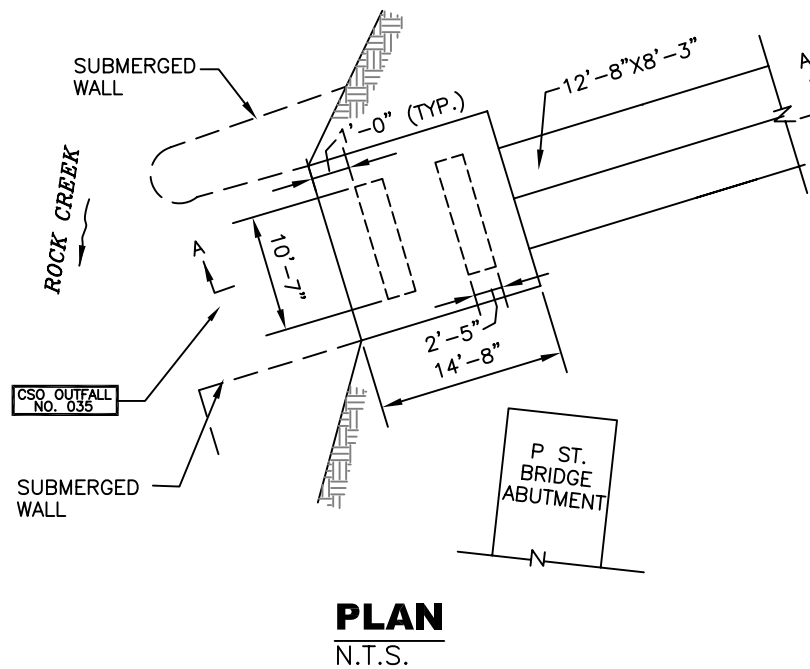
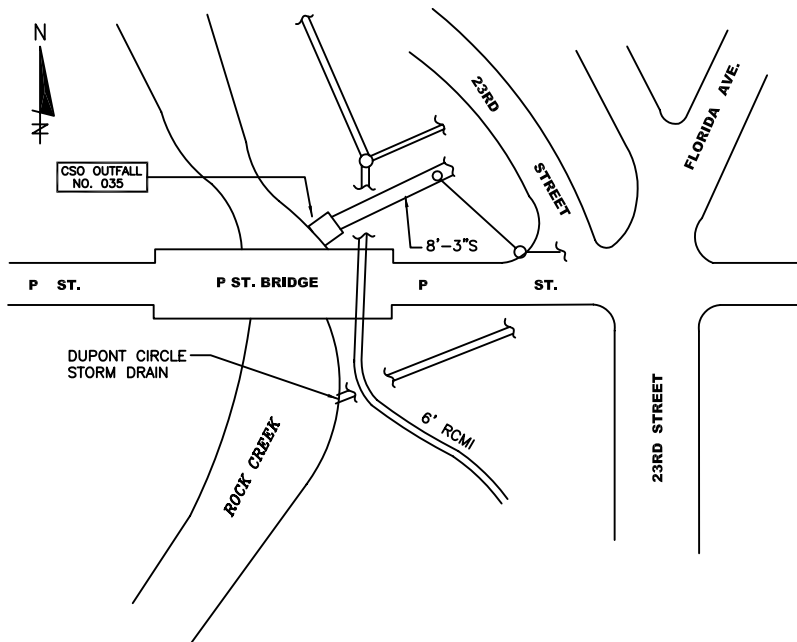


**SECTION A-A**  
N.T.S.

NPDES NO.  
034

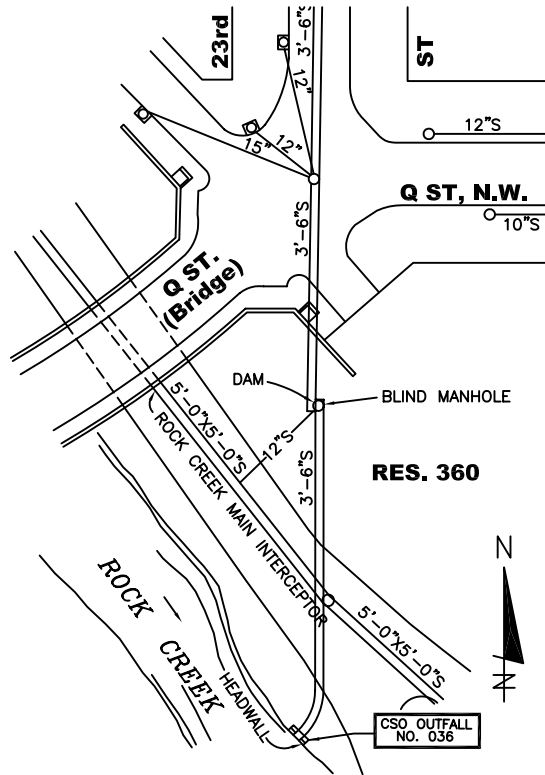
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



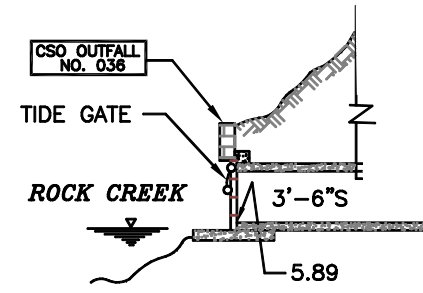


REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
035



**SITE PLAN**  
SCALE: 1"=100'



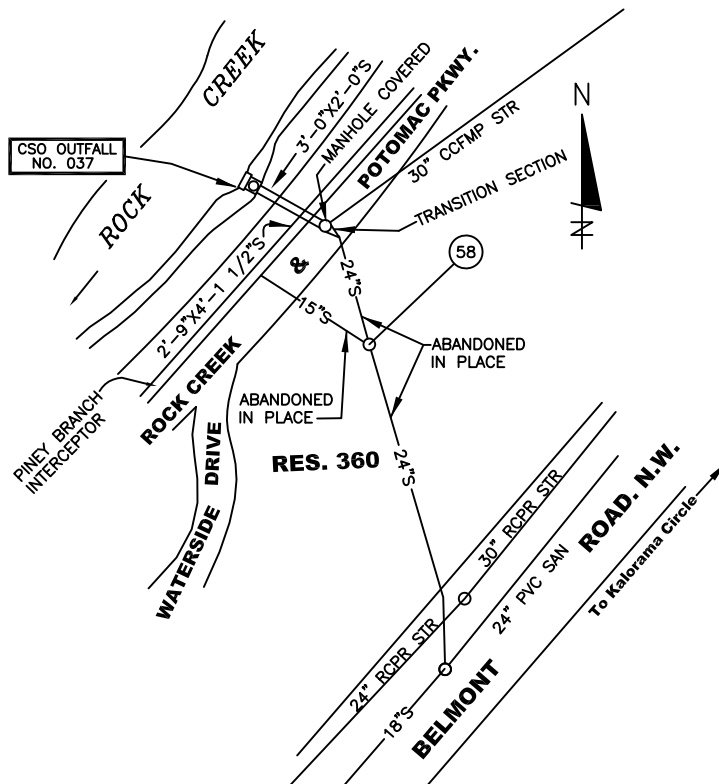
**PROFILE**  
N.T.S.



**PHOTO**

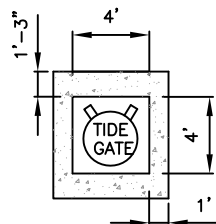
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
036



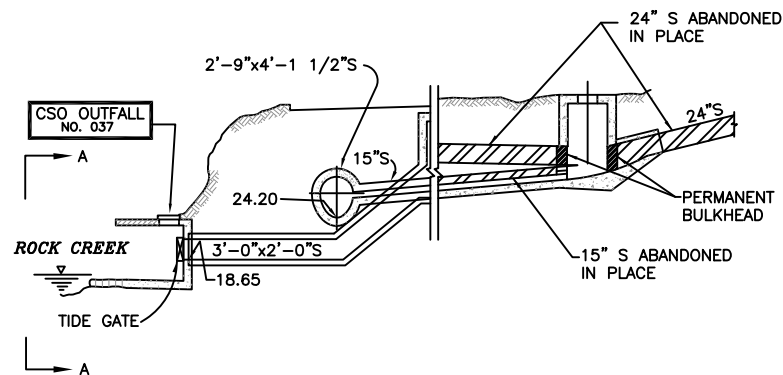
## SITE PLAN

SCALE: 1"=100'



## SECTION A-A

N.T.S.



## PROFILE

N.T.S.

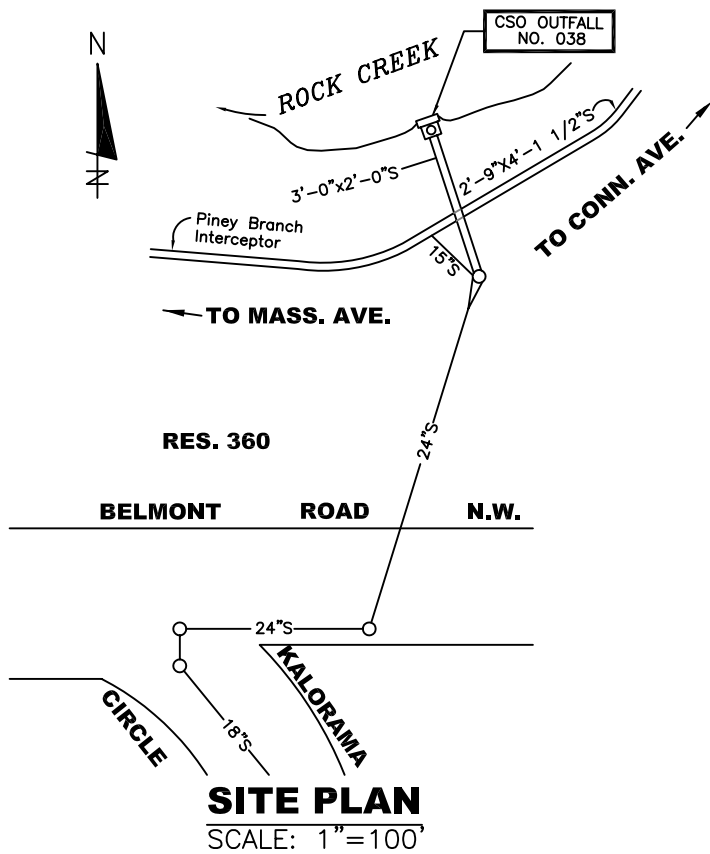


## PHOTO

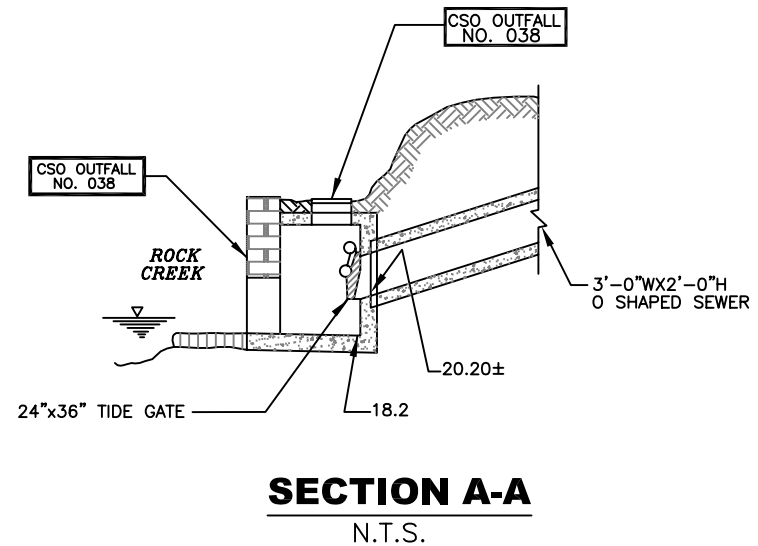
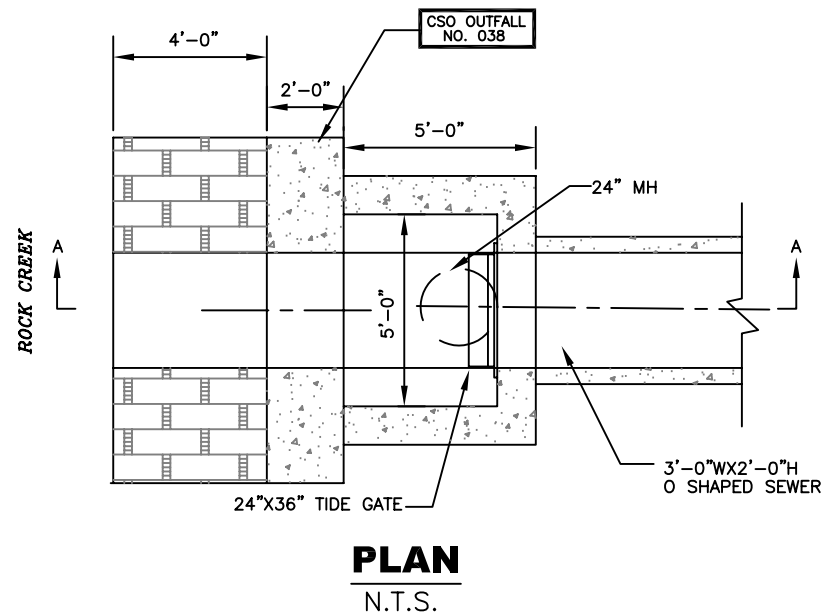
REVISED BY: PROGRAM CONSULTANS ORGANIZATION  
REVISED DATE: FEBRUARY 2012  
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO  
A SEPARATE STORM SEWER OUTFALL.

NPDES NO.  
037



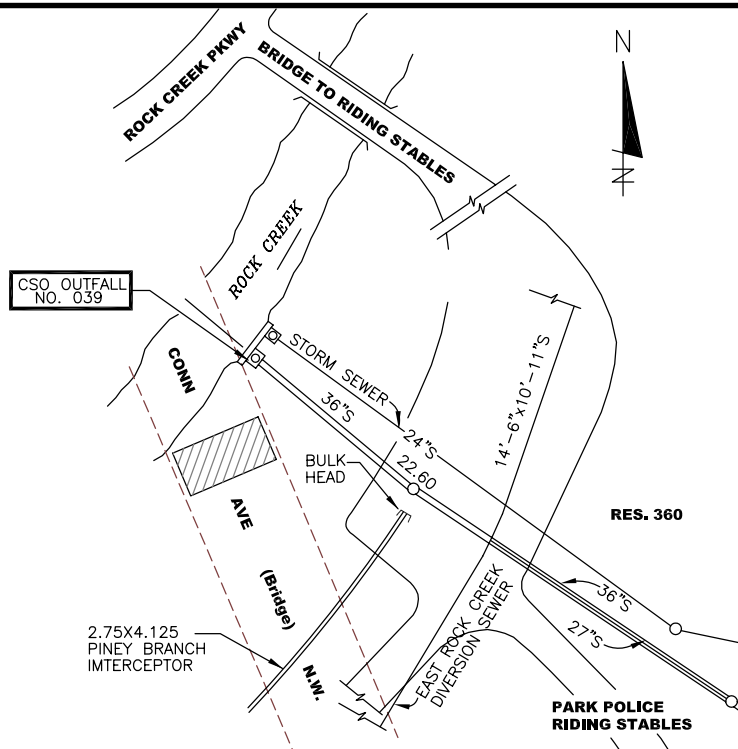
**PHOTO**



REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
038

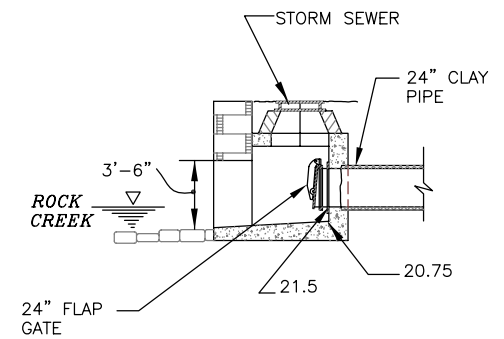
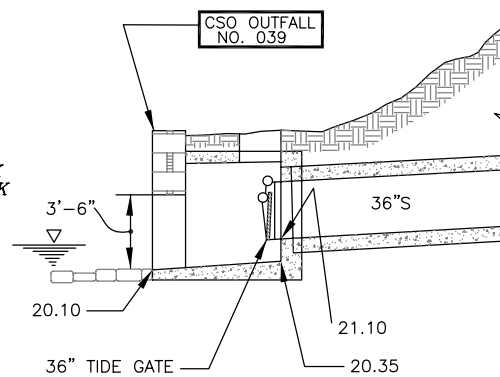
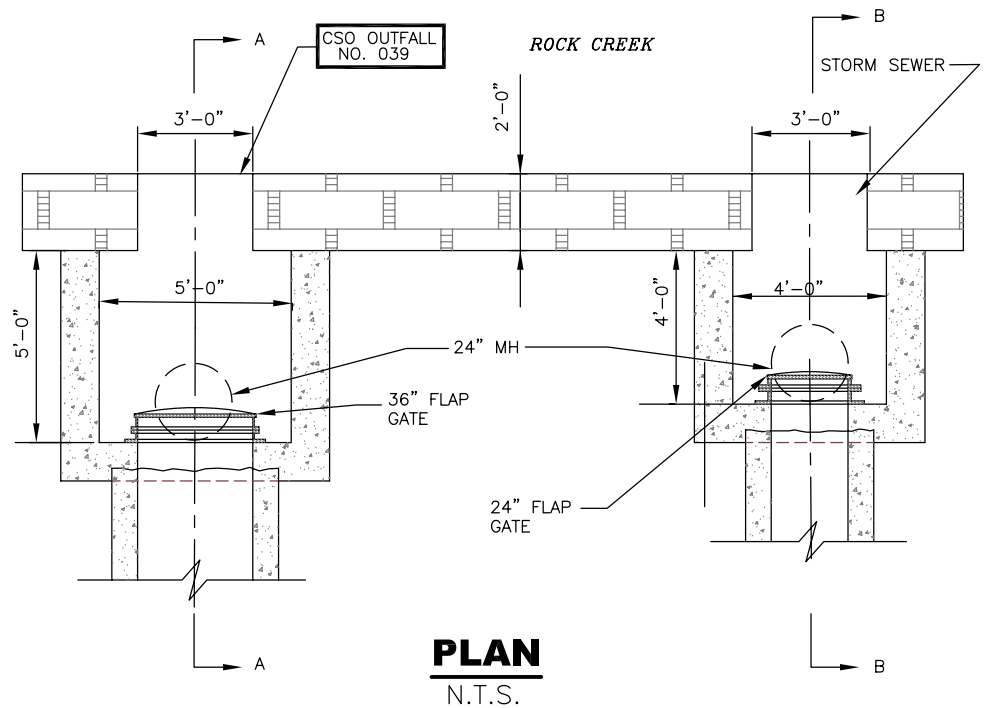




**PHOTO**

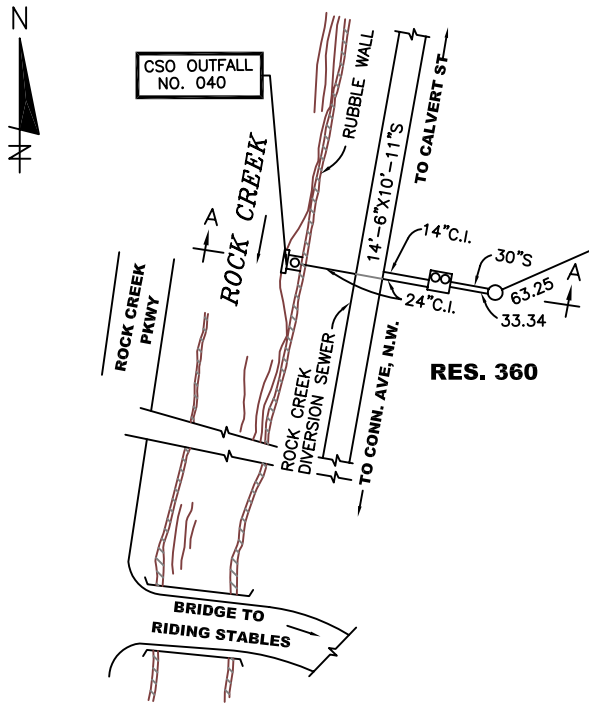
**CSO OUTFALL**

**STORM SEWER**



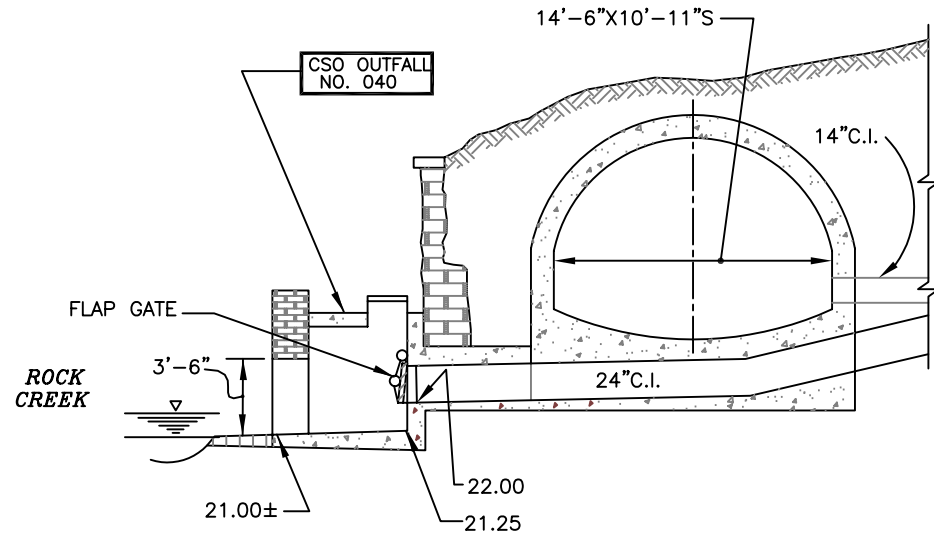
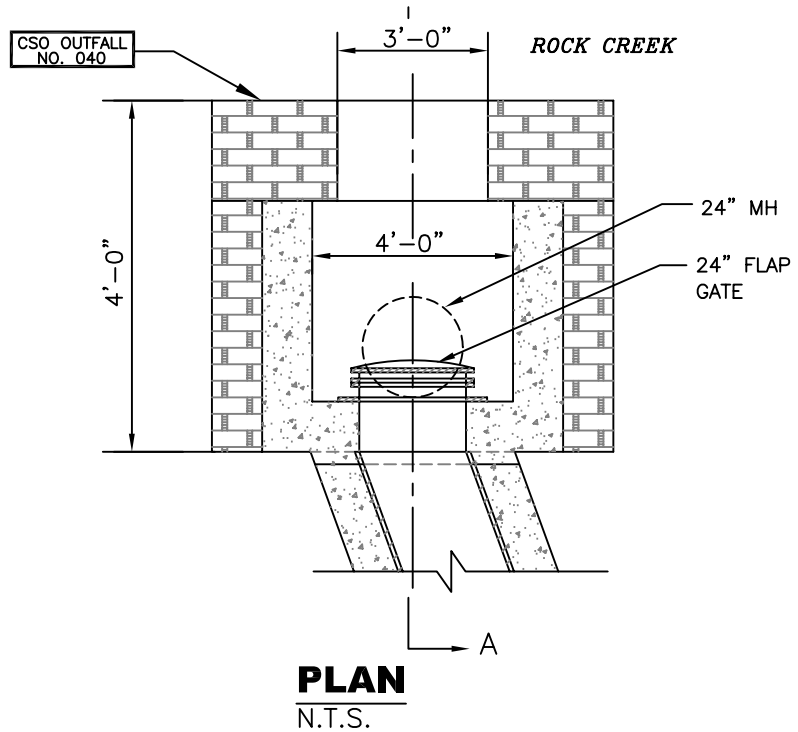
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
039

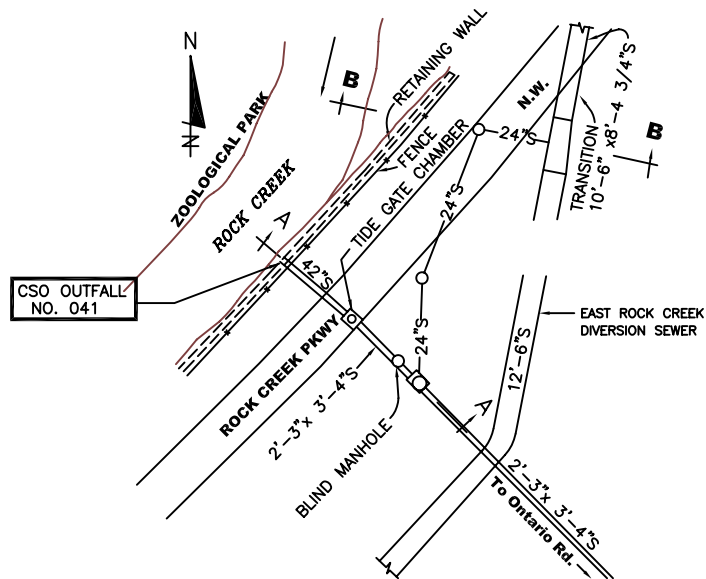


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



NPDES NO.  
040

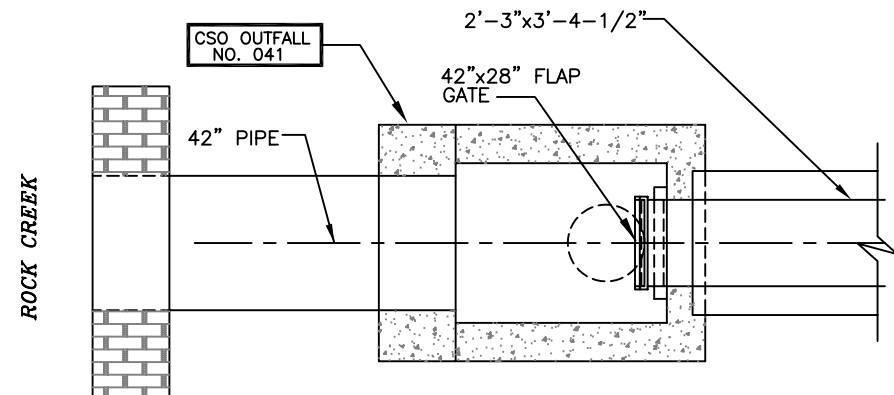


## SITE PLAN

SCALE: 1"=100'

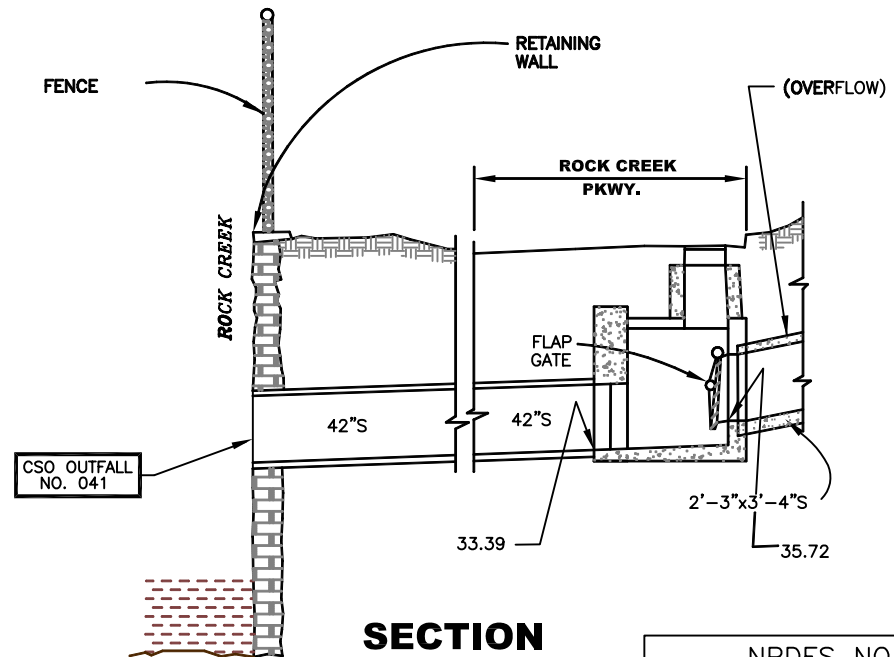


## PHOTO



## PLAN

N.T.S.

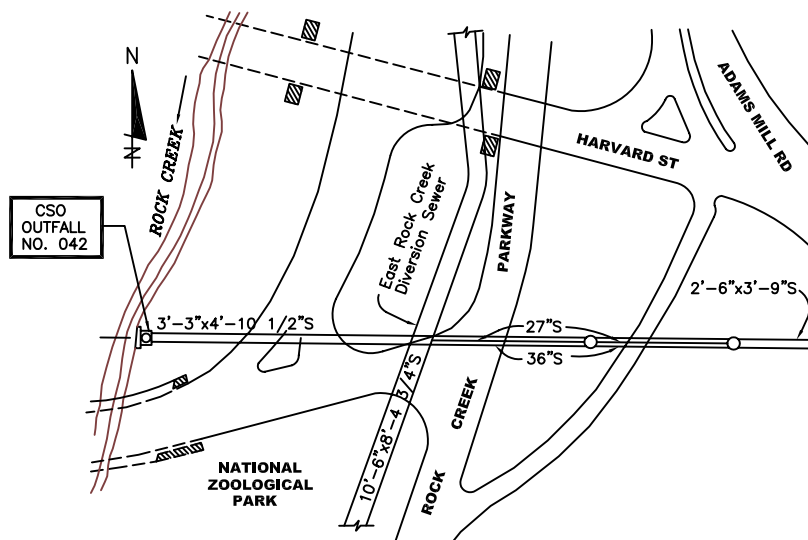


## SECTION

N.T.S.

NPDES NO.  
041

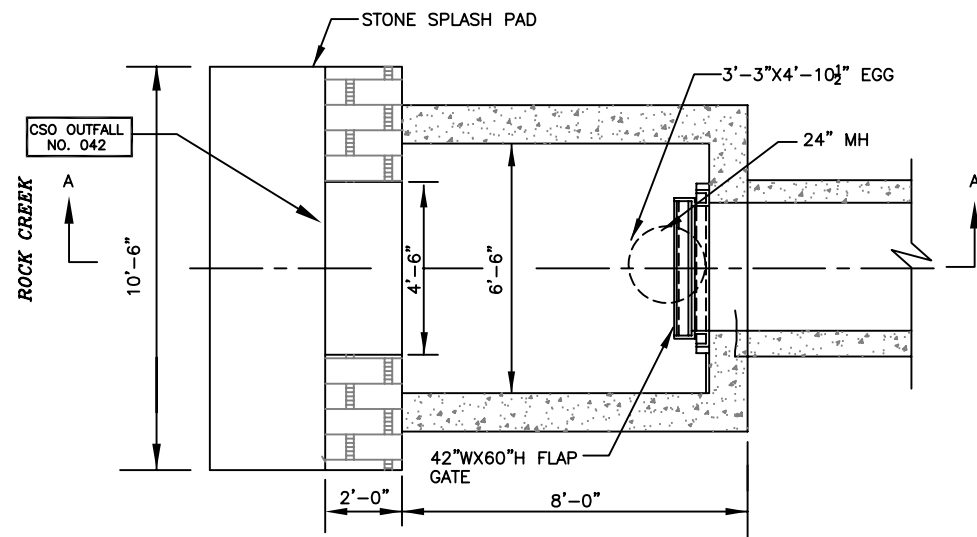
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



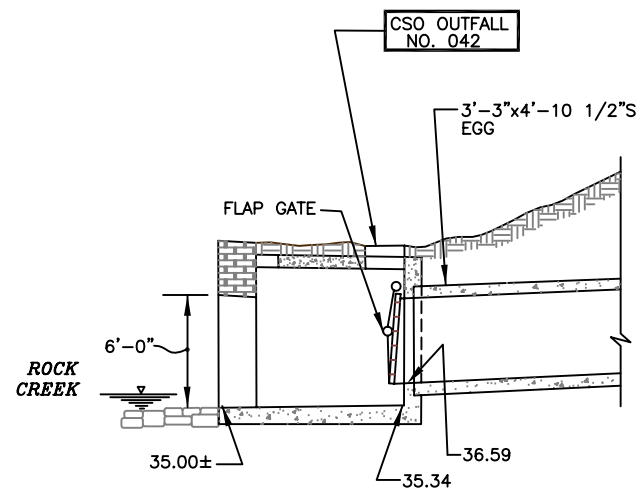
**SITE PLAN**  
SCALE: 1"=100'



**PHOTO**



**PLAN**  
N.T.S.

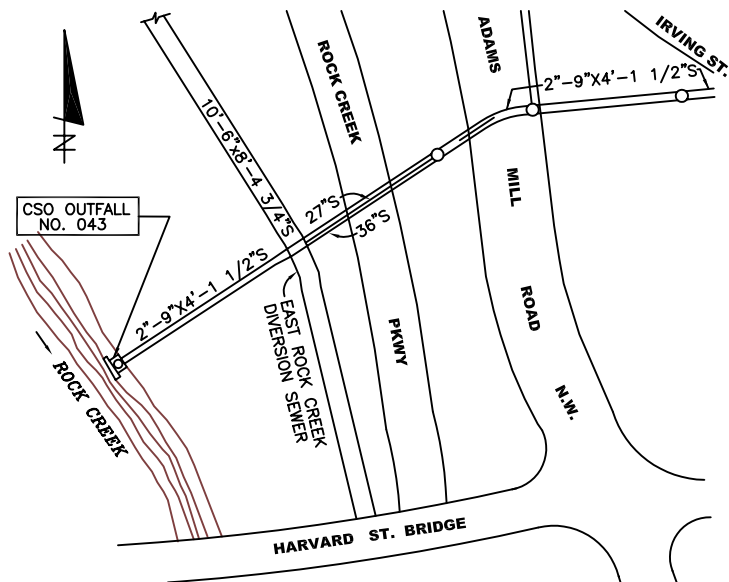


**SECTION A-A**  
N.T.S.

NPDES NO.  
042

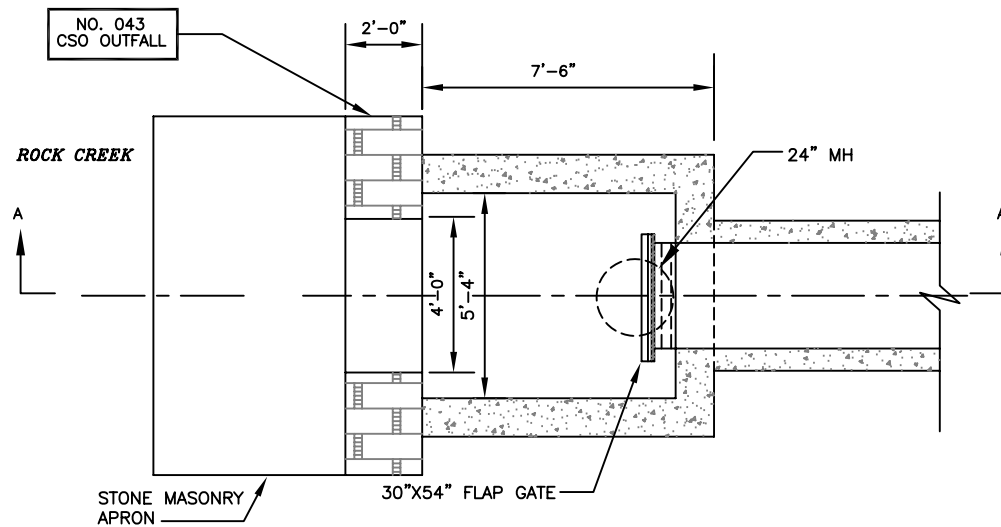
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO





**SITE PLAN**

N.T.S.

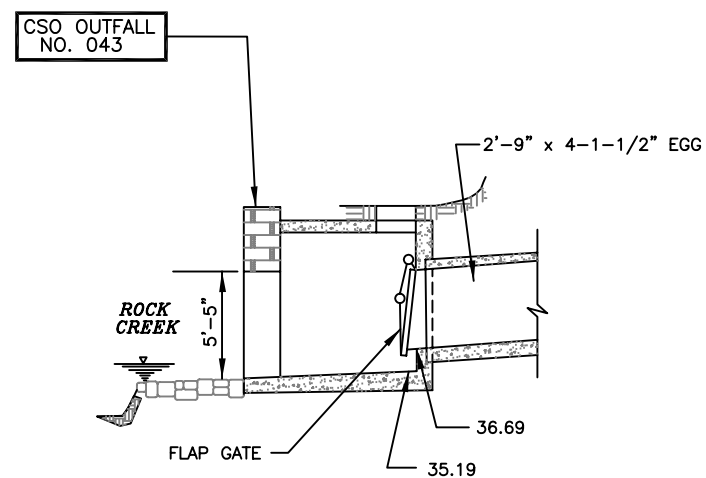


**PLAN**

N.T.S.



**PHOTO**



**SECTION A-A**

N.T.S.

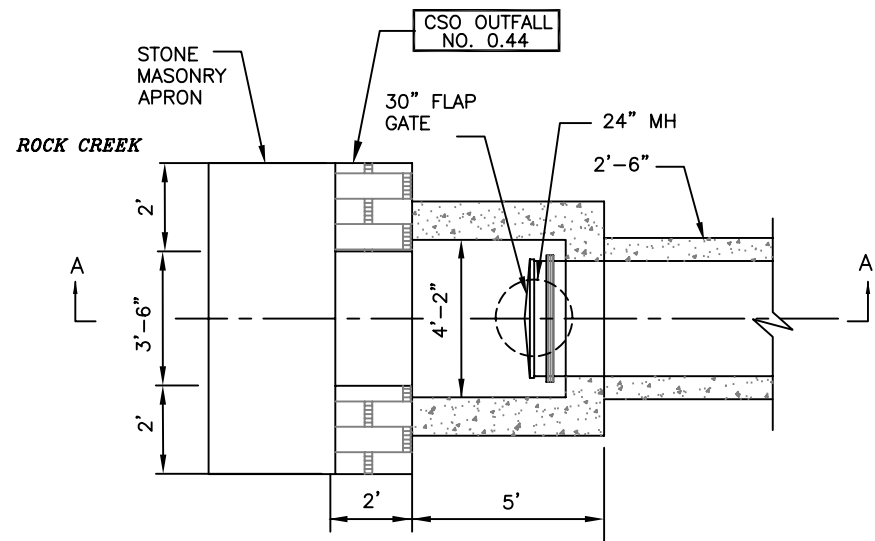
NPDES NO.  
043

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



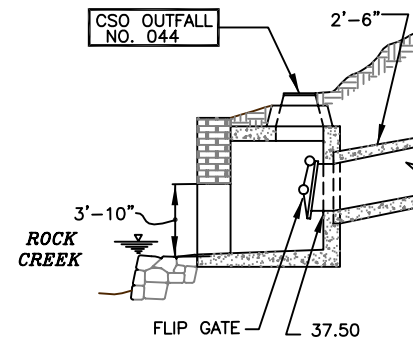
## PHOTO

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



## PLAN

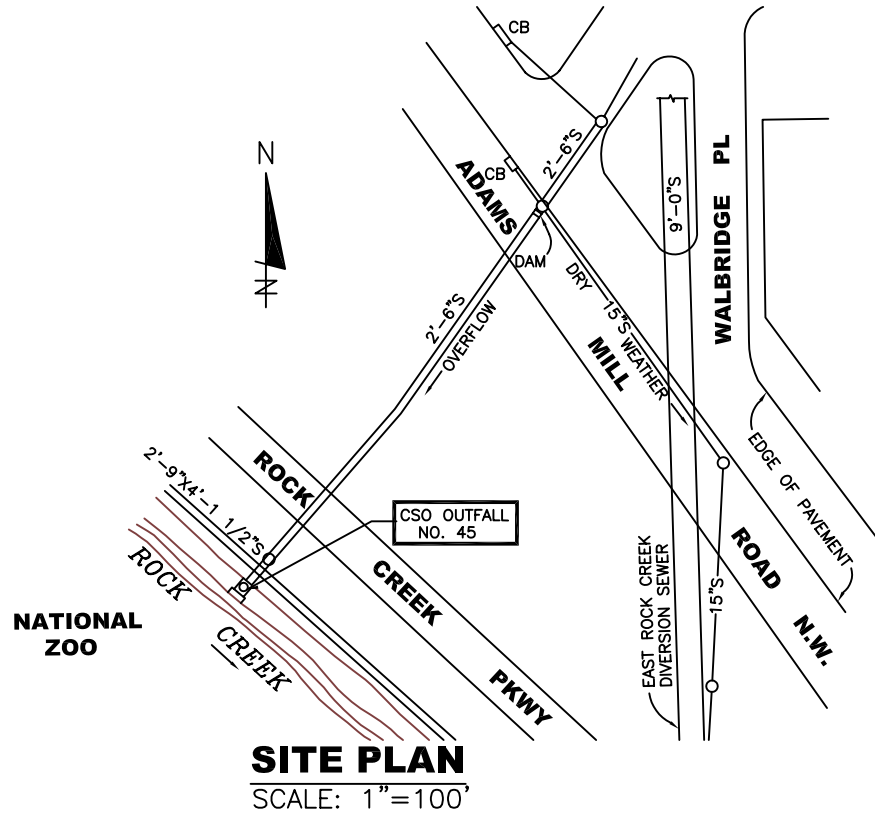
N.T.S.



## SECTION A-A

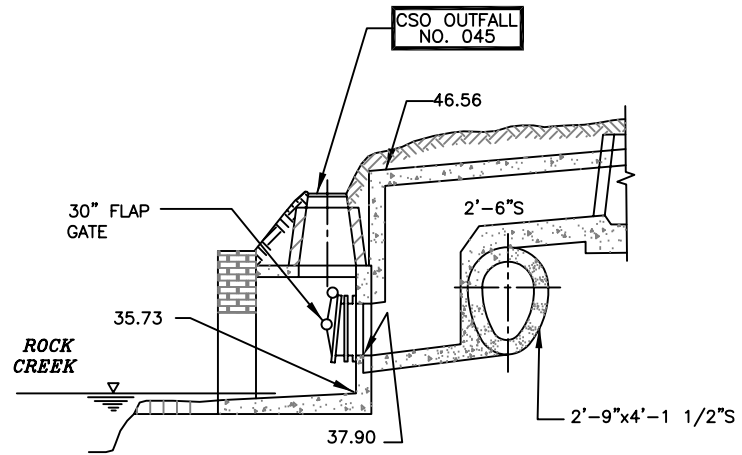
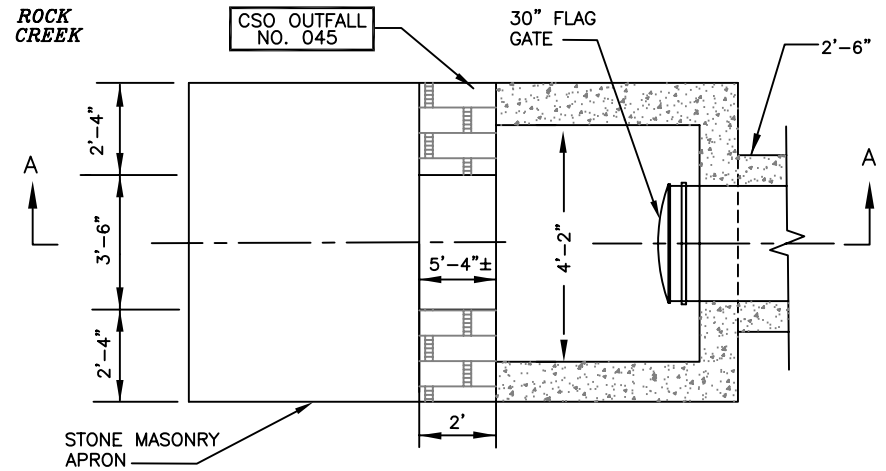
N.T.S.

NPDES NO.  
044



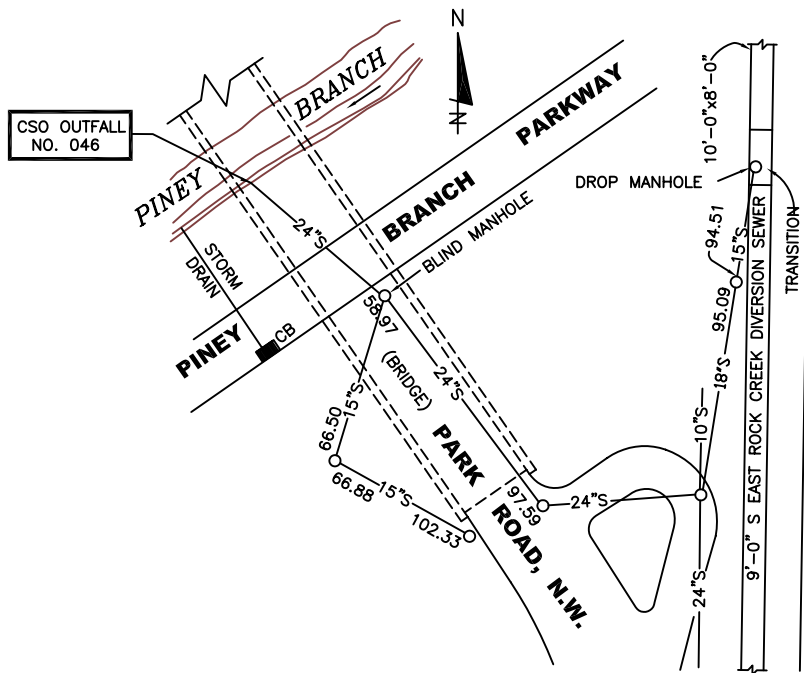
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

**PHOTO**

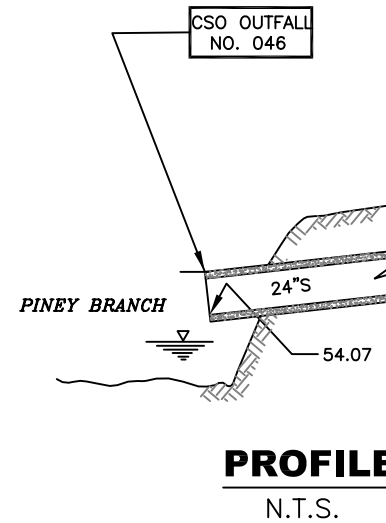


NPDES NO.  
045





**SITE PLAN**  
SCALE: 1"=100'

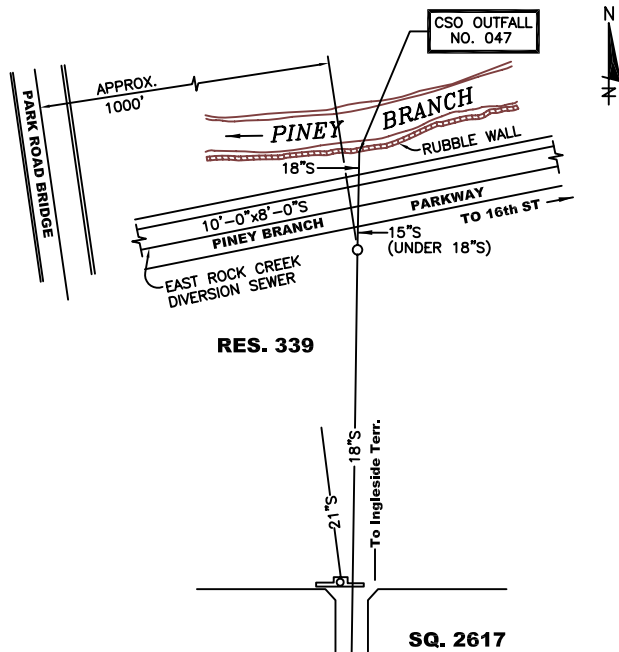


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

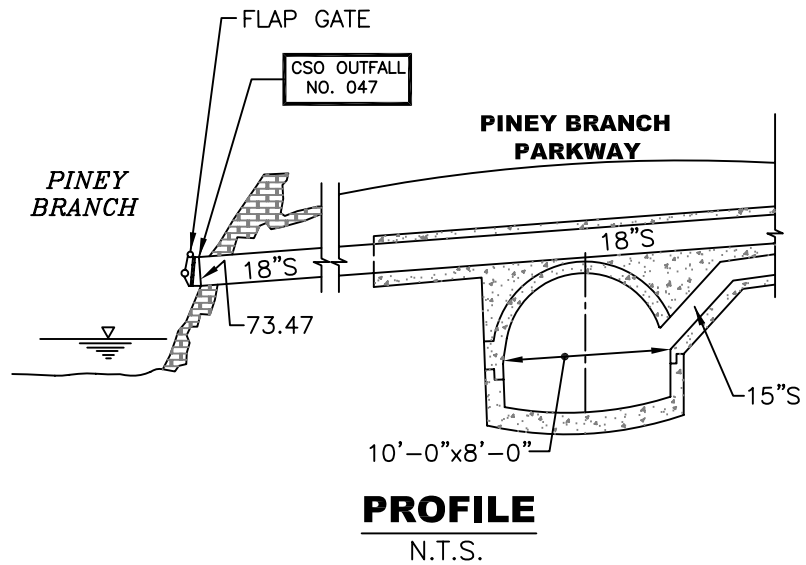
NPDES NO.  
046





## SITE PLAN

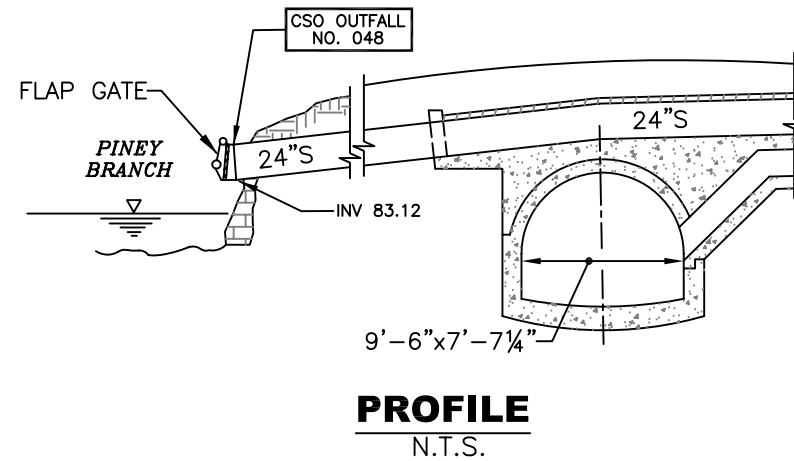
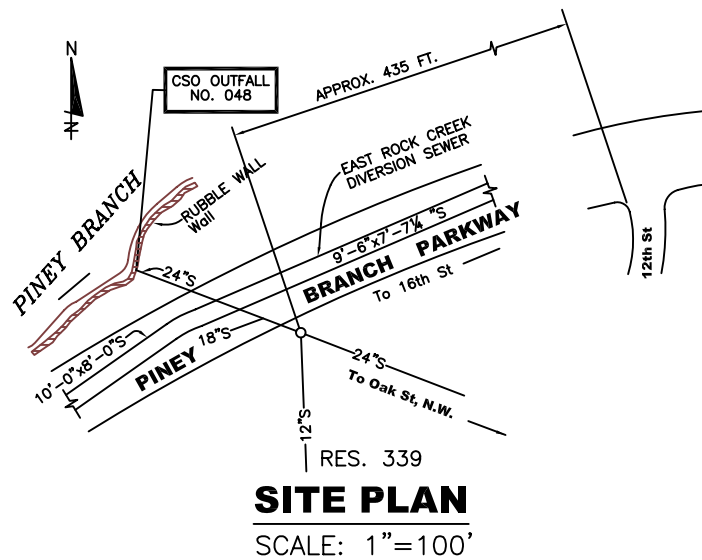
SCALE: 1"=100'



## PHOTO

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

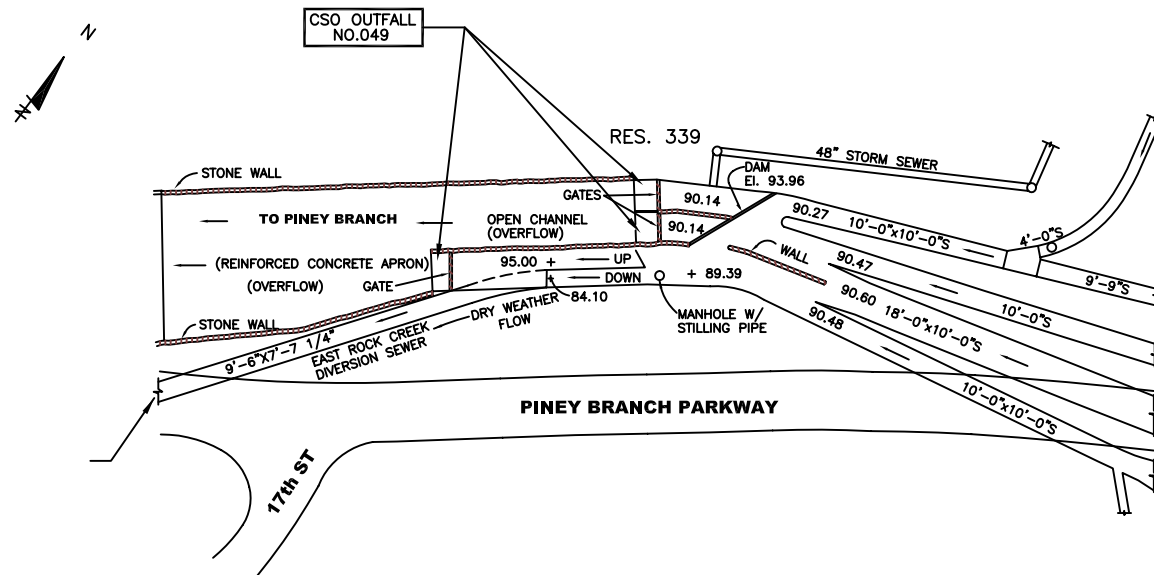
NPDES NO.  
047



**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
048



## SITE PLAN

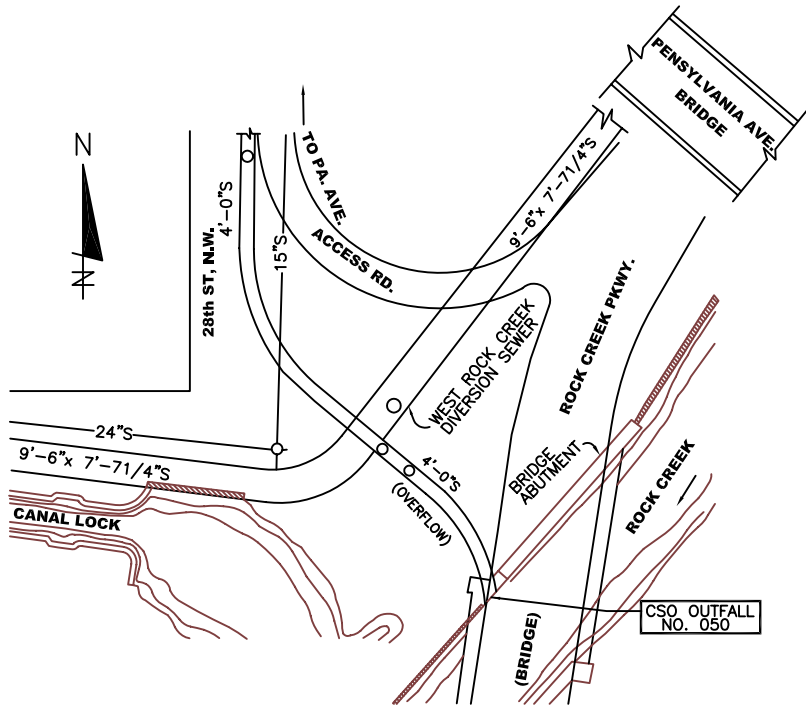
SCALE: 1"=100'



**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
049

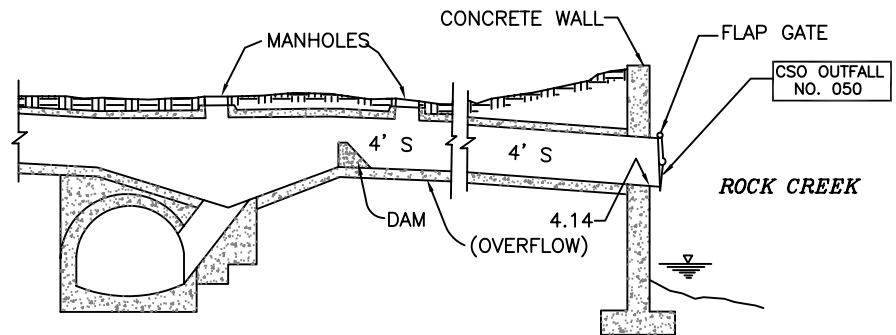


## SITE PLAN

SCALE: 1"=80'



## PHOTO



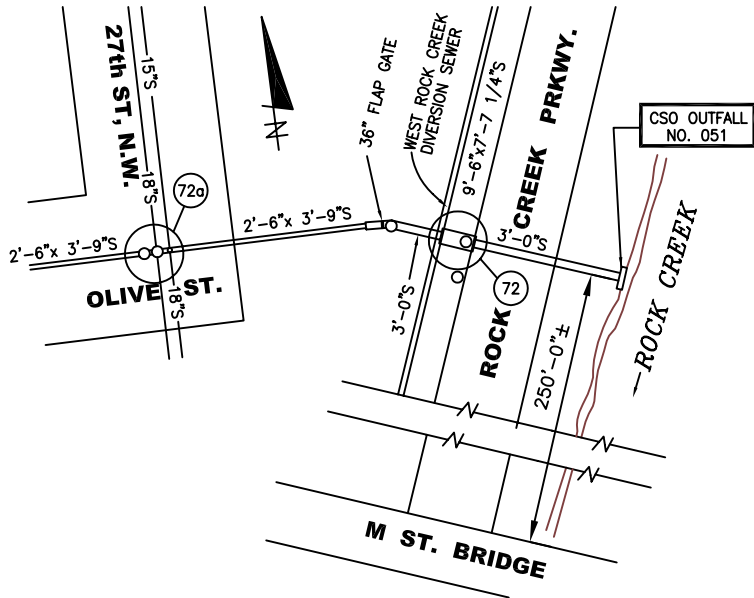
## PROFILE

N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
050

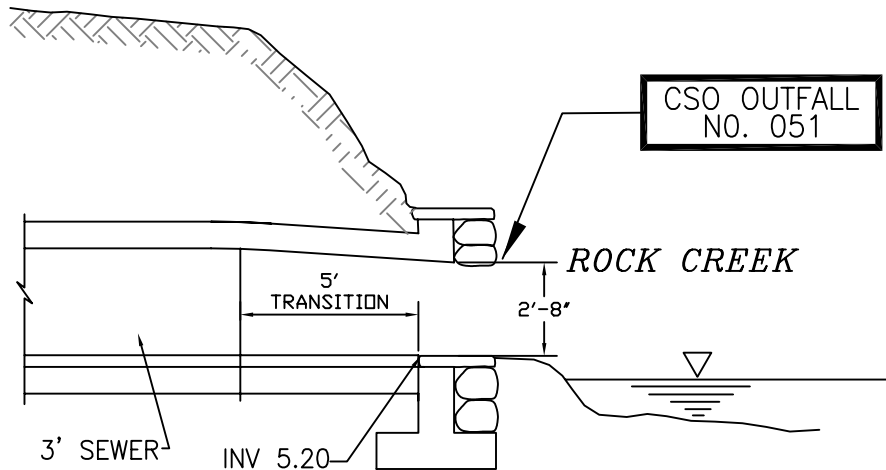




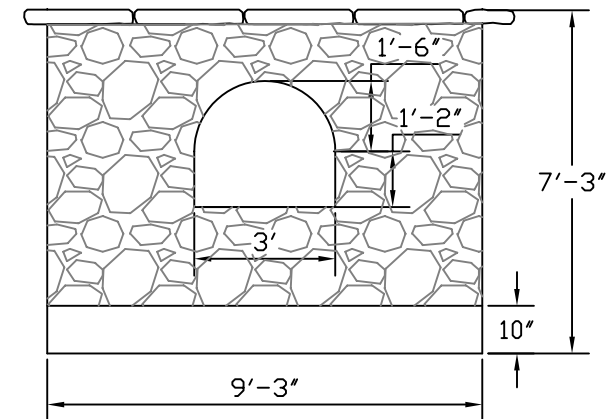
**SITE PLAN**  
SCALE: 1"=80'



**PHOTO**



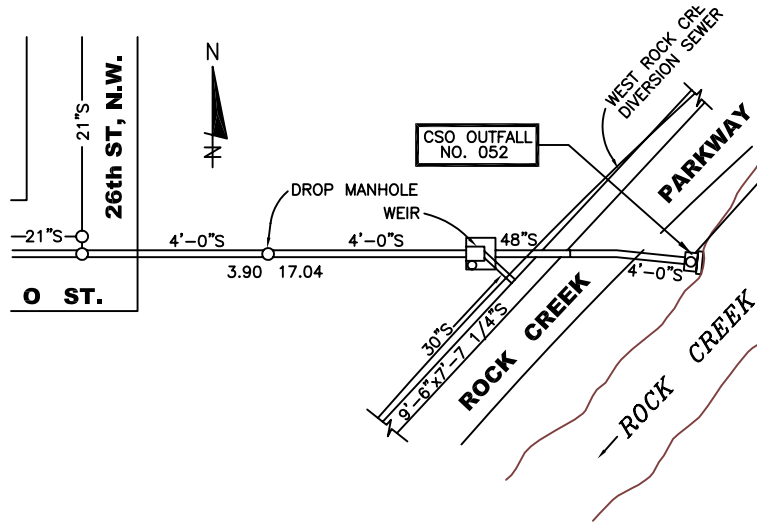
**PROFILE**  
N.T.S.



**ELEVATION**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

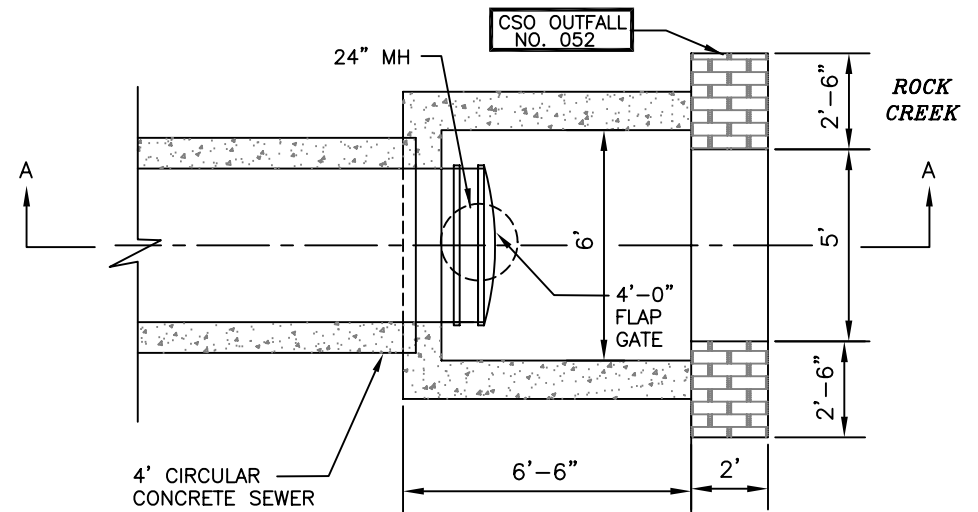
NPDES NO.  
051



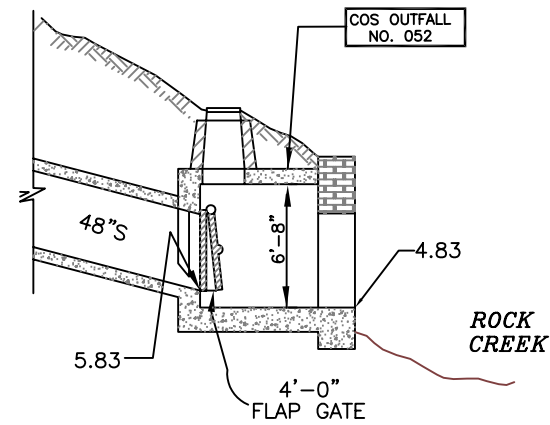
**SITE PLAN**  
SCALE: 1"=100'



**PHOTO**



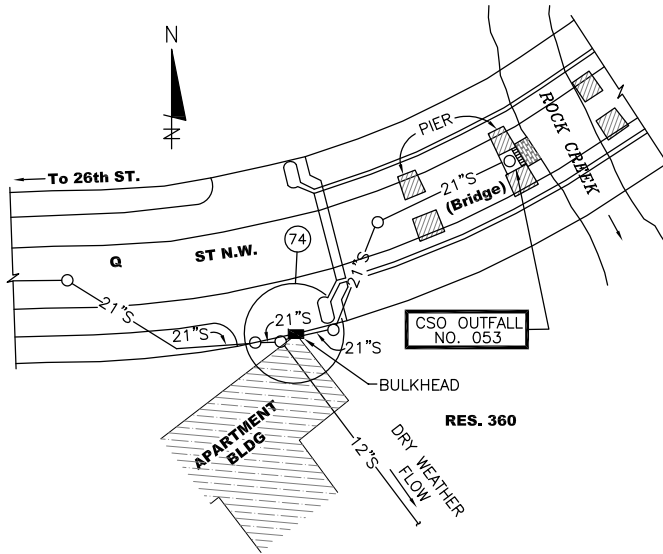
**PLAN**  
N.T.S.



**SECTION A-A**  
N.T.S.

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO

NPDES NO.  
052

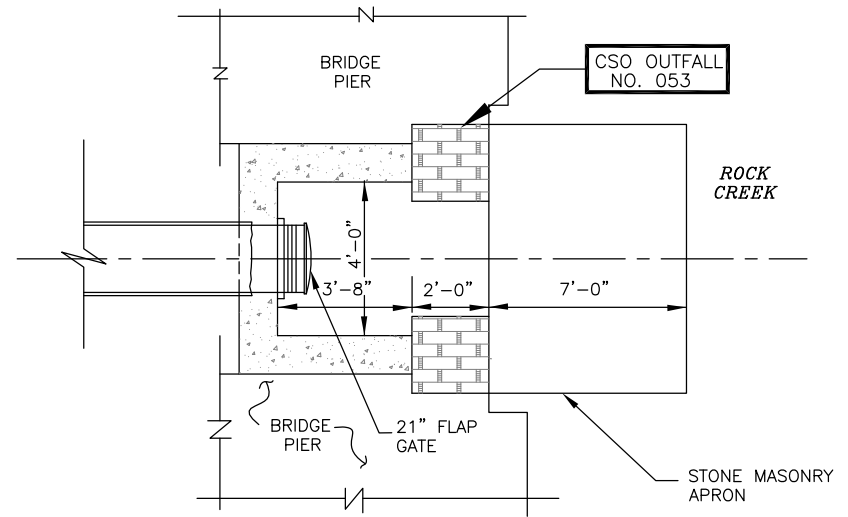


## SITE PLAN

SCALE: 1"=100'

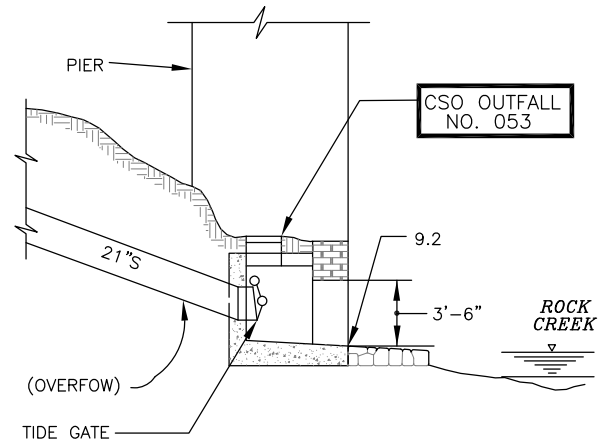


## PHOTO



## SITE PLAN

N.T.S.



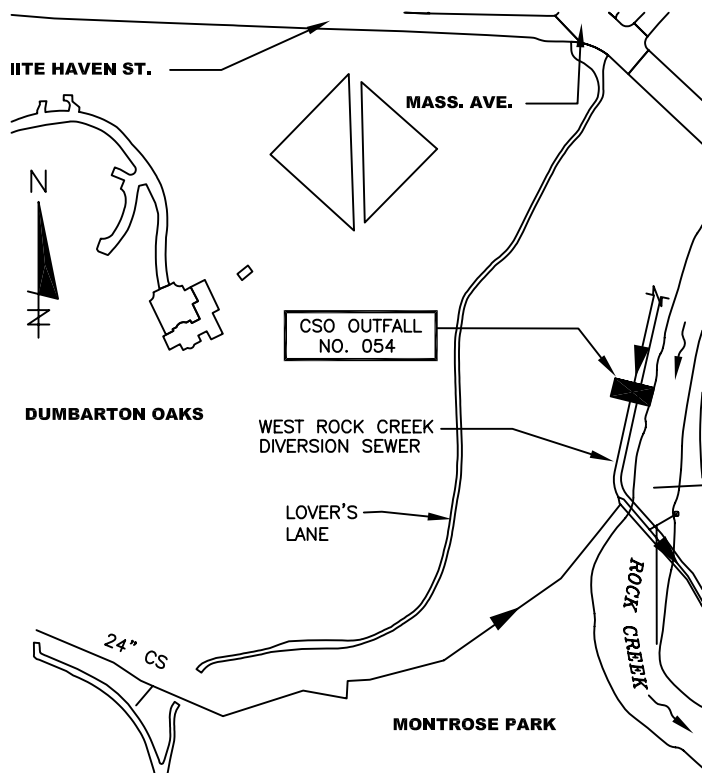
## SECTION

SCALE: 1"=10'

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2015  
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO  
A SEPARATE STORM SEWER OUTFALL.

NPDES NO.  
053

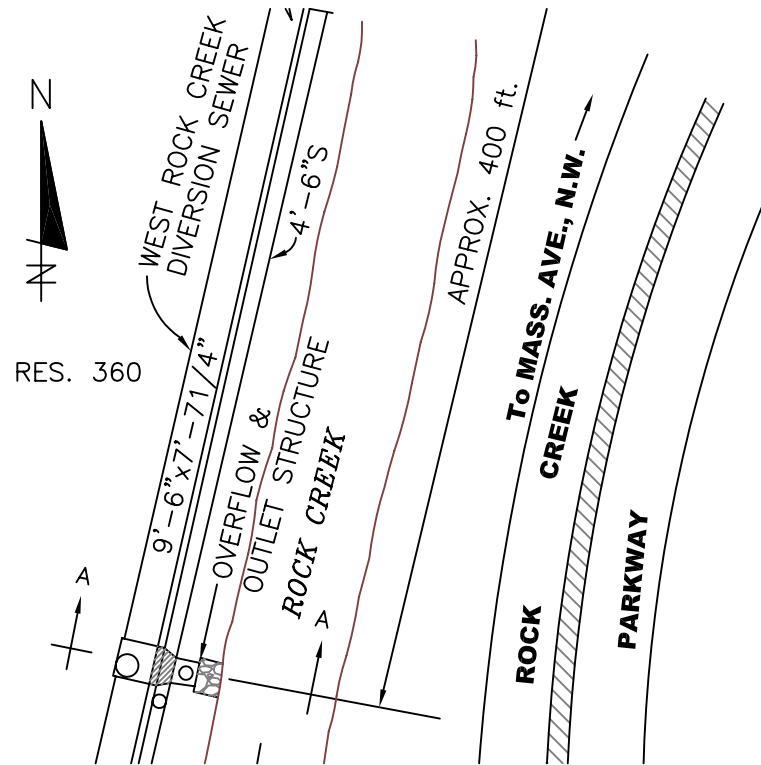


**SITE PLAN**  
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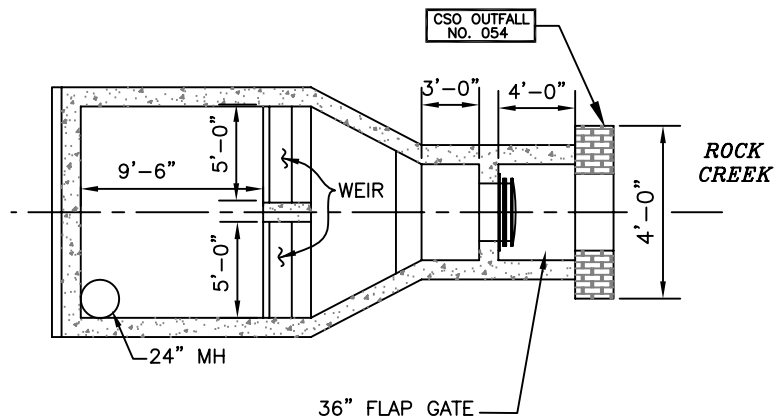


**PHOTO**

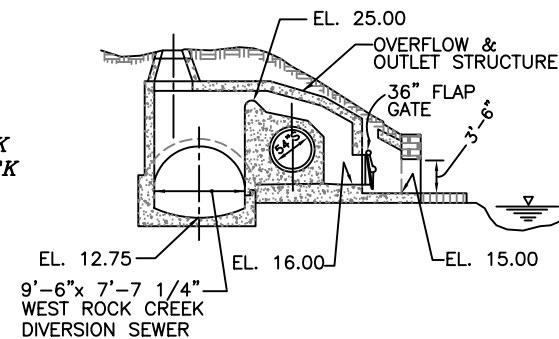
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: CSO



**DETAIL PLAN**  
N.T.S.



**PLAN**  
SCALE: 1"=10'



**SECTION A-A**  
N.T.S.

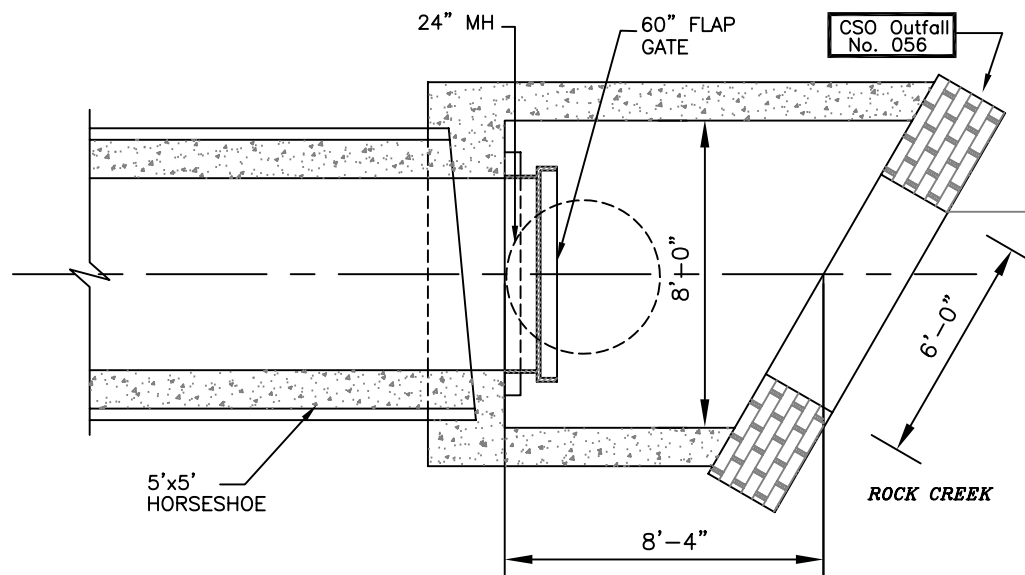
NPDES NO.  
054



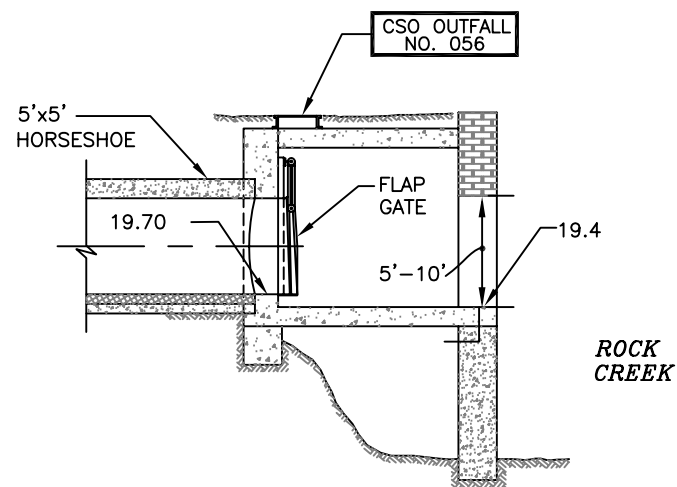
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## PHOTO



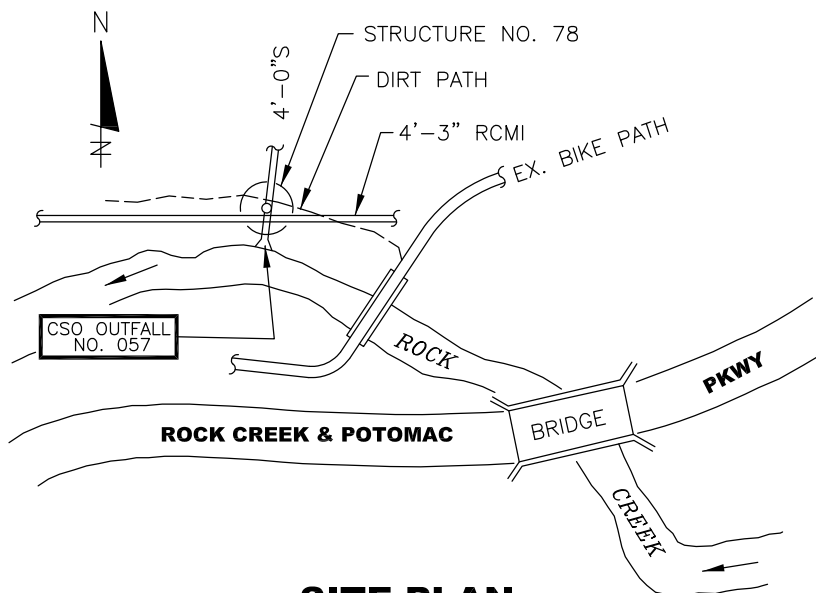
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## SECTION

N.T.S.

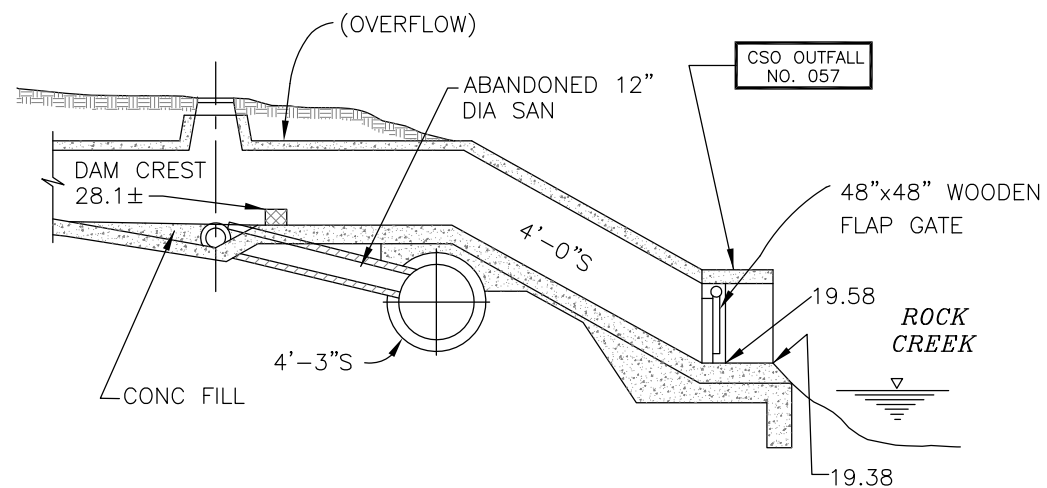
NPDES NO.  
056



**SITE PLAN**  
N.T.S.



**PHOTO**

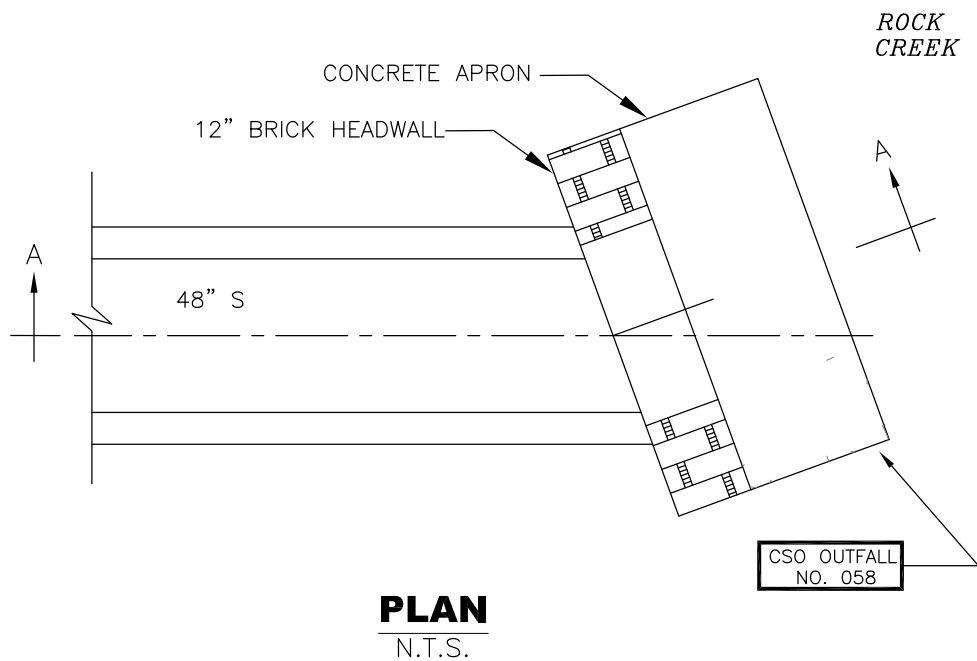
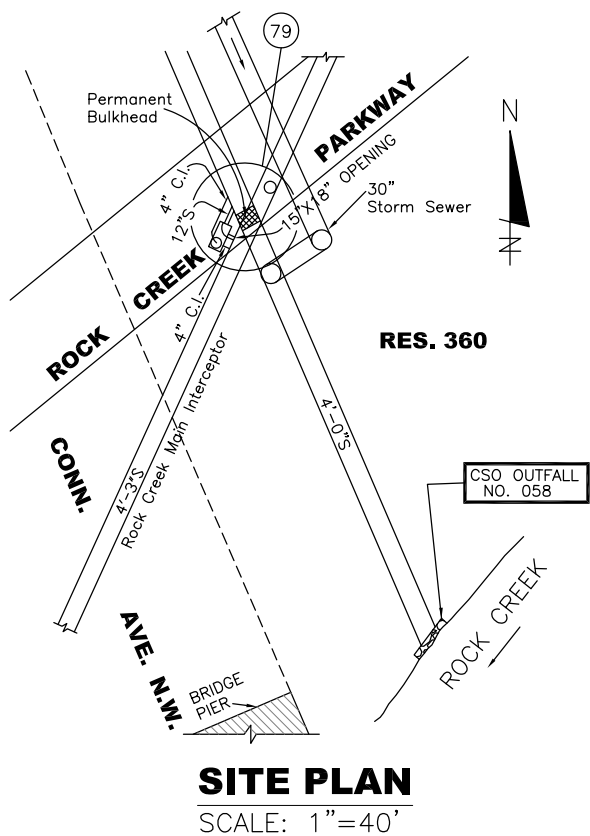


**SECTION**  
N.T.S.

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2015  
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED  
INTO A SEPARATE STORM SEWER OUTFALL

NPDES NO.  
057

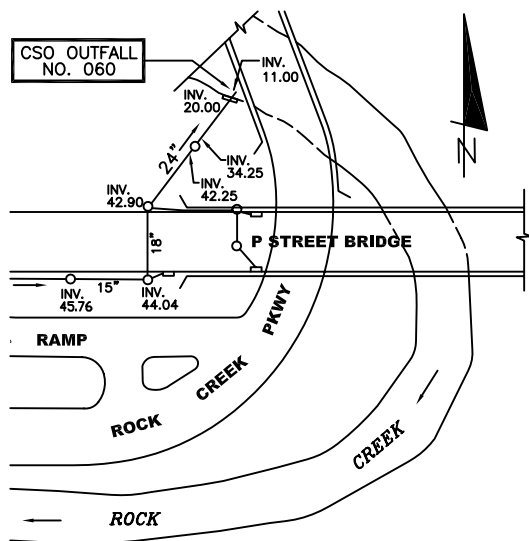


**PHOTO**

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2015  
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO  
A SEPARATE STORM SEWER OUTFALL.

NPDES NO.  
058

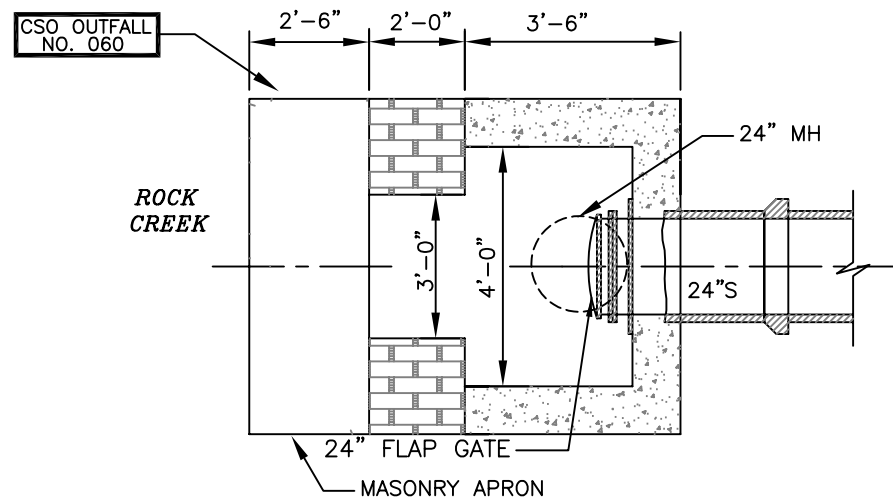


## SITE PLAN

N.T.S.

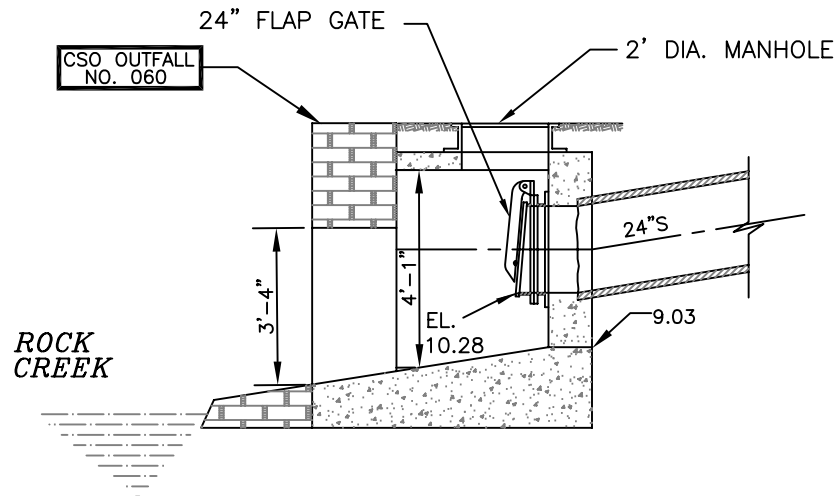


## PHOTO



## PLAN

N.T.S.



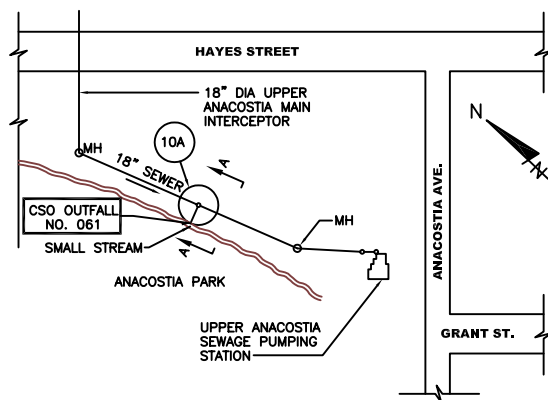
## SECTION A-A

N.T.S.

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 OUTFALL TYPE: CSO

NPDES NO.  
 060



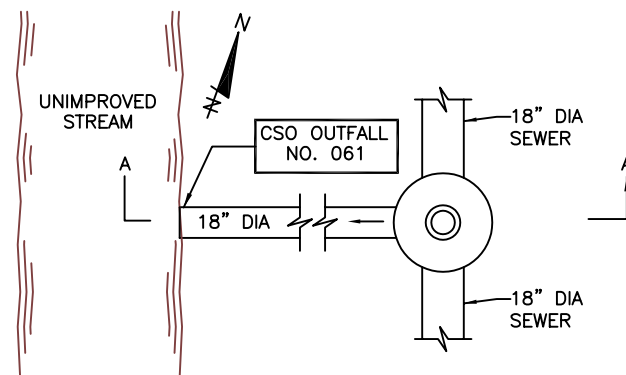


**SITE PLAN**  
SCALE: 1"=60'

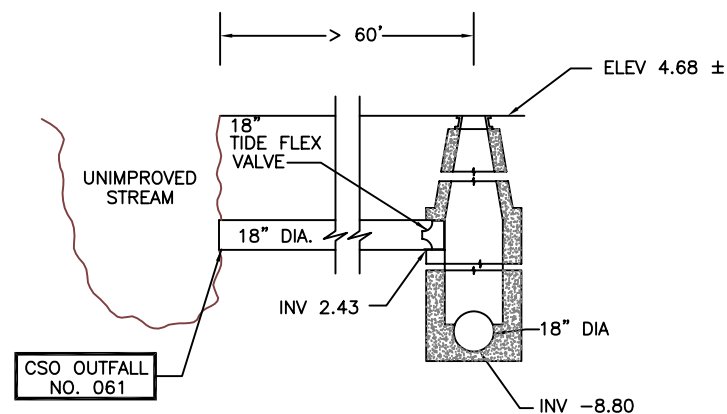


**PHOTO**

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
OUTFALL TYPE: EMERGENCY RELIEF

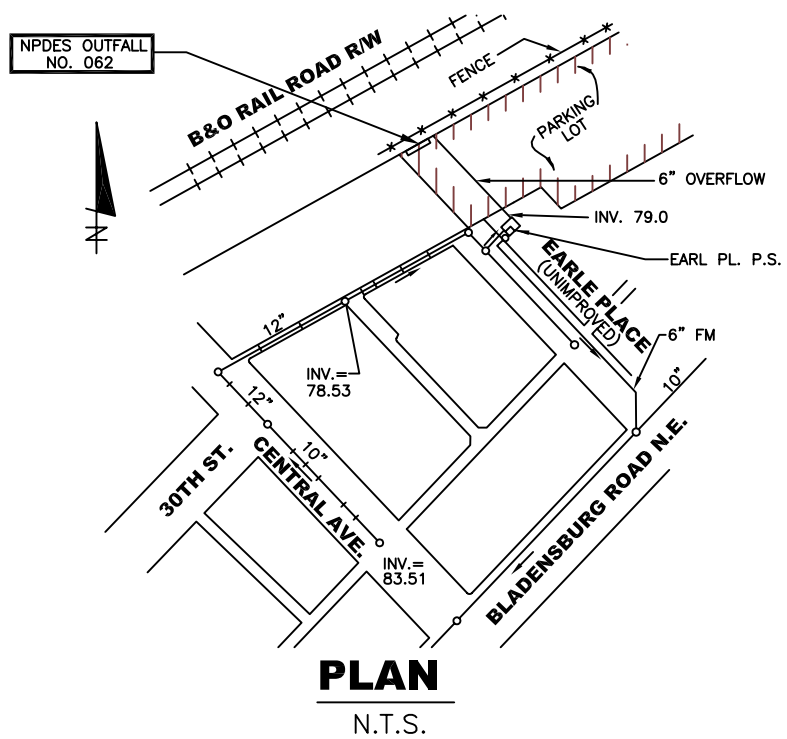


**PLAN**  
N.T.S.



**SECTION A-A**  
N.T.S.

NPDES NO.  
061



REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 OUTFALL TYPE: EMERGENCY RELIEF

NPDES NO.  
 062

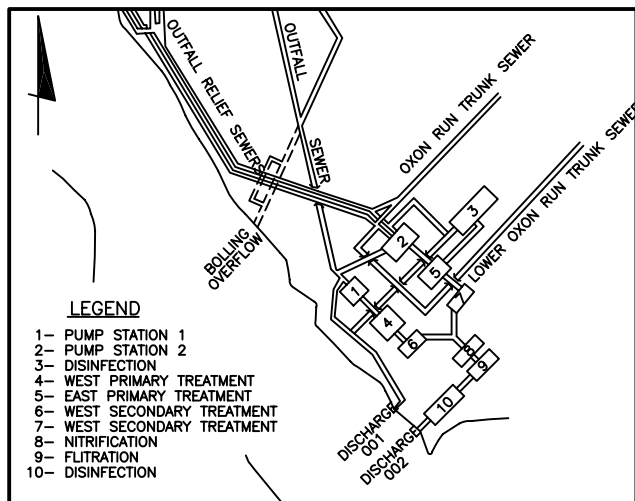
## **Section 4**

# **Pumping Stations**





FILE: J:\1163\MASTPLAN\TECH\MEA\STRUCTURE BOOK\DWG\PS-01 1:1 04/20/04 15:15 GH-G

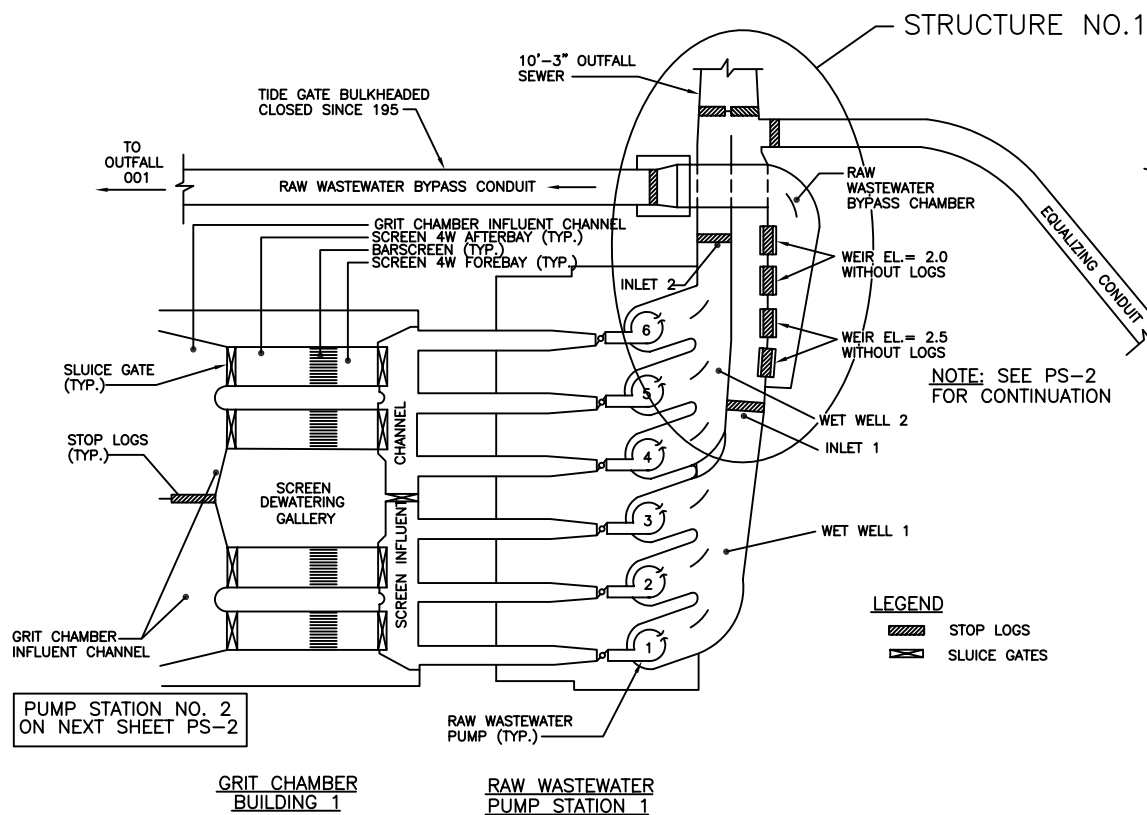


WASTEWATER TREATMENT PLANT SCHEMATIC  
NOT TO SCALE

# PUMPING STATION NO. 1 AND 2

P.S. NO. 1 has six Raw Wastewater Pumps. Three are rated at 80 mgd, two at 60 mgd and one at 40 mgd.

P.S. NO. 2 has nine Raw Wastewater Pumps each rated at 100 mgd these Pumping Stations handle all flow influent to the Wastewater Treatment Plant. There is an equalization conduit between the Wet Wells of the two Pumping Stations, and Relief Overflow upstream of each Wet Well. A portion of the flows pumped at Pump Station No. 2 can be limited to primary treatment under high flow conditions. Pump Station No. 1 serves the west side processes of the Plant and Pump Station No. 2 serves the east side processes.

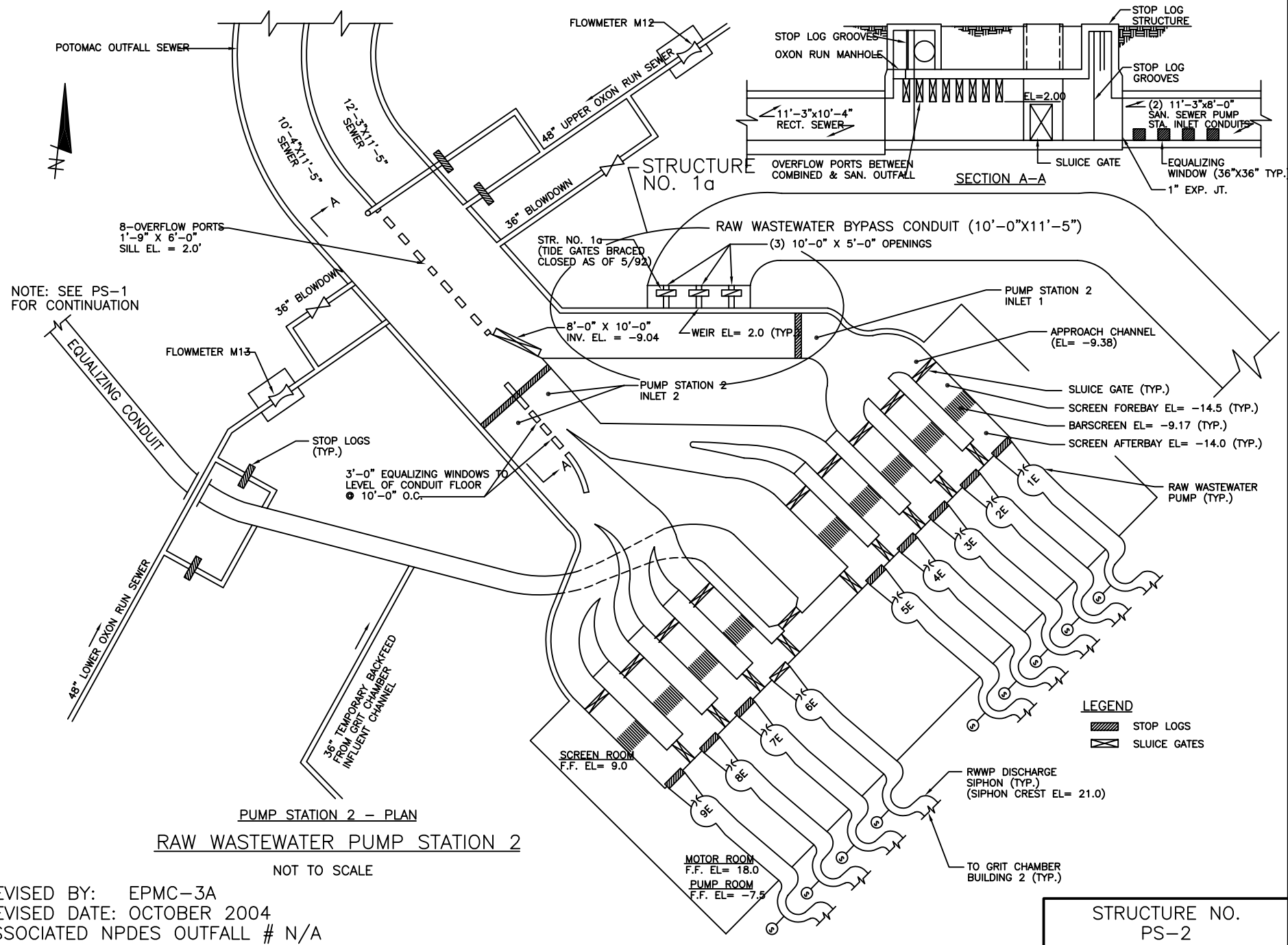


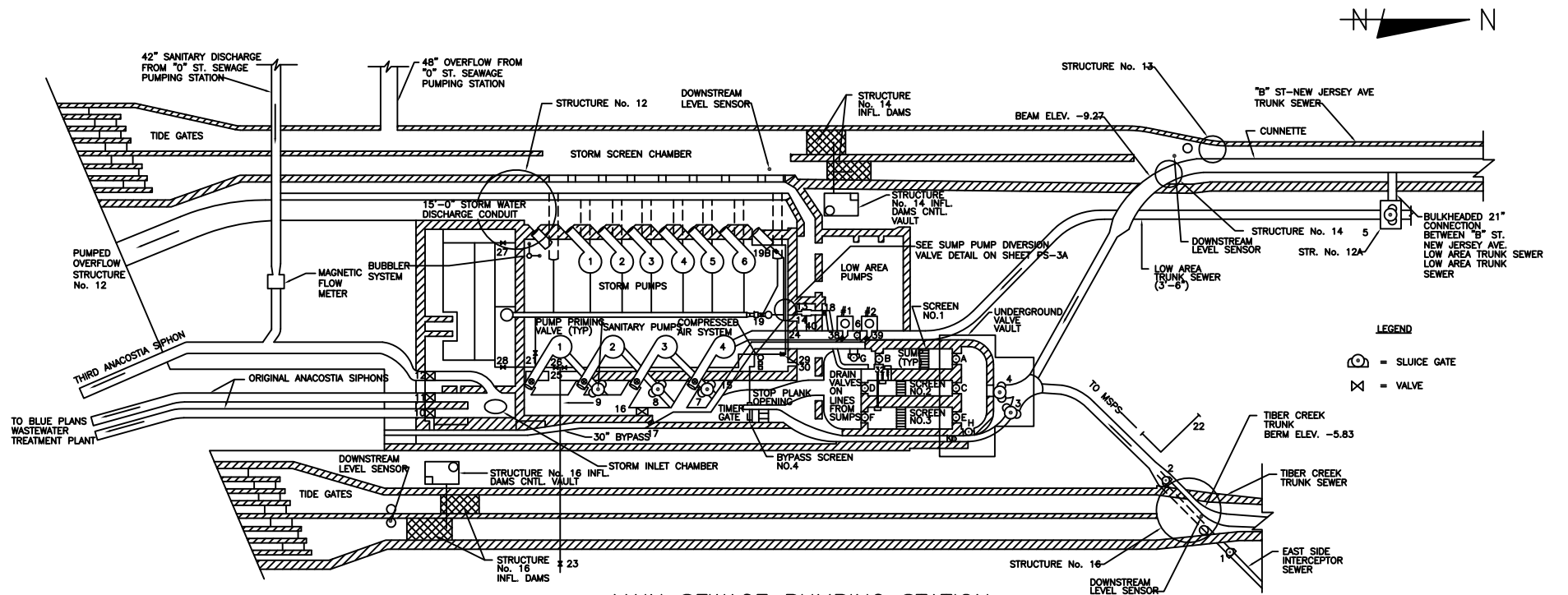
PUMP STATION - PLAN

RAW WASTEWATER PUMP STATION NO.1  
NOT TO SCALE

STRUCTURE NO.  
PS-1

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A





#### APPROXIMATE PUMPING STATION FLOOR ELEVATIONS

SANITARY PUMP AREA FLOOR	-13.00
STORMWATER PUMP AREA FLOOR	-7.00
SCREEN ROOM OPERATING FLOOR	0.00
PUMP MOTOR FLOOR	10.50

SEE STRUCTURES BOOK FOR ELEVATIONS OF NEARBY SEWER STRUCTURES

#### MAIN SEWAGE PUMPING STATION

NOT TO SCALE

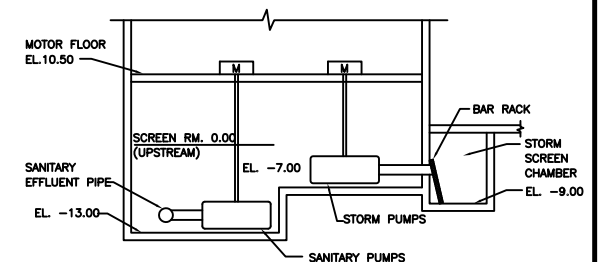
(FOR ENLARGEMENT OF MAIN PUMPING ROOM AREA SEE DRAWING PS-3A)

#### VALVE SCHEDULE

NUMBER	SIZE	TYPE	CONTROL FUNCTION	OPERATOR TYPE (L=LOCAL, R=REMOTE)	NUMBER/ LETTER	SIZE	TYPE	CONTROL FUNCTION	OPERATOR TYPE (L=LOCAL, R=REMOTE)
1	48"	SLUICE GATE	EAST SIDE INTERCEPTOR	L	28	6"	VALVE	WATER SUPPLY, SOUTH BASEMENT	L
2	48"	SLUICE GATE	TIBER CREEK TRUNK SEWER	R	29	6"	VALVE	WATER SUPPLY, EAST TO NORTH MAIN	L
3	84"	SLUICE GATE	SCREEN CHAMBER BYPASS	R	30	4"	VALVE	WATER SUPPLY, NORTH END OF BUILDING	L
4	84"	SLUICE GATE	SCREEN CHAMBER INFLUENT	R	38	8"	VALVE	LOW AREA PUMP #1 DISCHARGE	L
5	42"	SLUICE GATE	LOW AREA TRUNK SEWER	L	39	8"	SLUICE GATE	LOW AREA PUMP #2 DISCHARGE	L
6	24"	SLUICE GATE	LOW AREA CONTROL TO PUMP #4	L	40	12"	SLUICE GATE	SAN. PUMP #4 SUCTION SIDE DRAIN TO SUMP	L
7	66"	SLUICE GATE	SANITARY PUMP #3 SUCTION	R	41	8"	VALVE	SUMP PUMP DISCHARGE ISOLATION	L
8	66"	SLUICE GATE	SANITARY PUMP #2 SUCTION	R	42	8"	VALVE	SUMP PUMP DISCHARGE DIVERSION	L
9	66"	SLUICE GATE	SANITARY PUMP #1 SUCTION	R	43	8"	VALVE	AWAY FROM STORMWATER DISCHARGE	L
10	60"	VALVE	EAST DISCHARGE SIPHON	L				VALVE FOR POTENTIAL FUTURE CONNECTION	L
11	60"	VALVE	THIRD DISCHARGE SIPHON	L				TO PUMP ROOM SUMP AT VALVE 19	L
12	60"	VALVE	THIRD DISCHARGE SIPHON	L					
13	6"	VALVE	SUMP PUMP #1 DISCHARGE	L					
14	6"	VALVE	SUMP PUMP #2 DISCHARGE	L					
15	30"	VALVE	LOW AREA PUMPS DISCHARGE	L	A	72" X 72"	SLUICE GATE	SCREEN #1 INFLUENT	R
16	48"	VALVE	SANITARY PUMP #4 DISCHARGE- SIPHON CHAMBER	L	B	96" X 72"	SLUICE GATE	SCREEN #1 EFFLUENT	R
17	30"	VALVE	SANITARY PUMP #4 DISCHARGE- RIVER	L	C	72" X 72"	SLUICE GATE	SCREEN #2 INFLUENT	R
18	18"	VALVE	SCREEN CHANNELS SUMP DRAIN	L	D	96" X 72"	SLUICE GATE	SCREEN #2 EFFLUENT	R
19	12"	VALVE	PUMP ROOM DRAINS TO SUMP	L	E	72" X 72"	SLUICE GATE	SCREEN #3 INFLUENT	R
19A	6"	VALVE	PUMP ROOM DRAINS TO SUMP PUMP DISCHARGE	L	F	96" X 72"	SLUICE GATE	SCREEN #3 EFFLUENT	R
19B	6"	VALVE	SUMP PUMPS DISCHARGE	L	G	48" X 48"	SLUICE GATE	SCREEN CHAMBER DRAIN TO PUMP #4	R
21	6"	VALVE	DRAIN, SIPHON CHAMBER TO SUMP	L	H	72" X 72"	SLUICE GATE	SCREEN CHAMBER CONNECTION TO BYPASS	R
22	6"	VALVE	WATER MAIN, NORTH SIDE	L	K	72" X 72"	SLUICE GATE	SCREEN CHAMBER CONNECTION TO BYPASS	R
23	6"	VALVE	WATER MAIN, EAST SIDE	L					
24	6"	VALVE	WATER SUPPLY FROM NORTH MAIN	L					
25	6"	VALVE	WATER SUPPLY FROM EAST MAIN	L					
26	6"	VALVE	WATER SUPPLY FROM EAST MAIN	L					
27	6"	VALVE	WATER SUPPLY, SOUTH BASEMENT	L					

#### NOTES:

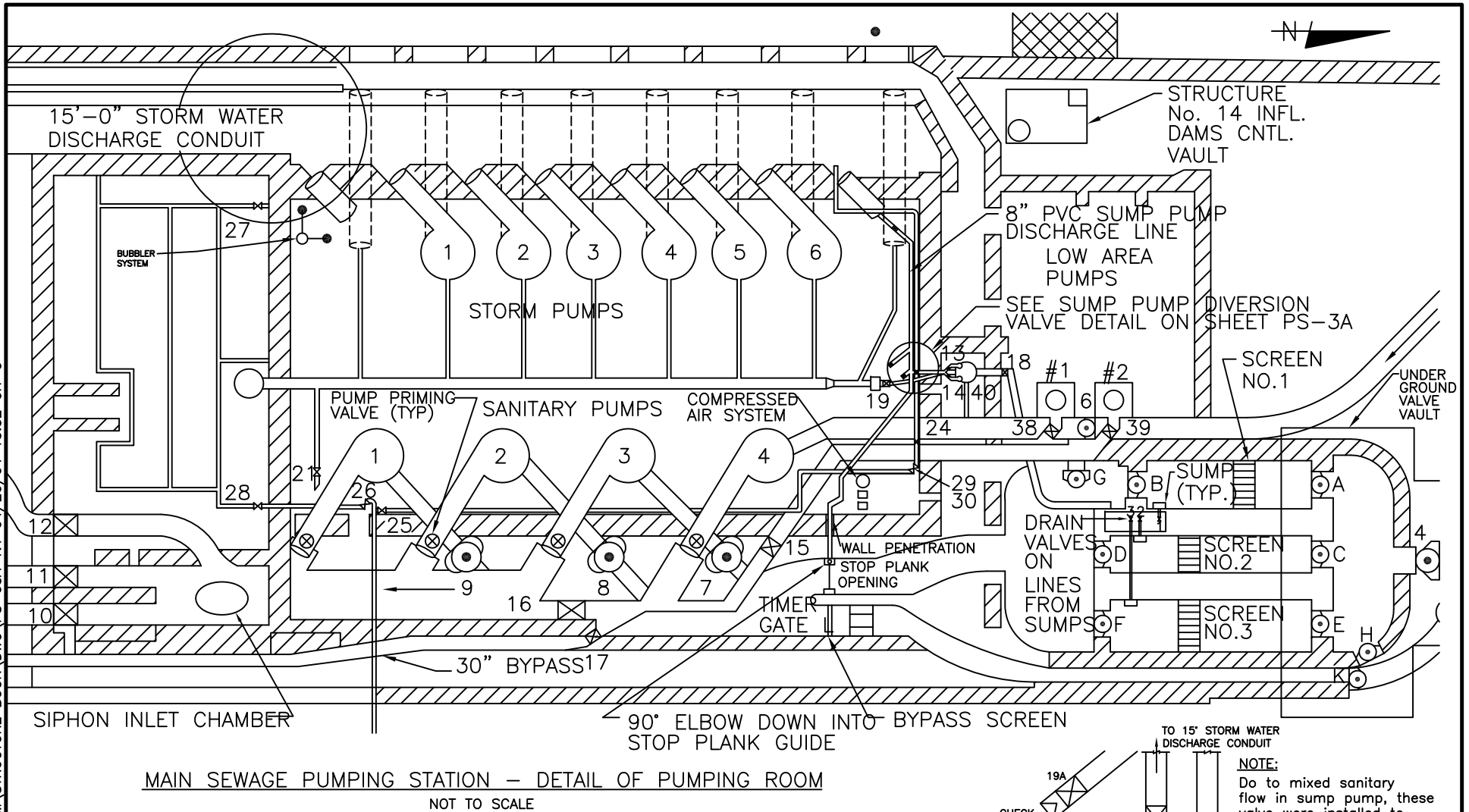
Main sewage pumping station handles combined flow from most of the central city. It is equipped with four sanitary pumps rated at 90 MGD each and six storm pumps, each rated at 80 mgd.



SCHEMATIC ELEVATION (LOOKING SOUTH)

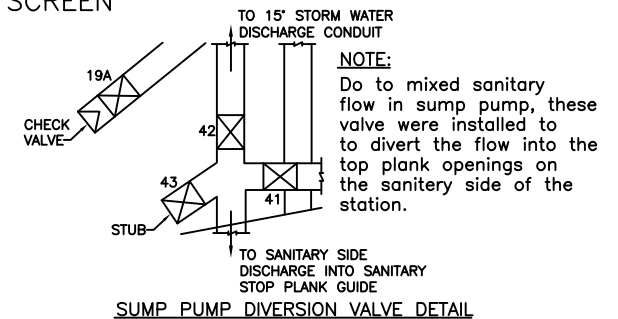
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: FEBRUARY 2012  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
PS-3



**NOTE:**

This drawing is provided for further clarification to the pumping room of the Main Sewage Pump Station.

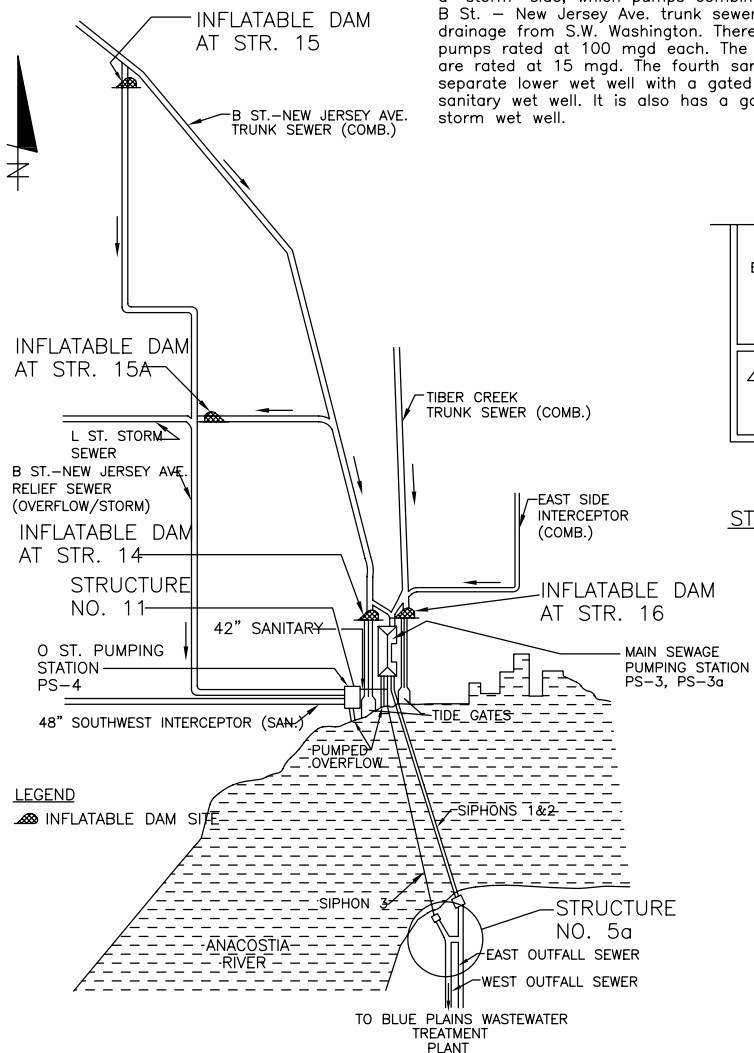


REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: FEBRUARY 2012  
ASSOCIATED NPDES OUTFALL # N/A

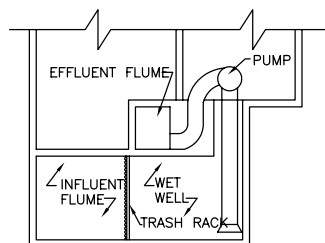
STRUCTURE NO.  
PS-3a

## O STREET SEWAGE PUMPING STATION

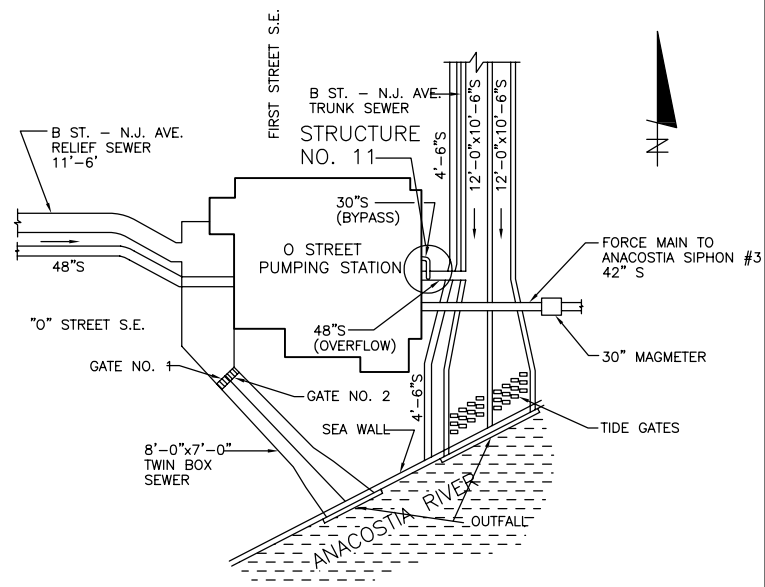
The pumping station is divided into a "sanitary" side, which pumps separate sanitary sewage from S.W. Washington, and a "storm" side, which pumps combined overflow from the B St. - New Jersey Ave. trunk sewer and separate storm drainage from S.W. Washington. There are six stormwater pumps rated at 100 mgd each. The four sanitary pumps are rated at 15 mgd. The fourth sanitary pump is in a separate lower wet well with a gated connection to the main sanitary wet well. It is also has a gated connection with the storm wet well.



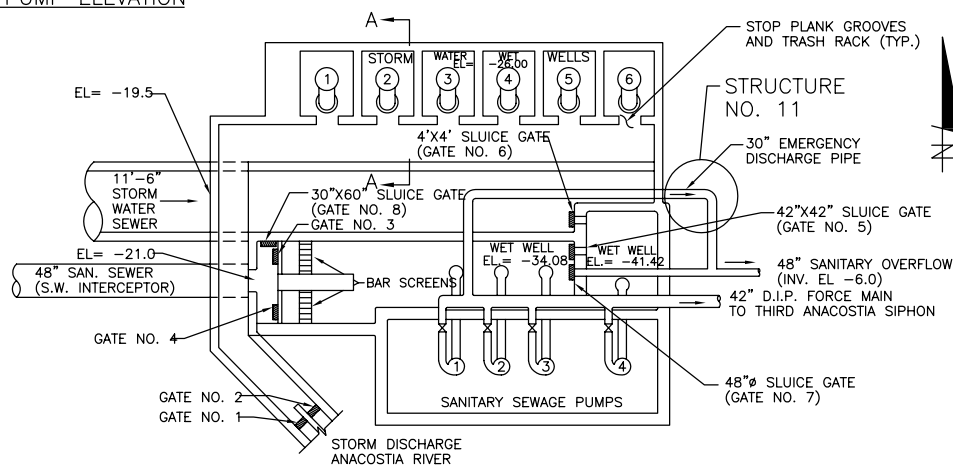
SCHEMATIC FLOW PLAN



SECTION A-A  
STORM PUMP ELEVATION



LOCATION PLAN



PUMP STATION - PLAN

## "O" STREET PUMPING STATION

NOT TO SCALE

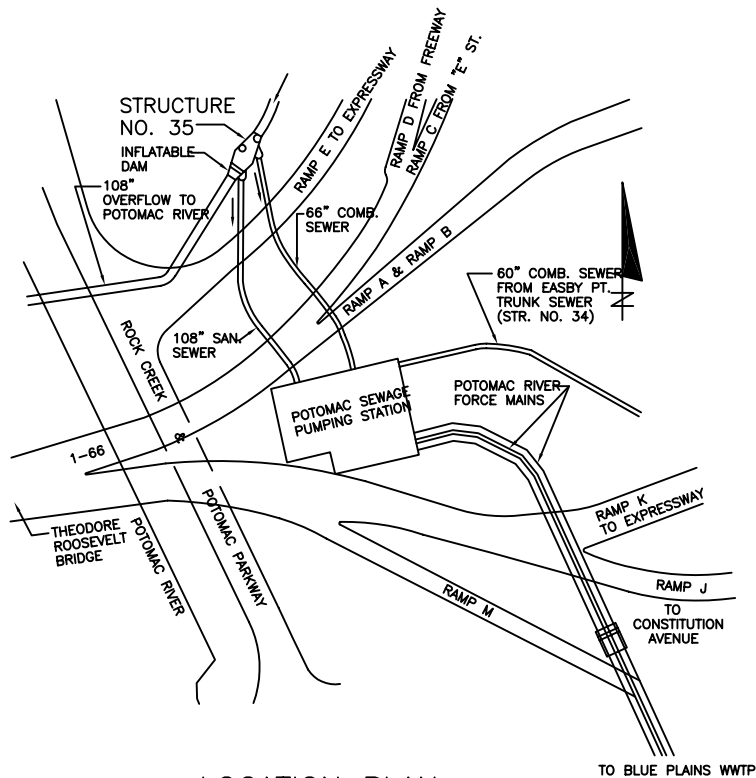
STRUCTURE NO.  
PS-4

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

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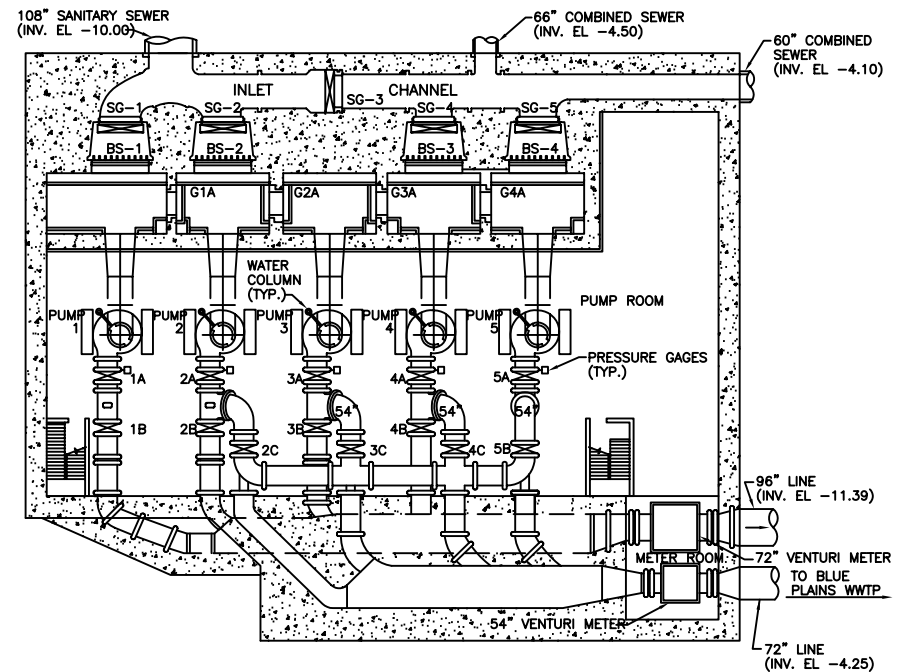
### POTOMAC SEWAGE PUMPING STATION

Station receives Sanitary flow from the 108-inch Potomac Interceptor Relief Sewer and Combined Flow from the 66-inch East Rock Creek Diversion Sewer and the 60-inch Easby Point Trunk Sewer. The Station is equipped with five pumps, with a total Station capacity of 460 mgd with one pump in reserve. The Station discharges through two 96-inch and 72-inch Force Mains to the Blue Plains Waste Water Treatment Plant.



LOCATION PLAN  
NOT TO SCALE

LEGEND:  
SG = SLUICE GATE  
BS = BAR SCREEN  
= GATE VALVE  
AND. NO.



PUMP STATION - PLAN

### POTOMAC SEWAGE PUMPING STATION NOT TO SCALE

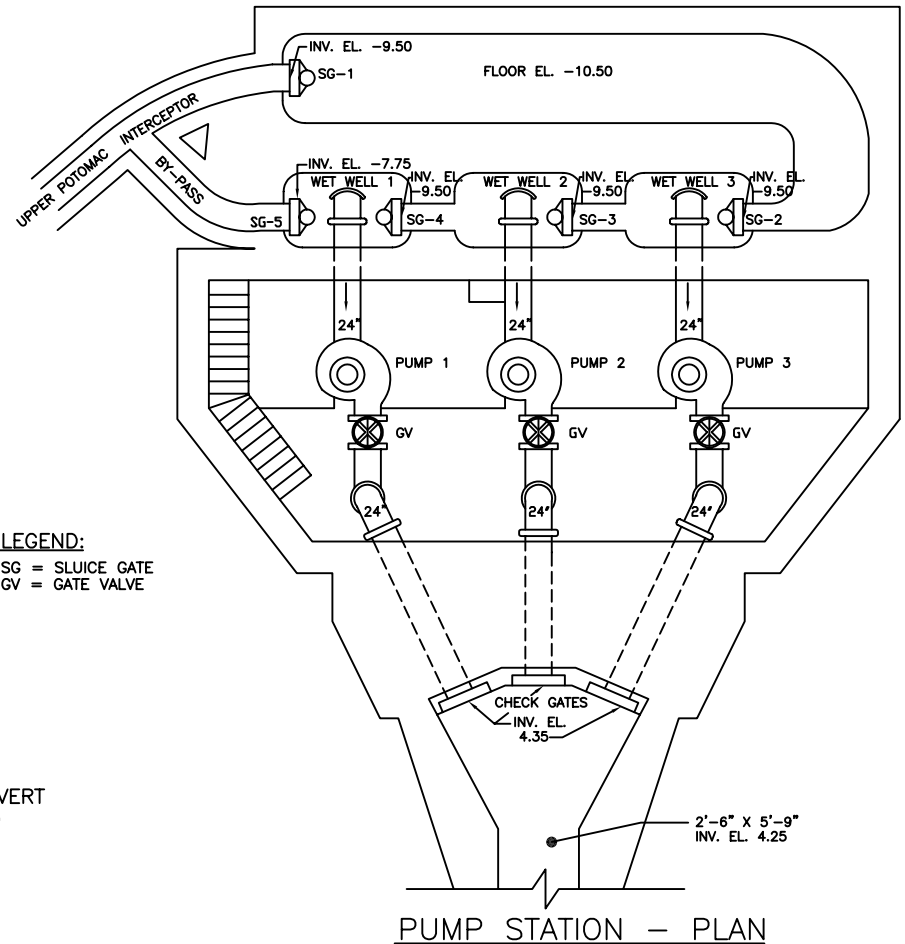
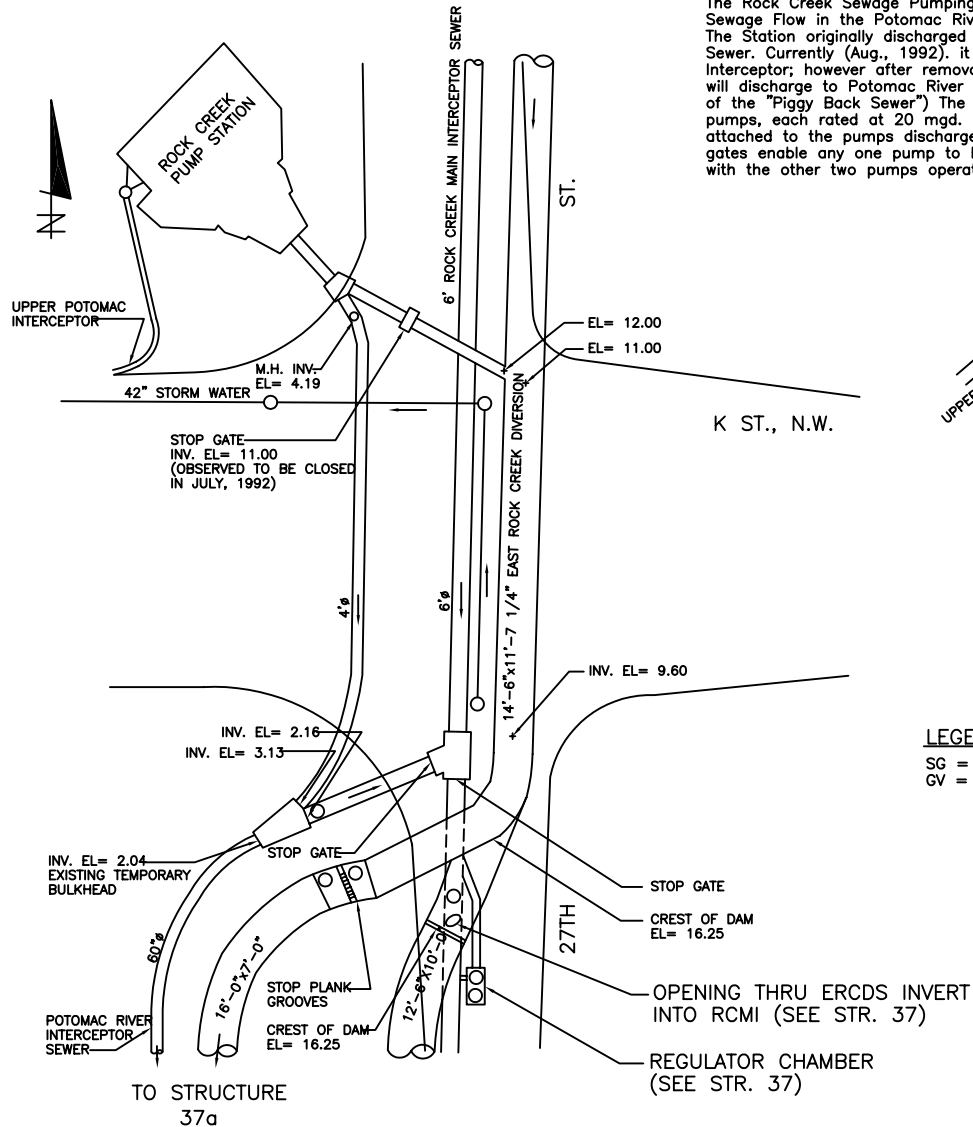
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
PS-5

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-06 1:1 04/21/04 13:13 GH-G

## ROCK CREEK SEWAGE PUMPING STATION

The Rock Creek Sewage Pumping Station lifts Combined Sewage Flow in the Potomac River Interceptor Sewer. The Station originally discharged into the East Rock Creek Diversion Sewer. Currently (Aug., 1992), it discharges into the Rock Creek Main Interceptor; however after removal of existing temporary bulkhead it will discharge to Potomac River Interceptor Sewer (lower level of the "Piggy Back Sewer") The Station is equipped with three pumps, each rated at 20 mgd. Flow is measured by transducers attached to the pumps discharge. The Stations internal sluice gates enable any one pump to be removed from service, with the other two pumps operational.



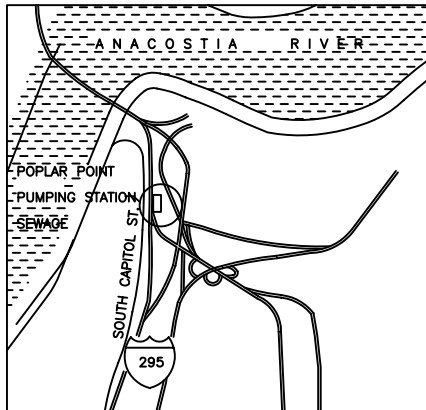
LEGEND:  
SG = SLUICE GATE  
GV = GATE VALVE

ROCK CREEK SEWAGE PUMPING STATION  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
PS-6

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-07 1:1 04/21/04 13:15 GH-G



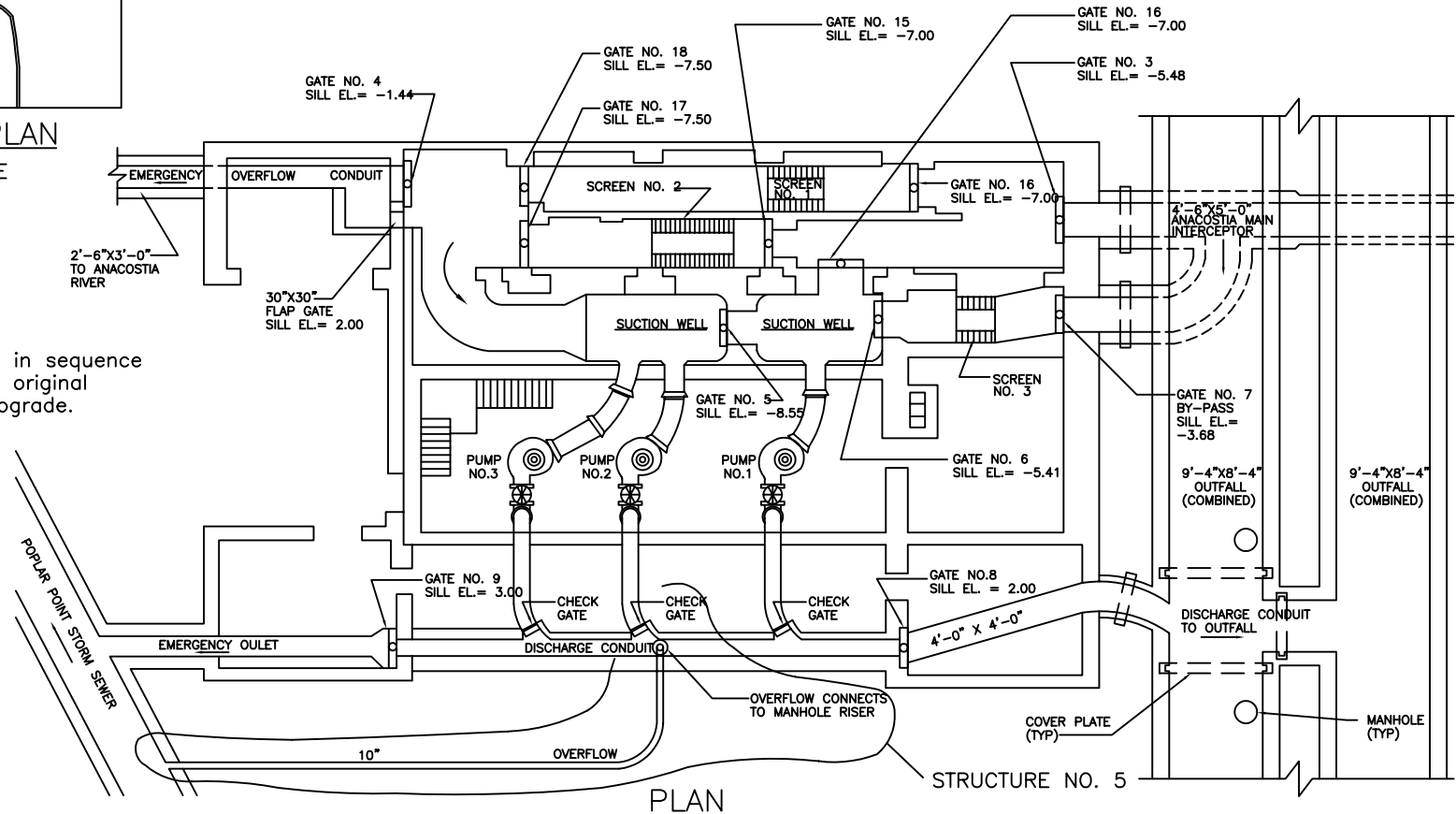
LOCATION PLAN

NOT TO SCALE

## POPLAR POINT SEWAGE PUMPING STATION

This Pumping Station receives Sanitary Flows through the Anacostia Main Interceptor and discharges through a connection to the adjacent twin Sanitary Outfall Sewers to the Blue Plains WWTP. The Station is equipped with three pumps, each rated at 15,000 gpm.

Note: Gate numbers not in sequence due to removal of original gates in station upgrade.



PLAN

## POPLAR POINT SEWAGE PUMPING STATION

NOT TO SCALE

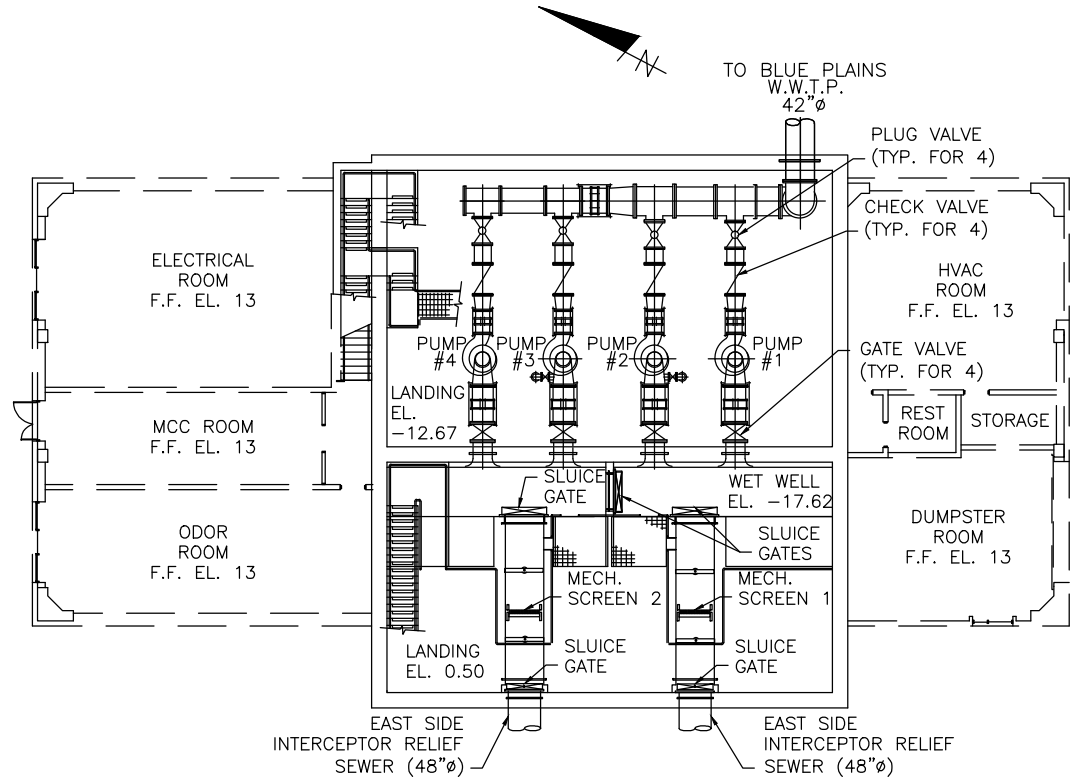
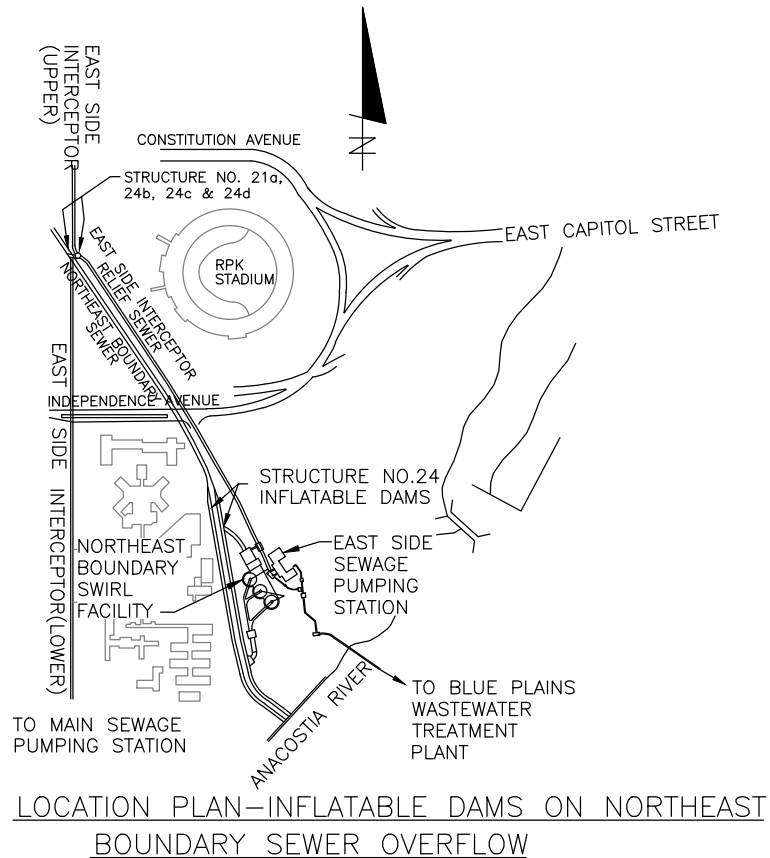
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
PS-7



## EASTSIDE SEWAGE PUMPING STATION

The Eastside Sewage Pumping Station receives Sanitary Flow from the Eastside Interceptor Relief Sewer, and Wet Weather Combined Flow from the Northeast Boundary Swirl Facility. It is equipped with four 15-mgd pumps. It currently discharges to the Anacostia Force Main and Gravity Sewer.

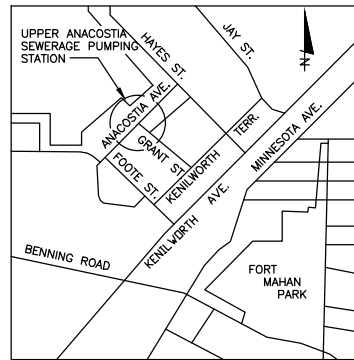
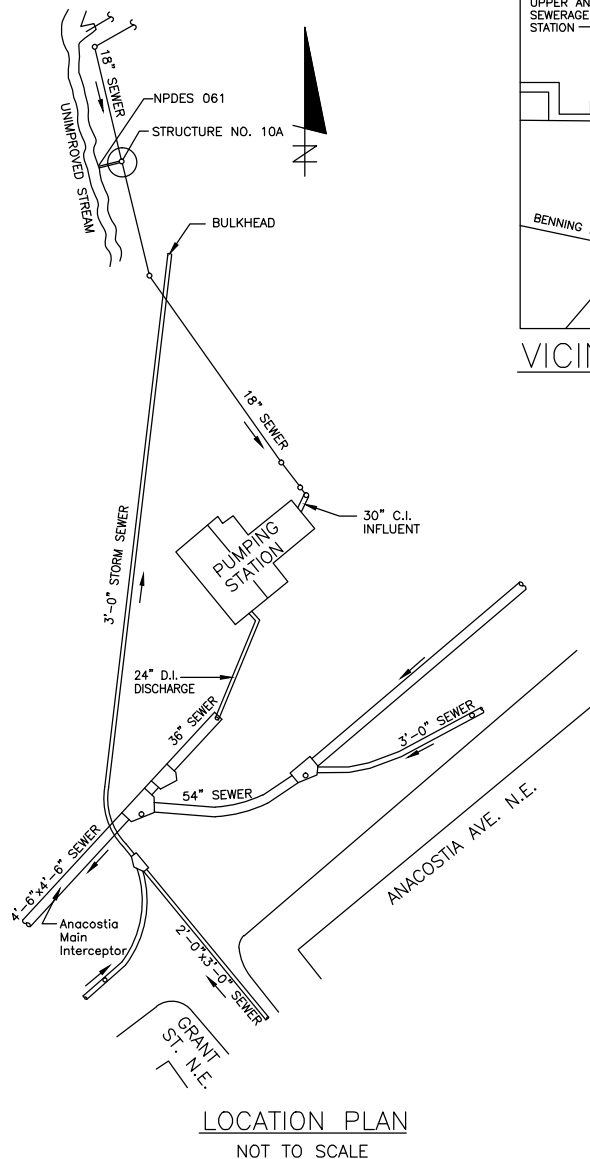


## EASTSIDE SEWAGE PUMPING STATION

NOT TO SCALE

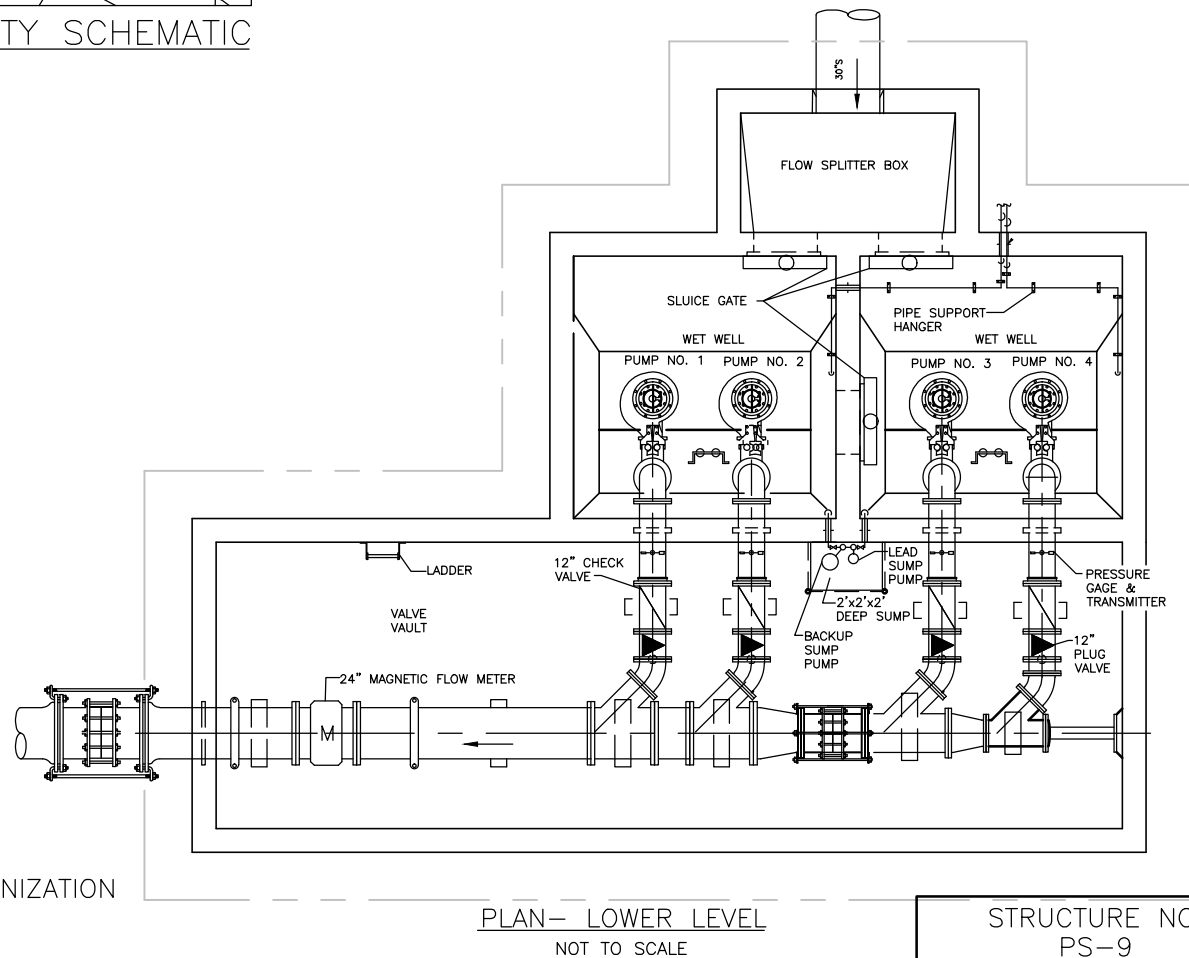
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
 REVISED DATE: MARCH 2017  
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
 PS-8



### UPPER ANACOSTIA SEWAGE PUMPING STATION

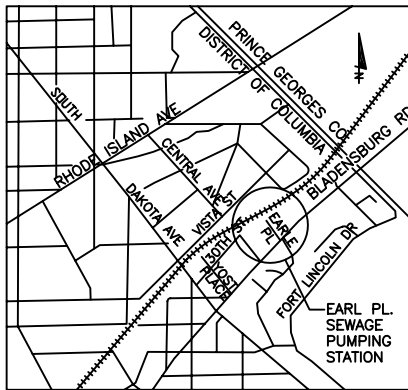
This pumping station receives sanitary flows through an 18" sewer from the upper Anacostia area and discharges into the Anacostia Main Interceptor, which is subsequently repumped at the Popular Point sewage Pumping Station enroute to the Blue Plains Waste Water Treatment Plant. There are four sanitary pumps, each of which is rated at a capacity of 5 mgd. For location and detail of overflow structure, see Structure No. 10a.



STRUCTURE NO.  
PS-9

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2017  
ASSOCIATED NPDES OUTFALL # N/A

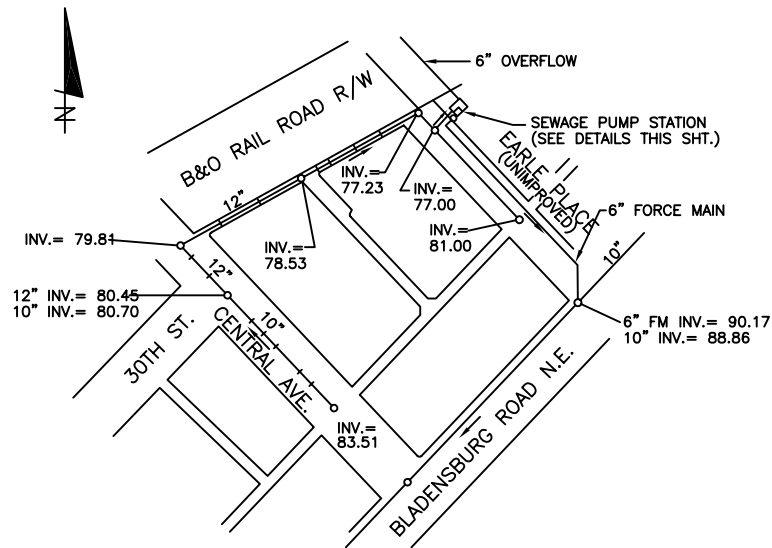
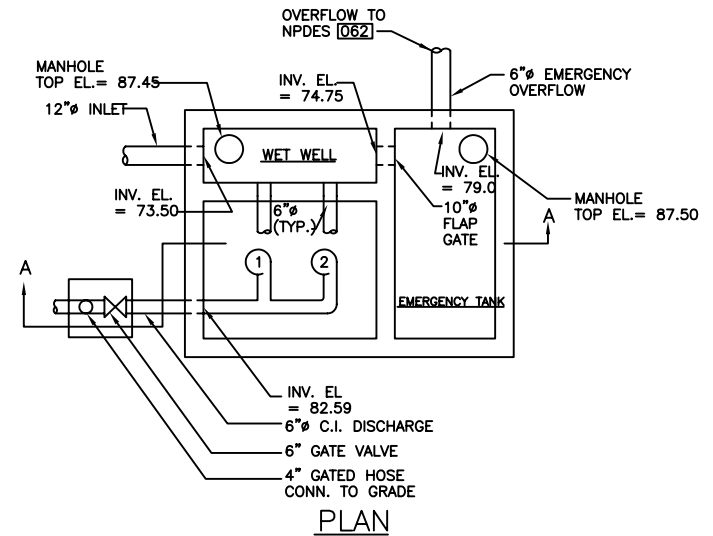
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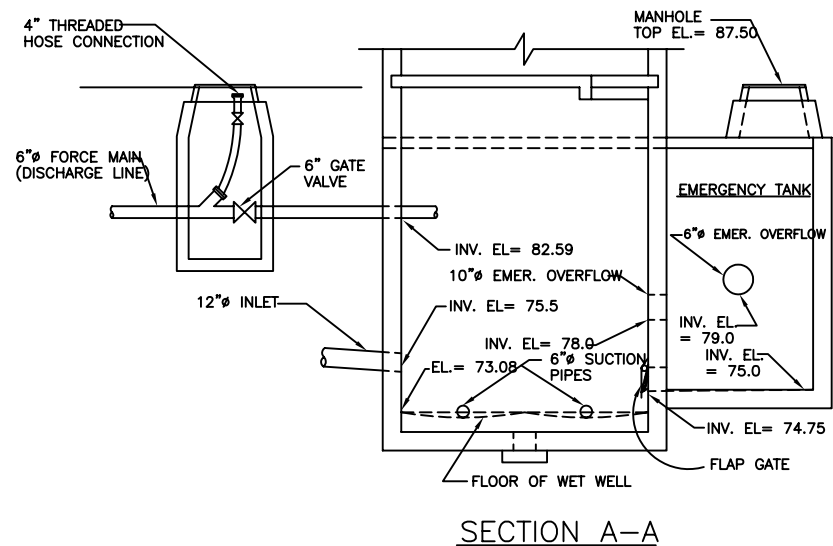
VICINITY SCHEMATIC

### EARL PLACE SEWAGE PUMPING STATION

This Pump Station is equipped with two 300 gpm pumps. The 6" discharge line is equipped with a 4" threaded hose connection for flushing. There is an Emergency Overflow from the Wet Well, first to an emergency tank, and then through a 6" Emergency Overflow line to an adjacent ditch.



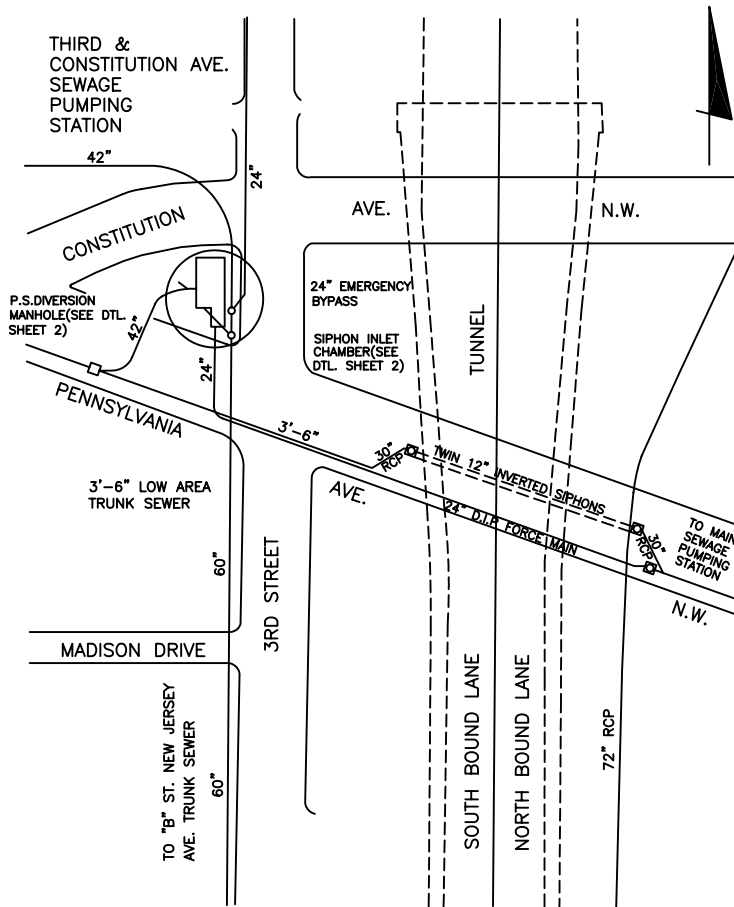
LOCATION PLAN  
NOT TO SCALE



EARL PL. SEWAGE PUMPING STATION  
NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

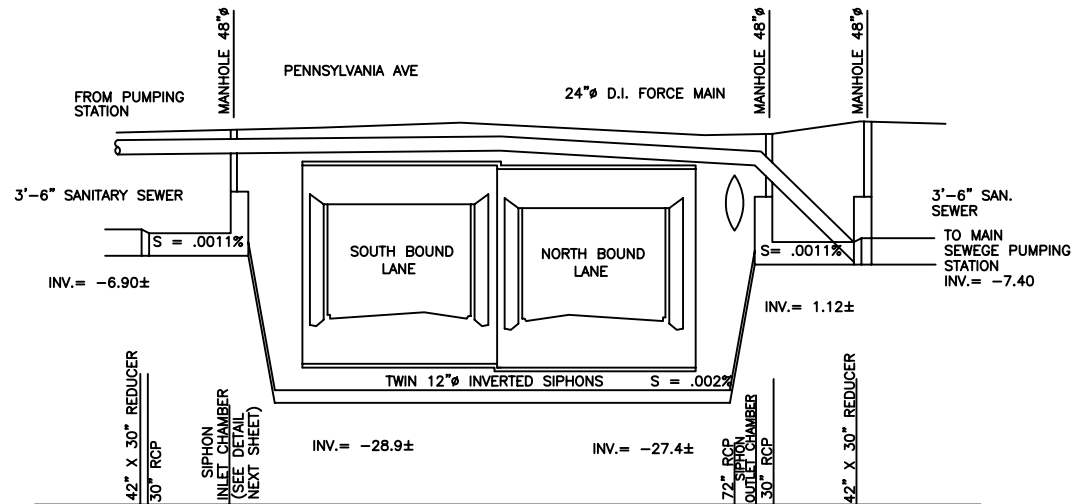
STRUCTURE NO.  
PS-10



LOCATION PLAN  
NOT TO SCALE

### 3rd AND CONSTITUTION AVENUE N.W. SEWAGE PUMPING STATION

This Pumping Station is designed to lift sewage in the low area Trunk Sewer, in anticipation of future increased flows in this sewer. This sewer currently functions as a Gravity Sewer with the Pumping Station only used for maintenance conditions. This Pumping Station discharges to a 24" Force Main over the route 395 highway tunnel, while the Gravity Sewer crosses beneath the tunnel via a twin inverted siphon. Flow in the Gravity Sewer must discharge over a weir at the Pump Station Diversion Manhole. The Pumping Station is equipped with two 1000 gpm pumps and one 3450 gpm pump. There are provisions for three additional pumps. There is 24" Emergency By-pass Overflow from the discharge Force Main which would overflow at elev. 0.0. This By-pass discharges to a tributary to the B St. - New Jersey Avenue Trunk Sewer.



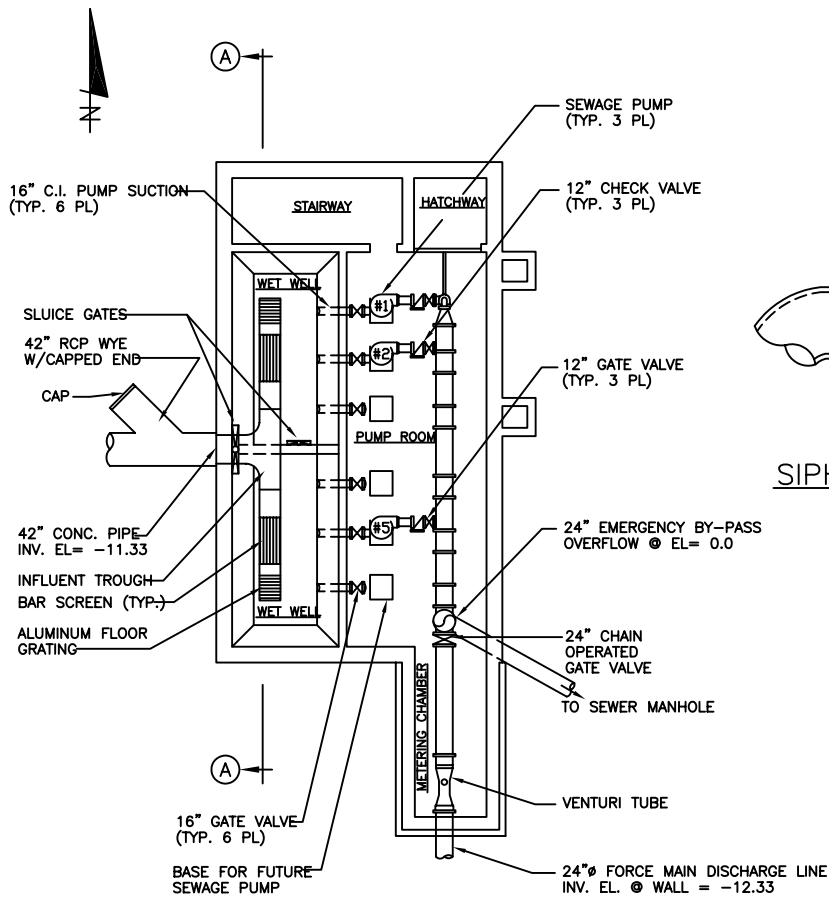
PROFILE

THIRD & CONSTITUTION AVENUE SEWAGE PUMPING STATION  
NOT TO SCALE

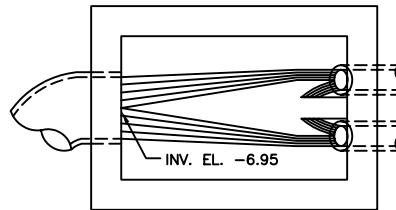
REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
PS-11, SH-1

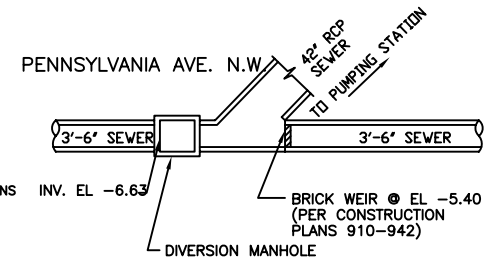
J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-11SH-2 1:1 04/21/04 13:32 GH-G



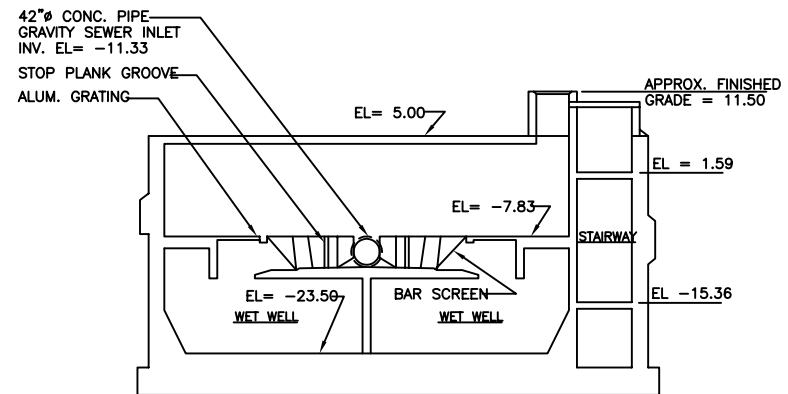
PLAN



SIPHON INLET CHAMBER - PLAN



DIVERSION MANHOLE - PLAN



SECTION A-A

# THIRD & CONSTITUTION AVENUE SEWAGE PUMPING STATION

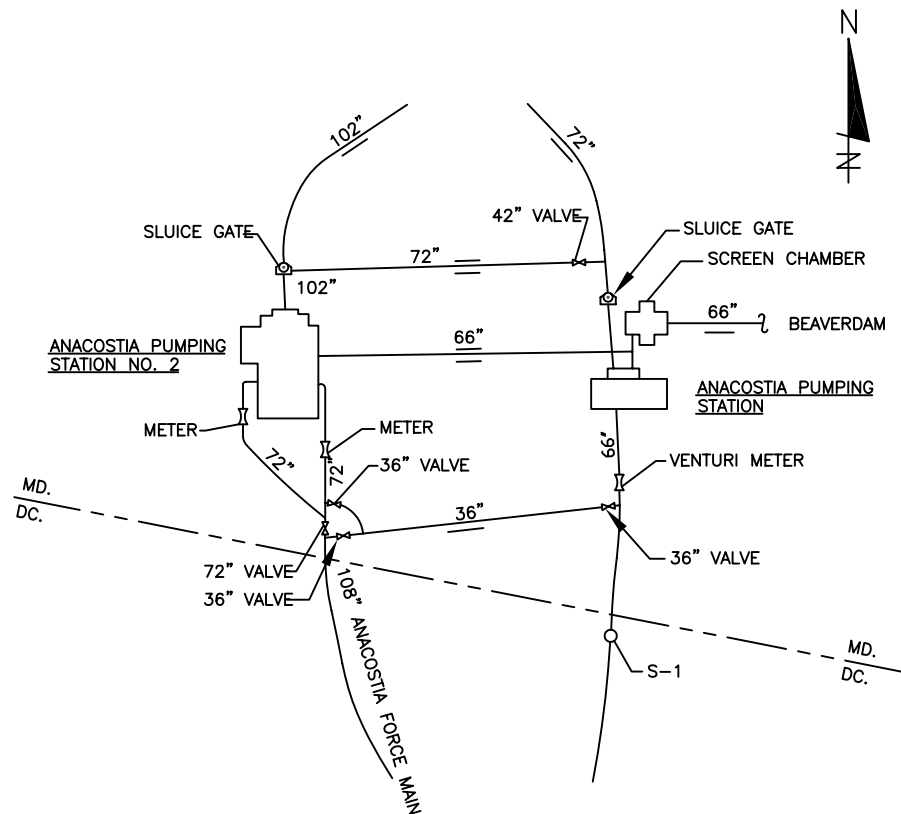
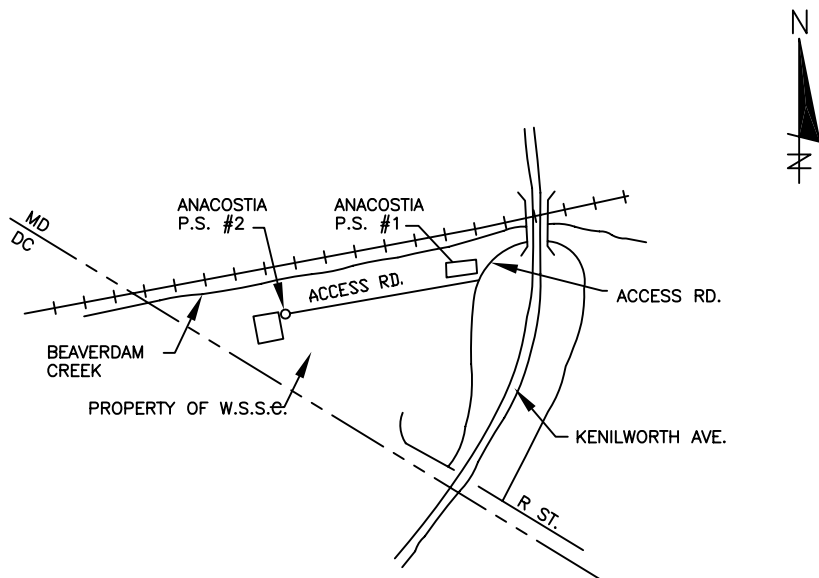
NOT TO SCALE

REVISED BY: EPMC-3A  
 REVISED DATE: OCTOBER 2004  
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.  
 PS-11, SH-2

# WSSC ANACOSTIA SEWAGE PUMPING STATIONS

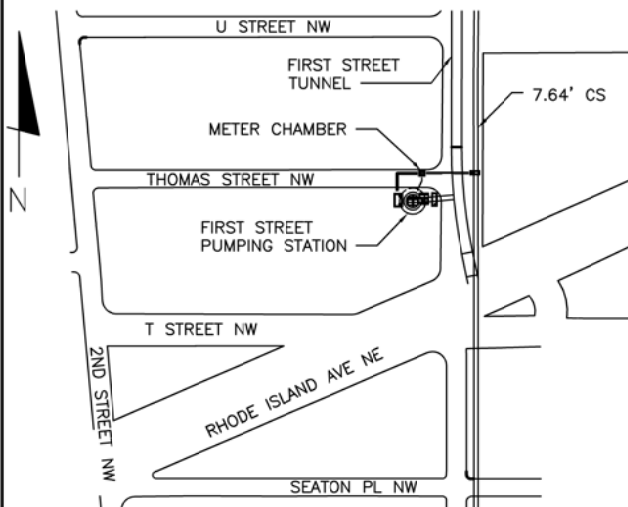
Anacostia Sewage Pumping Stations are owned and operated by Washington Suburban Sanitary Commission. Flows can be diverted to either Pumping Station through interconnecting 66" and 72" pipes. Both stations have external meters for measuring sanitary flows to the D.C. system. Discharge is primarily through 108" Anacostia Force Main.



## WSSC ANACOSTIA SEWAGE PUMPING STATION NOT TO SCALE

REVISED BY: EPMC-3A  
REVISED DATE: OCTOBER 2004  
ASSOCIATED NPDES OUTFALL # N/A

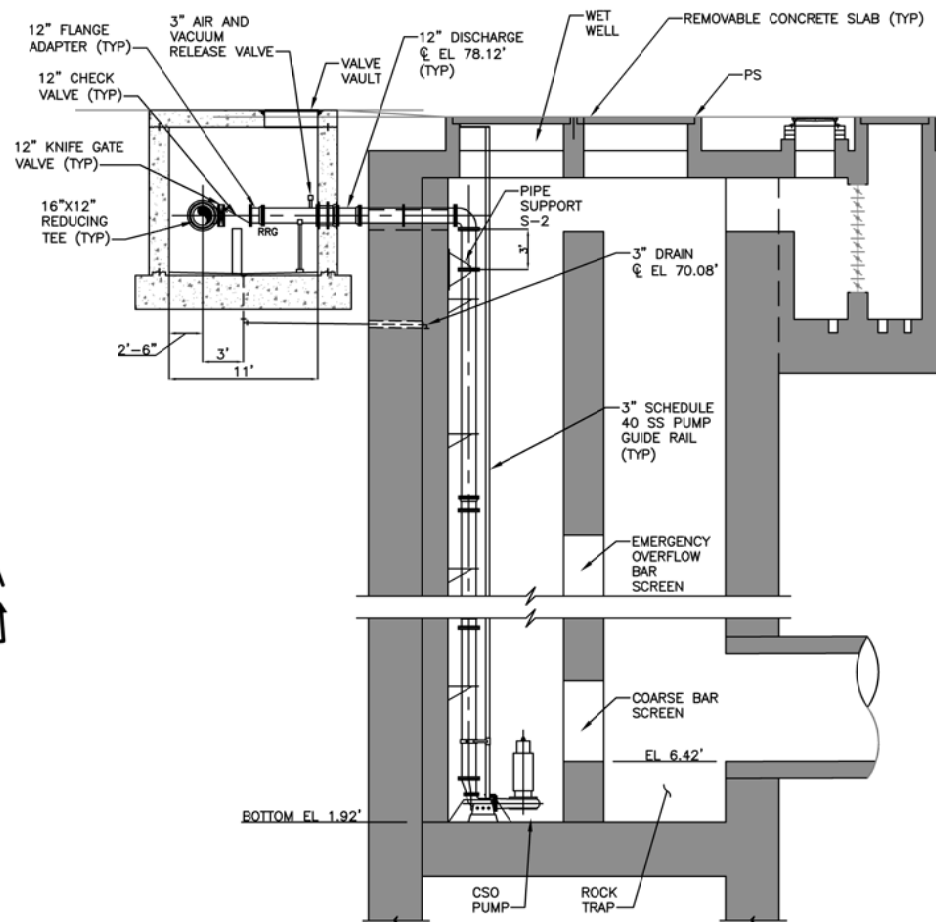
STRUCTURE NO.  
PS-12



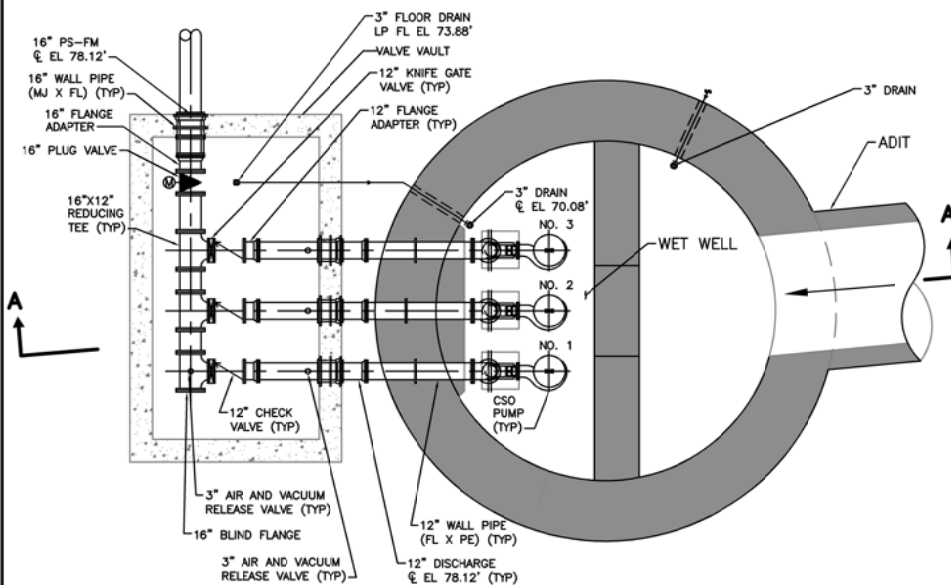
LOCATION PLAN  
NOT TO SCALE

# FIRST STREET PUMPING STATION

Once the First Street Tunnel is operational, this pumping station will deliver the storm water from the tunnel up into the sewer system to be treated at the Blue Plains AWWTP.



SECTION A-A  
NOT TO SCALE



PUMP STATION- PLAN  
NOT TO SCALE

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION  
REVISED DATE: MARCH 2016  
ASSOCIATED NPDES OUTFALL # N/A

## FIRST STREET PUMPING STATION

NOT TO SCALE

STRUCTURE NO.  
PS-13







# Combined Sewer System Structures Book



**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**  
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[www.dcwasa.com](http://www.dcwasa.com)

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## **APPENDIX 2-2**

### **Regulator Structure Capacities**



## Regulator Structure Capacities

Note: The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP.

Struct No.	Location	Capacity (mgd)
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Overflow , no diversion to interceptor
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Overflow , no diversion to interceptor
5	Poplar Point Pumping Station	Overflow , no diversion to interceptor
6	Chicago Street and Railroad Ave, SE	6.5
7	W Street. and Railroad Ave, SE	0.75
8	Good Hope Rd, west of Nichols Ave, SE	Overflow , no diversion to interceptor
9	13 <sup>th</sup> Street and Ridge Place, SE	4.3
11	"O" Street Pumping Station	Overflow , no diversion to interceptor
12	Storm Pump Discharge at Main Pumping Station	Overflow , no diversion to interceptor
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	2
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	120
15	South Capitol and E Streets	Overflow , no diversion to interceptor
15a	Half and L Streets, SE	Overflow , no diversion to interceptor
15b	South Capitol and I Streets	4.5
15c	South Capitol and I Streets	4.5
16	North of Main Sewage Pumping Station	190
17	4 <sup>th</sup> and N Streets, SE, Both Extended	2
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	13
18	6 <sup>th</sup> and M Streets, SE	7.5
19	9 <sup>th</sup> and M Streets, SE	1.1
19a	9 <sup>th</sup> and M Streets, SE	0.18
20	12 <sup>th</sup> and M Streets, SE	9.75
20a	12 <sup>th</sup> and M Streets, SE	9.5
21	14 <sup>th</sup> and M Streets, SE	24
22a	Barney Circle and Pennsylvania Ave, SE	0.25
22b	Barney Circle and Pennsylvania Ave, SE	0.25
22c	Barney Circle and Pennsylvania Ave, SE	0.25
22d	Kentucky Ave and Potomac Street, SE	6.5
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	12.5
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	5.5
24a	East Capitol St, west of RFK stadium	80
28	21 <sup>st</sup> and Constitution Ave, NW	5
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	20.5
30	17 <sup>th</sup> and D Streets, NW	6.75
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	4
33	10 <sup>th</sup> and F Streets, NW	7
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	45
34a	23 <sup>rd</sup> Street near C Street, NW	17
35	Northeast of Roosevelt Bridge, NW	165
36	27 <sup>th</sup> and I Streets, NW	165
36a	New Hampshire Ave and Eye Street, NW	2.6
36b	19 <sup>th</sup> and L Streets, NW	Overflow , no diversion to interceptor
36h	18 <sup>th</sup> and M Streets, NW	560, 52
37	27 <sup>th</sup> and Eye Streets, NW	50
38	29 <sup>th</sup> and K Streets, NW	26
38a	30 <sup>th</sup> Street, south of K Street, NW	26
39a	30 <sup>th</sup> and K Streets, NW	2
39b	30 <sup>th</sup> and K Streets, NW	1
41b	31 <sup>st</sup> and K Streets, NW	2.2
41c	31 <sup>st</sup> and K Streets, NW	0.1
42	Wisconsin Ave and K Street, NW	2.1
43	Potomac and Water Streets, NW	Overflow , no diversion to interceptor
43a	Potomac and Water Streets, NW	7.5
44	Water Street, west of Potomac St, NW	Overflow , no diversion to interceptor
45	36 <sup>th</sup> and M Streets, NW	2.5
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	11
47	38 <sup>th</sup> Street and Reservoir Road, NW	7.5
47a	37 <sup>th</sup> and T Streets, NW	7.5

### Regulator Structure Capacities

Note: The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP.

Struct No.	Location	Capacity (mgd)
47b	37 <sup>th</sup> and T Streets, NW	Junction chamber, no diversion
47c	38 <sup>th</sup> and W Streets, NW	2
49	Pennsylvania Ave, east side of Rock Creek, NW	0.25
50	26 and M Streets, NW	2.9
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	Overflow , no diversion to interceptor
52	22 <sup>nd</sup> Street between M and N Streets, NW	2.9
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	3
53	22 <sup>nd</sup> and M Streets, NW	46
53a	22 <sup>nd</sup> and M Streets, NW	32
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	19, 22
53c	L and 22 <sup>nd</sup> Streets, NW	2
54	23 <sup>rd</sup> and O Streets, NW	0.3
55	22 <sup>nd</sup> Street, south of Q Street, NW	140
55a	22 <sup>nd</sup> Street, south of Q Street, NW	650
56	23 <sup>rd</sup> and Massachusetts Ave, NW	13
57	23 <sup>rd</sup> Street, south of Q Street, NW	1.6
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, N	3.1
59	North of Belmont Rd, east of Kalorama Cir, NW	2.2
60	Connecticut Ave, east of Rock Creek, NW	14
61	Biltmore St, Extended, east of Rock Creek, NW	6.5
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	7
63	Harvard Street and Rock Creek Parkway, NW	9.5
64	Adams Mill Road, south of Irving Street, NW	21.5
65	Kenyon Street and Adams Mill Road, NW	1.5
65a	Kenyon Street and Adams Mill Road, NW	1.65
66	Adams Mill Road and Lamont Street, NW	6
67	Park Rd , south of Piney Branch Pkwy, NW	4.4
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	6.25
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	9.5
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	470
70i	5 <sup>th</sup> and Quackenbos Streets, NW	Internal flow junction
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	38
72	Olive Street Extended and Rock Creek Pkwy, NW	29
72a	Olive Street Extended and Rock Creek Pkwy, NW	1.5
73	O Street Extended and Rock Creek Parkway, NW	25
74	Q Street, west of Rock Creek, NW	0.5
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	Overflow, no diversion to interceptor
77	Normanstone Dr Extended, west of Rock Creek, NW	Overflow, no diversion to interceptor
77a	Normanstone Dr and Normanstone Lane, NW	Overflow, no diversion to interceptor
78	28th Street Extended, west of Rock Creek, NW	11.5
79	Connecticut Ave and Rock Creek Parkway, NW	1.1
84	26 <sup>th</sup> and P Streets, NW	3.3
84a	26 <sup>th</sup> and P Streets, NW	Internal flow junction

## **APPENDIX 2-3**

### **Inspection and Maintenance Summaries: Regulators**





## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures January 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/29/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	1/29/16	*			
5	Poplar Point Pumping Station	004	01/27/16	*			
6	Chicago Street and Railroad Ave, SE	005	01/06/16	*			
7	W Street and Railroad Ave, SE	005	01/06/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	01/06/16	*			
11	"O" Street Pumping Station	011(a)	01/27/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/05/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	01/08/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	01/08/16	*			
15	South Capitol and E Streets	010	01/26/16	*			
15a	Half and L Streets, SE	010	01/26/16	*			
15b	South Capitol and I Streets	010	01/08/16	*			
15c	South Capitol and I Streets	010	01/08/16	*			
16	North of Main Sewage Pumping Station	012	01/08/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	01/26/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	01/26/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	01/08/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	01/08/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	01/08/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	01/08/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	01/08/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	01/15/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	01/15/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	01/15/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/14/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/14/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	01/08/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	01/15/16	*			
24a	East Capitol St, west of RFK stadium	019	01/15/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	01/11/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	01/11/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	01/06/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	01/06/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	01/06/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	01/11/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	01/11/16	*			
35	Northeast of Roosevelt Bridge, NW	021	01/28/16	*			
36	27 <sup>th</sup> and I Streets, NW	022	01/06/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/06/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	01/11/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	01/11/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	01/11/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	01/11/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	01/06/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	01/04/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	01/04/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	01/04/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	01/11/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	01/04/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	01/04/16	*			
42	Wisconsin Ave and K Street, NW	026	01/12/16	*			
43	Potomac and Water Streets, NW	027	01/12/16	*			
43a	Potomac and Water Streets, NW	027	01/12/16	*			
44	Water Street, west of Potomac St, NW	027	01/12/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
45	36 <sup>th</sup> and M Streets, NW	028	01/05/16	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/05/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	01/05/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	01/05/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	01/05/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	01/05/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	01/29/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	01/29/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	01/27/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	01/27/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	01/27/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	01/27/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	01/27/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	01/27/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	01/12/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	01/12/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	01/12/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	01/12/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	01/12/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/29/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/29/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/29/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/14/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/14/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/14/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/14/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/14/16	*			
66	Adams Mill Road and Lamont Street, NW	045	01/14/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/14/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/14/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/14/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	01/14/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	01/11/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	01/07/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/12/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/12/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/12/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/29/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	01/29/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	01/27/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	01/12/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	01/12/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures February 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/09/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/09/16	*			
5	Poplar Point Pumping Station	004	02/17/16	*			
6	Chicago Street and Railroad Ave, SE	005	02/01/16	*			
7	W Street and Railroad Ave, SE	005	02/01/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	02/01/16	*			
11	"O" Street Pumping Station	011(a)	02/12/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/12/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	02/18/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	02/18/16	*			
15	South Capitol and E Streets	010	02/17/16	*			
15a	Half and L Streets, SE	010	02/17/16	*			
15b	South Capitol and I Streets	010	02/08/16	*			
15c	South Capitol and I Streets	010	02/08/16	*			
16	North of Main Sewage Pumping Station	012	02/10/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	02/10/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	02/10/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	02/02/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	02/02/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	02/02/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	02/02/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	02/02/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	02/02/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	02/02/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	02/02/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/02/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/02/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	02/02/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	02/02/16	*			
24a	East Capitol St, west of RFK stadium	019	02/02/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	02/05/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	02/05/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	02/05/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	02/05/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	02/05/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	02/05/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	02/05/16	*			
35	Northeast of Roosevelt Bridge, NW	021	02/05/16	*			
36	27 <sup>th</sup> and I Streets, NW	022	02/02/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/02/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	02/01/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	02/01/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	02/01/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	02/01/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	02/02/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	02/08/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	02/08/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	02/08/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	02/08/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	02/08/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	02/08/16	*			
42	Wisconsin Ave and K Street, NW	026	02/08/16	*			
43	Potomac and Water Streets, NW	027	02/08/16	*			
43a	Potomac and Water Streets, NW	027	02/08/16	*			
44	Water Street, west of Potomac St, NW	027	02/08/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
45	36 <sup>th</sup> and M Streets, NW	028	02/01/16	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/01/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	02/01/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	02/01/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	02/01/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	02/01/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	02/10/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	02/10/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	02/10/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	02/10/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	02/10/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	02/10/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	02/10/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	02/10/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	02/09/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	02/09/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	02/09/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	02/09/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	02/09/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/08/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/08/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/08/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/03/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/03/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/03/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/03/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/03/16	*			
66	Adams Mill Road and Lamont Street, NW	045	02/03/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/03/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/03/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/03/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	02/03/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	02/01/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	02/16/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/09/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/09/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/09/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/17/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	02/17/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	02/17/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	02/09/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	02/09/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.



## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures March 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/14/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/14/16	*			
5	Poplar Point Pumping Station	004	03/14/16	*			
6	Chicago Street and Railroad Ave, SE	005	03/04/16	*			
7	W Street and Railroad Ave, SE	005	03/04/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	03/04/16	*			
11	"O" Street Pumping Station	011(a)	03/14/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/15/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	03/14/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	03/14/16	*			
15	South Capitol and E Streets	010	03/17/16	*			
15a	Half and L Streets, SE	010	03/17/16	*			
15b	South Capitol and I Streets	010	03/07/16	*			
15c	South Capitol and I Streets	010	03/07/16	*			
16	North of Main Sewage Pumping Station	012	03/14/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	03/08/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	03/08/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	03/02/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	03/01/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	03/01/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	03/01/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	03/01/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	03/01/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	03/02/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	03/02/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/02/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/01/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	03/01/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	03/07/16	*			
24a	East Capitol St, west of RFK stadium	019	03/07/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	03/16/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	03/16/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	03/04/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	03/04/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	03/04/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	03/17/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	03/16/16	*			
35	Northeast of Roosevelt Bridge, NW	021	03/17/16	*			
36	27 <sup>th</sup> and I Streets, NW	022	03/04/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/04/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	03/04/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	03/04/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	03/04/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	03/04/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	03/04/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	03/02/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	03/02/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	03/02/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	03/02/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	03/02/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	03/02/16	*			
42	Wisconsin Ave and K Street, NW	026	03/02/16	*			
43	Potomac and Water Streets, NW	027	03/02/16	*			
43a	Potomac and Water Streets, NW	027	03/02/16	*			
44	Water Street, west of Potomac St, NW	027	03/02/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	03/01/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/01/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	03/01/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	03/01/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	03/01/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	03/01/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	03/11/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	03/11/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	03/17/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	03/17/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	03/16/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	03/16/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	03/07/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	03/07/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	03/07/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	03/07/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	03/07/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	03/07/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	03/07/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/11/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/01/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/01/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/09/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/09/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/09/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/09/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/10/16	*			
66	Adams Mill Road and Lamont Street, NW	045	03/09/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	03/09/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/09/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/09/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	03/09/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	03/02/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	03/08/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/07/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/07/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/07/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/08/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	03/08/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	03/08/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	03/07/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	03/07/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures April 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/13/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/13/16	*			
5	Poplar Point Pumping Station	004	04/18/16	*			
6	Chicago Street and Railroad Ave, SE	005	04/04/16	*			
7	W Street and Railroad Ave, SE	005	04/04/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	04/04/16	*			
11	"O" Street Pumping Station	011(a)	04/22/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/13/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	04/08/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	04/08/16	*			
15	South Capitol and E Streets	010	04/14/16	*			
15a	Half and L Streets, SE	010	04/14/16	*			
15b	South Capitol and I Streets	010	04/05/16	*			
15c	South Capitol and I Streets	010	04/05/16	*			
16	North of Main Sewage Pumping Station	012	04/08/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	04/08/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	04/08/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	04/01/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	04/04/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	04/04/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	04/04/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	04/04/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	04/04/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	04/01/16	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	04/01/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22c	Barney Circle and Pennsylvania Ave, SE	018	04/01/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/01/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	04/01/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	04/05/16	*			
24a	East Capitol St, west of RFK stadium	019	04/05/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	04/15/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	04/15/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	04/05/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	04/05/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	04/05/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	04/14/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	04/15/16	*			
35	Northeast of Roosevelt Bridge, NW	021					16-265684 No Access due to construction in vicinity of structure. Expected date of completion 2017
36	27 <sup>th</sup> and I Streets, NW	022	04/05/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/05/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	04/08/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	04/08/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	04/08/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	04/08/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	04/05/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	04/04/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	04/04/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	04/04/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	04/04/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	04/04/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	04/04/16	*			
42	Wisconsin Ave and K Street, NW	026	04/08/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	04/08/16	*			
43a	Potomac and Water Streets, NW	027	04/08/16	*			
44	Water Street, west of Potomac St, NW	027	04/08/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	04/01/16	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/01/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	04/01/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	04/01/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	04/01/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	04/01/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	04/11/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	04/11/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	04/14/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	04/15/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	04/15/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	04/15/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	04/08/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	04/08/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	04/11/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	04/11/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	04/11/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	04/11/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	04/11/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	04/01/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/01/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/01/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/06/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	04/06/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/06/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/06/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/06/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
66	Adams Mill Road and Lamont Street, NW	045	04/06/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	04/06/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/06/16	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/06/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	04/06/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	04/05/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	04/12/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/11/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/11/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/11/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/12/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	04/12/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	04/12/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	04/11/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	04/11/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.



## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures May 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/18/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/18/16	*			
5	Poplar Point Pumping Station	004	05/18/16	*			
6	Chicago Street and Railroad Ave, SE	005	05/02/16	*			
7	W Street and Railroad Ave, SE	005	05/02/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	05/02/16	*			
11	"O" Street Pumping Station	011(a)	05/19/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/19/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	05/18/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	05/18/16	*			
15	South Capitol and E Streets	010	05/24/16	*			
15a	Half and L Streets, SE	010	05/24/16	*		16-395594 Cracks found in main. Further investigation req'd by Eng. Dept.	
15b	South Capitol and I Streets	010	05/12/16	*			
15c	South Capitol and I Streets	010	05/12/16	*			
16	North of Main Sewage Pumping Station	012	05/18/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	05/13/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	05/18/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	05/02/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	05/03/16	*			

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				Good	Needs Work		
19a	9 <sup>th</sup> and M Streets, SE	015	05/03/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	05/03/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	05/03/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	05/03/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	05/16/16	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/16/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/16/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/16/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	05/16/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	05/03/16	*			
24a	East Capitol St, west of RFK stadium	019	05/03/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	05/10/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	05/10/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	05/03/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	05/03/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	05/03/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	05/24/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	05/10/16	*			
35	Northeast of Roosevelt Bridge, NW	021					16-311803 No Access due to construction in vicinity of structure. Est. completion 2017
36	27 <sup>th</sup> and I Streets, NW	022	05/10/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/10/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	05/16/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	05/16/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	05/16/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	05/16/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	05/10/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	05/09/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	05/09/16	*			

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				Good	Needs Work		
39a	30 <sup>th</sup> and K Streets, NW	024	05/09/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	05/09/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	05/09/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	05/09/16	*			
42	Wisconsin Ave and K Street, NW	026	05/09/16	*			
43	Potomac and Water Streets, NW	027	05/09/16	*			
43a	Potomac and Water Streets, NW	027	05/09/16	*			
44	Water Street, west of Potomac St, NW	027	05/09/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	05/02/16	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/02/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	05/02/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	05/02/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	05/02/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	05/02/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	05/16/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	05/16/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	05/24/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	05/24/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	05/20/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	05/20/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	05/18/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	05/18/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	05/13/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	05/13/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	05/13/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	05/13/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	05/13/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	05/03/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/03/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/03/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/04/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	05/04/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/04/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/04/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/04/16	*			
66	Adams Mill Road and Lamont Street, NW	045	05/04/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	05/04/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/04/16	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/04/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	05/04/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	05/02/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	05/20/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/16/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	05/13/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/13/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	05/12/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	05/12/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	05/12/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	05/13/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	05/13/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures June 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
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4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/14/16	*			
5	Poplar Point Pumping Station	004	06/17/16	*			
6	Chicago Street and Railroad Ave, SE	005	06/01/16	*			
7	W Street and Railroad Ave, SE	005	06/01/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	06/01/16	*			
11	"O" Street Pumping Station	011(a)	06/17/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/20/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	06/15/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	06/15/16	*			
15	South Capitol and E Streets	010	06/21/16	*			
15a	Half and L Streets, SE	010	06/21/16	*			16-395594 Cracks found in main. Further investigation req'd by Eng. Dept.
15b	South Capitol and I Streets	010	06/06/16	*			
15c	South Capitol and I Streets	010	06/06/16	*			
16	North of Main Sewage Pumping Station	012	06/16/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	06/06/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	06/15/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	06/07/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	06/01/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	06/01/16	*			
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28	21 <sup>st</sup> and Constitution Ave, NW	020	06/03/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	06/03/16	*			
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31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	06/06/16	*			
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36g	18 <sup>th</sup> and M Streets, NW	022, 034	06/10/16	*			
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38	29 <sup>th</sup> and K Streets, NW	024	06/06/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	06/06/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	06/06/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	06/06/16	*			
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42	Wisconsin Ave and K Street, NW	026	06/07/16	*			
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43a	Potomac and Water Streets, NW	027	06/07/16	*			
44	Water Street, west of Potomac St, NW	027	06/07/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	06/01/16	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/01/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	06/01/16	*			
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53	22 <sup>nd</sup> and M Streets, NW	022, 034	06/21/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	06/21/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	06/17/16	*			
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19	9 <sup>th</sup> and M Streets, SE	015	07/11/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	07/11/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	07/11/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	07/11/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	07/11/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	07/11/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	07/11/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/11/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/11/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	07/11/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	07/19/16	*			
24a	East Capitol St, west of RFK stadium	019	07/19/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	07/15/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	07/15/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	07/12/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	07/12/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	07/12/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	07/26/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	07/15/16	*			
35	Northeast of Roosevelt Bridge, NW	021	07/29/16	*			See note #3
36	27 <sup>th</sup> and I Streets, NW	022	07/15/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	07/15/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	07/08/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	07/08/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	07/08/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	07/08/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	07/15/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	07/08/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	07/08/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	07/08/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	07/08/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	07/08/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	07/08/16	*			
42	Wisconsin Ave and K Street, NW	026	07/08/16	*			
43	Potomac and Water Streets, NW	027	07/08/16	*			
43a	Potomac and Water Streets, NW	027	07/08/16	*			
44	Water Street, west of Potomac St, NW	027	07/08/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	07/19/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	07/19/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	07/19/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	07/19/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	07/19/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	07/19/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	07/25/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	07/25/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	07/26/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	07/26/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	07/26/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	07/26/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	07/25/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	07/25/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	07/20/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	07/20/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	07/20/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	07/20/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	07/20/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	07/06/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/06/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/06/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/13/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/13/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/13/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/13/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/13/16	*			
66	Adams Mill Road and Lamont Street, NW	045	07/13/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	07/13/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/13/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/13/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	07/13/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	07/06/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	07/27/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/20/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/20/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/20/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/07/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	07/07/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	07/07/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	07/20/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	07/20/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Inspection was conducted via a closed circuit television camera lowered into structure 35 to record inside conditions. Construction in the area prevents safe access into the structure.

## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures August 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/19/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/19/16	*			
5	Poplar Point Pumping Station	004	08/16/16	*			
6	Chicago Street and Railroad Ave, SE	005	08/02/16	*			
7	W Street and Railroad Ave, SE	005	08/02/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	08/02/16	*			
11	"O" Street Pumping Station	011(a)	08/19/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	08/22/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	08/19/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	08/05/16	*			
15	South Capitol and E Streets	010	08/16/16	*			
15a	Half and L Streets, SE	010	08/16/16	*			
15b	South Capitol and I Streets	010	08/10/16	*			
15c	South Capitol and I Streets	010	08/10/16	*			
16	North of Main Sewage Pumping Station	012	08/05/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	08/08/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	08/19/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	08/05/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	08/03/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	08/03/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	08/03/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	08/03/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	08/03/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	08/10/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	08/10/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	08/10/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	08/03/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	08/03/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	08/08/16	*			
24a	East Capitol St, west of RFK stadium	019	08/08/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	08/09/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	08/09/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	08/03/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	08/03/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	08/03/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	08/16/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	08/09/16	*			
35	Northeast of Roosevelt Bridge, NW	021	08/18/16	*			See Note #3
36	27 <sup>th</sup> and I Streets, NW	022	08/08/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	08/08/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	08/08/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	08/08/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	08/08/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	08/08/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	08/08/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	08/05/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	08/05/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	08/05/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	08/05/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	08/05/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	08/05/16	*			
42	Wisconsin Ave and K Street, NW	026	08/15/16	*			
43	Potomac and Water Streets, NW	027	08/15/16	*			
43a	Potomac and Water Streets, NW	027	08/15/16	*			
44	Water Street, west of Potomac St, NW	027	08/15/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	08/01/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	08/01/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	08/01/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	08/01/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	08/01/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	08/01/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	08/15/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	08/15/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	08/16/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	08/16/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	08/16/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	08/16/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	08/08/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	08/08/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	08/12/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	08/12/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	08/12/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	08/12/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	08/12/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	08/02/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	08/02/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	08/02/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	08/10/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	08/10/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	08/10/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	08/10/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	08/10/16	*			
66	Adams Mill Road and Lamont Street, NW	045	08/10/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	08/10/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	08/10/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	08/10/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	08/10/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	08/01/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	08/15/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	08/12/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	08/12/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	08/12/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	08/15/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	08/15/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	08/15/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	08/12/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	08/12/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Inspection was conducted via a closed circuit television camera lowered into structure 35 to record inside conditions. Construction in the area prevents safe access into the structure.



## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures September 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/26/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/26/16	*			
5	Poplar Point Pumping Station	004	09/27/16	*			
6	Chicago Street and Railroad Ave, SE	005	09/11/16	*			
7	W Street and Railroad Ave, SE	005	09/12/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	09/11/16	*			
11	"O" Street Pumping Station	011(a)	09/26/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	09/22/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	09/21/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	09/21/16	*			
15	South Capitol and E Streets	010	09/12/16	*			
15a	Half and L Streets, SE	010	09/12/16	*			
15b	South Capitol and I Streets	010	09/15/16	*			
15c	South Capitol and I Streets	010	09/15/16	*			
16	North of Main Sewage Pumping Station	012	09/26/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	09/15/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	09/21/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	09/15/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	09/21/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	09/22/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	09/22/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	09/22/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	09/22/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	09/22/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	09/22/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	09/22/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	09/15/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	09/15/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	09/15/16	*			
24a	East Capitol St, west of RFK stadium	019	09/15/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	09/15/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	09/15/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	09/15/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	09/15/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	09/15/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	09/15/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	09/15/16	*			
35	Northeast of Roosevelt Bridge, NW	021	09/09/16	*			See Note 3
36	27 <sup>th</sup> and I Streets, NW	022	09/15/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	09/15/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	09/15/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	09/15/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	09/15/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	09/15/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	09/15/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	09/15/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	09/15/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	09/15/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	09/15/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	09/15/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	09/15/16	*			
42	Wisconsin Ave and K Street, NW	026	09/15/16	*			
43	Potomac and Water Streets, NW	027	09/15/16	*			
43a	Potomac and Water Streets, NW	027	09/15/16	*			
44	Water Street, west of Potomac St, NW	027	09/15/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	09/15/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	09/06/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	09/15/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	09/15/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	09/06/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	09/15/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	09/21/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	09/21/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	09/15/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	09/15/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	09/15/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	09/15/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	09/26/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	09/26/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	09/21/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	09/21/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	09/21/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	09/21/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	09/21/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	09/12/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	09/15/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	09/15/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	09/15/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	09/11/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	09/11/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	09/12/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	09/12/16	*			
66	Adams Mill Road and Lamont Street, NW	045	09/12/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	09/12/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	09/11/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	09/12/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	09/12/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	09/26/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	09/15/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	09/15/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	09/15/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	09/15/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	09/21/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	09/21/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	09/22/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	09/15/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	09/15/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Contractors have compacted soil/gravel around the access manhole. DSS crews have access to enter structure safely and conduct their routine inspections without lowering a camera into manhole.

## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures October 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/18/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/18/16	*			
5	Poplar Point Pumping Station	004	10/27/16	*			
6	Chicago Street and Railroad Ave, SE	005	10/12/16	*			
7	W Street and Railroad Ave, SE	005	10/12/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	10/12/16	*			
11	"O" Street Pumping Station	011(a)	10/27/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/24/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	10/06/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	10/11/16	*			
15	South Capitol and E Streets	010	10/14/16	*			
15a	Half and L Streets, SE	010	10/14/16	*			
15b	South Capitol and I Streets	010	10/17/16	*			
15c	South Capitol and I Streets	010	10/18/16	*			
16	North of Main Sewage Pumping Station	012	10/05/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	10/12/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	10/19/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	10/05/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	10/05/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	10/05/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	10/05/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	10/05/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	10/05/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/14/16	*			

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				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	10/14/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/14/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/12/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	10/12/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	10/19/16	*			
24a	East Capitol St, west of RFK stadium	019	10/19/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	10/19/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	10/19/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	10/12/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	10/12/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	10/12/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	10/14/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	10/19/16	*			
35	Northeast of Roosevelt Bridge, NW	021	10/19/16	*			
36	27 <sup>th</sup> and I Streets, NW	022	10/19/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/19/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	10/19/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	10/19/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	10/19/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	10/19/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	10/19/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	10/05/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	10/05/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	10/05/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	10/05/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	10/05/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	10/05/16	*			
42	Wisconsin Ave and K Street, NW	026	10/12/16	*			
43	Potomac and Water Streets, NW	027	10/12/16	*			
43a	Potomac and Water Streets, NW	027	10/12/16	*			
44	Water Street, west of Potomac St, NW	027	10/12/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	10/12/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/12/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	10/12/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	10/12/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	10/12/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	10/12/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	10/20/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	10/20/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	10/14/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	10/14/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	10/20/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	10/20/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	10/19/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	10/19/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	10/18/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	10/19/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	10/19/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	10/19/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	10/19/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/24/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/24/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/24/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/14/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/14/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/14/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/14/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/14/16	*			
66	Adams Mill Road and Lamont Street, NW	045	10/14/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	10/14/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/14/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/14/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	10/14/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	10/06/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	10/20/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/19/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/18/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/19/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/24/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	10/24/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	10/24/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	10/18/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	10/19/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.



## Regulators

The following table summarizes inspections of regulators in the collection system.

### Regulator Structures November 2016

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/21/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/21/16	*			
5	Poplar Point Pumping Station	004	11/29/16	*			
6	Chicago Street and Railroad Ave, SE	005	11/03/16	*			
7	W Street and Railroad Ave, SE	005	11/03/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	11/03/16	*			
11	"O" Street Pumping Station	011(a)	11/29/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/29/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	11/25/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	11/25/16	*			
15	South Capitol and E Streets	010	11/21/16	*			
15a	Half and L Streets, SE	010	11/21/16	*			
15b	South Capitol and I Streets	010	11/14/16	*			
15c	South Capitol and I Streets	010	11/14/16	*			
16	North of Main Sewage Pumping Station	012	11/25/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	11/14/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	11/30/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	11/14/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	11/14/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	11/14/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	11/16/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	11/16/16	*			
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22a	Barney Circle and Pennsylvania Ave, SE	018	11/09/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
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22b	Barney Circle and Pennsylvania Ave, SE	018	11/09/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/09/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/09/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	11/09/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	11/10/16	*			
24a	East Capitol St, west of RFK stadium	019	11/10/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	11/25/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	11/25/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	11/14/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	11/14/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	11/14/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	11/21/16	*			
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35	Northeast of Roosevelt Bridge, NW	021	11/28/16	*			
36	27 <sup>th</sup> and I Streets, NW	022	11/25/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/25/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	11/03/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	11/03/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	11/03/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	11/03/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	11/25/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	11/09/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	11/08/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	11/09/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	11/09/16	*			
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42	Wisconsin Ave and K Street, NW	026	11/21/16	*			
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44	Water Street, west of Potomac St, NW	027	11/21/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	11/10/16	*			

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49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	11/29/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	11/29/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	11/21/16	*			
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58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/08/16	*			
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70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	11/03/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	11/08/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/29/16	*			
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73	O Street Extended and Rock Creek Parkway, NW	052	11/29/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/16/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	11/16/16	*			
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78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	11/28/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	11/28/16	*			

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2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/19/16	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/19/16	*			
5	Poplar Point Pumping Station	004	12/22/16	*			
6	Chicago Street and Railroad Ave, SE	005	12/12/16	*			
7	W Street and Railroad Ave, SE	005	12/12/16	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE	007	12/12/16	*			
11	"O" Street Pumping Station	011(a)	12/21/16	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/15/16	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	12/13/16	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	12/13/16	*			
15	South Capitol and E Streets	010	12/21/16	*			
15a	Half and L Streets, SE	010	12/21/16	*			
15b	South Capitol and I Streets	010	12/12/16	*			
15c	South Capitol and I Streets	010	12/12/16	*			
16	North of Main Sewage Pumping Station	012	12/20/16	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	12/12/16	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE	013	12/22/16	*			
18	6 <sup>th</sup> and M Streets, SE	014	12/12/16	*			
19	9 <sup>th</sup> and M Streets, SE	015	12/12/16	*			
19a	9 <sup>th</sup> and M Streets, SE	015	12/12/16	*			
20	12 <sup>th</sup> and M Streets, SE	016	12/12/16	*			
20a	12 <sup>th</sup> and M Streets, SE	016	12/12/16	*			
21	14 <sup>th</sup> and M Streets, SE	017	12/12/16	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/12/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	12/12/16	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/12/16	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/12/16	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	12/12/16	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	12/12/16	*			
24a	East Capitol St, west of RFK stadium	019	12/12/16	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	12/13/16	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	12/13/16	*			
30	17 <sup>th</sup> and D Streets, NW	020	12/12/16	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	12/12/16	*			
33	10 <sup>th</sup> and F Streets, NW	020	12/12/16	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	12/21/16	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	12/13/16	*			
35	Northeast of Roosevelt Bridge, NW	021	12/22/16	*			
36	27 <sup>th</sup> and I Streets, NW	022	12/13/16	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/13/16	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	12/12/16	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	12/12/16	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	12/12/16	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	12/12/16	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	12/13/16	*			
38	29 <sup>th</sup> and K Streets, NW	024	12/12/16	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	12/12/16	*			
39a	30 <sup>th</sup> and K Streets, NW	024	12/12/16	*			
39b	30 <sup>th</sup> and K Streets, NW	024	12/12/16	*			
41b	31 <sup>st</sup> and K Streets, NW	025	12/12/16	*			
41c	31 <sup>st</sup> and K Streets, NW	025	12/12/16	*			
42	Wisconsin Ave and K Street, NW	026	12/30/16	*			
43	Potomac and Water Streets, NW	027	12/13/16	*			
43a	Potomac and Water Streets, NW	027	12/13/16	*			
44	Water Street, west of Potomac St, NW	027	12/13/16	*			
45	36 <sup>th</sup> and M Streets, NW	028	12/12/16	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/12/16	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	12/12/16	*			
47a	37 <sup>th</sup> and T Streets, NW	029	12/12/16	*			
47b	37 <sup>th</sup> and T Streets, NW	029	12/12/16	*			
47c	38 <sup>th</sup> and W Streets, NW	029	12/12/16	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	12/20/16	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	12/20/16	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	12/21/16	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	12/20/16	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	12/20/16	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	12/20/16	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	12/12/16	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	12/12/16	*			
54	23 <sup>rd</sup> and O Streets, NW	034	12/12/16	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	12/12/16	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	12/12/16	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	12/12/16	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	12/12/16	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/12/16	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/12/16	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/12/16	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/15/16	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/14/16	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/14/16	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/14/16	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/14/16	*			
66	Adams Mill Road and Lamont Street, NW	045	12/14/16	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/14/16	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/14/16	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/14/16	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	12/14/16	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	12/12/16	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	12/12/16	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/12/16	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/12/16	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/12/16	*			
74 <sup>1</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/12/16	*			
77 <sup>1</sup>	Normanstone Dr Extended, west of Rock Creek, NW	056	12/12/16	*			
77a <sup>1</sup>	Normanstone Dr and Normanstone Lane, NW	056	12/12/16	*			
78 <sup>1</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>1</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	12/12/16	*			
84a	26 <sup>th</sup> and P Streets, NW	060	12/12/16	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.



## **APPENDIX 2-4**

### **Inspection and Maintenance Summaries: Outfalls and Tide Gates**



### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates January 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	01/07/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/07/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	01/07/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/05/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/05/16	*			*			*		
011	Main Sewage Pumping Station, SE	01/05/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/05/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/05/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	01/07/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	01/05/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/05/16	*			*			*		
016	12th and O Streets, SE	01/05/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	01/05/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	01/05/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	01/05/16	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/28/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/28/16	*			*			*		
022	Rock Creek Parkway and G St., NW	01/28/16	*		*		*			*	Repair WO #16-215808. Expected completion date 2/29/2016
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	01/28/16	*		*		*		*		
025	South of 31st and K Streets, NW	01/28/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/28/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	01/28/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/28/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	01/28/16	*		*		*		*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	01/29/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/29/16	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/12/16	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/12/16	*			*			*		
036	22nd Street, South of Q Street NW.	01/07/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/29/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/29/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/29/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/07/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/07/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/07/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/07/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/07/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/14/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
047	Piney Branch Parkway and Ingleside Terrace	01/14/16	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	01/14/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	01/14/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/07/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/29/16	*		*			*	*		Repair WO #16-136716. Expected completion date 2/29/2016
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/29/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	01/29/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	01/29/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/07/16	*		*		*		*		

Notes:

1. Outfall no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates February 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	02/09/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/04/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	02/04/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/12/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/12/16	*			*			*		
011	Main Sewage Pumping Station, SE	02/12/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/12/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/12/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	02/12/16	*		*		*			*	Due to pier construction. Expected completion date 3/18/2016
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	02/12/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/18/16	*			*			*		





NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
032	26th and M Street, NW.	02/10/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/10/16	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/09/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	02/09/16	*			*			*		
036	22nd Street, South of Q Street NW.	02/16/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/08/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/08/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/08/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/16/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/16/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/16/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/16/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/16/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
046	Piney Branch Parkway and Park Road, NW.	02/03/16	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/03/16	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	02/03/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	02/03/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/16/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/17/16	*		*			*	*		Repair WO #16-136716. Expected completion date 3/18/2016
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/17/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/17/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	02/17/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/16/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates March 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	03/14/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/03/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	03/03/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/15/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/15/16	*			*			*		
011	Main Sewage Pumping Station, SE	03/15/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/15/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/15/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	03/15/16	*		*		*		*		CSO Sign Installed 3/24/2016
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	03/15/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/15/16	*			*			*		

[illegible]

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
032	26th and M Street, NW.	03/11/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/11/16	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/07/16	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	03/07/16	*			*			*		
036	22nd Street, South of Q Street NW.	03/10/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/11/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/01/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/01/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/10/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/10/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/10/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/10/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/10/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
046	Piney Branch Parkway and Park Road, NW.	03/09/16	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/09/16	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	03/10/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	03/09/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/08/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/10/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/10/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/08/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	03/08/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	03/10/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates April 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	04/13/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/15/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	04/15/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/13/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/13/16	*			*			*		
011	Main Sewage Pumping Station, SE	04/13/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/13/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/13/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	04/13/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	04/13/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/13/16	*			*			*		
016	12th and O Streets, SE	04/12/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	04/12/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	04/12/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	04/05/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	04/07/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/17/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	04/07/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	04/07/16	*		*		*		*		
025	South of 31st and K Streets, NW	04/07/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/07/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	04/07/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/07/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	04/07/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	04/11/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	04/11/16	*		*		*		*		



NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
034	Just west of St. Francis Jr. High and north of N St., NW	04/11/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	04/11/16	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/12/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/01/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/01/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/01/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/13/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/13/13	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/13/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	04/13/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/13/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/06/16	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	04/06/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	04/06/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	04/06/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/12/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	04/19/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	04/19/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	04/12/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	04/12/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	04/12/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates May 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	05/18/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/10/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	05/19/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/19/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/19/16	*			*			*		
011	Main Sewage Pumping Station, SE	05/19/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/19/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/19/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	05/19/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	05/19/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/19/16	*			*			*		
016	12th and O Streets, SE	05/09/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	05/19/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	05/09/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	05/19/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	05/20/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/20/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	05/05/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	05/05/16	*		*		*		*		
025	South of 31st and K Streets, NW	05/05/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/05/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	05/05/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/05/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	05/05/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	05/16/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/16/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
034	Just west of St. Francis Jr. High and north of N St., NW	05/13/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	05/13/16	*			*			*		
036	22nd Street, South of Q Street NW.	05/18/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/03/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/03/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/20/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/10/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	05/10/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	05/10/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/10/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	05/10/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/04/16	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	05/10/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	05/04/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	05/04/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	05/20/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	05/12/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	05/12/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	05/12/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	05/12/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	05/18/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates June 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	06/13/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/02/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	06/02/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/20/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/20/16	*			*			*		
011	Main Sewage Pumping Station, SE	06/20/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/20/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/20/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	06/20/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	06/20/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/20/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
016	12th and O Streets, SE	06/15/16	*		*		*		*		
017	M and Water Street, SE	06/20/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	06/14/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	06/02/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	06/02/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/02/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	06/02/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	06/02/16	*		*		*		*		
025	South of 31st and K Streets, NW	06/02/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/02/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	06/02/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/02/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	06/02/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	06/09/16	*			*			*		



NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/09/16	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/14/16	*		*				*		
035	P St. Bridge and Rock Creek Parkway	06/14/16	*		*				*		
036	22nd Street, South of Q Street NW.	06/09/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/01/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/01/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/01/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/09/16	*			*			*		
042	Harvard St. and Beach Dr NW.	06/09/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/09/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/09/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/09/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/15/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
047	Piney Branch Parkway and Ingleside Terrace	06/15/16	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	06/15/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	06/15/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/03/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	06/16/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	06/16/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	06/07/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	06/07/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	06/09/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates July 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	07/22/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/18/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	07/18/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/21/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/21/16	*			*			*		
011	Main Sewage Pumping Station, SE	07/21/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	07/21/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/21/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	07/21/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	07/21/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/21/16	*			*			*		
016	12th and O Streets, SE	07/18/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	07/06/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	07/18/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	07/07/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	07/28/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/28/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	07/28/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	07/28/16	*		*		*		*		
025	South of 31st and K Streets, NW	07/28/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/28/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	07/28/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	07/28/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	07/28/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	07/25/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	07/25/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
034	Just west of St. Francis Jr. High and north of N St., NW	07/20/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	07/20/16	*			*			*		
036	22nd Street, South of Q Street NW.	07/28/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/06/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/06/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/06/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	07/07/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	07/07/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	07/07/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	07/07/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	07/07/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	07/13/16	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	07/13/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	07/13/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	07/13/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	07/27/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	07/28/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	07/28/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	07/07/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	07/07/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	07/28/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates August 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	08/19/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	08/04/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	08/04/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	08/26/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	08/22/16	*			*			*		
011	Main Sewage Pumping Station, SE	08/22/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	08/22/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	08/22/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	08/22/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	08/22/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	08/22/16	*			*			*		
016	12th and O Streets, SE	08/22/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	08/22/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	08/22/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	08/23/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	08/11/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	08/11/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	08/11/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	08/11/16	*		*		*		*		
025	South of 31st and K Streets, NW	08/11/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	08/11/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	08/11/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	08/11/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	08/11/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	08/15/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	08/15/16	*		*		*		*		



NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
034	Just west of St. Francis Jr. High and north of N St., NW	08/12/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	08/12/16	*			*			*		
036	22nd Street, South of Q Street NW.	08/04/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	08/02/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	08/02/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	08/02/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	08/22/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	08/22/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	08/22/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	08/22/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	08/22/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	08/10/16	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	08/10/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	08/10/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	08/10/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	08/15/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	08/04/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	08/04/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	08/15/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	08/15/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	08/04/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates September 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	09/26/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	09/26/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	09/09/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	09/22/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	09/22/16	*			*			*		
011	Main Sewage Pumping Station, SE	09/22/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	09/22/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	09/22/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	09/22/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	09/22/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	09/22/16	*			*			*		
016	12th and O Streets, SE	09/22/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	09/22/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	09/22/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	09/09/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	09/22/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	09/22/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	09/22/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	09/22/16	*		*		*		*		
025	South of 31 <sup>st</sup> and K Streets, NW	09/22/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	09/22/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	09/22/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	09/22/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	09/22/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	09/21/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	09/21/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
034	Just west of St. Francis Jr. High and north of N St., NW	09/21/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	09/21/16	*			*			*		
036	22nd Street, South of Q Street NW.	09/26/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	09/11/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	09/09/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	09/11/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	09/11/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	09/11/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	09/11/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	09/11/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	09/09/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	09/09/16	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	09/09/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	09/09/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	09/09/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	09/09/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	09/12/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	09/11/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	09/21/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	09/21/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	09/26/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates October 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	10/18/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/11/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	10/11/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/24/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/24/16	*			*			*		
011	Main Sewage Pumping Station, SE	10/24/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/24/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/24/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	10/24/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	10/24/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/24/16	*			*			*		
016	12th and O Streets, SE	10/20/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
017	M and Water Street, SE	10/20/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	10/20/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	10/20/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	10/11/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/11/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	10/11/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	10/11/16	*		*		*		*		
025	South of 31 <sup>st</sup> and K Streets, NW	10/11/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/11/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	10/11/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/11/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	10/11/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	10/20/16	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/20/16	*		*		*		*		



NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
034	Just west of St. Francis Jr. High and north of N St., NW	10/18/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	10/18/16	*			*			*		
036	22nd Street, South of Q Street NW.	10/20/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/24/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/24/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/24/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/20/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/20/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/20/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/20/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/20/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/14/16	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/14/16	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	10/14/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	10/14/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/20/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/20/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/20/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/24/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	10/24/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	10/20/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

### Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

#### Outfalls and Tide Gates November 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	11/21/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/28/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	11/28/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/29/16	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/29/16	*			*			*		
011	Main Sewage Pumping Station, SE	11/29/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/29/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/29/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	11/29/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	11/29/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/29/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
016	12th and O Streets, SE	11/28/16	*		*		*		*		
017	M and Water Street, SE	11/28/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	11/28/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	11/16/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	11/30/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/29/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	11/30/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	11/29/16	*		*		*		*		
025	South of 31 <sup>st</sup> and K Streets, NW	11/29/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	11/29/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	11/29/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/29/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	11/29/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	11/29/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/29/16	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/28/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	11/28/16	*			*			*		
036	22nd Street, South of Q Street NW.	11/04/16	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/04/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/04/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/04/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/28/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/28/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/28/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/28/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/28/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/16/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
047	Piney Branch Parkway and Ingleside Terrace	11/21/16	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	11/21/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	11/21/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/04/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/29/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/29/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/16/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	11/16/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	11/04/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

## Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

### Outfalls and Tide Gates December 2016

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	12/20/16	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/05/16	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	12/12/16	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/05/16	*			*			*		
010	O St. Sewage Pumping Station, SE	12/15/16	*			*			*		
011	Main Sewage Pumping Station, SE	12/15/16	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/15/16	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/15/16	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	12/15/16	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	12/15/16	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/15/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
016	12th and O Streets, SE	12/15/16	*		*		*		*		
017	M and Water Street, SE	12/19/16	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	12/15/16	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	12/12/16	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	12/20/16	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/19/16	*		*		*		*		
022	Rock Creek Parkway and G St., NW	12/19/16	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	12/19/16	*		*		*		*		
025	South of 31 <sup>st</sup> and K Streets, NW	12/19/16	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/19/16	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	12/20/16	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/19/16	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	12/20/16	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	12/20/16	*			*			*		



NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/20/16	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/12/16	*			*			*		
035	P St. Bridge and Rock Creek Parkway	12/12/16	*			*			*		
036	22nd Street, South of Q Street NW.	12/08/16	*			*			*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/12/16	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/12/16	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/12/16	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/12/16	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/12/16	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/12/16	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/12/16	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/12/16	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/14/16	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
047	Piney Branch Parkway and Ingleside Terrace	12/14/16	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	12/14/16	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	12/14/16	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/12/16	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/21/16	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/21/16	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/12/16	*		*		*		*		
056 <sup>1</sup>	Normanstone Dr. and Rock Creek Parkway, NW.	12/12/16	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	12/12/16	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

## **APPENDIX 2-5**

### **Inspection and Maintenance Summaries: Pumping Stations**



## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service January 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	4	4	Screen #4	01/01/16-01/31/16	Screen repair	04/22/16
				Screen #1	01/16/16-01/19/16	Screen repair	Returned to service on 01/19/16
East Side	4	2	4	Screen #1	01/01/16-01/31/16	Screen repair	04/01/16
				Pump #1	01/01/16-01/31/16	Pump repair	04/15/16
Poplar Point	4	2	3	Screen #2	01/21/16-01/31/16	Screen repair	05/31/16
				Screen #1	01/01/16-01/08/16	Screen repair	Returned to service on 01/08/16
Potomac	31	4	5	Pump #5	01/01/16-01/31/16	Potomac rehab work	04/11/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
January 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	01/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	01/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	01/09/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	01/09/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	01/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	01/09/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	01/09/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	01/09/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
January 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2328.64	75.12	N/A	N/A	N/A
O St	107.77	3.48	N/A	N/A	N/A
East Side	210.69	6.80	N/A	N/A	N/A
Poplar Point	535.39	17.27	N/A	N/A	N/A
Potomac	3304.46	106.60	N/A	N/A	N/A
Rock Creek	135.79	4.38	N/A	N/A	N/A
Upper Anacostia	76.76	2.48	N/A	N/A	N/A
Earle Place	0.17	0.005	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service February 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	28	4	4	Screen #4	02/01/16-02/29/16	Screen repair	04/22/16
East Side	3	2	4	Screen #1	02/01/16-02/29/16	Screen repair	04/01/16
				Pump #1	02/01/16-02/29/16	Pump repair	04/15/16
Poplar Point	3	2	3	Screen #2	02/01/16-02/29/16	Screen repair	05/31/16
Potomac	28	4	5	Pump #5	02/01/16-02/29/16	Potomac rehab work	04/11/16
				Screen #2	02/18/16-02/22/16	Screen repair	Returned to service on 02/22/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.



**Pumping Stations – Preventive Maintenance  
February 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	02/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	02/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	02/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	02/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	02/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	02/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	02/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	02/06/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

2. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
February 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2468.57	85.12	N/A	N/A	N/A
O St	123.98	4.28	02/01/16	9.24	Normal
			02/16/16	38.29	Normal
			02/23/16	4.34	Normal
			02/24/16	46.83	Normal
East Side	304.86	10.51	N/A	N/A	N/A
Poplar Point	535.09	18.45	N/A	N/A	N/A
Potomac	3660.88	126.24	N/A	N/A	N/A
Rock Creek	157.24	5.42	N/A	N/A	N/A
Upper Anacostia	43.86	1.51	N/A	N/A	N/A
Earle Place	0.220	0.008	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service March 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	4	4	Screen #4	03/01/16-	Screen repair	04/22/16
				Pump #3	03/31/16 03/18/16- 03/31/16	Composite shaft failure	05/31/16
East Side	4	2	4	Screen #1	03/01/16-	Screen repair	04/01/16
				Pump #1	03/31/16 03/01/16- 03/31/16	Pump repair	04/15/16
Poplar Point	4	2	3	Screen #2	03/01/16- 03/31/16	Screen repair	05/31/16
Potomac	31	4	5	Pump #5	03/01/16- 03/31/16	Potomac rehab work	04/11/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
March 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	03/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	03/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	03/08/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	03/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	03/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	03/08/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	03/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	03/20/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
March 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2224.10	71.75	N/A	N/A	N/A
O St	108.67	3.51	N/A	N/A	N/A
East Side	137.41	4.43	N/A	N/A	N/A
Poplar Point	527.77	17.02	N/A	N/A	N/A
Potomac	3344.71	107.89	N/A	N/A	N/A
Rock Creek	142.94	4.61	N/A	N/A	N/A
Upper Anacostia	41.15	1.33	N/A	N/A	N/A
Earle Place	0.707	0.023	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service April 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	30	4	4	Screen #4 Pump #3	04/01/16-04/30/16 04/01/16-04/30/16	Screen repair Contractor rehab	07/31/16
East Side	4	2	4	Screen #1 Pump #1	04/01/16-04/30/16 04/01/16-04/30/16	Screen repair Pump repair	05/14/16 06/15/16
Poplar Point	4	2	3	Screen #2	04/01/16-04/30/16	Screen repair	07/15/16
Potomac	30	4	5	Pump #5	04/01/16-04/30/16	Potomac rehab work – Phase 3 Contractor Responsibility	06/06/16

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
April 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	04/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	04/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	04/02/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	04/02/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	04/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	04/02/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	04/02/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	04/02/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage**  
**April 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2147.50	71.58	N/A	N/A	N/A
O St	105.30	3.51	04/07/16	11.13	Normal
East Side	137.41	4.58	N/A	N/A	N/A
Poplar Point	503.65	16.79	N/A	N/A	N/A
Potomac	3182.02	106.07	N/A	N/A	N/A
Rock Creek	138.08	4.60	N/A	N/A	N/A
Upper Anacostia	34.58	1.15	N/A	N/A	N/A
Earle Place	0.152	0.005	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.



## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service May 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	4	10	Screen #4 Pump #3	05/01/16-05/31/16 05/01/16-05/31/16	Screen rebuild Contractor rehab	07/31/16
East Side	4	2	4	Screen #1 Screen #2 Pump #1	05/01/16-05/14/16 05/14/16-05/31/16 05/01/16-05/31/16	Screen rebuild Screen rebuild Check valve issue	Returned to service on 05/14/16 07/15/16 06/15/16
Poplar Point	4	2	3	Screen #2	05/01/16-05/31/16	Screen rebuild	07/15/16
Potomac	31	4	5	Pump #5	05/01/16-05/31/16	Potomac rehab work – Phase 3 Contractor Responsibility	06/06/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
May 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	05/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	05/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	05/14/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	05/14/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	05/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	05/14/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	05/14/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	05/14/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
May 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2417.07	77.97	N/A	N/A	N/A
O St	127.29	4.11	05/02/16	35.14	Normal
			05/06/16	15.33	Normal
			05/21/16	3.99	Normal
East Side	214.18	6.91	N/A	N/A	N/A
Poplar Point	555.27	17.91	N/A	N/A	N/A
Potomac	3729.22	120.30	N/A	N/A	N/A
Rock Creek	155.13	5.00	N/A	N/A	N/A
Upper Anacostia	42.33	1.37	N/A	N/A	N/A
Earle Place	0.165	0.005	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service June 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	30	4	4	Screen #4	06/01/16-06/30/16	Screen rebuild	07/31/16
				Pump #3	06/01/16-06/30/16	Contractor rehab	
East Side	2	2	4	Screen #2	06/01/16-06/30/16	Screen rebuild	07/15/16
				Pump #1	06/01/16-06/15/16	Check valve issue	Returned to service on 06/15/16
Poplar Point	3	2	3	Screen #2	06/01/16-06/30/16	Screen rebuild	07/15/16
Potomac	30	4	5	Pump #5 Pump #4	06/01/16-06/06/16 06/06/16-06/30/16 <sup>2</sup>	Potomac rehab work – Phase 3 Contractor Responsibility	Returned to service on 06/06/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
June 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	06/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	06/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	06/11/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	06/11/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	06/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	06/11/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	06/11/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	06/11/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
June 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2179.64	72.65	N/A	N/A	N/A
O St	129.63	4.32	6/17/16	29.89	Normal
			6/21/16	34.02	Normal
			6/23/16	17.57	Normal
			6/28 - 6/29	28.98	Normal
East Side	166.05	5.54	N/A	N/A	N/A
Poplar Point	503.70	16.79	N/A	N/A	N/A
Potomac	3309.72	110.32	N/A	N/A	N/A
Rock Creek	134.42	4.48	N/A	N/A	N/A
Upper Anacostia	39.71	1.32	N/A	N/A	N/A
Earle Place	0.153	0.005	N/A	N/A	N/A

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Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service July 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	3	6	Screen #4	07/01-07/31	Screen rebuild	09/09/16
				Pump #3	07/01-07/21	Contractor rehab	Returned to service on 07/21/16
				Screen #2	07/20-07/23	Gear box failure	Returned to service on 07/23/16
				Screen #1	07/30-07/31	Chain link broke and offset	08/02/16
East Side	4	2	4	Screen #2	07/01/16-07/31/16	Screen rebuild	09/09/16
Poplar Point	4	3	3	Screen #2	07/01/16-07/31/16	Screen rebuild	09/12/16
				Pump #2	07/30/16-07/31/16	Soft start repair	10/31/16
Potomac	31	4	5	Pump #4	07/01/16-07/31/16	Contractor lock out tag out of pump; replace seal water switch & solenoid	08/08/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
July 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	07/14/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	07/14/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	07/18/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	07/07/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	07/20/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	07/09/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	07/09/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	07/09/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required



**Pumping Stations – Pumpage  
July 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2321.31	74.88	N/A	N/A	N/A
O St	168.61	5.44	7/18/16	17.01	Normal
			7/19/16	6.25	Normal
			7/20/16	58.0	Normal
			7/29/16	37.45	Normal
			7/30/16	5.18	Normal
East Side	177.47	5.72	N/A	N/A	N/A
Poplar Point	517.35	16.69	N/A	N/A	N/A
Potomac	3113.08	100.42	N/A	N/A	N/A
Rock Creek	145.30	4.69	N/A	N/A	N/A
Upper Anacostia	42.03	1.36	N/A	N/A	N/A
Earle Place	0.152	0.005	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

**Pumping Stations – Inspections and Equipment in Service  
August 2016**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	3	6	Screen #4	8/1-8/31	Screen rebuild	16-235069
				Screen #1	8/1-8/2	Chain link broke and offset	16-459887
East Side	4	2	4	Screen #2	8/1-8/31	Rake assembly repair	16-346314
Poplar Point	4	3	3	Screen #2	8/1-8/31	Screen rebuild	16-169379
				Pump #2	8/1-8/31	Soft start repair	16-446551
Potomac	31	4	5	Pump #4	8/1-8/8	Contractor LOTO; seal water switch & solenoid	Contractor work
				Pump #1	8/6-8/31	Vibration issue	16-466206

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
August 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	08/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	08/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	08/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	08/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	08/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	08/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	08/06/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	08/06/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
August 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	2035.08	65.65	N/A	N/A	N/A
O St	132.47	4.27	8/15/16	39.83	Normal
			8/16/16	4.9	Normal
			8/17/16	24.43	Normal
			8/21/16	14.0	Normal
East Side	132.37	4.27	N/A	N/A	N/A
Poplar Point	507.63	16.38	N/A	N/A	N/A
Potomac	2968.98	95.77	N/A	N/A	N/A
Rock Creek	127.89	4.13	N/A	N/A	N/A
Upper Anacostia	39.89	1.29	N/A	N/A	N/A
Earle Place	0.319	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service September 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
3	30	3	6	Screen #4	09/01/16-09/09/16	Screen rebuild	Returned to service on 09/09/16
East Side	4	2	4	Screen #2	09/01/16-09/09/16	Rake assembly repair	Returned to service on 09/09/16
				Pump #2	09/23/16-09/30/16	Trip during storm	10/05/16
				All Pumps & Screens	09/27/16-09/30/16	Station flooding <sup>2</sup>	10/05/16
Poplar Point	4	3	3	Screen #2	09/01/16-09/12/16	Screen rebuild	Returned to service on 09/12/16
				Pump #2	09/01/16-09/30/16	Soft start repair	10/31/16
Potomac	30	4	5	Pump #1	09/01/16-09/30/16	Vibration issue	10/04/16
				Screen #1	09/22/16-09/30/16	Screen replacement <sup>3</sup>	11/18/16

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Pumping Stations – Preventive Maintenance  
September 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	09/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	09/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	09/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	09/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	09/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	09/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	09/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	09/17/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
September 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	1887.02	62.90	N/A	N/A	N/A
O St	120.92	4.03	9/29/16	22.47	Normal
East Side	101.32	3.38	N/A	N/A	N/A
Poplar Point	498.27	16.61	N/A	N/A	N/A
Potomac	2966.35	98.88	N/A	N/A	N/A
Rock Creek	134.27	4.48	N/A	N/A	N/A
Upper Anacostia	38.68	1.29	N/A	N/A	N/A
Earle Place	0.14	0.005	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service October 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	3	6	None	N/A	N/A	N/A
East Side	4	2	4	All Pumps & Screens	10/01/16-10/05/16	Station flooding <sup>2</sup>	Returned to service on 10/05/16
				Pump #4	10/21/16-10/31/16	Excessive noise & vibration	Anticipated 11/03/16
Poplar Point	4	3	3	Pump #2	10/01/16-10/19/16	Soft start repair	Returned to service on 10/19/16
Potomac	31	4	5	Pump #1	10/01/16-10/04/16	Vibration issue	Repairs complete on 10/04/16
				Screen #1	10/01/16-10/31/16	Screen replacement <sup>3</sup>	Anticipated 12/02/16
				Pump #1	10/04/16-10/31/16	Discharge pipe construction <sup>3</sup>	Anticipated 12/02/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations, including replacement of mechanical screens. The Potomac Pumping Station Phase 3 upgrade project is currently ongoing and replacement of the mechanical screens, sluice gates, and discharge isolations valves began in September 2016.
2. The drywell of Eastside Pumping Station flooded on September 27, 2016 while a check valve in the discharge piping was being serviced. As a result, the station was out of service between September 27 and October 5, 2016. DC Water investigated this event and determined that an employee inadvertently operated an isolation valve causing the pump drywell to flood. During dry weather, flow was diverted using bypass pumping from the Eastside Interceptor Relief Sewer to the Northeast Boundary Sewer and Lower Eastside Interceptor for conveyance by gravity to the Main Pumping Station and conveyance to Blue Plains. During the wet weather events that occurred during this period, the diversion operations remained in use, and excess wet weather flows were processed through the Northeast Boundary Swirl Facility. As the wet wells at Eastside Pumping Station were out of service, the foul sewer diversion lines from each concentrator in the Northeast Boundary Swirl were closed, and all flow entering the Northeast Boundary Swirl Facility was treated and then discharged through the mixing chamber to CSO 019.
3. This is part of the Potomac Pump Station Phase 3 upgrade project. Repairs were complete on the vibration issue for Pump #1 on 10/04/16, however this pump was not returned to service due to ongoing construction activity.



**Pumping Stations – Preventive Maintenance  
October 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	10/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	10/04/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	10/29/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/15/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	10/29/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/15/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/15/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	10/15/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
October 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	1855.15	59.84	N/A	N/A	N/A
O St	115.35	3.72	N/A	N/A	N/A
East Side	103.48	3.34	N/A	N/A	N/A
Poplar Point	516.84	16.67	N/A	N/A	N/A
Potomac	2712.55	87.50	N/A	N/A	N/A
Rock Creek	122.44	3.95	N/A	N/A	N/A
Upper Anacostia	40.51	1.31	N/A	N/A	N/A
Earle Place	0.127	0.004	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service November 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	30	3	6	None	N/A	N/A	N/A
East Side	2	2	4	Pump #4	11/01/16-11/03/16	Excessive noise & vibration	Returned to service on 11/03/16
Poplar Point	2	3	3	Pump #3	11/01/16-11/02/16	Power supply replacement	Returned to service on 11/02/16
				Pump #3	11/16/16-11/30/16	Excessive noise	Anticipated 01/31/17
Potomac	30	4	5	Screen #1	11/01/16-11/30/16	Screen replacement <sup>2</sup>	Anticipated 12/02/16
				Pump #1	11/01/16-11/30/16	Discharge pipe construction <sup>2</sup>	Anticipated 12/02/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.
2. This is part of the Potomac Pump Station Phase 3 upgrade project.

**Pumping Stations – Preventive Maintenance  
November 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	11/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	11/13/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/13/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/13/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/13/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/13/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
November 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	1529.54	50.98	N/A	N/A	N/A
O St	112.80	3.76	N/A	N/A	N/A
East Side	109.89	3.66	N/A	N/A	N/A
Poplar Point	488.23	16.27	N/A	N/A	N/A
Potomac	2651.63	88.39	N/A	N/A	N/A
Rock Creek	108.50	3.62	N/A	N/A	N/A
Upper Anacostia	36.46	1.22	N/A	N/A	N/A
Earle Place	0.152	0.005	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

## Pumping Stations

Pumping station operations are summarized in the table below.

### Pumping Stations – Inspections and Equipment in Service December 2016

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service<sup>1</sup></i>
Main	31	3	6	None	N/A	N/A	N/A
East Side	2	2	4	Pump #1	12/01/16-12/02/16	Motor would not reset	Returned to service on 12/02/16
				Screen #1	12/07/16-12/13/16	Motor broke from carriage	Returned to service on 12/13/16
Poplar Point	2	3	3	Pump #3	12/01/16-12/31/16	Excessive noise	Anticipated 01/31/17
Potomac	31	4	5	Screen #1	12/01/16-12/02/16	Screen replacement <sup>2</sup>	Returned to service on 12/02/16
				Pump #1	12/01/16-12/02/16	Discharge pipe construction <sup>2</sup>	Returned to service on 12/02/16

#### Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.
2. This is part of the Potomac Pump Station Phase 3 upgrade project.

**Pumping Stations – Preventive Maintenance  
December 2016**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1</sup></i>	<i>Comments</i>
Main	12/01/16	Group A	Add oil, grease bearings and replace packing if needed.
O St	12/01/16	Group A	Add oil, grease bearings and replace packing if needed.
East Side	12/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	12/01/16	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/17/16	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	12/17/16	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Pumping Stations – Pumpage  
December 2016**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)<sup>1</sup></i>
Main	1698.37	54.79	N/A	N/A	N/A
O St	122.38	3.95	12/06/16	23.87	Normal
East Side	146.79	4.74	N/A	N/A	N/A
Poplar Point	511.74	16.51	N/A	N/A	N/A
Potomac	2960.27	95.49	N/A	N/A	N/A
Rock Creek	121.86	3.93	N/A	N/A	N/A
Upper Anacostia	39.50	1.27	N/A	N/A	N/A
Earle Place	0.128	0.004	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.



## **APPENDIX 2-6**

### **Inspection and Maintenance Summaries: Northeast Boundary Swirl Facility**



### Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

#### Northeast Boundary Swirl Facility – Inspections and Equipment in Service - 2016

<i>Date Inspected</i>	<i># Screens</i>	<i># Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
01/09/16	3	3	N/A	N/A		
02/01/16	3	3	N/A	N/A		
03/14/16	3	3	Screen 1	03/14	High Torque Alarm	Returned to service on 03/17/16
04/07/16	3	3	N/A	N/A		
05/01/16	3	3	Screen #1 Screen #2 Screen #3	05/06 05/06 05/06	Maintenance	Returned to service for event on 05/17/16
06/11/16	3	3	N/A	N/A		
07/18/16	3	3	Screen #1	07/28-07/31	Screen lost power	Returned to service on 7/31/16
			Screen #3	07/30-07/31	Bent bars & back plate	11/30/16
08/06/16	3	3	Screen #3	8/01-8/31	Bent bars & back plate	11/30/16
09/17/16	3	3	Screen #3	09/01-09/30	Bent bars & back plate	11/30/16
10/29/16	3	3	Screen #3	10/01-10/31	Bent bars & back plate	Anticipated 02/01/17
11/13/16	3	3	Screen #3	11/01-11/30	Bent bars & back plate	Anticipated 02/01/17
12/17/16	3	3	Screen #3	12/01-12/3	Bent bars & back plate	Anticipated 02/01/17
			Screen #2	12/24-12/31	Chain and rake misaligned	Anticipated 01/04/17

#### Northeast Boundary Swirl Facility – Preventive Maintenance - 2016

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed</i>	<i>Comments</i>
01/09/16	Group A	
02/01/16	Group A	
03/14/16	Group A	
04/07/16	Group A	
05/01/16	Group A	
06/11/16	Group A	
07/18/16	Group A	
08/06/16	Group A	
09/17/16	Group A	
10/29/16	Group A	
11/13/16	Group A	
12/17/16	Group A	



## **APPENDIX 2-7**

### **Inspection and Maintenance Summaries: Inflatable Dams**



### Inflatable Dams

The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflow occurs.

#### Inflatable Dams – Inspections and Equipment in Service – 2016

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	01/27, 2/25, 3/17,4/14, 5/24, 6/15, 7/30, 8/15, 9/8, 10/13, 11/17, 12/20	Yes	10/19/16	Power Failure	Returned to service on 10/19
			10/21/16	Equipment Malfunction	Returned to service on 10/21
			11/29-11/30	Power Failure	Returned to service on 11/30
14 - West	01/27, 2/25,3/17, 4/14, 5/24, 6/15, 7/30, 8/15, 9/8, 10/13, 11/17, 12/20	Yes	10/19/16	Power Failure	Returned to service on 10/19
			10/21/16	Equipment Malfunction	Returned to service on 10/21
			11/29-11/30	Power Failure	Returned to service on 11/30
15	01/27, 2/25,3/17,4/14, 5/24, 6/21, 7/14, 8/15, 9/8, 10/13, 11/17, 12/20	Yes	1/5 – 1/7	Level Instrument Malfunction	1/7
			5/18-5/19	Failed Air Compressor	5/19
15A	01/27, 2/25,3/17,4/14, 5/24, 6/21, 7/14, 8/15, 9/8, 10/13, 11/17, 12/20	No	N/A	N/A	N/A
16 - East	01/27, 2/25, 3/17,4/14, 5/24, 6/21, 7/14, 8/15, 9/8, 10/13, 11/17, 12/20	Yes	10/19/16	Power Failure	Returned to service on 10/19
			11/29-11/30	Power Failure	Returned to service on 11/30

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
16 - West	01/27, 2/25, 3/17,4/14, 5/24, 6/21, 7/14, 8/15, 9/8, 10/13, 11/17, 12/20	<b>Yes</b>	<b>10/19/16</b>	<b>Power Failure</b>	<b>Returned to service on 10/19</b>
24 - North	01/27, 2/25,3/17,4/14, 5/24, 6/25, 7/14, 8/16, 9/15, 10/18, 11/22, 12/21	<b>Yes</b>	<b>7/19-7/20</b>	<b>Level sensor damage</b>	<b>Returned to service on 7/20</b>
24 - Middle	01/27, 2/25,3/17,4/14, 5/24, 6/25, 7/14, 8/16, 9/15, 10/18, 11/22, 12/21	<b>Yes</b>	<b>7/19-7/20</b>	<b>Level sensor damage</b>	<b>Returned to service on 7/20</b>
24 - South	01/27, 2/25,3/17,4/14, 5/24, 6/25, 7/14, 8/16, 9/15, 10/18, 11/22, 12/21	<b>Yes</b>	<b>7/19-7/20</b>	<b>Level sensor damage</b>	<b>Returned to service on 7/20</b>
34	01/28, 2/25, 3/17,4/14, 5/24, 6/21, 7/26, 8/15, 9/8, 10/13, 11/17, 12/20	<b>Yes</b>	<b>10/20/16</b>	<b>Power Failure</b>	<b>Returned to service on 10/20</b>
35	01/28, 2/25, 3/17,4/30, 5/24, 6/21, 7/29, 8/18, 9/8, 10/13, 11/22, 12/22	<b>Yes</b>	<b>4/14-4/21</b>  <b>5/8-5/9</b>  <b>6/9-6/21</b>  <b>7/19-7/20</b>  <b>10/20/16</b>	<b>Power Cable Damage Compressor Repair</b>  <b>Valve Malfunction</b>  <b>Level Switch Malfunction</b>  <b>Level sensor damage</b>  <b>Power Failure</b>	<b>4/21</b>  <b>5/9</b>  <b>6/21</b>  <b>Returned to service on 7/20</b>  <b>Returned to service on 10/20/16</b>
52	01/27, 2/25, 3/17,4/14, 5/24, 6/21, 7/26, 8/15, 9/15, 10/13, 11/17, 12/20	<b>Yes</b>	<b>12/20/16- 12/27/16</b>	<b>Valve Malfunction</b>	<b>Returned to service on 12/27</b>



## **Section 3**

### **Maximize Use of Collection System for Storage**

#### **3.1 NPDES PERMIT REQUIREMENTS**

For this NMC, the NPDES permit requires that DC Water operate and maintain the inflatable dams to maximize storage in the CSS.

#### **3.2 INFLATABLE DAM OPERATION**

The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically based on a signal from an upstream level sensor. During dry weather conditions the dams are normally maintained fully inflated under low pressure.

Inspection and maintenance of the inflatable dams as reported in quarterly reports to EPA Region III are included in Section 2.



## Section 4 Pretreatment Program

### 4.1 NPDES PERMIT REQUIREMENTS

The NPDES Permit requires the following:

- Use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs
- Use pretreatment regulations to require permitted significant industrial users (SIUs) discharging directly to the CSS to establish management practices to limit (e.g., use of control, detention or prohibition) batch discharges during wet weather conditions to the maximum extent feasible. Conduct an annual inspection of the SIUs to identify the existence of any batch discharges. Evaluate batch discharges identified to determine whether and to what extent limitations are appropriate during wet weather, taking into consideration volume, frequency, characteristics and the need to protect life and property.
- Prepare an Annual Report by March 31 of each year addressing the following items for the prior calendar year:
  - Industrial Listing
  - Control Mechanism Issuance
  - Sampling and Inspection
  - Industrial User (IU) Compliance and POTW Enforcement
  - Summary of POTW Operations
  - Pretreatment Program Changes
  - Signatory Requirement

### 4.2 INDUSTRIAL DISCHARGES IMPACTING CSOs

As part of the development of its Long Term Control Plan (LTCP), DC Water conducted an extensive sampling program for CSO overflows. Toxic or other parameters typical of industrial discharges were not found to be impacting CSOs. Indeed, the concentration of metals and other parameters in CSOs was found to be similar to the concentrations of those parameters in storm water runoff. This suggested that the source of these parameters was urban runoff.

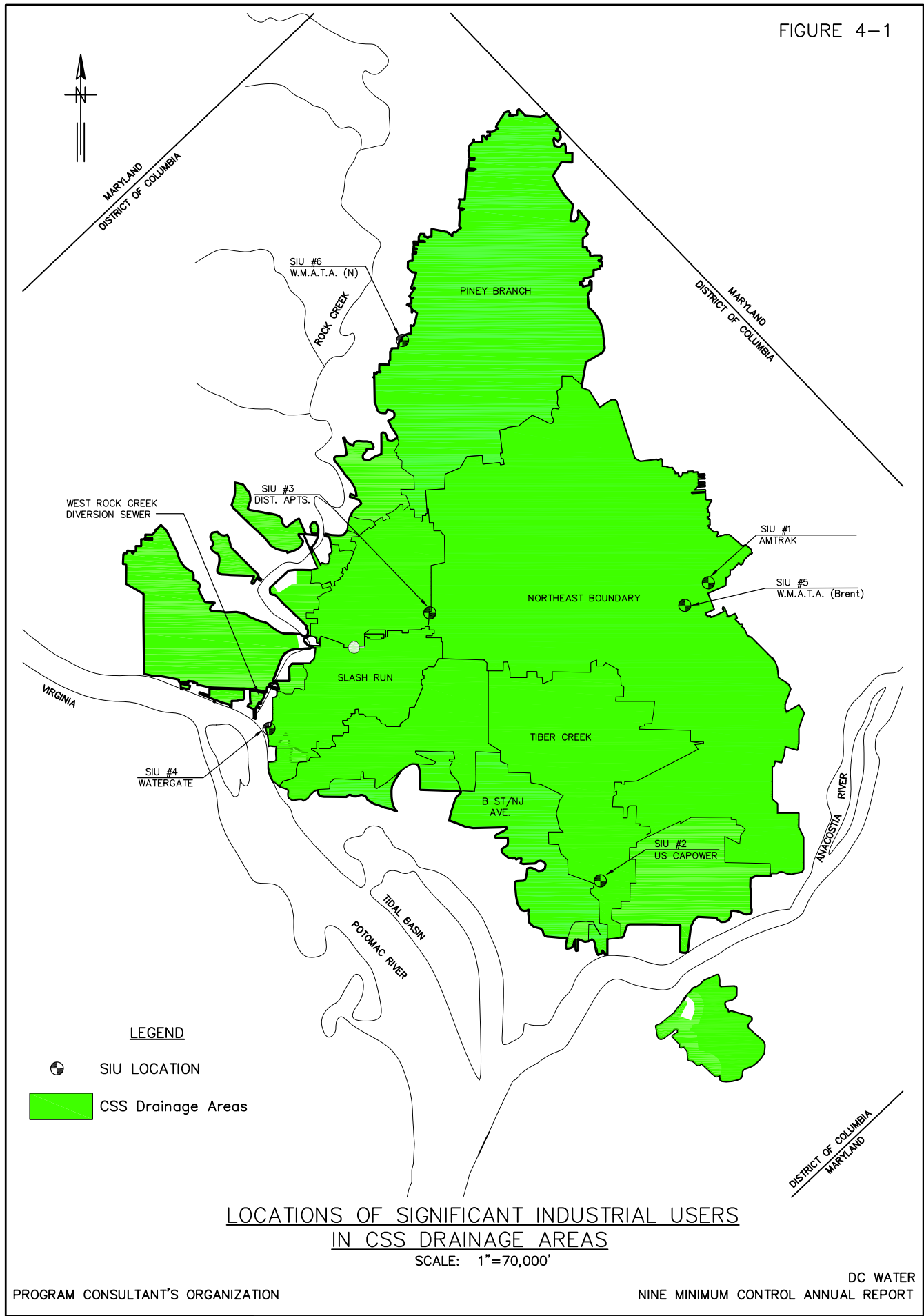
### 4.3 ANNUAL REPORT

DC Water generates and submits a Pretreatment Program Annual Report to the EPA Region III by March 31<sup>st</sup> of each year. This report is submitted to EPA under separate cover. Only Part B of the Annual Report is provided here as Appendix 4-1 and the Attachment 6 referred in it is not included for brevity.

### **4.4 SIGNIFICANT INDUSTRIAL USERS**

Based on annual inspections performed by DC Water's Pretreatment and Lab Section, the SIUs in Table 4-1 have been identified to be within the CSS area. The location of each SIU is shown on Figure 4-1.

FIGURE 4-1



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**Table 4-1**  
**Significant Industrial Users in CSS Area**

#	Permit No.	Industrial User	Facility Address	Batch/Intermittent Discharges
1	011	Amtrak (including High Speed Rail facility)	1401 W Street, NE Washington, DC 20018	Train Wash
2	022	Capitol Power Plant	N. Jersey Ave & E St., SE Washington, DC 20003	None
3	057	District Apartments Realty Holding Co., LLC	1401 S St., NW Washington, DC 20009	None (no report required treated groundwater only)
4	039	Greenpenz	2500 Virginia Ave., NW Washington, DC 20037	None (no report required treated groundwater only)
5	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning
6	005	WMATA Northern Garage	4615 14th Street, NW Washington, DC 20011	Steam Cleaning/Bus Wash

WMATA = Washington Metropolitan Area Transit Authority

#### **4.5 SIGNIFICANT INDUSTRIAL USER DISCHARGE PERMIT**

In compliance with EPA Region III requirements, DC Water has issued special condition permits to those SIUs discharging to the combined sewer system. These special condition permits have standard language requiring submittal of annual reports (due March 31 of the following year) documenting batch, intermittent, and continuous discharge activity. Based on these reports, DC Water will evaluate the need to place wet weather restrictions on those batch discharges identified, depending on the volume and frequency of their discharge, water quality characteristics, and safety issues.

In addition, the permit requires users to sample the discharge points semiannually and to create and submit a spill prevention/slug control plan that identifies discharge practices, procedures to prevent spills/slugs, procedures to notify DC Water of spills/slugs and control measures to minimize damage from spills/slugs. DC Water also performs annual sampling and inspections of each discharger to confirm compliance with permit requirements.

# **APPENDIX 4-1**

## **PART B**

### **PRETREATMENT DEVELOPMENTS**





## **PART B**

### **PRETREATMENT DEVELOPMENTS**

#### **I. Summary of POTW Operations**

1. There were no NPDES permit violations in 2016 at the Blue Plains Advanced Wastewater Treatment Plant (AWTP). Furthermore, there were no instances of major problems (e.g., corrosion, fire or explosive hazards, sewer blockages) in the collection system that may have been attributable to industrial wastes.
2. As required by the NPDES permit, plant influent, effluent, and biosolids data for all local limit parameters are submitted to EPA Region III on a quarterly basis with the Discharge Monitoring Reports (DMRs) by the 28th day of the following month. Additionally, a complete priority pollutant scan is conducted annually on the influent and biosolids. The 2016 influent, effluent, and biosolids concentrations for the local limit pollutants are provided in a summary table in Attachment 6. The annual priority pollutant scans and additional toxics data collected, but not documented in the summary table, are also provided in Attachment 6.

Influent values are calculated based on an estimated flow-weighted average of three contributing waste streams and are reported as “<” if at least one of the individual waste streams was non-detect (below the MDL/RDL or method/2reporting detection limit) for that parameter. Influent goals are based on EPA Region III’s evaluation of DC Water’s local limits published in the DC Register on September 10, 2010. Influent goals were consistently met in 2016, and influent pollutant concentrations have remained fairly consistent with minor fluctuations.

3. DC Water currently accepts hauled waste from domestic, commercial, and pre-approved industrial sources at the headworks to the Blue Plains AWTP. Additional hauled waste is received at designated septage receiving stations from WSSC, Fairfax County, and Loudoun Water. Table B-1 summarizes the hauled waste contributions to the Blue Plains AWTP. Loudoun Water periodically uses the backup septage receiving station that discharges to the Potomac Interceptor (and ultimately to the Blue Plains AWTP) when their main septage receiving facility is down. No brine wastes (oil and gas drilling wastes) are accepted at any of the designated septage receiving stations.

All jurisdictions require waste hauler permits, although in Fairfax County, the permit is issued by the Health Department. As of December 31, 2016, DC Water had 33 permitted waste haulers, WSSC had 24 permitted waste haulers (excluding buses, RV’s, and zero discharge haulers), Fairfax County had 47 permitted waste haulers, and Loudoun Water had 15 permitted waste haulers. DC Water permits require manifest forms, documenting the source and volume of each load, be submitted prior to receiving access to the facility to discharge. WSSC, Fairfax County, and Loudoun Water all require manifest forms at the designated septage receiving stations discharging to the Blue Plains AWTP.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**I. Summary of POTW Operations (Continued)**

**Table B-1. Summary of Hauled Waste Discharged to the Blue Plains AWTP**

<b>Jurisdiction</b>	<b>Discharge Site</b>	<b>Sources of Wastewater*</b>	<b>Estimated Volume/Yr.</b>	<b>Controls on Users</b>
DC Water	Blue Plains AWTP	Domestic and commercial and non-wastewater	19.6M gal/yr	Manned site, permits, manifests, random sampling
WSSC	Muddy Branch	Domestic and commercial	5.9M gal/yr (grease waste) 3.9M gal/yr (septic waste)	Permits, manifests, restricted hours, surveillance cameras, fines, random sampling
WSSC	Muddy Branch	IU - Dickerson Generating Station (domestic sewage sludge)	11,500 gal/year	Contract, self-monitoring
WSSC	Muddy Branch or Tanglewood	SIU – Ritchie Rubble Landfill (leachate)	Avg 40,859 gpd 80,000 gpd max	SIU Permit, self-monitoring
WSSC	Tanglewood	Domestic Septage	174,205 gal/yr	Permits, manifests, restricted hours, surveillance cameras, fines
WSSC	Montgomery Co. Solid Waste Disposal Site	SIU - Oaks Sanitary Landfill (leachate), also includes water from catch basin cleaning in the county	Avg 23,602 gpd 80,000 gpd max	SIU permit, self-monitoring
Fairfax Co.	Colvin Run	Domestic and commercial (54% septage, 10% portable toilets, 22% grease trap waste, 9% commercial septage, 1% car wash, and 4% others)	3.12M gallons/yr (Jan-June 2016)	Permits (Health Dept), restricted access, random sampling, manifests, surveillance camera
Loudoun Water	Manhole S-17	Domestic septage	30,600 gal – discharged in 4 <sup>th</sup> qtr 2016 only	Permits, manifests, restricted access, surveillance camera, random sampling

\*Domestic sources of hauled wastewater are primarily septic holding tanks and portable toilets. The majority of commercial wastewater is from grease traps. Other commercial sources of hauled wastewater are from building sumps/sewage ejector pits and car wash interceptors. Industrial waste is from treatment plant sludge and landfill leachate. Non-wastewater sources include groundwater and storm runoff.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**I. Summary of POTW Operations (Continued)**

3. In 2016, the Blue Plains AWTP Septage Receiving Facility received on average 1,634,199 gallons of hauled waste or 718 loads per month. Random sampling is conducted by DC Water typically twice a month and waste is analyzed for pH, oil and grease, total metals, PCBs, and conventional pollutants. Trucked waste must meet local limits. Seventeen notices of violation (NOVs) were issued to haulers in 2016 for exceedances of local limits, typically for pH, copper, zinc, and/or total petroleum hydrocarbons. On one occasion, violations for lead and mercury were also detected. On two occasions, PCBs were detected below the reporting limit. Resampling of the truck and/or source is required for any PCB detections or high level metals (>10x the limit). Typical corrective action is to increase the frequency of the pump-out for the customer with elevated metals concentrations. If a source is identified in violation more than once, then it is banned for disposal at the Blue Plains AWTP, until the user can demonstrate compliance through self-monitoring of the waste. No hauled waste violations have resulted in plant upset or interference. Fairfax County also issued five NOVs to haulers for discharging waste generated outside Fairfax County or other infractions.

Many of the SIUs within the District have waste hauled off-site for disposal. Table B-2 summarizes the information updated during the 2016 inspections. Recycled wastes including used oil, fryer oil, and silver recovery waste are not included in this table.

**II. Pretreatment Program Changes**

**Staffing, Funding, and Local Limits**

There were no significant changes in staffing and funding for the District or contributing user jurisdiction pretreatment programs in 2016. Some minor staffing changes occurred in the jurisdiction pretreatment programs and DC Water obtained some part-time temporary assistance. There were no changes to the local limits approved by EPA Region III on May 25, 2010 and adopted by DC Water in a Final Rulemaking published on September 10, 2010.

**III. Miscellaneous Developments**

**Control of Batch Discharges During Wet Weather**

As part of the Combined Sewer Overflow (CSO) Nine Minimum Controls, DC Water is required by NPDES permit to 1) use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs and 2) to require permitted SIUs discharging directly to the CSS to establish management practices to control batch discharges during wet weather conditions whenever possible.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**Table B-2. Summary of Hauled Waste from SIUs in the District**

<b>Type of Hauled Waste</b>	<b>Description of Operations</b>	<b>Name(s) of Facilities Used by SIUs for Waste Disposal and Disposal Location (if known)</b>
Oily wastewater/ pretreatment sludge and other non-hazardous waste	Maintenance cleaning activities, treatment residuals, printing	Atlantic Wastewater Solutions (Fairfax, VA) Clean Harbors (Baltimore, MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisbury, PA) FCC/ Heritage Environmental (Alexandria, VA) IMS (Norfolk, VA) Onsite Environmental Pollution Control Industries Safety Kleen (Manassas, VA) Sphinx (Spirit Services in Williamsport, MD) Tradebe (E. Chicago, IN) Triumvirate Environmental
Grease trap waste	Treatment residuals	Action Tank and Drain (Fairfax, VA) Adams Liming and Septic Tank (Fairfax, VA) Beltway Biodiesel Burns Septic (WSSC) H&R Environmental Clean Harbors (Baltimore, MD) Magnolia Plumbing (WSSC and Blue Plains)
Spent car wash reclaim	Vehicle cleaning activities	Adams Liming and Septic Tank (Fairfax, VA) Capitol Tank and Drain LNT Enterprises Onsite Environmental Safety Kleen (Manassas, VA)
Hazardous waste	Cleaning, lab waste, solvent use, treatment residuals, etc.	Clean Harbors (Baltimore MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisbury, PA) EMSI (Env Enterprises/Cincinnati, OH) Tradebe (E. Chicago, IN)

### **III. Miscellaneous Developments**

#### **Control of Batch Discharges During Wet Weather (continued)**

As of December 31, 2016, there are six (6) SIUs that currently discharge directly to the combined sewer system. A list of these facilities is provided in Table B-3. Each facility has a permit requirement to prepare an annual report identifying all batch discharges to the combined sewer system, with the exception of the Watergate Hotel, currently permitted as Greenpenz, 2600 Virginia Ave., LLC, and District Apartments Realty Holding Company, LLC, which are only permitted for their groundwater remediation systems and have a continuous operation. These annual reports were due March 31, 2016. Following DC Water review, it was determined that all SIU discharges were either continuous or intermittent and that none of these discharges met the definition of a batch discharge. Some facilities have voluntarily developed management practices to minimize intermittent discharges during wet weather, but DC Water is not requiring development of management practices to control intermittent discharges at this time, since no pollutants of concern in combined sewer overflows have been attributed to these discharges.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**Table B-3. Significant Industrial Users Discharging Directly to Combined Sewers**

#	Permit No.	Industrial User	Facility Address	Batch/Intermittent Discharges
1	011	Amtrak (including High Speed Rail facility)	1401 W Street, NE Washington, DC 20018	Train Wash
2	022	Capitol Power Plant	N. Jersey Ave & E St., SE Washington, DC 20003	None
3	057	District Apartments Realty Holding Co., LLC	1401 S St., NW Washington, DC 20009	None (no report required treated groundwater only)
4	039	Greenpenz	2500 Virginia Ave., NW Washington, DC 20037	None (no report required treated groundwater only)
5	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning
6	005	WMATA Northern Garage	4615 14th Street, NW Washington, DC 20011	Steam Cleaning/Bus Wash

WMATA = Washington Metropolitan Area Transit Authority

### **III. Miscellaneous Developments (continued)**

#### **Pollution Prevention**

DC Water has incorporated pollution prevention (P2) surveys into the routine annual inspections of SIUs. P2 surveys are conducted every two years and significant P2 accomplishments or deficiencies may be noted annually in the inspection report. These surveys were conducted in 2016. DC Water's public education efforts to reduce influent mercury concentrations include posting educational content on our website, permitting hospitals in the area (as Non-Significant Industrial Users), and promoting mercury amalgam Best Management Practices (BMPs) for dental facilities.

WSSC continued to promote and dedicate resources to a number of pollution prevention initiatives in 2016 including the following:

- Recommendation of amalgam separators and BMPs for dental facilities; and
- Continuation of the annual Pollution Prevention Award program (awarded to Eaton Corporation in June 2016).

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**III. Miscellaneous Developments (continued)**

**Industrial User Survey**

DC Water is actively surveying, sampling, and/or inspecting non-permitted commercial/ industrial users to determine whether facilities should be permitted and assist them in conforming to the District of Columbia municipal regulations on wastewater discharges. DC Water has developed a network of contacts at other agencies in the District of Columbia to obtain information on potential violators including the District Department of Public Works, the Mayor's Neighborhood Service Coordinators, and the District Department of Energy & Environment Hazardous Waste and Water Quality Divisions. In addition, DC Water periodically reviews queries of commercial and federal accounts for new connections and users that consume more than 25,000 gpd of water.

**Temporary Discharge Authorizations**

As of December 31, 2016, DC Water had 72 active Temporary Discharge Authorization (TDA) permits for discharges to the sanitary or combined sewer system consisting primarily of construction dewatering, façade cleaning, and other miscellaneous discharges. The maximum permit term is two years. Most of these permits require periodic self-monitoring, depending on flow and the characteristics of the wastewater discharge.

**IV. Signatory Requirements**

The Assistant General Manager (AGM) of Wastewater Treatment has signed Part A of this report. This individual is directly responsible for wastewater treatment plant operations and has been authorized to sign the report by the General Manager (written authorization letter to EPA Region III dated January 27, 2016, previously submitted).

# Maximize Flow to Treatment Plant

## Section 5

### Maximize Flow to Treatment Plant

#### 5.1 NPDES PERMIT REQUIREMENTS

For this NMC, the NPDES permit requires the following:

- During wet weather, operate the pumping stations and collection system to deliver the maximum flow possible to the BPAWWTP within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant.
- Develop a reporting system to show that operation of the pumping stations has been maximized during wet weather and that the maximum flow possible is being delivered to the BPAWWTP for treatment within the constraints of the pumping stations, collection system and treatment plant. Report such operations for each wet weather event.
- Maintain pumps to maximize flow to Blue Plains.
- The permittee shall ensure that the collection system has the capacity to convey flows at a rate totaling at least 1076 mgd to Blue Plains for treatment.

#### 5.2 PUMPING STATION OPERATION

DC Water operates its pumping stations to deliver the maximum flow possible to BPAWWTP within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant. BPAWWTP is currently undergoing a construction program to improve performance and reliability at the facility. During this program, the permit specifies that the plant flow limits during wet weather are as follows:

<i>Time Period</i>	<i>Complete Treatment Rate (Discharge at Outfall 002)</i>	<i>Excess Flow Treatment Rate (Discharge at Outfall 001)</i>	<i>Total Treatment Rate</i>
First 4 hours	Up to 511 mgd	Up to 336 mgd	Up to 847 mgd
After 4 hours	Up to 450 mgd	Up to 336 mgd	Up to 786 mgd

Appendix 5-1 presents the maximum hourly flow rates at BPAWWTP based on hourly readings. The data demonstrate that the plant is consistently providing complete treatment to more flow than is required by the NPDES permit.

## Maximize Flow to Treatment Plant

### 5.3 REPORTING SYSTEM

DC Water reports on the operation of the pumping stations that deliver flow to the BPAWWTP in its quarterly CSO reports.

### 5.4 MAINTAIN PUMPING STATIONS

Documentation of pumping station maintenance and equipment serviceability is included in Section 2, Appendix 2-4.

DC Water has upgraded the pumping stations listed in Table 5-1 below. All stations function at firm capacity.

**Table 5-1**  
**Pumping Station Design Firm Capacities**

<i>Facility</i>	<i>Planned Design Firm Capacity<sup>(1)</sup></i>	<i>Deadline for Placing in Operation</i>
Potomac Pumping Station	460 mgd	Completed
Main Pumping Station	Sanitary Pumps – 240 mgd	Completed
O Street Pumping Station	Sanitary Pumps – 45 mgd	Completed
Poplar Point Pumping Station	45 mgd	Completed
East Side Pumping Station	45 mgd	Completed

Notes:

(1) Firm capacity is the capacity with the largest pump out of service.

### 5.5 ENSURE COLLECTION SYSTEM HAS 1076 MGD CONVEYANCE CAPACITY

In accordance with the Three Party Consent Decree, DC Water rehabilitated the Blue Plains influent sewers on April 1, 2011. The purpose of the rehabilitation, in part, is to achieve 1076 mgd of conveyance capacity. As noted in our February 8, 2012 letter to Earthjustice with copy to EPA and DOJ, DC Water has concluded that the collection system has the capacity to convey 1,076 mgd to Blue Plains.



## **APPENDIX 5-1**

### **BPAWWTP Flow Summaries**



Date (1)	Rainfall at National Airport, inches (2)	Maximum Hourly Flow to Excess Flow Treatment Outfall 001 mgd	Maximum Hourly Flow to Complete Treatment Outfall 002 mgd
1/9/2016, 1/10/2016	0.77	60	541 (3)
1/15/2016, 1/16/2016	0.33	0	412
1/22/2016, 1/23/2016	1.48	0	329
2/3/2016	0.35	159	543 (3)
2/8/2016, 2/9/2016	0.23	0	412
2/14/2016 - 2/16/2016	1.17	214	566 (3)
2/23/2016, 2/24/2016	1.62	293	551 (3)
3/13/2016, 3/14/2016	0.45	0	435
3/27/2016, 3/28/2016	0.34	0	390
4/7/2016	0.70	89	560 (3)
4/23/2016	0.26	0	422
4/28/2016	0.58	0	513 (3)
5/1/2016	0.49	0	470
5/2/2016	1.16	174	563 (3)
5/6/2016, 5/7/2016	0.93	104	562 (3)
5/11/2016	0.29	0	403
5/17/2016	0.41	0	441
5/21/2016 - 5/23/2016	1.10	0	493
5/29/2016	0.43	0	573 (3)
6/3/2016	0.32	0	475
6/16/2016	0.44	0	504
6/21/2016	0.99	0	580 (3)
6/23/2016	0.53	0	498
6/27/2016 - 6/28/2016	0.42	0	367
6/28/2016	0.79	0	520 (3)
7/1/2016	0.24	0	404
7/4/2016, 7/5/2016	0.58	0	418
7/16/2016	0.43	0	328
7/18/2016	0.44	0	469
7/19/2016, 7/20/2016	0.46	0	540 (3)
7/28/2016, 7/29/2016	0.37	83	555 (3)
7/30/2016	0.33	0	495
8/15/2016	1.16	56	581 (3)
8/17/2016	0.88	0	554 (3)
8/21/2016	0.69	0	559 (3)
9/19/2016	0.46	0	433
9/26/2016, 9/27/2016	0.55	0	386
9/28/2016 - 10/1/2016	1.67	67	532 (3)
10/8/2016, 10/9/2016	0.34	0	412
10/21/2016	0.26	0	404
11/30/2016, 12/1/2016	0.52	0	431
12/4/2016, 12/5/2016	0.23	0	341
12/6/2016	1.03	87	538 (3)
12/17/2016	0.26	0	381
12/24/2016	0.54	0	466
12/29/2016	0.24	0	326

**Notes:**

- (1) By observing the trend of the plant flows, rain events were grouped if they appeared to have occurred
- (2) Rainfall events 0.2" or greater are shown.
- (3) Data indicates that the plant is providing complete treatment to more flow than is required by NPDES permit.



## Section 6 Dry Weather Overflows

### 6.1 NPDES PERMIT REQUIRMENTS

The NPDES Permit prohibits dry weather overflows (DWOs) from CSO outfalls. However, there is recognition that some DWOs may occur due to unavoidable conditions such as debris, pipe failure or other reasons. Given this situation, the permit requires the following:

- When a dry weather overflow is detected, DC Water is required to begin corrective action immediately. DC Water must inspect the dry weather overflow each subsequent day until the overflow has been eliminated
- Maintain a program to enlist public support for reporting DWOs.
- Receive reports of DWOs on a 24- hour basis. Report each confirmed DWO to the District of Columbia Department of Energy & Environment and EPA Region III within 24 hours of being aware of the DWO. In addition, DC Water is required to submit a written report to EPA Region III within 5 days of the time DC Water becomes aware of the DWO.

### 6.2 BACKGROUND

In the CSS, sanitary wastewater and storm water are collected and diverted to the BPAWWTP at facilities called regulators. During periods of rainfall, the capacity of a combined sewer may be exceeded. When this occurs, regulators are designed to discharge the excess flow directly to the Anacostia River, Rock Creek, the Potomac River, or tributary waters. This excess flow is called Combined Sewer Overflow (CSO). Release of the excess flow is necessary to prevent flooding of homes, basements, businesses, and streets. CSOs are designed to occur during wet weather events and will occur when the system is functioning normally.

During dry weather conditions, sanitary wastewater in the combined sewer system should not be discharged to the receiving waters. However, debris, trash, and other materials can block regulators and affect the regulators function, sometimes resulting minor overflows during dry weather. There can also be overflow due to vital infrastructural breakdown such as a cut in power supply. These occurrences are called dry weather overflows (DWOs). Dry weather overflows are prohibited by DC Water's NPDES Permit.

DC Water maintains an aggressive program to prevent DWOs and to correct any DWOs that are identified.

## 6.3 DWOs DURING REPORTING PERIOD

There were fourteen (14) DWOs during the year 2016 as reported in quarterly reports to EPA Region III, of which eight (8) DWOs discharged to the receiving waters.

**Table 6-1**  
**Dry Weather Discharges**

Provided below are the DWOs discharged to the receiving waters in the year 2016 as reported in quarterly reports to EPA Region III.

Location	Firth Sterling Ave. and Sumner Rd., SE
Cause	DC Water received a service call regarding an overflowing sewer manhole near the intersection of Firth Sterling Ave. and Sumner Rd., SE. The backup was caused by a heavy buildup of grease in the 10-inch sanitary sewer.
Date/ Time Discovered	January 8, 2016 at approximately 8:00 AM
Action Taken	The crew was able to clear the heavy buildup of grease in the line.
Date/Time Discharge Ceased	January 8, 2016 at 5:15 PM
Estimated Volume	10,000 gallons.
Did Overflow Reach Receiving water?	Yes, via nearby catch basin that discharges into the Anacostia River.
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no additional step was needed to prevent a recurrence.

Location	Naylor Road and Southern Avenue SE
Cause	DC Water received a service call regarding a sewage flowing from Naylor Garden Apartments towards the 3600 Block of Naylor Road, SE. The DSS maintenance crew found an overflowing manhole in a wooded area near Naylor Road and Southern Ave SE.
Date/ Time Discovered	April 26, 2016 at approximately 9:51 AM
Action Taken	The crew was unable to clear the 10 inch sanitary sewer to stop the overflow. DC Water directed Anchor Contracting to the site to set up a by-pass pumping operation around the blockage in the pipeline. Anchor completed the installation of the temporary piping to effectively stop all flow for the sanitary sewer into the stream
Date/Time Discharge Ceased	April 26, 2016 at approximately 9:00 PM
Estimated Volume	10,000 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	A closed circuit television evaluation confirmed a collapse in the 10 inch sanitary sewer. Anchor Contracting replaced all defective pipe identified to prevent a recurrence.

## Dry Weather Flows

Location	Alabama Ave SE & Stanton Rd SE
Cause	DC Water received a service call about an overflowing sewer manhole at the intersection of Alabama Ave SE & Stanton Rd SE, and dispatched a maintenance crew from DSS to investigate the report.
Date/ Time Discovered	May 16 <sup>th</sup> , 2016 approximately 9:53 AM
Action Taken	The crew cleared the grease and debris buildup in the 10" sanitary sewer line.
Date/Time Discharge Ceased	May 16 <sup>th</sup> , 2016 1:30 PM
Estimated Volume	4,500 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no additional step was needed to prevent a recurrence.

Location	1509 Anacostia Ave, NE
Cause	DC Water received a service call from a contractor working in the area to identify an unmarked sewer in his excavation. Department of Sewer Services dispatched crew to investigate. The crew did not observe an ongoing sanitary discharge but found evidence of a prior overflow, which they attributed to a partially failed bulkhead at a manhole on an 18-inch sanitary main.
Date/ Time Discovered	June 2, 2016 approximately 12:00 PM
Action Taken	A repair crew was dispatched to fix the failed bulkhead.
Date/Time Discharge Ceased	June 2, 2016 approximately 1:00 PM
Estimated Volume	1,000 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no other action was identified to prevent a recurrence.

Location	4 <sup>th</sup> Street and Wayne Place SE
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding an overflowing sewer manhole at the intersection of 4 <sup>th</sup> Street and Wayne Place SE. The crew found one manhole overflowing into a nearby storm sewer that discharges into Oxon Run.
Date/ Time Discovered	July 5, 2016 approximately 11:30 AM
Action Taken	DC Water was able to clear the sewer from a buildup of grease and debris in the line. They then flushed the line with a degreasing chemical.
Date/Time Discharge Ceased	July 5, 2016 approximately 2:00 PM
Estimated Volume	2,000 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	DSS plan to inspect the 10 inch sewer by closed circuit television camera (CCTV) to determine whether additional action would be needed to prevent a recurrence.

## Dry Weather Flows

Location	2528 Sheridan Road Se
Cause	DC Water sewer maintenance crew was dispatched to investigate a service call regarding a leak in the street. The crew found a manhole, on a 10 inch sanitary sewer, overflowing on to the street and into a nearby storm sewer that discharges into Anacostia River.
Date/ Time Discovered	July 12, 2016 approximately 11:30 PM
Action Taken	DC Water was able to clear the sewer from a buildup of grease in the line.
Date/Time Discharge Ceased	July 13, 2016 approximately 1:15 AM
Estimated Volume	1,000 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	DSS plan to inspect the 10 inch sewer by closed circuit television camera (CCTV) to determine whether additional action would be needed to prevent a recurrence.

Location	15 <sup>th</sup> Street and Mississippi Ave., SE
Cause	This is a follow up report of the August 17, 2016 voice message regarding a Sanitary Sewer Overflow. DC Water received notice from one of our consultants inspecting sewer crossings in stream beds that a manhole structure in Oxon Run was washed away, most likely caused by the heavy storms during week, and sanitary sewage was seeping into the creek.
Date/ Time Discovered	August 17, 2016 approximately 3:35 PM
Action Taken	Anchor Contracting will clean the debris from the pipe and perform the permanent pipe repairs.
Date/Time Discharge Ceased	August 17, 2016 approximately 9:00 PM
Estimated Volume	10,000 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	We plan to abandon the collapsed manhole, install PVC pipe through the manhole and encase it with concrete to prevent any further overflows into Oxon Run. The flow is currently contained in the pipe through the collapsed manhole eliminating the need for a pump at this time. Work will continue until completed. We will provide a follow up notice to EPA when the work is completed.

Location	CSO 007 Discharge between 11 Street and Anacostia Bridge SE
Cause	During a routine inspection, a DC Water field crew discovered an overflow at CSO 007. Pumping operators were contacted and determined that screens at Poplar Point Sewer Pumping Station had malfunctioned causing a backup.
Date/ Time Discovered	September 1, 2016 approximately 2:00 PM
Action Taken	The pumping operators cleared the screen to allow it to function properly.
Date/Time Discharge Ceased	September 1, 2016 approximately 3:05 PM
Estimated Volume	6500 gallons.
Did Overflow Reach Receiving water?	Yes
Action taken to prevent reoccurrence	A comprehensive assessment of the screens resulted in the replacement of bolts and pins on the climber screens to prevent a recurrence.



## Dry Weather Flows

Provided below are the other dry weather discharges that were identified as not reaching the receiving water in the year 2016 as reported in quarterly reports to EPA Region III.

Location	300 Missouri Ave NW
Cause	DC Water received a service call regarding a sewer complaint at 300 Missouri Ave NW and found sewer in the basement. Crews reported that manholes on the main sewer were surcharged but did not overflow on the surface.
Date/ Time Discovered	March 28, 2016 at approximately 6:30 PM
Action Taken	The crew was able to clear the heavy buildup of grease and debris in the line.
Date/Time Discharge Ceased	March 28, 2016 9:30 PM
Estimated Volume	20 gallons.
Did Overflow Reach Receiving water?	No
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no other action was identified to prevent a recurrence

Location	141 Chesapeake St SW
Cause	DC Water received a service call regarding a sewer customer complaint at 141 Chesapeake St SW regarding a sewer backup in home.
Date/ Time Discovered	April 5th, 2016 at approximately 8:20 PM
Action Taken	The crew cleared the grease buildup in the line.
Date/Time Discharge Ceased	April 5th, 2016 9:30 PM
Estimated Volume	20 gallons.
Did Overflow Reach Receiving water?	No
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no other action was identified to prevent a recurrence.

Location	South Capitol St., & Galveston Rd., SW
Cause	DC Water received a service call from a customer regarding sewage flowing near South Capitol St., and Forester St., SW. DSS maintenance was dispatched and found an overflowing manhole in a grassy area near South Capitol St and Galveston Rd SW.
Date/ Time Discovered	June 8, 2016 approximately 1:00 PM
Action Taken	The crew was able to clear a buildup of grease and rap in the 10-inch sanitary sewer and stop all overflow.
Date/Time Discharge Ceased	June 8, 2016 approximately 2:20 PM
Estimated Volume	200 gallons.
Did Overflow Reach Receiving water?	No
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no other action was needed to prevent a recurrence.

## Dry Weather Flows

Location	2321 First Street NW
Cause	DC Water received a service call from a homeowner regarding a sewer back up in their home. A maintenance crew from Department of Sewer Services (DSS) was dispatched to investigate the report. Crew found stagnant flow in a 12 inch combined sewer that serves the property.
Date/ Time Discovered	June 16, 2016 approximately 11:30 PM
Action Taken	The maintenance crew was able to clear the blockage and relieve the resident. The backup was caused by a buildup of roots in the sewer.
Date/Time Discharge Ceased	June 17, 2016 approximately 12:30 AM
Estimated Volume	20 gallons.
Did Overflow Reach Receiving water?	No
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no additional step was needed to prevent a recurrence.

Location	3350 D Street SE
Cause	DC Water received a complaint from homeowner at 3350 D St SE regarding a sewer back up in their home. A maintenance crew from the Department of Sewer Services was dispatched to investigate the report. The crew found stagnant flow in 10 inch sanitary sewer that back up several residents' basements.
Date/ Time Discovered	August 2, 2016 approximately 2:15 PM
Action Taken	The crew cleared the grease buildup in the line.
Date/Time Discharge Ceased	August 2, 2016 approximately 5:30 PM
Estimated Volume	200 gallons.
Did Overflow Reach Receiving water?	No
Action taken to prevent reoccurrence	DSS plan to inspect the 10 inch sewer by closed circuit television camera (CCTV) to determine whether additional action would be needed to prevent a recurrence.

Location	Foundry Branch near W Street and Foxboro Pl., NW
Cause	DC Water received a call regarding a sanitary sewer manhole overflowing into the Foundry Branch stream, on National Park Service Property, in Glover-Archbold Park near 42 <sup>nd</sup> Street & Davis Place NW. DSS maintenance crew was dispatched to investigate the report. The crew arrived at location 11:15 AM, searched the park until 12:30 PM but did not find an overflowing manhole. Attempts to contact the caller to verify the location was unsuccessful. At 3:01 PM, the same day, DC Water received another call reporting an overflowing manhole in Glover-Archbold Park near W Street and Foxboro Place NW. The manhole was found overflowing.
Date/ Time Discovered	September 10, 2016 approximately 9:03 AM
Action Taken	Due to remote location, the buildup of grease and debris was removed with a specially designed hook.
Date/Time Discharge Ceased	September 10, 2016 approximately 8:00 PM
Estimated Volume	5000 gallons.
Did Overflow Reach Receiving water?	No
Action taken to prevent reoccurrence	DC Water inspected the pipe more thoroughly by closed circuit television and no other action was identified to prevent a recurrence.

### **6.4 PUBLIC PROGRAM TO REPORT DWOs**

Part of DC Water’s program to prevent and report DWOs includes use of their website as a tool to inform and involve the public. The website includes an explanation and photos of how littering and improper debris disposal can increase the potential for DWOs. Furthermore, it describes DC Water’s maintenance program for debris control and removal. In addition, the website also provides a telephone number that the public can call to report a Dry Weather Overflow. Printouts of excerpts from DC Water’s website can be found in Appendix 9-1.

Besides the website, DC Water also includes biannual mailers in residents’ water and sewer bills. These mailers, entitled “Clean Rivers Project News” summarize the work being done by DC Water, provide information on the CSS and explain both CSOs and DWOs and the role of the public in preventing and reporting these events. Copies of the 2016 mailers are located in Appendix 9-2.



# **Control of Solids and Floatables**

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## **Section 7 Control of Solids and Floatables**

### **7.1 NPDES PERMIT REQUIREMENTS**

Permit requirements for this NMC are summarized as follows:

- Screen pumped overflows at the Main and O Street Pumping Stations.
- Screen flow into the Northeast Boundary Swirl Facility.
- Operate and maintain end of pipe solid and floatable BMP demonstration controls which consist of the end of pipe netting system at CSO Outfall 018 and the bar racks at CSO Outfalls 040 and 041.
- Clean 85 percent of the 8200 catch basins in the combined sewer area at least annually. Inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.
- Operate the Anacostia River Floatable Debris Removal Program (Skimmer Boat program).
- Implement an ongoing, appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewer shed, including public service announcements, public school presentations and stenciling programs.
- Advise D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. Document these efforts in quarterly CSO reports.
- Prepare lesson plan materials to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. Make the materials available to D.C. Public elementary schools for their use. Offer to make presentations to schools on the lesson plan and the CSO program at up to 6 occasions per year.

Information reported in this Section is based on data reported to EPA Region III in DC Water's quarterly reports.

### **7.2 SCREENING AT MAIN AND O STREET PUMPING STATIONS**

Solids and floatables control is provided to the pumped overflows at Main and O Pumping Stations by bar racks on the influent side of the storm pumps are screened. Due to the nature of the configuration, the amount of floatables removed cannot be quantified.

### **7.3 NORTHEAST BOUNDARY SWIRL FACILITY SCREENING**

Solids and floatables are removed from the influent to the Northeast Boundary Swirl Facility by mechanically cleaned screens. A summary of the quantity removed in 2016 is presented in Table 7-1.

## Control of Solids and Floatables

**Table 7-1**  
**Screenings Removed at Northeast Boundary Swirl Facility**

<i>Month</i>	<i>Quantity of Material Removed (cu.ft.)</i>
January	64
February	332
March	98
April	148
May	424
June	408
July	556
August	336
September	164
October	152
November	140
December	244
Total	3,066

Notes:

- (1) The Inflatable dams at Structure 24, diverts flow from the Northeast Boundary sewer to the Northeast Boundary Swirl Facility.

### 7.4 BMP DEMONSTRATION FOR SOLIDS AND FLOATABLES CONTROL

- Netting system at CSO 018

Netting devices intercept floatables from CSOs passing through a set of netted bags. DC Water has installed a floating end of pipe netting system as a demonstration project.

The CSO 018 netting system is located adjacent to the skimmer boats. The DSS skimmer boat staff inspects the netting system on normal workdays, removes the captured floatable debris and changes the nets when necessary. Table 7-2 summarizes the materials removed by the netting system.

**Table 7-2**  
**Screenings Removed at CSO 018 Netting System**

<i>Month</i>	<i>Quantity of Material Removed (lbs)</i>
January	0
February	0
March	600
April	0
May	0
June	350
July	0
August	5

## Control of Solids and Floatables

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<i>Month</i>	<i>Quantity of Material Removed (lbs)</i>
September	350
October	0
November	0
December	850
Total	2,155

- Bar Racks at CSO 040 and CSO 041  
These are manually cleaned bar racks that capture solids from the CSO prior to discharge. The bar rack system is designed so that the captured solids and floatables are conveyed to BPAWWTP for treatment. Bar racks are inspected monthly.

### 7.5 CATCH BASIN CLEANING

The Catch Basin crews inspect and clean catch basins on a rotating basis beginning in District Ward No. 1 and continuing through to Ward No. 8.

A summary of the catch basins cleaned by DC Water for the reporting period is provided in Table 7-3.

## Control of Solids and Floatables

**Table 7-3**  
**Catch Basin Summary**

<i>Ward</i>	<i>Total CBs</i>	<i>CBs in CSS</i>	<i>Inspections</i>			<i>Cleaning</i>	
			<i>CBs in Anacostia CSS</i>	<i>Total Anacostia CBs Inspected Once this Year</i>	<i>Total Anacostia CBs Inspected Twice this Year</i>	<i>Total CBs Cleaned This Year to Date</i>	
						<i>Total</i>	<i>In CSS</i>
1	1456	1417	601	601	601	1508	1453
2	2863	2681	539	539	539	2975	2713
3	3651	166	0	0	0	3863	281
4	3448	1708	0	0	0	3646	1798
5	3890	1779	1688	1688	1688	4368	1827
6	3527	2886	2886	2886	2886	3967	3125
7	3461	27	27	27	27	4140	47
8	2679	206	206	206	206	2802	223
DC Water Subtotal	<b>24,975</b>	<b>10,870</b>	<b>5,947</b>	<b>5,947</b>	<b>5,947</b>	<b>27,269</b>	<b>11,467</b>
DDOT (via VMS) Subtotal						<b>0</b>	<b>0</b>
Grand Total	<b>24,975</b>	<b>10,870</b>	<b>5,947</b>	<b>5,947</b>	<b>5,947</b>	<b>27,269</b>	<b>11,467</b>
% Cleaned/Inspected to Date				<b>100%</b>	<b>100%</b>	<b>&gt;100%</b>	<b>&gt;100%</b>

The table indicates that DC Water has met or exceeded the permit requirements to clean 85 percent of the catch basins in the combined sewer area at least annually, and inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.

### 7.6 ANACOSTIA RIVER FLOATING DEBRIS REMOVAL PROGRAM

This program was initiated in September 1992 to remove floating debris from the Anacostia and Potomac Rivers on a routine basis. The Department of Sewers Services operates two skimmer boats, 5-days per week excluding holidays (weather permitting) to remove small floating debris from the Rivers as well as trash. The Army Corps of Engineers is responsible for removing hazards to navigation such as trees and logs. DSS Crews document the amount and type of debris, which is included in the monthly operations report. A summary of 2016 reports is included in Table 7-4.



## Control of Solids and Floatables

**Table 7-4**  
**Anacostia River Floatable Debris Removal Program Summary**

<i>Month</i>	<i>Material Removed (tons)</i>
January	2
February	20
March	100
April	50
May	60
June	30
July	5
August	15
September	20
October	10
November	10
December	10
Total	332

### **7.7 COORDINATION OF LITTER CONTROL WITH DPW AND NPS**

DC Water shared the requirement of NPDES permit with DPW and NPS in order to engender their collaboration in Litter Control efforts within the District of Columbia. The cooperation of DPW and NPS was further stressed in the implementation of specific mitigation programs such as catch basin cleaning and Floatable River Debris Removal Program. See coordination letter providing recommended best practices on litter control in Appendix 7-1.

### **7.8 BI-LINGUAL PUBLIC EDUCATION PROGRAM**

DC Water implemented an appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewershed, to include public service announcements and presentations/ environmental lessons. Additionally, DC Water coordinated radio advertising of its Catch Basin Public Service Announcement on a local English and Spanish radio station, to increase public awareness on the negative impact of littering within the district. A copy of the invoices on radio commercials and scripts are attached in Appendix 7-2.

### **7.9 SCHOOL OUTREACH EFFORTS**

DC Water presented at the following schools to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. For each presentation, the project and environment benefits of the sustainable project were discussed and “A Drop’s Life” video was shown, followed by a deeper discussion about urban storm water pollution and DC Water’s role in reducing CSOs and improving the health of our local waterways. The lesson plan on “A Drop’s Life” is attached in Appendix 7-3.

## Control of Solids and Floatables

---

**Table 7-5**  
**School Outreach Efforts**

<b>No.</b>	<b>Date &amp; Time</b>	<b>Location</b>
<b>1</b>	January 13, 2016	D.C. Public Library – William Lockridge/ Bellevue Neighborhood Library 115 Atlantic St SW Washington, DC 20032
<b>2</b>	March 15, 2016	Wilson High School 3950 Chesapeake St NW, Washington, DC 20016
<b>3</b>	April 11, 2016	National Cathedral School 3612 Woodley Rd NW, Washington, DC 20016
<b>4</b>	May 26, 2016	Sheridan School 4400 36th St NW, Washington, DC 20008
<b>5</b>	June 27, 2016	Amidon-Bowen Elementary School 401 I St SW, Washington, DC 20024
<b>6</b>	June 27, 2016	Burrville Elementary School 801 Division Ave NE, Washington, DC 20019

# **APPENDIX 7-1**

## **Coordination of Litter Control**





DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

December 16, 2016

Mr. Peter May  
Associate Regional Director- Lands, Planning and Design  
National Park Service  
1100 Ohio Drive SW  
Washington, DC. 20242

Mr. Christopher Shorter  
Acting Director  
Department of Public Works  
Government of the District of Columbia  
2000 14<sup>th</sup> Street NW, 6<sup>th</sup> Floor  
Washington, DC 20009

Dear Sirs:

The U.S. Environmental Protection Agency (EPA) issued DC Water a National Pollutant Discharge Elimination System (NPDES) Permit for the Blue Plains Advanced Wastewater Treatment Plant and sewer system. The permit requires DC Water to conduct certain activities. In addition to other requirements, the permit requires DC Water to:

*Advise the D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. (Page 38, Part III.B.1.f.vi of permit).*

As you are aware, litter and trash on streets can be washed into drainage inlets during rain events. Litter and trash that is not captured by catch basins and other facilities enters sewers and can be discharged to the receiving waters where it negatively impacts aesthetics. DC Water has programs such as catch basin cleaning and the Anacostia River Floatable Debris Removal Program to mitigate the impact of trash and litter. In addition, we are constructing the DC Clean Rivers Project to control CSO discharges to the receiving waters.

The following recommendations are some of the many ways to combat litter and pollution in our water ways. We encourage your organization to review the articles on the EPA's website at [www.epa.gov](http://www.epa.gov), for additional ideas on how your agency can help to reduce litter in the CSS areas.

- Community education. Community education and awareness is essential to preventing trash from entering waterways. Informing the public about littering can instill a sense of citizen responsibility. For example, a community education program can inform residents of the consequences of littering and then provide them with options for recycling and waste disposal. Such messages can be conveyed to the public in flyers, door hangers, magnets, and bumper stickers. These materials can be distributed through

the mail, at public places (e.g., libraries, town halls), in schools, and at local businesses. Regular messaging to the community can help with long-term behavioral changes.

- Improved infrastructure. The location, number, and size of trash receptacles, recycling bins, and cigarette butt receptacles should be based on expected needs. Communities and private trash disposal companies should work together to meet community trash management goals, including ensuring that trash trucks are properly covered.
- Waste reduction. The public should be encouraged to buy products free of excessive packaging materials. Likewise, manufacturers should be encouraged to reduce the amount of packaging they use. This information can be distributed in flyers, magnets, and the community's web page.
- Cleanup campaigns. Cleanup campaigns are effective ways to reduce trash. They have been used successfully along rivers and in parks. By tracking what is collected, the sources of trash can be quantified and targeted to improve source reduction. Municipal projects such as regular street sweeping, receptacle servicing, and roadside cleanups are also important means to prevent trash from accumulating and entering waterways.

In accordance with the permit, we encourage your assistance in implementing best practices for litter control to improve the quality of the receiving waters in the District. Thank you for your assistance and please contact me at 202-787-4469 or at [Carlton.Ray@dcwater.com](mailto:Carlton.Ray@dcwater.com) if you have any questions.

Sincerely,



Carlton M. Ray, Director  
DC Clean Rivers Project

## **APPENDIX 7-2**

# **Bi-Lingual Public Education Program**





**RADIO ONE DC**  
**1010 WAYNE AVE STE 1400**  
**SILVER SPRING, MD 2091056520, US**  
**3013061111**

**Store #1001118983**

**12/16/16 02:41:50 PM**

**MO/TO Sale**

Radio One Inc.

**Billing Address**

Tamara Stevenson  
5000 Overlook Ave SW  
Washington, DC  
20032

**Credit Card Information**

CREDIT CARD NUMBER: Mastercard ....1460  
SWIPE CARD: No  
STATUS: APPROVED - 067973  
ORDER NUMBER: Tillman12/16/16  
PO NUMBER: Tillman12/16/16

Qty	Unit Cost	Extended Cost
1	2,000.00	2,000.00
SUBTOTAL:		\$2,000.00
TOTAL:		\$2,000.00

I AGREE TO PAY ABOVE AMOUNT ACCORDING TO CARD ISSUER.

SIGNATURE X \_\_\_\_\_

Tamara Stevenson  
WKYS/WMMJ/WOL/WYCB

# Spot Manager: Placed, 12/25/16-12/28/16

Advertiser	Station	Air Time	Date	Ad-ID	Length
<b>Ad-ID: DC WATER CATCH BASSIN</b>					
DC Water and Sewer Authority	WKYS-FM	4:15:47 PM	12/25/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	2:12:56 PM	12/25/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	10:32:11 PM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	10:08:51 PM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:37:00 AM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:20:02 AM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	5:57:08 PM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	9:23:40 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	5:55:40 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	12:38:02 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:41:49 AM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:40:00 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:24:30 AM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	8:37:30 AM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	6:21:30 PM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:52:40 PM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:14:40 PM	12/28/16 DC WATER CATCH BASSIN		1:00

[Sorted by: Date]

# Spot Manager: Placed, 12/25/16-01/01/17

Advertiser	Station	Air Time	Date	Ad-ID	Length
<b>Ad-ID: DC WATER CATCH BASSIN</b>					
DC Water and Sewer Authority	WKYS-FM	4:15:47 PM	12/25/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	2:12:56 PM	12/25/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	10:32:11 PM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	10:08:51 PM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:37:00 AM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:20:02 AM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	5:57:08 PM	12/26/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	9:31:00 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	5:55:40 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	12:38:02 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:41:49 AM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:29:46 PM	12/27/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:24:23 AM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	8:40:29 AM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	6:24:06 PM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:54:44 PM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:11:13 PM	12/28/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	10:43:23 AM	12/29/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	8:47:38 PM	12/29/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	3:12:15 PM	12/29/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	8:17:29 AM	12/29/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	9:58:54 PM	12/29/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	2:25:29 PM	12/30/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	11:28:25 PM	12/30/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	4:14:10 PM	12/30/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	8:38:43 AM	12/30/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	10:29:30 PM	12/30/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	7:12:29 PM	12/31/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	8:53:56 AM	12/31/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	5:10:25 PM	12/31/16 DC WATER CATCH BASSIN		1:00
DC Water and Sewer Authority	WKYS-FM	6:38:04 AM	12/31/16 DC WATER CATCH BASSIN		1:00

[Sorted by: Ad-ID]

# Spot Manager: Placed, 12/25/16-01/01/17

Advertiser	Station	Air Time	Date	Ad-ID	Length
Ad-ID: DC WATER CATCH BASSIN					
DC Water and Sewer Authority	WKYS-FM	11:32:17 AM	01/01/17	DC WATER CATCH BASSIN	1:00
DC Water and Sewer Authority	WKYS-FM	11:18:30 PM	01/01/17	DC WATER CATCH BASSIN	1:00

[Sorted by: Ad-ID]

**LaDawne L. White**

---

**From:** Walter torrez jr <wtorrezlanueva877@gmail.com>  
**Sent:** Tuesday, January 10, 2017 10:30 AM  
**To:** LaDawne L. White  
**Subject:** DC WATER Fwd: Copy of payment receipt from WDCN LA NUEVA 87.7

Hi Ladawne, here the copy of credit card purchase

Walter

----- Forwarded message -----

**From:** <[BusinessServices@intuit.com](mailto:BusinessServices@intuit.com)>  
**Date:** Wed, Dec 21, 2016 at 3:27 PM  
**Subject:** Copy of payment receipt from WDCN LA NUEVA 87.7  
**To:** [wtorrezlanueva877@gmail.com](mailto:wtorrezlanueva877@gmail.com)

**Dear john lisle**

Below is the sales receipt provided to you by WDCN LA NUEVA 87.7

<b>WDCN LA NUEVA 87.7</b>		<b>Receipt</b>	
8121 GEORGIA AVE STE 900, SILVER SPRING, MD 20910			
<b>Transaction Type</b>	Sale	<b>Amount</b>	\$2,000.00
<b>Cardholder Name</b>	john lisle	<b>Credit Card Number</b>	...2708
<b>Card Type</b>	MasterCard		
<b>Date &amp; Time</b>	12/21/2016 - 12:24 PST	<b>Authorization Code</b>	059242
<b>Transaction ID</b>	PK0073541002		

Dc Water / Walter

**Thank you for your order,**  
WDCN LA NUEVA 87.7

[JARQUINIOLANUEVA877@GMAIL.COM](mailto:JARQUINIOLANUEVA877@GMAIL.COM)

Please do not reply to this message as we are unable to respond to questions at this e-mail address.





**WDCN-FM**  
 8121 GEORGIA AVE  
 SUITE 900  
 SILVER SPRING, MD 20910  
 301-686-1123 Phone

DC WATER  
 5000 OVERLOOK AVENUE SW  
 WASHINGTON DC, 20032

# LA NUEVA 87.7FM WDCN Order (

**OrderID: 0489-005**

Sponsor: DC WATER  
 Product: DC WATER 2016  
 Estimate/PO:  
 AccountRep: WALTER TORREZ  
 BillingCycle: Calendar Month  
 InvoiceType: Detail Notarized Affidavit  
 Run Dates: 12/26/2016 - 1/2/2017  
 Items Ordered: 76  
 Gross Amount: 2,000.00  
 Discounts: 0.00  
 Agency Commission: 0.00  
 Net Amount: 2,000.00

## Scheduled Station(s): WDCN-FM DC WATER

Printed 12/20/2016 11:48:31 AM

Page 1

Run Dates	Run Weeks	Run Times	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Week Total	Length	Descriptio	Avail Type	Copy ID	Qty	Item Cost	Total Cost
01 12/26/2016 - 12/30/2016	All Weeks	06:00 AM - 12:00 PM	4	4	4	4	4			20	:30	Spot		DA1115	20	50.00	1,000.00
02 12/26/2016 - 12/30/2016	All Weeks	02:00 PM - 07:00 PM	2	2	2	2	2			10	:30	Spot		DA1115	10	50.00	500.00
03 12/31/2016 - 1/1/2017	All Weeks	10:00 AM - 10:00 PM						4	4	8	:30	Spot		DA1115	8	25.00	200.00
04 1/2/2017 - 1/2/2017	All Weeks	06:00 AM - 10:00 AM	4							4	:30	Spot		DA1115	4	50.00	200.00
05 1/2/2017 - 1/2/2017	All Weeks	02:00 PM - 06:00 PM	2							2	:30	Spot		DA1115	2	50.00	100.00
06 12/26/2016 - 1/2/2017	All Weeks	ALL DAY ROS (12A-	4	4	4	4	4	4	4	28	:30	Spot		DA1115	32	0.00	0.00

### Calendar Month Projected Billing:

Oct-16	0.00	Nov-16	0.00	Dec-16	1,600.00	Q4-2016	1,600.00
Jan-17	400.00	Feb-17	0.00	Mar-17	0.00	Q1-2017	400.00

Confirmed Correct; Payment Guaranteed

Accepted for Station1

## **APPENDIX 7-3**

# **School Outreach Efforts**





**Grades: K-5**

## **A Drop's Life (DC Clean Rivers Project)**

### Overview

Clean, healthy waterways are vital to the quality and sustainability of our communities. Reducing pollutants from entering District waterways will greatly improve the condition of the Anacostia and Potomac Rivers. By examining the life of a water drop, students will learn how combined sewer overflows (CSOs) and stormwater runoff enter the District, how various human activities impact the quality of our waterways, and how the DC Clean Rivers Project will help reduce water pollution.

### Objectives

After completing this lesson, students will be able to:

- Define combined sewer overflows and stormwater runoff
- Explain the impact pollution has on water quality
- Give four examples of the kinds of human activities that affect water quality
- Identify the benefits of the DC Clean Rivers Project

### Implement

Ask students: If they know what happens to the water when it rains? Explain the concepts of combined sewer overflows (CSOs) and stormwater runoff to students. Discuss how pollution from CSOs and runoff affect water quality. Ask students to share examples of various human activities that may impact the quality of our waterways. Explain the purpose of the DC Clean Rivers Project and the environmental benefits it will provide. Students will observe a 4 ½-minute animated cartoon and engage in a group discussion.



## **Section 8 Pollution Prevention**

### **8.1 NPDES PERMIT REQUIREMENTS**

The requirements in the NPDES permit for this NMC are as follows:

- Conduct regular public education programs to advise citizens of proper disposal of substances.
- Conduct tours of the BPAWWTP to educate public on aspects of CSO control that can be enhanced with public assistance.
- Use the pretreatment program to encourage industrial waste reduction through recycling and improved housekeeping.
- Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.
- Coordinate where feasible and practicable DC Water's pollution prevention programs with those of D.C. government agencies such as Department of Public Works Programs and Department of Health Programs.

### **8.2 PUBLIC EDUCATION PROGRAMS**

DC Water provides information about pollution prevention and proper disposal of substances to the public through the following:

- DC Water website – excerpts from the website documenting this are included in Section 9.
- Water and sewer bill mailers – DC Water issues water and sewer bill mailers related to CSOs (called the “CSO Update”) twice per year to all customer accounts. The mailer includes information on pollution prevention and proper disposal of substances.
- School Outreach Efforts – This is discussed in Section 7.

Tours of the Blue Plains Wastewater Treatment Plant may be arranged through the DC Water Department of External Affairs or via the DC Water webpage. A list of tour dates for 2016 is included in Appendix 8-1.

### **8.3 PRETREATMENT PROGRAM**

During the annual inspections of Significant Industrial Users, the Pretreatment and Lab Section of DC Water identifies pollution prevention techniques currently practiced at each facility. These include, but are not limited to secondary containment, spill containment and overfill protection and the use of environmentally friendly products. In addition, the pretreatment inspection report includes recommendations to improve the facility's pollution prevention techniques.

DC Water has developed a joint guidance document with the District Department of Energy & Environment (DOEE) Hazardous Waste Division on Wastewater Management and Minimization for HealthCare Facilities. This document identifies acceptable disposal practices for a number of chemicals and other waste categories typically found in hospitals, and promotes pollution prevention by suggesting best management practices for minimizing waste streams through material and equipment substitutions and source reduction.

### **8.4 NOTIFICATION OF RESPONSIBLE AGENCIES**

In accordance with its permit requirements, DC Water notified the DOEE, Transportation and Public Works regarding their responsibilities to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems. A copy of this notification is in Appendix 8-2.

### **8.5 AGENCY COORDINATION**

In addition to the above activities, DC Water also coordinates with DC government agencies to conduct pollution prevention programs. With the DC Department of Public Works and the Department of the Environment, they provide education to the public about the following topics:

- Leaf Collection
- Curbside Recycling
- Household Hazardous Waste Collection
- Residential Bulk Refuse Collection and Self-Service Disposal
- Street Cleaning and Sweeping
- Inspection and Enforcement of Storm Water and Erosion/Sedimentation Control Regulations

Examples of pamphlets distributed to the public, information and reports concerning these programs are included in Appendix 8-3.

## **APPENDIX 8-1**

### **Blue Plains Public Tours – 2016**





## Who We Are

- ▶ [Contact Information](#)
- ▶ [General Information](#)
- ▼ [Tours](#)
  - ▶ [Request a Tour](#)
- ▶ [History](#)
- ▶ [Executive Management](#)
- ▶ [Senior Management](#)
- ▶ [Board of Directors](#)
- ▶ [DC Water Cares](#)

## Tours of Blue Plains

Welcome to the Blue Plains Advanced Wastewater Treatment Plant. You may request an on-site guided tour via our website.

Wastewater is collected by the District of Columbia sewer system and from the Maryland and Virginia suburbs and is delivered to the Blue Plains AWTP. The Blue Plains AWTP is the largest advanced wastewater treatment facility of its type in the world.

We also have the [wastewater treatment process](#) detailed in the "What We Do" section of this website.

### Watch Virtual Tour of Blue Plains

### What can you find in this section?

- ▶ [Request a Tour](#)  
Sign up for a personal or group tour of DC Water facilities.



## Who We Are

- ▶ [Contact Information](#)
- ▶ [General Information](#)
- ▼ [Tours](#)
  - ▶ [Request a Tour](#)
- ▶ [History](#)
- ▶ [Executive Management](#)
- ▶ [Senior Management](#)
- ▶ [Board of Directors](#)
- ▶ [DC Water Cares](#)

## Request a Tour

Please use this form to request a tour of the DC Water Blue Plains Advanced Wastewater Treatment Plant, located at 5000 Overlook Avenue, SW. At Blue Plains, tours are offered on Wednesdays for junior and high school students, and Thursdays for other interested groups. Tours are scheduled to begin at 10 a.m. and last approximately 60-90 minutes.

Middle school students, grades 6 and up, are allowed on the plant, but will not be permitted to exit the vehicle. High school seniors (12th grade only) will be permitted to exit the vehicle on the plant, at the tour guide's discretion. Students in grades 5 and below are not permitted on the plant. Please include a brief description of your group's origin and interests, so we can assign an appropriate guide. You will receive an e-mail confirmation or phone call to acknowledge your request within 2 business days.

We can accommodate tour groups up to 25 people at one time and will provide transportation while on the plant for the tour. We do not allow multiple vehicles to tour the facility at one time. Participants are required to ride together in one vehicle for safety and security measures. We also offer tours as requested for our Bryant Street Water Pumping Station located at 301 Bryant Street, NW. Please email [Darryle.Brown@dcwater.com](mailto:Darryle.Brown@dcwater.com) or call (202) 787-3580 to inquire about Bryant Street. To learn more, go to <https://www.dewater.com/about/facilities.cfm>.

\* = Required field

Group Type: *	<div>- Please Select -</div>
Group type, if other:	<input type="text"/>
Preferred Tour Date: *	<div></div>
Tour Time: *	<div>10 00 AM</div>
Secondary Tour Date: *	<div></div>
Tour Time: *	<div>10 00 AM</div>
Group Size:(up to 25) *	<input type="text"/>
Does the group speak English? *	<input checked="" type="radio"/> yes <input type="radio"/> no
If no, language spoken: (DCWater does not provide translation services.)	<input type="text"/>
If arriving at Blue Plains in a private bus or van, can the DC Water tour guide use your vehicle for the tour? (if "no", a DC Water vehicle will be provided)	
<input type="radio"/> yes <input checked="" type="radio"/> no	
Contact Person's First Name: *	<input type="text"/>
Contact Person's Last Name: *	<input type="text"/>
Contact Person's Phone: *	<input type="text"/>
Contact Person's Email: *	<input type="text"/>
Organization:	<input type="text"/>
Please state your specific goal for this tour:	<div></div>
	<div>Back Submit</div>



**SCHEDULED JANUARY TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Thu Jan 7	10A	NEED Project Energy Industry Studies Program <span style="color: green;">LIST SENT</span>	30	Department of Energy, specifically EIA, employees <span style="color: blue;">own their own bus</span>	George M
Thu Jan 14	10A	Interested Infrastructure Professionals <span style="color: green;">LIST SENT</span>	10 +3	To learn more about both the water treatment process and the new wastewater electricity plant.	Chris P
Thu Jan 21	10A	World Bank Group Energy Staff <span style="color: green;">LIST SENT</span>	25	Familiarize & inspire WBG energy staff in relation to electricity production from biogas in general and from waste water plants in particular. All participants will be highly skilled energy people	Chris P
Fri Jan 22	9A	Beijing Drainage Group <span style="color: green;">LIST SENT</span>	6	Dr. Chang CAMBI tour <span style="color: blue;">own their own bus</span>	Christine Dr. Chang
Wed Jan 27	10A	AP ES/Engineering Class	25	Firsthand experience with water treatment facility <span style="color: blue;">own their own bus</span> <span style="color: red;">RESCHEDULED</span>	
Wed Jan 27	1P	Department of Environmental Protection Montgomery County <span style="color: green;">LIST SENT</span>	12	Briefing with GM prior to digester tour <span style="color: blue;">own their own bus</span> <span style="color: red;">CANCELED</span>	Chris P
Thu Jan 28	10A	1. Justin Bellow, DCW 2. Monty Cooper 3. Stephanie Connolly 4. Elizabeth Owen 5. Robert Owen 6. Khalid Assistai (+4)	13	Mixed group- DCW van  <span style="color: red;">CANCELED</span>	

**SCHEDULED FEBRUARY TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Thu Feb 4	10A	National Park Service (Park Rangers) <a href="#">ADD Monty Cooper</a>	10	Would love to hear everything we can about our shared watershed and learn some contacts so we can start to build a partnership <a href="#">DCW van</a>	George M
Fri Feb 5	11A 1:30P	Maret Junior High School	30 30	7 <sup>th</sup> graders- have seen Bipin's sewer science presentation at their school <a href="#">on their own bus</a>	Ryu Miguel
Thu Feb 11	10A	Groundwork Anacostia River DC <a href="#">list sent</a>	20	To educate the youth on the process of clean water. <a href="#">on their own bus</a>	Chris P
Thu Feb 18	10A	Optoro, Inc. <a href="#">list sent</a>	8	To learn more about innovative technologies that promote sustainability. <a href="#">DCW van</a>	Bipin
Wed Feb 24	10A	National Cathedral School <a href="#">list sent</a>	15	AP Environmental Science class. Emphasis on water pollution, and they since sewage treatment plays a major role in water quality, seeing the facility would help them understand the process and the magnitude of the issue. The waste to energy component of Blue Plains is another excellent example of environmental innovation that they could learn a lot from.	George M
Thu Feb 25	10A	Calvert County DPW Water and Sewerage <a href="#">list sent</a>	8	General tour	Wendell
Fri Feb 26	10A	American Society of Civil Engineers <a href="#">list sent</a>	25	<a href="#">on their own bus</a>	Ahmed Christine

### SCHEDULED MARCH TOURS FOR BLUE PLAINS- 2016

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Wed Mar 2	10A	National Cathedral School - Environmental Science Senior class <i>List sent</i>	16	Goal: water quality/wastewater treatment/ waste-to energy	Miguel
Wed Mar 2	2P	Cabo Verde Delegation <i>List sent</i>	10	Finance briefing on Water Infrastructure & Innovation Tour	Bill
Wed Mar 9	10:30A	UMD <i>List sent</i>	25	Hosted by Adrian Romero <i>Fleet bus needed</i> —all day tour	Mark R
Thu Mar 10	9:30A	WRF Workshop	18	Full day organized by Sudhir <i>Fleet bus needed</i>	Christine/ Ahmed
Fri Mar 11	10A	Georgetown University <i>List sent</i> <i>on their own bus</i>	39	George Hawkins Introduction MBA students studying the connections between business and water. one week intensive class <i>COF Conf Room C&amp;D reserved</i>	Bill Brower
Tue Mar 15	11A	Catholic University <i>List sent</i>	25	Dr. Massoudieh & students <i>On their own bus</i>	George M
Thu Mar 17	10A	Mixed group <i>List sent</i>	25	to understand how the components of the Blue Plains Plant work holistically to treat the water and the maintenance policies of the system.— <i>Fleet bus needed</i> —	Bipin
Fri Mar 18	11A	EPA Administrator <i>List sent</i>	5	Biju George briefing <i>Fleet : van &amp; driver requested</i>	Aklile
Mon Mar 28	10A 2P	Global Methane Initiative/ EPA <i>List sent</i>	25 25	U.S. EPA Global Methane Forum WDC	Miguel Ryu
Wed Mar 30	10A	Gonzaga College High School <i>List sent</i>	21	AP Environmental Science class to learn some science-based details of the treatment process	Chris R
Wed Mar 30	10A	Upper Occoquan Water Authority <i>List sent</i>	15	Via James Neal <i>Fleet bus needed</i> — 3 cars need parking	Miguel

**SCHEDULED APRIL TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Tue Apr 5	10A	EPA Office of Wastewater Management <a href="#">list sent</a>	35	GM & Bezak GI briefing Contact: Alison Souders 202-564-2730 <a href="#">own their own bus</a>	Christine Chris P/ Nick P
Wed Apr 6	10A	Kingsman Academy High School <a href="#">list sent</a>	25	To learn water filtration system; to understand how chemical change is involved in this process <a href="#">own their own bus</a>	George
Thu Apr 7	10A	Dept. of Energy Fellows	25	Interested in biodigester/energy generation <a href="#">own their own bus</a>	Mark
Thu Apr 7	2P	New Zealand Biosolids Tour <a href="#">list sent</a>	2	Contact: Garry Macdonald UOSA 10ATour- June Mahoney 703-227-0204	Chris P
Tue Apr 12	<b>9:30A</b>	Cap to Cap Tour- Clean Rivers	25	9A Briefing and 1 hour Tour- <b>Fleet bus 8:30 am hotel pick up</b> <a href="#">The Mayflower Hotel 1127 Connecticut Ave NW</a> <a href="#">Return to the Cannon House Office Building</a>	Bipin
Thu Apr 14	10A	Gallaudet University American Sign Language <a href="#">list sent</a>	25	To understand how the wastewater treatment process works and how it will help the ecosystem health of the Potomac River and Chesapeake Bay <a href="#">own their own bus</a>	Miguel
Wed Apr 20	10A	Lorien Wood School junior high <a href="#">list sent</a>	19	6th graders studying Chesapeake Bay Watershed. The goal of this trip is for students to learn about what is wastewater, what happens to waste water, how it is treated, and what they can do at home to help maintain ecosystem health via water health.	Wendell
Thu Apr 21	9A	John Hopkins University <a href="#">list sent</a>	20	General Tour	George M
Wed Apr 27	10A	Eastern SHS	25	AP Environmental Science class here to connect many of our topics together in preparation for our exam. Students in this class visited last year and had a phenomenal time	Miguel
Wed Apr 27	9:45A	Risk Management	14	General Tour COF Rm 304	Chris R

**SCHEDULED MAY TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Thu May 5	11A	DCPS- Industry Partnership Programs Office of College and Career <span style="color: green;">list sent</span>	20	General Tour- on their own bus	Miguel
Tue May 10	2P	Council of Governments <span style="color: green;">list sent</span>	12	DCW van- MHolman, BBezak,	Mark
Wed May 11	10A	Lab School of Washington junior high- 7 <sup>th</sup> grade <span style="color: green;">list sent</span>	25	Our students will be learning about sustainability, and we are particularly interested in the ways this waste treatment plant is socially and environmentally sustainable.	Bill B
Tue May 17	11A	New Employee Orientation	25	General tour <span style="color: red;">FLEET Bus</span>	Wendell
Wed May 18	10A	Lab School of Washington 7 <sup>th</sup> grade	25	Our students will be learning about sustainability, and we are particularly interested in the ways this waste treatment plant is socially and environmentally sustainable.	Bill B
Thu May 19	10A	AECOM Infrastructure Engineers	10	-Via Bohdan DCW van	Bipin
Wed May 25	10A	EL Haynes PCS	25	<span style="color: red;">FLEET</span> This will be a field trip for students as part of the environmental science program at our high school.	
Wed May 25	11A	IAD Bank	25	On their own bus	Adrian Romero
Thu May 26	<span style="background-color: yellow;">3P</span>	DCW Summer Interns	25	<span style="color: red;">FLEET</span>	
Fri may 27	<span style="background-color: yellow;">3P</span>	DCW Summer Interns	25	<span style="color: red;">FLEET</span>	

## SCHEDULED JUNE TOURS FOR BLUE PLAINS- 2016

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Thu Jun 2	10A	US EPA on their own bus <i>list sent</i>	27	U.S. EPA Office of Resource Conservation and Recovery, interested in RCRA program in practice at local facilities. The visit would be purely educational for new staff. We would be interested to hear about how DC Water interacts with EPA, the generation and disposal of waste at Blue Plains, and the new CAMBI THP technology. <i>On their own bus</i>	
Thu Jun 2	10:30A	DCW Board members past & present <i>Torri to join this group!</i>		<i>Fleet bus</i> via GHawkins immediately following the Board meeting—to learn about latest innovations & new technology Linda Manley X2332 is the point of contact	
Wed Jun 8	9A	Latin/Caribbean American Delegates	14	<i>On their own bus</i> Lunch & Briefing in VC classroom from 1:30-3:30 pm with Xylem Water Solutions	Chris P
Wed Jun 8	10A	Pew Charitable Trusts- research division	18	<i>Fleet bus</i> - general tour	
Thu Jun 9	10A	Mixed group	12	General tour... <i>check DCW van day before</i>	
Thu Jun 16	10A	Alliance for the Chesapeake Bay River Smart Homes	20	Arriving at 9:30 to set up morning snacks Interested in Bloom- <b>call to confirm transportation</b>	
Thu Jun 16	2P	EPA: Post Climate Leadership Conference	10	<b>RESERVED COF 5<sup>th</sup> Floor Conf Room A for GM briefing prior to tour</b> <b>Call to confirm transportation</b>	
Wed Jun 22	3P	Progressive Life Center, Inc.	10	To expose youth to career opportunities in the DMV area. Need to confirm ages of youth- <b>call to confirm transportation</b>	
Wed Jun 22	3-5P	Annual Governors Energy Advisors Policy Institute	25	Via Ernest Jolly- <i>on their own bus</i>	Chris P
Thu Jun 23	10A	Gensler Sustainability Specialists	25	General tour - <b>call to confirm transportation</b>	
Thu Jun 30	10A	BlueGreen Alliance Environmental, Energy, Infrastructure Group	10 +1	We advocate for greater investment in modernizing America's energy and water infrastructure. Want to learn more about the technology, project finance, environmental outcomes, learnings <b>call to confirm transportation</b>	

## July Tours

Tour #	Date	Time	Group	Size	Transportation	Guide	Interests/Notes	List?
	Wed 7/6	10a	Dept of Energy and Environment Summer Youth Program	25		Alterra	General Tour	yes
	Wed 7/13	10a	Chesapeake Bay Foundation	20	Fleet Bus	Chris P.	Will arrive via a boat to the dock	yes
	Thu 7/14	10a	EPA Office of General Counsel	12		Chris P.	General Tour	yes
	Thu 7/14	2p	Washington Youth Garden Green Ambassadors Program	15		Alterra	high school interns interested in biosolids/Bloom	
	Tues 7/19	10a	NEED Project	40		Wendell	Teachers learning about teaching Energy	yes
	Tues 7/19	2p	NEED Project	40		Ahmed	Teachers learning about teaching Energy	yes
	Wed 7/20	10a	Dept of Energy and Environment Summer Youth Program	25		Alterra	General Tour	
	Tues 7/26	11a	New Employee Orientation	25	Fleet Bus	Alterra (Aaron will shadow)	General Tour	
	Wed 7/27	9a	York Region	3		Christine D.	Research and innovation laboratory tour--Biju George and Mr. Hawkins to join via Sarah Neiderer	
	Wed 7/27	10a	Dept of Energy and Environment Summer Youth Program	25		Chanda	General tour	
	Thu 7/28	10a	Chesapeake Bay Foundation	23		Bipin	Professional Development for teachers in Montgomery County regarding connections between natural and social systems	

## August Tours

Tour #	Date	Time	Group	Size	Transportation	Guide	Interests/Notes	List?
	Tues 8/2	10a	council members from the city of Parana, Entre Rios province	5		<a href="#">Ryu Suzuki</a>	Technology and Innovation	
<b>cancelled</b>	<del>Thu 8/4</del>	<del>10a</del>	<del>Mixed Group: EPA, Office of Water, Interested Citizens</del>	<del>12</del>		<del>Ryu</del>	<del>Technology innovation and general tour</del>	
	Thu 8/11	3p	DCHR Capital Fellows	20	own		General Tour	
	Wed 8/17	10a	AECOM Interns	11	DCW Van			
	Thu 8/18	2p	DCHR Capital Fellows	20	own	Bipin	General Tour	
	Thu 8/25	10a	Accenture DC Metro ECO Team	15	DCW Van	Chanda	General Tour	



# SCHEDULED SEPTEMBER TOURS FOR BLUE PLAINS- 2016

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Thu Sep 1	10A	The Tower Companies: Real Estate Sustainability Professionals Working Group	15	a group of sustainability directors that work for different commercial real estate building owners in the D.C. area. We all work in the green building world	Shawna Martinelli
Thu Sep 8	10A	Infrastructure Observatory, DC Chapter	10	a multidisciplinary group of professional engineers interested in infrastructure. Our preference would be for the most technical tour available!	Miguel Miranda & Chris Reilly
Thu Sep 8	2p	GE Corporate	4	General tour	George Mypoyo
Wed Sep 14	10A	EPA Climate Change	20		Bill Brower
Thu Sep 15	10A	Federal Water Quality Association	15	Learn more about the New innovative state of the art biosolids handling processes	Mark Ramirez
Tue Sep 20	11A	New Employee Orientation	< 10		Bipin
Tue Sep 20	2p	South Korean Councilmembers	9	General Tour	Chris deBarbadillo
Tue Sep 20	4p	Congressman Paul Tonko (NY)	10	Fleet Bus General Tour	Aklile
Thu Sep 22	9a	BECA Ltd	2	General tour, can handle technical expertise as this is an engineering company	Chris Peot
Thu Sep 22	10a	Energy Sciences Leadership Group (ESLG)	20	FLEET BUS GM Briefing General Tour	Chris Peot
Fri Sep 23	930A	UMD	25	Prof Tjaden's annual tour for his class...this is the 4 <sup>th</sup> year	Bipin
Fri Sep 23	1P	UMD	25	Prof Tjaden's annual tour for his class...this is the 4 <sup>th</sup> year	Ahmed
Tue Sep 27	10A	APICS Conference attendees	25	General Tour	Chanda
Tue Sep 27	2P	APICS Conference attendees	25	General Tour	Wendell
Thu Sept 29	9a	Melbourne Water	4		Ahmed and Chris D

**SCHEDULED **October** TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Wed Oct 5	10 a	Venable LLP China Environment Forum	17	<b>Fleet Bus</b> General Tour— Venable (10) China Environment Forum (7)	Shawna Martinelli
Thu Oct 6	10a	Mixed Group: DC Residents, The Society of American Military Engineers DC,	24	<b>Fleet Bus</b> General Tour	George Mpoyo
Thu Oct 6	1p	Ulteig Tour	3	<b>GM Meeting before</b>	James Clarke
Wed Oct 12	10:30a	UMD	15		Alterra
Wed Oct 12	2:30p	UMD	15		Alterra
Thu Oct 13	10a	National Association of Regulatory Utility Commissioners	24	<b>Fleet Bus</b> Waste-to-Power	Mark Ramirez
Thu Oct 13	8a-2p	The City of Raleigh, NC			Christine D.
Fri Oct 14	9:30a	International Lime Association	25	Own transportation General Tour	Chris P.
Fri Oct 14	12p	NOAA Sea Grant Knauss Fellows	10		Mark Ramirez
Fri Oct 14	2p	International Lime Association	25	Own Transportation General Tour	Chris P.

**SCHEDULED October TOURS FOR BLUE PLAINS- 2016**

Wed Oct 19	10a	DCPS/Wheatley Education Campus	14	facilities in regards to water treatment and recycling	Chanda
Thu Oct 20	10a	United States Navy	25	Navy engineers and architects interested in touring the Cogeneration facilities and the sea wall which was constructed in 2014	Brent Christ
<del>Mon Oct 24</del>	<del>9a</del>	<del>Washington Suburban Sanitary Commission</del>	<del>5</del>	<del>General Manager Address before</del>	cancelled
Wed Oct 26	2p	University of Maryland	12		Chanda
Thu Oct 27	10a	World Wildlife Fund	15	interested in learning about the technologies used for the nutrient recovery, the digester, etc.	Wendell

**SCHEDULED November TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Wed Nov 2	10A	Organization: Center of Applied Technology-North, Anne Arundel County Public High School	12	This program is a magnet High School Environmental Science program, specifically for students interested in ES. I would like to have the students learn a about how the largest WW treatment plant operates and how it positively reduced nitrogen and phosphorus to the Potomac River.	Miguel
Thu Nov 3	10A	Mixed Group	23	<b>FLEET BUS</b> DC Citizens (12) Job Readiness Group (7) Engineering Group (4)	Chris Reilly
Wed Nov 9	10A	Saint Anselm's Abbey School	9	We are a group of 7 seniors and two teachers of an AP Environmental Science Class looking to understand water uses and specifically pollution and wastewater remediation.	Chris P.
Thu Nov 10	10A	Johns Hopkins University SAIS	25	Own transportation- General Tour.	James C.
<del>Tue Nov 15</del>	<del>11A</del>	<del>New Employee Orientation</del>		<del><b>FLEET BUS</b></del>	<del>Bipin</del>
Wed Nov 16	10A	Department Of Defense	15	As DOD engineers and specialists, we are hoping to gain insight into treatment processes. <b>LIST SENT</b>	Ahmed
Wed Nov 16	2P	DC Sustainable Energy Utility	10	We work in energy efficiency in DC mostly in lighting and light commercial but rarely get exposure to large industrial motors, pumps, facilities and their energy and operations maintenance and needs. We would love the opportunity to learn about how wastewater treatment facility uses and manages energy.	Chris D.

**SCHEDULED November TOURS FOR BLUE PLAINS- 2016**

Thu Nov 17	10A	Mixed Group		Municipal Analysts (4), DC Residents (3), Environmental Agency (2),	Bipin
Thu Nov 17	2P	DC Water	20	<b>FLEET BUS</b> <a href="mailto:sbelayneh@dcwater.com">sbelayneh@dcwater.com</a>	James C.
Mon Nov 21	11A	Passaic Valley Sewerage Commission	5	<b>GM meeting before</b> Interested in innovations	
Wed Nov 30	10a	Capitol Hill Day School	20	To give students a clear understanding of the process of how our wastewater is treated	Chris Cusic

**SCHEDULED December TOURS FOR BLUE PLAINS- 2016**

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
<del>Thu Dec 1</del>	<del>10A</del>	<del>DC residents</del>	<del>20</del>		<del>Wendell</del>
Fri Dec 3	9:30a	AAAS S&T Policy Fellows	15		Mark Ramirez
Wed Dec 7	10A	The Stoneridge School	38	Own Transportation- We would like to focus on the multiple steps of wastewater treatment and different types of filtration (mechanical, biological, chemical). Any focus on sustainability and the repowering (turning the waste into energy) would also be important as both classes are learning about alternative energy sources. We would also like the students to learn about the modifications being made such as the holding tank being dug.	
Thu Dec 8	10A	Mixed Group	15	EPA (10), DC Residents (5)	Miguel
Thu Dec 8	2P	U.S. EPA Office of Water	25	Own Transportation- general tour	
Fri Dec 9	10A	USAID Engineers	18	Own Transportation	George M.
Fri Dec 9	1p	WSSC	10	It would be best if it focused on the sequences of treatment processes at the plant.	Ryu S. and Nick P.
Thu Dec 15	10A	Congress Heights Senior Wellness	15	General Tour	Mark R.
Thu Dec 15	2P	T. Rowe Price Municipal Analysts	5	<b>General Tour</b>	James C.

## **APPENDIX 8-2**

### **Notification of Responsible Agencies**







DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

December 16, 2016

Tommy Wells, Director  
Department of Energy & Environment  
1200 First Street NE, 5<sup>th</sup> Floor  
Washington, DC 20002

Christopher Shorter, Acting Director  
Department of Public Works  
2000 14<sup>th</sup> Street NW, 6<sup>th</sup> Floor  
Washington, DC 20009

Leif Dormsjo, Director  
District Department of Transportation  
55 M Street SE, Suite 400  
Washington, DC 20003

Dear Sirs:

The US Environmental Protection Agency (EPA) issued a National Pollutant Discharge Elimination System Permit (NPDES Permit) to DC Water to operate the Blue Plains Advanced Wastewater Treatment Plant and sewer system. The permit requires DC Water to conduct certain activities. In addition to other requirements, the permit requires DC Water to:

*Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems. (Page 38, Part III.B.1.g.iv of permit).*

Therefore, in accordance with the NPDES Permit, it is requested that the Department of Energy & Environment, Department of Transportation and Department of Public Works diligently enforce the appropriate code regulations within their respective jurisdictions to prohibit entrance into the CSS of any substance such as oil, grease, litter and other debris that may impair or damage the function and performance of collection and treatment systems.

Your support to ensure that this requirement is completed in accordance with the NPDES Permit is appreciated. Thank you for your assistance and please contact me at 202-787-4469 or at [Carlton.Ray@dcwater.com](mailto:Carlton.Ray@dcwater.com) if there are any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "CR", written over a horizontal line.

Carlton M. Ray, Director  
DC Clean Rivers Project



## **APPENDIX 8-3**

### **Examples of Agency Coordination for Pollution Prevention**





Mayor Muriel Bowser

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## Department of Public Works



### Leaf and Holiday Tree Collection



The fall leaf collection program runs from the first week of November through the second week of January. Collecting leaves reduces potential accidents and injuries caused by slipping on wet leaves, and prevents catch basins (storm drains) from clogging and causing street flooding during heavy rains.

DPW will collect leaves at least twice from each residential neighborhood by “vacuuming” loose leaves residents rake into their treebox(es). Loose leaves will be sent for composting. In neighborhoods with alley trash/recycling collections, bagged leaves may be placed where trash and recycling are collected. These leaves will be collected with the trash as space in the truck permits. If you are bagging your leaves, please use paper bags.

DPW thanks residents for their patience with leaf and holiday tree collections, which may be affected by snow/ice events. The leaf collection crews are the backbone of the District’s snow removal force so when a snow or ice event is predicted they switch from leaf collections to snow fighting.

Holiday trees and greenery will be collected from the curb in front of your home through January 27, 2017 and will be composted. Trees and greenery collected after January 27 will be collected with the trash as space permits in the truck. Please remove ornaments, tinsel and other decorations and put the tree(s) and greenery where your trash and recycling are collected.

Just a reminder, apartment buildings with four or more units are required to provide their tenants with solid waste collections, including holiday trees.

[Find the Leaf Collection Schedule and Status for Your Neighborhood](#)

[Leaf Collection Brochure](#)

#### How You Can Help


- Rake leaves into the treebox space the weekend before your street’s collection weeks.
- Please – leaves only! Tree limbs, bricks, dirt, rocks, etc., will damage the equipment and delay collections.
- Prevent fires, parking problems and possible flooding by placing leaves in the treebox space, not in the street. When it rains, leaves will block the storm drain and cause flooding.
- Holiday trees and greenery will be picked through January 27, 2017. Please do not put the trees in plastic or cloth bags. Trees collected through January 27 will be chipped and composted.
- Any trees not collected by January 27 will be picked up as space in the trash trucks allow over the following weeks.

#### Service Details:

[Leaf and Holiday Tree Collection](#)

#### Related Services:

[Leaf and Holiday Tree Collection](#)

Contact Email: [dpw@dc.gov](mailto:dpw@dc.gov)   
Contact Phone: (202) 737-4404  
Contact Fax: (202) 671-0642  
Contact TTY: (202) 673-6833  
Office Hours: Monday to Friday 8:15 am - 4:45 pm

#### Service Location:

GIS Address: 2000 14th Street, NW  
City: Washington  
State: DC  
Zip: 20009

#### Related Content:

[Leaf and Holiday Tree Collection](#)

## Holiday Trash/Recycling Collections

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Use our [Slide Guide](#) to find out how holidays affect your collection schedule.

## Find Your Trash and Recycling Collections Day(s)

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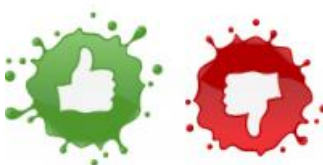


Enter part or all of any address in the District of Columbia to see your pick up day(s) for Trash and Recycling Collection.

- [Find Your Trash and Recycling Collection Schedule](#)

## Give Us Your Feedback

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Take the [DPW Website Survey](#)

## Department of Public Works

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#### Office Hours

Monday to Friday, 8:15 am to 4:45 pm, except District holidays

#### Connect With Us

Frank D. Reeves Municipal Center  
2000 14th Street, NW, Washington, DC 20009  
Phone: (202) 673-6833



Mayor Muriel Bowser

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## Department of Public Works



### Street and Alley Cleaning



DPW cleans residential and arterial streets using mechanical sweepers of various sizes. Between March 1 and October 31, sweepers operate along residential streets where signs are posted restricting parking during street sweeping hours. A \$45 ticket may be issued for violating sweeping hours.

Golf cart-size sweepers, known as litter vacs, are used to vacuum litter from gutters and sidewalks in commercial areas, and larger sweepers are used along freeways and main arterials, which are swept year-round depending on the temperature.

### How You Can Help

- Pick up the litter and trash in your alley and around your property, rather than sweeping these items into the gutter to eventually end up in one of the District's rivers.
- Residential property owners are responsible for maintaining the sidewalks and tree box spaces around their property. Commercial property owners are responsible for the public space around their property up to 18 inches from the curb into the street.
- Use the street litter and recycling cans as you walk along the District's commercial streets. The litter cans are for pedestrian trash only, not household trash.
- Avoid a street sweeping ticket by obeying the parking (No Parking Street Cleaning) signs along residential streets. Eighty percent of the residents of these streets signed petitions pledging to move their cars so sweeping would be effective.
- Overnight scheduled sweeping of the District's major roadways occurs year-round, weather permitting. Motorists are urged to obey the signs when parking in these areas during the posted overnight sweeping hours.
- To obtain street and alley cleaning services, call 311.

### Attachment(s):

- [Start of 2016 Street Sweeping Flyer](#) - 2.8 MB (pdf)
- [Bloomingdale Suspended Street Sweeping \(2015\)](#) - 484.9 KB (pdf)
- [2015 Residential Street Sweeping Petition](#) - 1.2 MB (pdf)
- [2015 Discontinue Petition for Residential Street Sweeping](#) - 1.1 MB (pdf)

### Holiday Trash/Recycling Collections



Use our [Slide Guide](#) to find out how holidays affect your collection schedule.

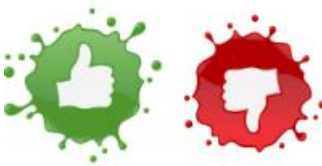
## Find Your Trash and Recycling Collections Day(s)



Enter part or all of any address in the District of Columbia to see your pick up day(s) for Trash and Recycling Collection.

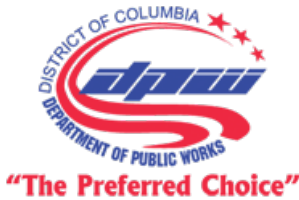
- [Find Your Trash and Recycling Collection Schedule](#)

## Give Us Your Feedback



Take the [DPW Website Survey](#)

## Department of Public Works



### Office Hours

Monday to Friday, 8:15 am to 4:45 pm, except District holidays

### Connect With Us

Frank D. Reeves Municipal Center  
2000 14th Street, NW, Washington, DC 20009

Phone: (202) 673-6833

Fax: (202) 671-0642

TTY: (202) 673-6833

Email: [dpw@dc.gov](mailto:dpw@dc.gov)



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[Agency Performance](#)

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[Chinese \( \)](#)

[French \(Français\)](#)

[Korean \( \)](#)

[Spanish \(Español\)](#)

[Vietnamese \(Tiếng Việt\)](#)

### Resources

[District News](#)

[District Initiatives](#)



## **DPW LEAF COLLECTION PAMPHLET**





Leaf Collection Program

**DC**

2016-2017  
Fall-Winter

November 7 to January 14



"The Preferred Choice"




GOVERNMENT OF THE  
DISTRICT OF COLUMBIA  
MURIEL BOWSER, MAYOR



# WELCOME TO FALL!

**The Department of Public Works will again follow a one-week collection schedule.**

We will make two one-week passes in your neighborhood from November 7th through January 14th. To ensure your leaves are collected, please rake or bag your leaves and place them at the collection site the Sunday before your collection begins. Thank you.



Rake loose leaves into your treebox or bag leaves using paper bags and place them in your treebox.

## LEAF COLLECTION FACTS!

- » Every street will have at least two scheduled collections dates.
- » We will collect on Veterans Day, November 11th and Thanksgiving, November 24th.
- » We will not collect on Christmas, December 25 and New Year's Day, January 1.
- » Snow and ice storms may disrupt the collection schedule. Expect delays when snow and ice is predicted.





# HOLIDAY TREE PICK UP



Holiday trees and greenery will be collected from the curb in front of your home through January 27th. After January 28th, place holiday trees and greenery where your trash and recycling are collected. They will be picked up with your trash if space allows in the trash trucks. Holiday trees and greenery brought to Fort Totten Transfer Station or collected by January 27th will be composted.

## DO'S & DON'TS

### Do

- » Check to see when your leaves are scheduled for collection
- » Place only leaves in tree boxes or at the curb for collection
- » Bring leaves, tree limbs and other yard debris from your private landscaper to Ft. Totten Transfer Station
- » Bring Christmas trees and greenery to Ft. Totten
- » Report clogged catch basins by calling DC Water at 202-612-3400
- » **Find out where we are collecting leaves today and see pictures of collections in your neighborhood at [www.dpw.dc.gov](http://www.dpw.dc.gov)**

### Don't

- » Place tree limbs, bricks, dirt, rocks etc. into tree boxes for collections.
- » Start fires or parking problems by placing leaves in the street instead of the tree box.
- » Sweep leaves, litter or other debris into gutter or catch basins. Clogged catch basins (storm drains) can cause street flooding during heavy rains and contribute to water pollution.
- » Rake leaves into treeboxes or at the curb after your scheduled collection.

## DID YOU KNOW?

Loose and bagged leaves placed in the treebox, or at the curb if there is no treebox, will be composted.

---

Bagged leaves placed where your trash and recycling are collected will not be composted.

---

Holiday trees and greenery collected from the front of your home will be composted at Fort Totten Transfer Station through January 27th.

---

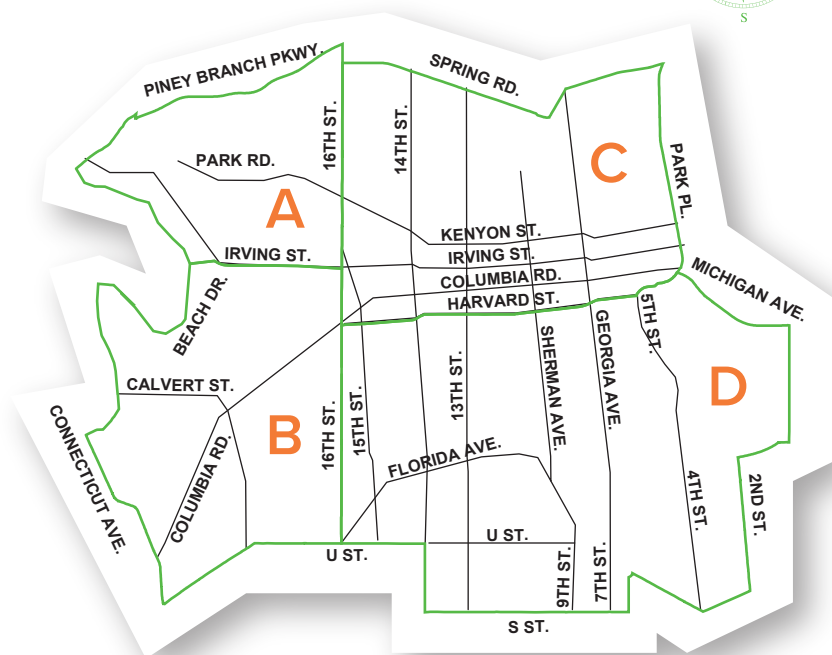
You can dispose of motor oil and other hazardous materials weekly at Fort Totten.

---

Free compost available to residents from March to October at Fort Totten.

**\*Fort Totten 4900 John F. McCormack Drive, NE  
Washington DC\***

# WARD I



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**1A:** 16th Street west to Beach Drive;  
Irving Street north to Piney Branch Parkway

**November 6, 2016**

November 7 to  
November 11, 2016

**1B:** 16th Street west to Beach Drive/Connecticut Avenue;  
Florida Avenue/U Street north to Irving Street

**November 13, 2016**

November 14 to  
November 18, 2016

**1C:** 16th Street east to Park Place; Harvard Street north to Spring Rd/Rock Creek Church Road

**November 20, 2016**

November 21 to  
November 25, 2016

**1D:** 16th Street east to 1st/2nd Streets NW ; U and S Streets north to Harvard Street

**November 27, 2016**

November 28 to  
December 2, 2016

**1A:** 16th Street west to Beach Drive;  
Irving Street north to Piney Branch Parkway

**December 4, 2016**

December 5 to  
December 9, 2016

**1B:** 16th Street west to Beach Drive/Connecticut Avenue;  
Florida Avenue/U Street north to Irving Street

**December 11, 2016**

December 12 to  
December 16, 2016

**1C:** 16th Street east to Park Place; Harvard Street north to Spring Rd/Rock Creek Church Road

**December 18, 2016**

December 19 to  
December 23, 2016

**1D:** 16th Street east to 1st/2nd Streets NW ; U and S Streets north to Harvard Street

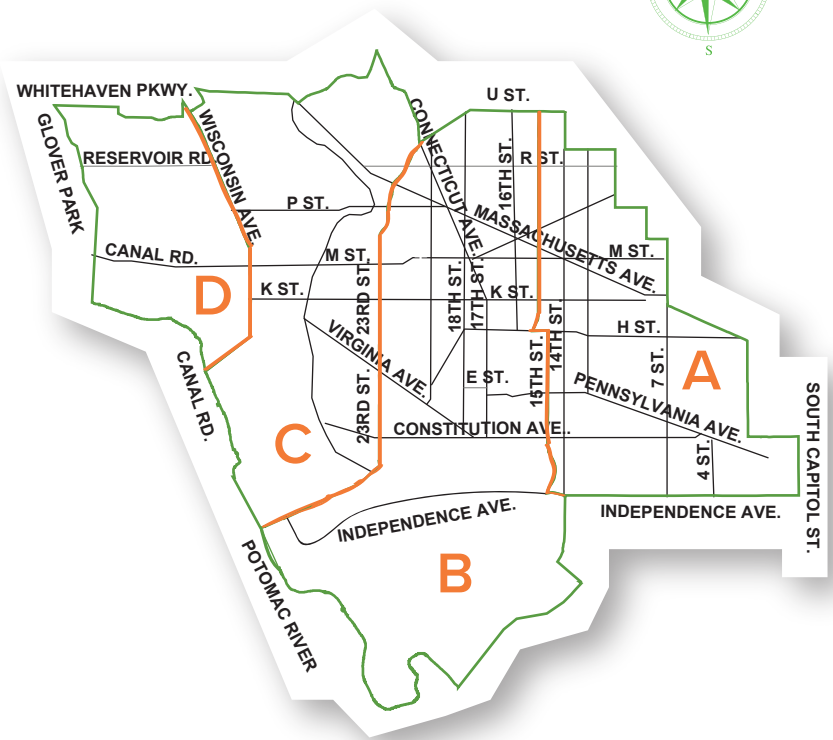
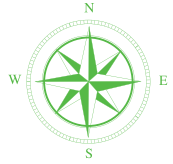
**December 25, 2016**

December 27 to  
December 31, 2016

Pick Up 1

Pick Up 2

# WARD 2



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**2A:** 15th Street east to as far as the Capitol Building; Independence Avenue north to as far as U Street

**November 6, 2016**

November 7 to November 11, 2016

**2B:** 215th Street west to 23rd Street; Florida Avenue/U Street south to the Potomac River

**November 13, 2016**

November 14 to November 18, 2016

**2C:** Wisconsin Avenue east to 23rd Street; Whitehaven Street south to the Potomac River

**November 20, 2016**

November 21 to November 25, 2016

**2D:** Wisconsin Avenue west to Archbold Parkway ; Highwood Court/U Street south to the Potomac River

**November 27, 2016**

November 28 to December 2, 2016

**2A:** 15th Street east to as far as the Capitol Building; Independence Avenue north to as far as U Street

**December 4, 2016**

December 5 to December 9, 2016

**2B:** 215th Street west to 23rd Street; Florida Avenue/U Street south to the Potomac River

**December 11, 2016**

December 12 to December 16, 2016

**2C:** Wisconsin Avenue east to 23rd Street; Whitehaven Street south to the Potomac River

**December 18, 2016**

December 19 to December 23, 2016

**2D:** Wisconsin Avenue west to Archbold Parkway ; Highwood Court/U Street south to the Potomac River

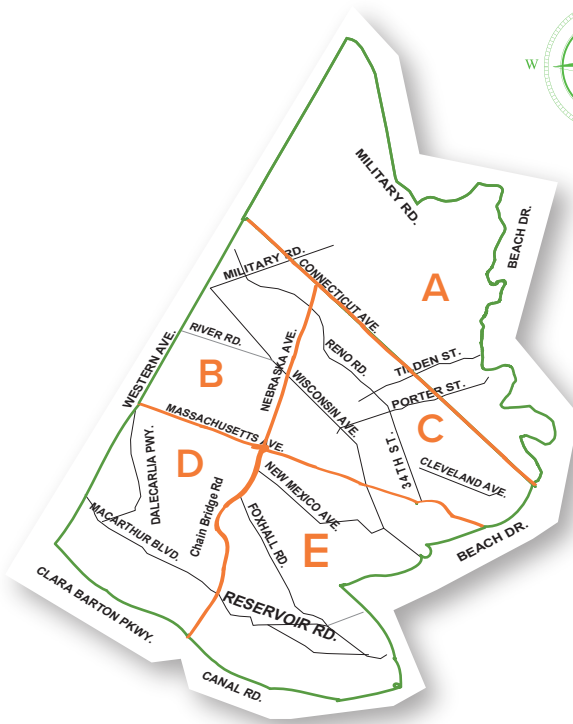
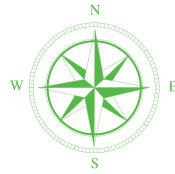
**December 25, 2016**

December 27 to December 31, 2016

Pick Up 1

Pick Up 2

# WARD 3



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**3A:** Western Avenue east to  
Beach Drive; Connecticut  
Avenue north to Oregon Avenue

**November 6, 2016**

November 7 to  
November 11, 2016

**3B:** Nebraska Avenue west to  
Western Avenue; Connecticut  
Avenue south to Massachusetts  
Avenue

**November 20, 2016**

November 14 to  
November 18, 2016

**3C:** Nebraska Avenue east to  
Beach Drive; Connecticut  
Avenue south Massachusetts  
Avenue

**November 20, 2016**

November 21 to  
November 25, 2016

**3D:** Nebraska Ave/Chain Bridge  
Road west to Western Avenue;  
Massachusetts Avenue south to  
the Potomac River

**November 27, 2016**

November 28 to  
December 2, 2016

**3E:** Nebraska Avenue/Chain  
Bridge Road east to  
Archbold Parkway/Whitehaven  
Street; Massachusetts Avenue  
south to the Potomac River

**December 4, 2016**

December 5 to  
December 9, 2016

**3A:** Western Avenue east to  
Beach Drive; Connecticut  
Avenue north to Oregon Avenue

**December 11, 2016**

December 12 to  
December 16, 2016

**3B:** Nebraska Avenue west to  
Western Avenue; Connecticut  
Avenue south to Massachusetts  
Avenue

**December 18, 2016**

December 19 to  
December 23, 2016

**3C:** Nebraska Avenue east to  
Beach Drive; Connecticut  
Avenue south Massachusetts  
Avenue

**December 25, 2016**

December 27 to  
December 31, 2016

**3D:** Nebraska Ave/Chain Bridge  
Road west to Western Avenue;  
Massachusetts Avenue south to  
the Potomac River

**January 1, 2017**

January 2 to  
January 6, 2017

**3E:** Nebraska Avenue/Chain  
Bridge Road east to  
Archbold Parkway/Whitehaven  
Street; Massachusetts Avenue  
south to the Potomac River

**January 8, 2017**

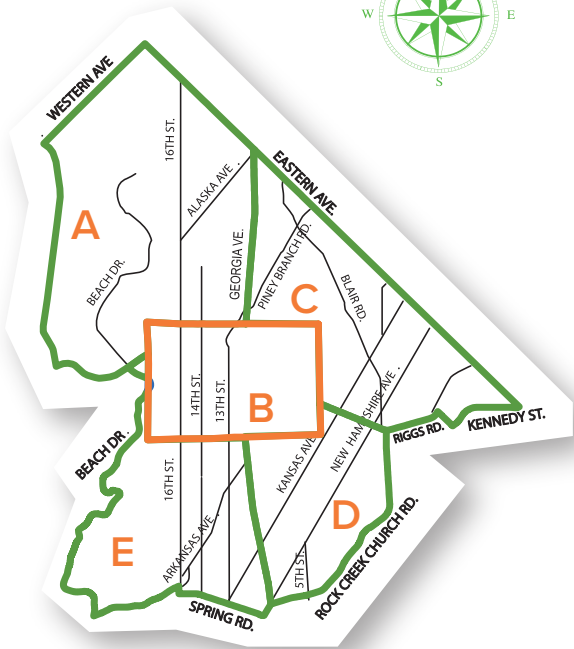
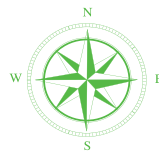
January 9 to  
January 13, 2017

Pick Up 1

Pick Up 2



# WARD 4



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**4A:** Oregon Avenue east to Georgia Avenue; Western Avenue/Eastern Avenue south to Military Road/Sheridan Street

**November 6, 2016**

November 7 to  
November 11, 2016

**4B:** 3rd Place west to Beach Drive; Sheridan Street south to Ingraham Street

**November 13, 2016**

November 14 to  
November 18, 2016

**4C:** Eastern Avenue NW south to Riggs Road and Kennedy Street; Georgia Avenue East to 4th and Sheridan Street NW; 4th Street south to Riggs Road\*

**November 20, 2016**

November 21 to  
November 25, 2016

**4D:** Missouri Avenue and 4th Street down to Ingraham Street; Ingraham Street NW south to Rock Creek Church Road; North Capitol Street west to Georgia Avenue

**November 27, 2017**

November 28 to  
December 2, 2016

**4E:** Ingraham Street south to Piney Branch Parkway and Spring Road NW; Georgia Avenue west to Beach Drive\*

**December 4, 2016**

December 5 to  
December 9, 2016

**4A:** Oregon Avenue east to Georgia Avenue; Western Avenue/Eastern Avenue south to Military Road/Sheridan Street

**December 11, 2016**

December 12 to  
December 16, 2016

**4B:** 3rd Place west to Beach Drive; Sheridan Street south to Ingraham Street

**December 18, 2016**

December 19 to  
December 23, 2016

**4C:** Eastern Avenue NW south to Riggs Road and Kennedy Street; Georgia Avenue East to 4th and Sheridan Street NW; 4th Street south to Riggs Road\*

**December 25, 2016**

December 27 to  
December 31, 2016

**4D:** Missouri Avenue and 4th Street down to Ingraham Street; Ingraham Street NW south to Rock Creek Church Road; North Capitol Street west to Georgia Avenue

**January 1, 2017**

January 2 to  
January 6, 2017

**4E:** Ingraham Street south to Piney Branch Parkway and Spring Road NW; Georgia Avenue west to Beach Drive\*

**January 8, 2017**

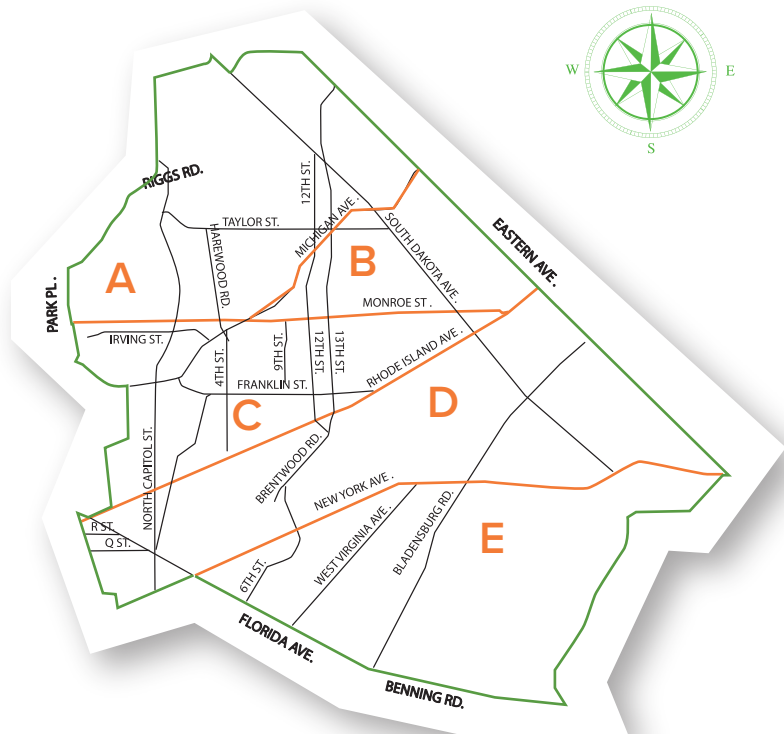
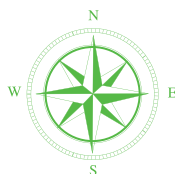
January 9 to  
January 13, 2017

\* Section C, D and E revised as of 11/17/16

Pick Up 1

Pick Up 2

# WARD 5



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**5A:** West of Eastern Avenue;  
North of Irving Street,  
Michigan Avenue

**November 6, 2016**

November 7 to  
November 11, 2016

**5B:** West of Eastern Avenue;  
North of Monroe Street

**November 13, 2016**

November 14 to  
November 18, 2016

**5C:** South of Irving Street,  
Monroe Street; North of Rhode  
Island Avenue

**November 20, 2016**

November 21 to  
November 25, 2016

**5D:** South of Rhode Island  
Avenue; North of  
New York Avenue

**November 27, 2016**

November 28 to  
December 2, 2016

**5E:** South of New York  
Avenue; North of Benning  
Road

**December 4, 2016**

December 5 to  
December 9, 2016

**5A:** West of Eastern Avenue;  
North of Irving Street,  
Michigan Avenue

**December 11, 2016**

December 12 to  
December 16, 2016

**5B:** West of Eastern Avenue;  
North of Monroe Street

**December 18, 2016**

December 19 to  
December 23, 2016

**5C:** South of Irving Street,  
Monroe Street; North of Rhode  
Island Avenue

**December 25, 2016**

December 27 to  
December 31, 2016

**5D:** South of Rhode Island  
Avenue; North of  
New York Avenue

**January 1, 2017**

January 2 to  
January 6, 2017

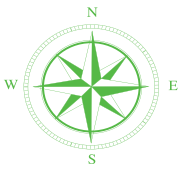
**5E:** South of New York  
Avenue; North of Benning  
Road

**January 8, 2017**

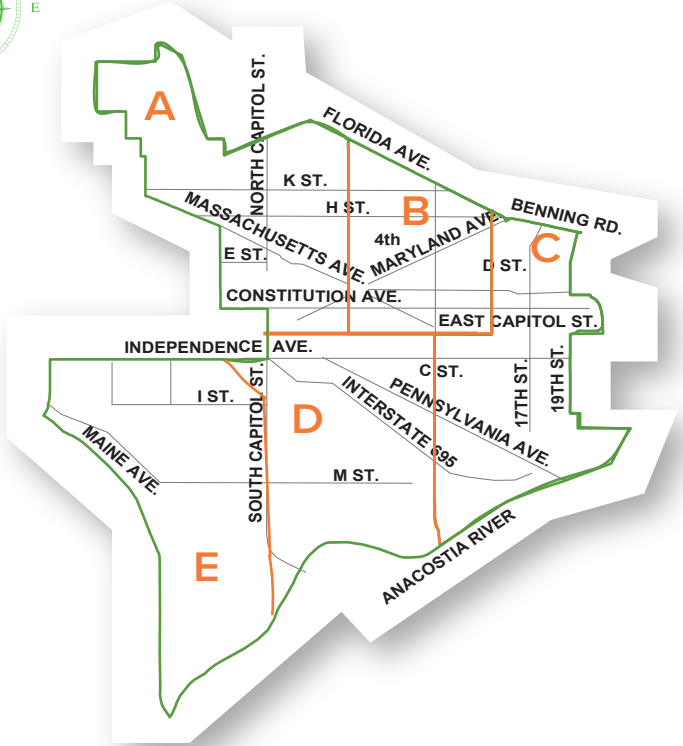
January 9 to  
January 13, 2017

Pick Up 1

Pick Up 2



# WARD 6



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**6A:** 4th Street NE west to streets from 2nd Street to 11th Street NW; East Capitol Street north to streets from New York Avenue NE to Florida Avenue NW

**November 6, 2016**

November 7 to November 11, 2016

**6B:** 14th Street west to 4th Street NE; Florida Avenue south to East Capitol Street

**November 13, 2016**

November 14 to November 18, 2016

**6C:** 12th Street SE east to 22nd Street NE; Benning Road south to the Anacostia River

**November 20, 2016**

November 21 to November 25, 2016

**6D:** South Capitol Street east to 11th Street SE; East Capitol Street south to the Anacostia River

**November 27, 2016**

November 28 to December 2, 2016

**6E:** 14th Street/Potomac River SW east to South Capitol Street; Independence Avenue south to the confluence of the Anacostia and Potomac Rivers

**December 4, 2016**

December 5 to December 9, 2016

**6A:** 4th Street NE west to streets from 2nd Street to 11th Street NW; East Capitol Street north to streets from New York Avenue NE to Florida Avenue NW

**December 11, 2016**

December 12 to December 16, 2016

**6B:** 14th Street west to 4th Street NE; Florida Avenue south to East Capitol Street

**December 18, 2016**

December 19 to December 23, 2016

**6C:** 12th Street SE east to 22nd Street NE; Benning Road south to the Anacostia River

**December 25, 2016**

December 27 to December 31, 2016

**6D:** South Capitol Street east to 11th Street SE; East Capitol Street south to the Anacostia River

**January 1, 2017**

January 2 to January 6, 2017

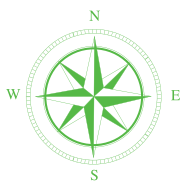
**6E:** 14th Street/Potomac River SW east to South Capitol Street; Independence Avenue south to the confluence of the Anacostia and Potomac Rivers

**January 8, 2017**

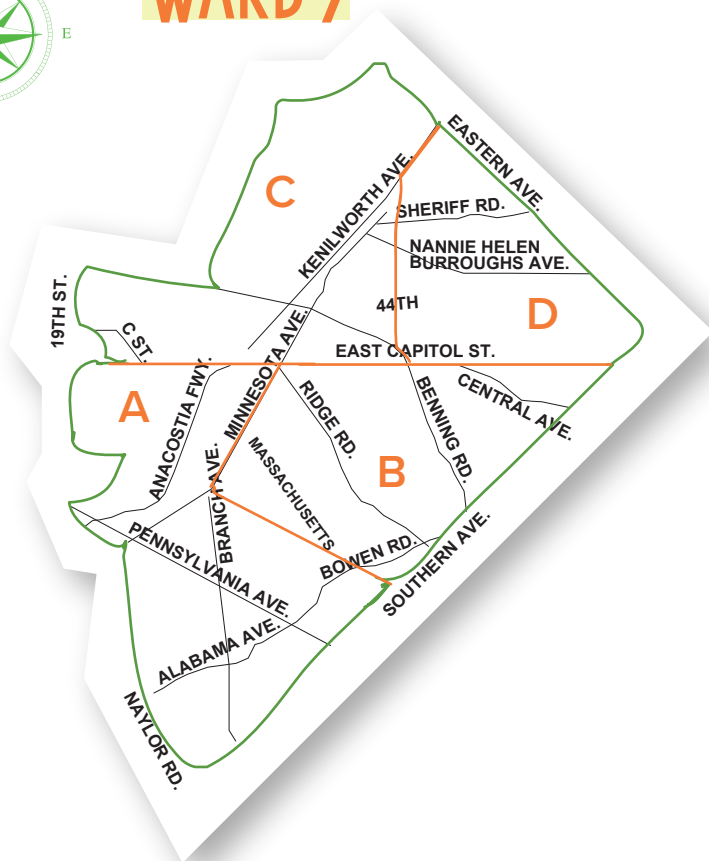
January 9 to January 13, 2017

Pick Up 1

Pick Up 2



# WARD 7



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**7A:** Minnesota Avenue;  
West to 19th Street and Naylor  
Road SE; E. Capitol Street south  
to Sothern Avenue SE

**November 6, 2016**

November 7 to  
November 11, 2016

**7B:** Minnesota Avenue  
east of E. Capitol Street and  
Southern Avenue SE; E. Capitol Street  
south to Southern Avenue

**November 13, 2016**

November 14 to  
November 18, 2016

**7C:** 19th Street east to  
44th Street/Kenilworth Avenue NE;  
E. Capitol Street north to the  
Anacostia River

**November 20, 2016**

November 21 to  
November 25, 2016

**7D:** 44th Street/  
Kenilworth Avenue east to Eastern  
Avenue NE; North of E. Capitol Street

**November 27, 2016**

November 28 to  
December 2, 2016

**7A:** Minnesota Avenue;  
West to 19th Street and Naylor  
Road SE; E. Capitol Street south  
to Sothern Avenue SE

**December 4, 2016**

December 5 to  
December 9, 2016

**7B:** Minnesota Avenue  
east of E. Capitol Street and  
Southern Avenue SE; E. Capitol Street  
south to Southern Avenue

**December 11, 2016**

December 12 to  
December 16, 2016

**7C:** 19th Street east to  
44th Street/Kenilworth Avenue NE;  
E. Capitol Street north to the  
Anacostia River

**December 18, 2016**

December 19 to  
December 23, 2016

**7D:** 44th Street/  
Kenilworth Avenue east to Eastern  
Avenue NE; North of E. Capitol Street

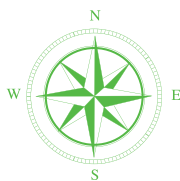
**December 25, 2016**

December 27 to  
December 31, 2016

Pick Up 1

Pick Up 2

# WARD 8



## Area Boundaries:

## Rake Leaves out by Sunday:

## Collection Dates:

**8A:** Nicholson Street/Naylor Road SE west to Suitland Parkway/MLK Avenue/Stanton Road SE; Anacostia River south to Southern Avenue SE

**November 6, 2016**

November 7 to November 11, 2016

**8B:** Potomac River SW east to Suitland Parkway/MLK Avenue/Stanton Road SE; Anacostia River south to Mississippi Avenue

**November 13, 2016**

November 14 to November 18, 2016

**8C:** Potomac River SW east to the intersection of Mississippi Avenue and Southern Avenue SE; Southern Avenue north to Mississippi Avenue SE

**November 20, 2016**

November 21 to November 25, 2016

**8A:** Naylor Road down to Suitland Parkway, Anacostia Freeway over to Southern Avenue SE

**November 27, 2016**

November 28 to December 2, 2016

**8B:** Suitland Parkway to Mississippi Avenue SE, 295 over to Suitland Parkway

**December 4, 2016**

December 5 to December 9, 2016

**8C:** Mississippi Avenue down to Southern Avenue SE Overlook over to Southern Avenue SE

**December 11, 2016**

December 12 to December 16, 2016

Pick Up 1

Pick Up 2



## Section 9 Public Notification

### 9.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are summarized as follows:

- Install and operate two CSO warning lights, one light on the Anacostia River and a second light on the Potomac River to notify river users of CSO events.
- Maintain a website with information on: (a) nature of CSO discharges; (b) locations of CSOs; (c) potential health threats of CSOs; (d) record of CSO events by outfall with number, average duration and volume for the prior three month calendar quarter based on modeled results; (e) description of light system on the Anacostia River and Potomac River that advises river users of times that CSOs are actually occurring; and (f) nature and duration of conditions potentially harmful to users of receiving waters during and after a CSO event.
- Prepare and distribute semi-annually in sewer bills an informational pamphlet with information similar to that maintained on the web site.
- Distribute a pamphlet semi-annually to locations (e.g., boathouses, marinas, water sports shops) frequented by receiving water users.
- Prepare and maintain an information bulletin to distribute to callers requesting information on the CSS and CSOs.
- Include updates and status of CSS and CSO plans and programs in information distributed to the public.
- Maintain warning signs at all CSOs.

### 9.2 CSO WARNING LIGHTS

The Three Party Consent Decree (CD) requires the construction of CSO notification lights at two locations: in the vicinity of CSO 010-12 (Main and O St. Pumping Station site) on the Anacostia, and at Thompson's Boathouse on the Potomac River. The lights are located as follows:

- Potomac River Site – The installation of the required CSO Warning Light is complete. The location of the Potomac River light is adjacent to Thompson's Boat House.

- Anacostia River Site – The installation of the required CSO Warning Light is complete. The location of the Anacostia River light is adjacent to Main Pumping Station.

### 9.3 CSO WEBSITE

A portion of the DC Water website is dedicated to providing information to the public on pertinent combined sewer issues. Examples of the website and the information contained therein can be found in Appendix 9-1. The website is updated at least quarterly and the following information is included:

- The nature and locations of CSO's
- Potential health implications of CSO's
- Quarterly monitoring reports with CSO predictions
- Description of CSO warning light system
- Description of nature and duration of impacts from CSO's on receiving water

The web site can be viewed at [www.dewater.com](http://www.dewater.com). CSO information is at the following link: <http://www.dewater.com/css>

### 9.4 INFORMATIONAL MAILERS

Informational mailers are included in customers' water and sewer bills twice per year. Copies from this past year's mailer 'CSO Update' are included in Appendix 9-2. A portion of the mailer provides updates on CSS related programs and projects. The remaining content of the mailer is in accordance with the requirements of the Three Party Consent Decree.

The mailer is also distributed to boathouses, marinas and other interested parties twice per year. In 2016, the organizations listed in Table 9-1 accepted the mailer:

**Table 9-1**  
**Organizations That Accepted Mailers**

<i>Organizations</i>	<i>Location</i>
Belle Haven Marina Inc.	Alexandria, Virginia.
Buzzard Point Boat Yard	Washington D.C
Capital Rowing Club	Washington D.C
Capital Yacht Club	Washington D.C.
Columbia Island Marina	Arlington, Virginia.
District Yacht Club	Washington D.C.
Fletcher's Boat House	Washington D.C
Fort Washington Marina	Fort Washington, Maryland.
Gangplank Marina	Washington D.C
Earth Conservation Corps	Washington D.C
James Creek Marina	Washington D.C.



<i>Organizations</i>	<i>Location</i>
Old Dominion Boat Club	Alexandria, Virginia.
Potomac Boat Club	Washington D.C.
Seafarers Boat Club	Washington D.C.
Thompson's Boat Center	Washington D.C.
Tidal Basin Boat House	Washington D.C.
Washington Canoe Club	Washington D.C.
Washington Marina Company	Washington D.C.
Washington Sailing Marina	Alexandria, Virginia.
Washington Yacht Club	Washington D.C.
Anacostia Watershed Society	Bladensburg, Maryland.
National Capital Park – East	Washington D.C.
Buzzard Point Boat Yard	Washington D.C.
Key Bridge Boathouse	Washington, D.C.

### 9.5 INFORMATION BULLETIN

Informational Bulletins that cover pertinent CSO topics are distributed by DC Water Customer Service Representatives to the public on request. A copy of the Informational Bulletin is included in Appendix 9-3.

### 9.6 CSO WARNING SIGNS

The Three-Party Consent Decree required DC Water to install larger CSO warning signs at sites it controlled, and to seek approval to install these new signs at locations controlled by the National Park Service, the Zoo, the Southeast Federal Center and the Navy Yard. The Zoo was the only approval agency that allowed installation of the larger signs. As a result, the following signs are installed at CSO outfalls:

- At DC Water controlled sites (CSO 001, 003, 009, 010, 011, 011a, 012) and at National Zoo controlled sites in Rock Creek (CSO 041, 042, 043, 044 and 045), the following 3' x 4' signs are installed:



- For all other outfalls, the signs shown below are installed. In accordance with a permit negotiated with the National Park Service, signs are 1' x 1' in size along Rock Creek and 2' x 2' in size along the Anacostia and Potomac Rivers.



## **APPENDIX 9-1**

### **Excerpts from DC Water's Website**



## Environment

- ▶ Sewer System Improvements
- ▶ Reusing Biosolids in Agriculture
- ▶ Low-Impact Development
- ▶ Nitrogen Reduction Program
- ▶ Cleaning Our Waterways
- ▶ Chesapeake Bay
- ▶ [Understanding the Watershed](#)
- ▶ Partnerships and Community Activities
- ▶ Environmental Education
- ▶ Environment-Related Links
- ▶ For Kids

## Understanding the Watershed

[What Affects Water Quality?](#)

[What are the Water Quality Impacts of Combined Sewer Overflow \(CSO\)?](#)

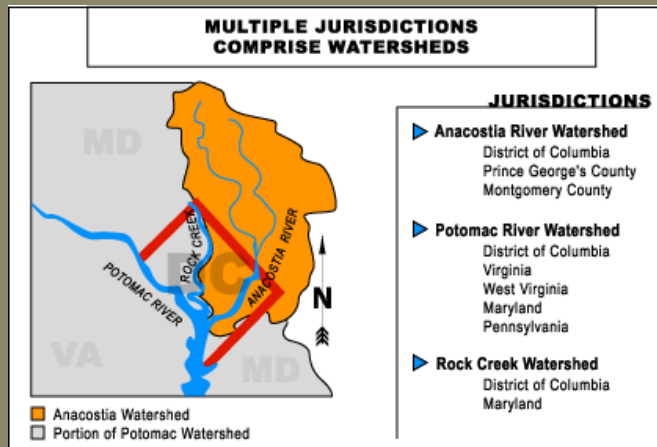
### What Affects Water Quality?



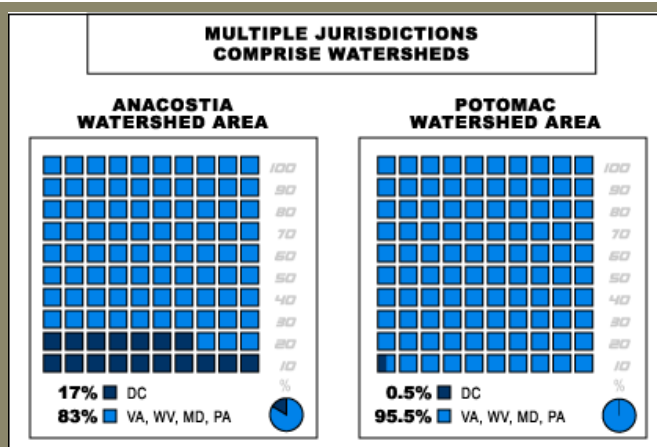
Water flows into the District from outside jurisdictions

The water in the Potomac River, Anacostia River, and Rock Creek flows into the District from outside jurisdictions. For example, the Potomac River begins in West Virginia, while the Anacostia River begins in Maryland. The quality of water in the District is thus affected by activities throughout the watershed. Storm water runoff from commercial, industrial, residential and agricultural sites, point source pollutants from wastewater treatment plants and industrial discharges, and combined sewer overflows (CSOs) from as far away as West Virginia and Pennsylvania all contribute to the quality of water in the District.

Multiple jurisdictions comprise the watersheds as shown below:



Multiple Jurisdictions Comprise Watersheds: Map



Multiple Jurisdictions Comprise Watersheds: Chart


[TOP](#) ↑

### What Are the Water Quality Impacts of CSO?

CSOs can adversely affect the quality of our receiving waters in the following ways:

CSOs contain material which contributes to high bacteria levels in the receiving waters;

Organic material in CSOs can contribute to low dissolved oxygen levels, which can contribute to a potential for fish stress or fish kills, especially in summer months; and,



Debris in CSOs such as plastic bottles, styrofoam cups (otherwise known as "floatables") contribute to poor aesthetics. DC Water has developed the [Clean Rivers Project](#) to control CSOs and improve water quality

[TOP](#) ↑



District of Columbia Water and Sewer Authority  
George S. Hawkins, General Manager



Contact Us

- Who We Are
- What We Do
- Customer Care & Operations
- Environment
- Business Opportunities
- Career Center
- News & Publications

Home > What We Do > Wastewater Collection > Combined Sewer System > Preventing Sewer Overflows

## What We Do

- ▶ Drinking Water
- ▼ Wastewater Collection
  - ▶ History of Sewer System
  - ▼ Combined Sewer System
    - ▶ CSS Contacts
    - ▶ [Preventing Sewer Overflows](#)
    - ▶ CSO Predictions
    - ▶ CSS Reports
  - ▶ Sanitary Sewer System
  - ▶ Potomac Interceptor
  - ▶ Catch Basins
- ▶ Wastewater Treatment
- ▶ Finance
- ▶ Fire Hydrants
- ▶ Projects & Initiatives

## Preventing Sewer Overflows

### You Can Help!

You can help improve the water quality in the District.

**Please don't litter or use catch basins as trash receptacles!** In addition to the unpleasant physical appearance, trash and debris deposited on public streets, private property and right-of-ways often washes into catch basins and storm inlets.



Trash on street washes into catch basin.



Catch basins can fill with trash.

**Don't use catch basins as trash receptacles or to dispose of leaves!** Debris in catch basins can cause local flooding and increase the potential for dry weather overflows (see photo below).



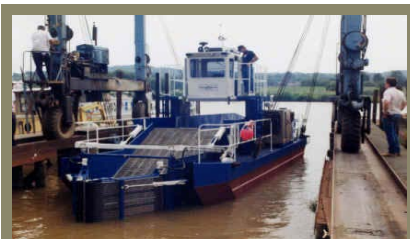
Trash in the catch basins can cause problems.



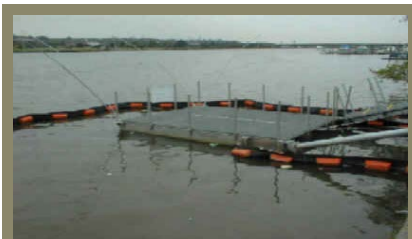
Trash on the Potomac River shoreline.

**Handle household hazardous wastes responsibly!** Improperly handled wastes often end up in storm, sanitary or combined sewers, increasing the potential for introduction into the environment. Examples of some typical household hazardous wastes include: paint, insecticides, cleaning fluids, and used automobile oil.

**DC Water Is Doing Its Part!** DC Water is doing its part to control & remove solids, floatables, and trash on the receiving waters.



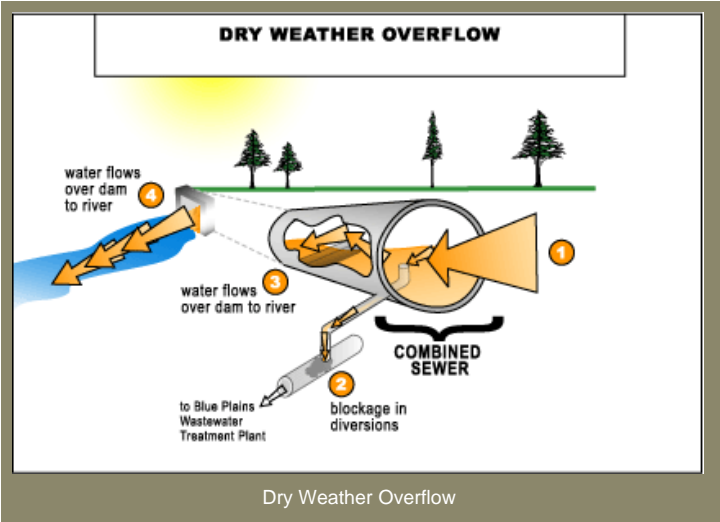
[Anacostia River Floatables Debris Program](#)  
DC Water operates boats which remove floatable debris from the Anacostia River. The program removes large quantities of debris, as illustrated in the photograph above.



[Anacostia Floating End-of-Pipe Netting System](#)  
DC Water is demonstrating a floating end-of-pipe netting system at CSO 018 on the Anacostia River to remove solids and floatables from overflows. The system has been operational since April 2000.

**Help Stop Dry Weather Overflows!** During dry weather conditions, sanitary wastewater in the combined sewer system is not

usually discharged to receiving waters. However, regulators, which control the flow of sanitary and storm waste in combined sewers, can become blocked by debris, trash, and other materials. When this occurs, the regulator's functions can be impaired and can result in minor overflows during dry weather. These are called Dry Weather Overflows (DWOs). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. When DWOs do occur, DC Water corrects them and takes measures to prevent their recurrence.



**Report Dry Weather Overflows**

If you notice a sewer overflow issue during dry weather, please call DC Water at 202-612-3400.



## What We Do

- ▶ [Drinking Water](#)
- ▼ [Wastewater Collection](#)
  - ▶ [History of Sewer System](#)
  - ▼ [Combined Sewer System](#)
    - ▶ [CSS Contacts](#)
    - ▶ [Preventing Sewer Overflows](#)
    - ▶ [CSO Predictions](#)
    - ▶ [CSS Reports](#)
  - ▶ [Sanitary Sewer System](#)
  - ▶ [Catch Basins](#)
  - ▶ [Potomac Interceptor](#)
- ▶ [Wastewater Treatment](#)
- ▶ [Finance](#)
- ▶ [Fire Hydrants](#)
- ▶ [Projects & Initiatives](#)

## Combined Sewer System Reports

DC Water Reports to the United States Environmental Protection Agency quarterly on the implementation of its long term plan for controlling CSOs (the Clean Rivers Project). This is a requirement of the CSS LTCP Consent Decree between DC Water and the Federal Government.

### Total Nitrogen Removal/Wet Weather Plan

The report contains DC Water's latest plan for implementing Enhanced Nutrient (Total Nitrogen) Removal as required by the Chesapeake Bay Program and the Blue Plains National Pollutant Discharge Elimination System (NPDES) permit. DC Water is committed to have these reports available to the public.

- ▶ [Summary & Findings \(PDF 1018 kb\)](#)
- ▶ [Total Nitrogen Removal/Wet Weather Plan \(PDF 9.3 mb\)](#)

Show All [2016](#) [2015](#) [2014](#) [2013](#) [2012](#) [2011](#) [2010](#) [2009](#) [2008](#) [2007](#) [2006](#) [2005](#)

### CSO Division Quarterly Operation Reports

DC Water Reports to the United States Environmental Protection Agency quarterly on the implementation of its long term plan for controlling CSOs (the Clean Rivers Project). This is a requirement of the CSS LTCP Consent Decree between DC Water and the Federal Government.

Date	Title	Type	Size
<b>2016</b>			
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	1.6 MB
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	296 KB
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	4.2 MB
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	1.4 MB
<b>2015</b>			
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	562 KB
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	569 KB
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	785 KB
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	544 KB
<b>2014</b>			
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	548 KB
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	561 KB
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	436 KB
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	532 KB

Show All

[CSO Division Quarterly Operation Reports](#)

[Long-Term Control Plan Consent Decree Quarterly Reports](#)

[Three Party Consent Decree Quarterly Reports](#)

2013				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	554 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	509 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	511 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	550 KB	
2012				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	788 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	399 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	552 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	557 KB	
2011				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	460 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	365 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	357 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	379 KB	
2010				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	367 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	912 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	364 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	353 KB	
2009				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	414 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	896 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	426 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	395 KB	
2008				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	368 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	373 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	407 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	2.4 MB	

2007				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	385 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	476 KB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	390 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	388 KB	
2006				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	402 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	1 MB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	402 KB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	393 KB	
2005				
4th Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	404 KB	
3rd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	1.1 MB	
2nd Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	1 MB	
1st Quarter	<a href="#">Combined Sewer Overflow Facilities Quarterly Report</a>	PDF	1 MB	

#### Long-Term Control Plan Consent Decree Quarterly Reports

DC Water Reports to the United States Environmental Protection Agency quarterly on the implementation of its long term plan for controlling CSOs (the Clean Rivers Project). This is a requirement of the CSS LTCP Consent Decree between DC Water and the Federal Government.

Date	Title	Type	Size
2016			
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	409 KB
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	405 KB
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	406 KB
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	414 KB
2015			
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	84 KB
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	329 KB
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	83 KB
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	330 KB
2014			
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	332 KB
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	324 KB
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	323 KB
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	118 KB

2013				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	120 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	299 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	298 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	297 KB	
2012				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	243 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	241 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	114 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	243 KB	
2011				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	114 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	240 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	118 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	120 KB	
2010				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	81 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	120 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	174 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	177 KB	
2009				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	95 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	175 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	173 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	209 KB	
2008				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	86 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	130 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	126 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	131 KB	

2007				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	71 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	128 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	126 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	124 KB	
2006				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	123 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	131 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	131 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	71 KB	
2005				
4th Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	132 KB	
3rd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	125 KB	
2nd Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	241 KB	
1st Quarter	<a href="#">Long Term Control Plan Consent Decree Status Report</a>	PDF	203 KB	

### Three Party Consent Decree Quarterly Reports

DC Water reports to EPA and the parties to the Nine Minimum Control Consent Decree on progress in completing the projects identified in the 3-Party Consent Decree. Providing these reports is a requirement of this Consent Decree. DC Water is committed to having these reports available to the public

Date	Title	Type	Size
2016			
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	302 KB
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	297 KB
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	295 KB
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	294 KB
2015			
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	294 KB
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	293 KB
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	64 KB
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	290 KB
2014			
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	291 KB
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	290 KB
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	289 KB
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	129 KB
2013			
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	106 KB
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	264 KB
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	264 KB
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	263 KB

2012				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	203 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	202 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	109 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	202 KB	
2011				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	110 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	202 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	109 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	107 KB	
2010				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	64 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	107 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	121 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	122 KB	
2009				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	65 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	123 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	123 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	69 KB	
2008				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	68 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	186 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	188 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	186 KB	
2007				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	70 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	73 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	72 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	125 KB	
2006				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	125 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	128 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	196 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	335 KB	
2005				
4th Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	127 KB	
3rd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	125 KB	
2nd Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	386 KB	
1st Quarter	<a href="#">3-Party Consent Decree Status Report</a>	PDF	33 KB	



## What We Do

- ▶ [Drinking Water](#)
- ▼ [Wastewater Collection](#)
  - ▶ [History of Sewer System](#)
  - ▼ [Combined Sewer System](#)
    - ▶ [CSS Contacts](#)
    - ▶ [Preventing Sewer Overflows](#)
    - ▶ [CSO Predictions](#)
    - ▶ [CSS Reports](#)
  - ▶ [Sanitary Sewer System](#)
  - ▶ [Catch Basins](#)
  - ▶ [Potomac Interceptor](#)
- ▶ [Wastewater Treatment](#)
- ▶ [Finance](#)
- ▶ [Fire Hydrants](#)
- ▶ [Projects & Initiatives](#)

## Combined Sewer System Contacts

DC Water wants to answer your questions about Combined Sewer Overflows (CSOs) and our efforts to continually keep our water supply safe and clean. If you have questions, please use the contact information below.

- ▶ For questions about CSOs, please call Moussa Wone at 202-787-4729 or send an email to [moussa.wone@dcwater.com](mailto:moussa.wone@dcwater.com).
- ▶ In February 2007, management of the District's stormwater permit was transferred to the District Department of the Environment (DDOE). For more information, please visit [DDOE's website](#) or call DDOE at 202-535-2600.
- ▶ For all other matters, please contact DC Water at 202-787-2000 or [click here](#) for additional DC Water contact information.

## Public Information Depositories

DC Water maintains copies of public information for review at the following public libraries in the District:

Martin Luther King, Jr. Library 901 G St. NW Washington, DC	Capitol View Library 5001 Central Ave. SE Washington, DC
Mount Pleasant Library 3160 16th St. NW Washington, DC	Northeast Library 330 7th St. NE Washington, DC
Southeast Library 403 7th St. SE Washington, DC	Shepherd Park Library 7420 Georgia Ave. NW Washington, DC
Tenley-Friendship Library 4200 Wisconsin Ave. NW Washington, DC	Washington Highlands Library 115 Atlantic Street SW Washington, DC
Woodridge Library 1801 Rhode Island Avenue, NE Washington, DC	





## What We Do

- ▶ [Drinking Water](#)
- ▼ [Wastewater Collection](#)
  - ▶ [History of Sewer System](#)
  - ▼ [Combined Sewer System](#)
    - ▶ [CSS Contacts](#)
    - ▶ [Preventing Sewer Overflows](#)
    - ▶ [CSO Predictions](#)
    - ▶ [CSS Reports](#)
  - ▶ [Sanitary Sewer System](#)
  - ▶ [Catch Basins](#)
  - ▶ [Potomac Interceptor](#)
- ▶ [Wastewater Treatment](#)
- ▶ [Finance](#)
- ▶ [Fire Hydrants](#)
- ▶ [Projects & Initiatives](#)

## Combined Sewer Overflow Model Predictions

CSOs should only occur during wet weather. Whether an overflow occurs and its magnitude depends on many factors including rainfall volume, rainfall intensity, whether it has rained in previous days. CSOs typically overflow more in wet years than dry years. More intense rains also make it more likely that CSOs will occur.

### Yearly Predictions

Download a summary, based on computer modeling, of [overflow events in an average year with typical rainfall \(PDF 58 kb\)](#). For each CSO, the document summarizes:

- ▶ Number of overflows
- ▶ Total overflow volume
- ▶ Estimated minimum rainfall volume necessary to cause an overflow
- ▶ Average duration of overflow.

### Prior Quarter CSO Predictions

DC Water uses its computer model of the combined sewer system to predict the actual CSOs that have occurred in the prior calendar quarter. [The most recent CSO prediction results \(PDF 70 kb\)](#) are available for download.



## What We Do

- ▶ [Drinking Water](#)
- ▶ [Wastewater Collection](#)
- ▶ [Wastewater Treatment](#)
- ▶ [Finance](#)
- ▶ [Fire Hydrants](#)
- ▼ [Projects & Initiatives](#)
  - ▶ [Active Workzones](#)
  - ▶ [Capital Improvement Program](#)
  - ▶ [Bloomingdale Small Diameter Water Main Replacement Project](#)
  - ▼ [Clean Rivers Project](#)
    - ▶ [A Drop's Life](#)
    - ▶ [About the Clean Rivers Project](#)
    - ▶ [Nannie Tunnel Boring Machine](#)
    - ▶ [Anacostia River Tunnel](#)
    - ▶ [Clean Rivers Project Facilities Quarterly Reports](#)
    - ▶ [Clean Rivers Project Quarterly Status Reports](#)
    - ▶ [Clean Rivers Project Updates](#)
    - ▶ [Current/Future Tunnel Capacity \(PDF\)](#)
    - ▶ [DC Water's Green Infrastructure Plan](#)
    - ▶ [First Street Tunnel](#)
    - ▶ [Green Infrastructure at DC Water Facilities](#)
    - ▶ [Groundbreaking Ceremony](#)
    - ▶ [Irving Street Green Infrastructure Project](#)
    - ▶ [Lady Bird Tunnel Boring Machine](#)
    - ▶ [Low-Impact Development](#)
    - ▶ [McMillan Stormwater Storage Project](#)
    - ▶ [Potomac River Tunnel Project](#)
    - ▶ [Northeast Boundary Tunnel Project](#)
    - ▶ [Photo Gallery](#)
    - ▶ [The DC Watershed](#)
    - ▶ [The Northeast Boundary Neighborhood Protection Project](#)
  - ▶ [Stimulus funds Projects](#)
  - ▶ [DC Water Administrative Headquarters](#)
  - ▶ [17th Street NE/SE Water Main Installation](#)

## Clean Rivers Project

### Restoring Our Rivers

The Clean Rivers Project is DC Water's ongoing program to reduce combined sewer overflows into the District's waterways - the Anacostia and Potomac Rivers and Rock Creek. The Project is a massive infrastructure and support program designed to capture and clean water during heavy rainfalls before it ever reaches our rivers.

### Protecting Our District

With the Clean Rivers Project, DC Water will protect the public from possible harmful substances in our wastewater. It is also cleaning up our waterways, by reducing the pollutants that enter our rivers and can be harmful to our wildlife.



### What can you find in this section?

- ▶ [A Drop's Life](#)  
Learn about the Clean Rivers Project from the perspective of a single water drop, in this 4-1/2-minute cartoon.
- ▶ [About the Clean Rivers Project](#)  
Learn how the Clean Rivers Project works
- ▶ [Nannie Tunnel Boring Machine](#)
- ▶ [Anacostia River Tunnel](#)  
The Anacostia River Tunnels project is the first Long-Term Control Plan project to begin construction. Check here for updates as the project progresses.
- ▶ [Clean Rivers Project Facilities Quarterly Reports](#)
- ▶ [Clean Rivers Project Quarterly Status Reports](#)
- ▶ [Clean Rivers Project Updates](#)  
Our semiannual updates on the project
- ▶ [Current/Future Tunnel Capacity \(PDF 52 kb\)](#)
- ▶ [DC Water's Green Infrastructure Plan](#)  
DC Water Proposes Modifying Long Term Control Plan for Green Infrastructure
- ▶ [First Street Tunnel](#)  
First Street Tunnel
- ▶ [Green Infrastructure at DC Water Facilities](#)  
Green Infrastructure at DC Water Facilities
- ▶ [Groundbreaking Ceremony](#)  
Senator Benjamin Cardin, Congresswoman Eleanor Holmes Norton, Mayor Vincent Gray and others joined DC Water to break ground on the Clean Rivers Project October 12, 2011.
- ▶ [Irving Street Green Infrastructure Project](#)
- ▶ [Lady Bird Tunnel Boring Machine](#)
- ▶ [Low-Impact Development](#)  
DC Water is exploring the use of low-impact development to capture stormwater before it enters our system.
- ▶ [McMillan Stormwater Storage Project](#)
- ▶ [Potomac River Tunnel Project](#)  
Potomac River Tunnel Project
- ▶ [Northeast Boundary Tunnel Project](#)  
Northeast Boundary Tunnel Project
- ▶ [Photo Gallery](#)
- ▶ [The DC Watershed](#)  
Where the water flows
- ▶ [The Northeast Boundary Neighborhood Protection Project](#)  
The Northeast Boundary Neighborhood Protection Project



## **APPENDIX 9-2**

### **Informational Mailers**





## DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY BIANNUAL REPORT APRIL 2016

### COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

# CLEAN RIVERS PROJECT NEWS

## DC Water, the District of Columbia and Department of Justice agree on consent decree modifications for a greener District

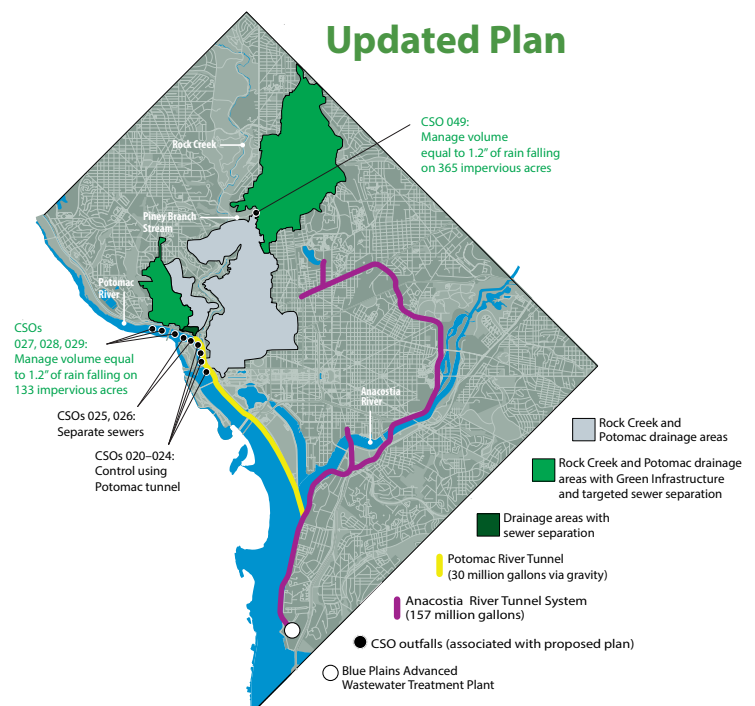
In 2005, DC Water entered into a consent decree that addressed the District of Columbia's combined sewer overflows, called CSOs. These overflows are common to older cities whose sewer systems were constructed before the 1900s. Combined systems use one sewer to handle both stormwater and sewage. Since the early 1900's it has become standard to install separate pipes for stormwater and sewage. About one-third of the District has the older type, the combined sewage system. These systems discharge to the Anacostia and Potomac rivers and Rock Creek during heavy rains when the pipes become full.\*

The original agreement to address CSOs outlined two types of solutions—the first is to build underground storage tunnels to store the combined sewage in intense rain storms. The second is to use green infrastructure, also known as GI, to infiltrate the rain into the ground and keep it from running into the combined sewer system. The plan originally called for CSO control mostly through a large tunnel solution, with some green infrastructure.

On January 14, 2016, an amendment to the 2005 consent decree was entered in U.S. District Court to modify the plan to include a larger portion of green infrastructure. Under the modified consent decree for Rock Creek, DC Water will construct green infrastructure in the area that drains to combined sewer overflow CSO 049 (see map "Updated Plan") and eliminate the previously planned tunnel. For the

... continued on page 4

\*Please see page 3 of this newsletter for more information on combined sewer overflows.



## DC Water prepares to begin longest tunnel segment for Anacostia River relief

Two of DC Water's tunnel boring machines (TBM) have completed their dig and another is well on its way. But the longest segment, the Northeast Boundary Tunnel, is yet to come. Before the Authority even lowers a TBM into the ground, there is much prep work to be done. First among these is relocating utilities that are in the path of the project. Existing communication, electric, gas, sewer, water, traffic signal and street light lines are being relocated to areas that will remove them from the path of construction.

Beginning this spring, residents near these relocations can anticipate construction activities to take place 24 hours a day Monday through Friday, weather permitting. DC Water will provide work schedules, including work hours for each site, to impacted residents near the beginning of each project.

Residents within and surrounding the impacted areas should expect daytime parking restrictions, sidewalk and alley closings, lane shifts and other construction-related disruptions. DC Water is coordinating efforts with Washington Gas, Pepco, and Verizon during the process to minimize disruptions in these services. Affected residents will be provided advance notice.

Utility relocations will take place at pivotal points throughout the tunnel alignment as shown in the figure below.

- Mt. Olivet Road NE, between Virginia Avenue, NE and the Mt. Olivet Cemetery
- Intersection of Mt. Olivet Road NE and Capitol Avenue, NE
- Department of Public Works on W Street
- Intersection of Rhode Island Avenue and 8th Place, NE
- Intersection of 4th Street NE and Rhode Island Avenue, NE
- Intersection of T Street NW and Rhode Island Avenue, NW
- Intersection of 3rd Street NW and Florida Avenue, NW
- Intersection of 6th Street NW and Rhode Island Avenue, NW

The planned Northeast Boundary Tunnel is a large, deep, combined sewer tunnel that will increase the capacity of the existing sewer system in the District, significantly reducing combined sewer overflows and flooding to improve the health of the Anacostia River.

### Utility relocations along the Northeast Boundary Tunnel

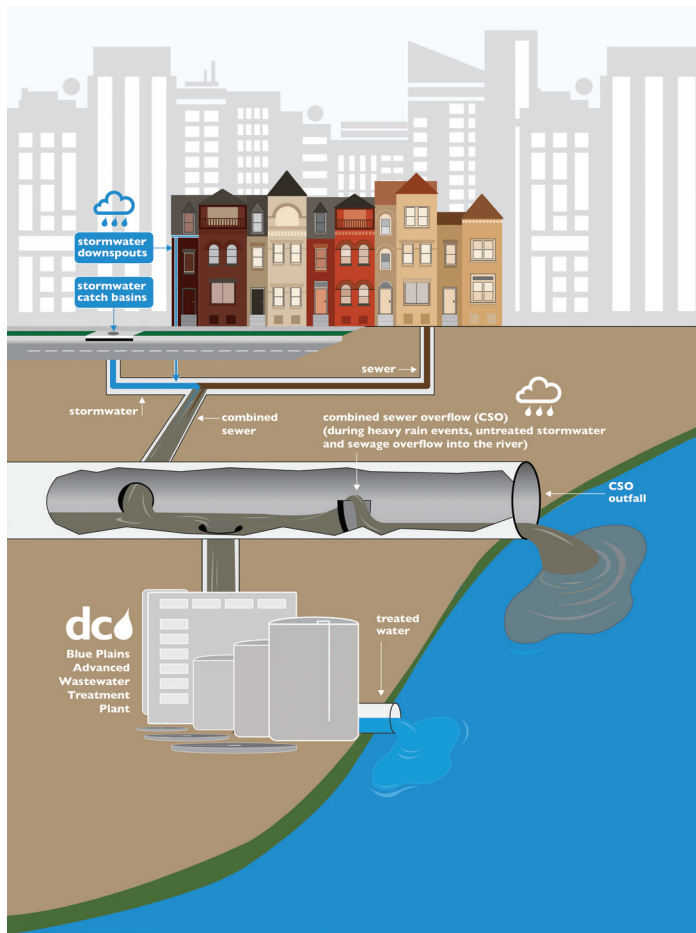


○ AREA OF UTILITY RELOCATION    — NORTHEAST BOUNDARY TUNNEL    — FIRST STREET TUNNEL

## FAQs About the Combined Sewer System

### What is a Combined Sewer?

A combined sewer is a single pipe that carries both sanitary wastewater and stormwater runoff. Many older cities in the United States are served by combined sewers. In the District, the combined sewer system was designed and built by the U.S. Army Corps of Engineers. Modern practice is to build two pipes in the street—one for stormwater runoff, and one for wastewater from homes and businesses.



### What is a CSO and why does it occur?

A CSO is a combined sewer overflow. During dry weather, sewage from homes and businesses is conveyed to the District's wastewater treatment plant at Blue Plains, where the wastewater is treated to remove pollutants before being discharged to the Potomac River. During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, a dilute mixture of wastewater and stormwater runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. The Federal Clean Water Act allows CSOs, but the Environmental Protection Agency (EPA) requires communities to develop a plan to address overflows. There are 47 potentially active CSO outfalls listed in DC Water's existing discharge permit from the EPA.

### When do CSOs occur?

CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 75 times annually, spilling nearly 1.3 billion gallons into the Anacostia and 640 million gallons into the Potomac. Rock Creek averages 30 CSO events and 49 million gallons of overflow a year.

### Where are CSO Outfalls?

There are 10 CSO outfall locations on the Potomac River, 14 on the Anacostia River and 23 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

### What are the possible public health impacts of CSOs?

CSOs may pose a danger to the public because of the rapid flow of water exiting the outfalls and the potentially harmful substances it may contain. The public is advised to stay away from any sewer pipe discharge. CSOs could affect the receiving waters for up to 24 hours during small rainstorms and for up to three days when it rains one inch or more.

### What are the environmental impacts of CSOs?

CSOs can adversely affect the quality of rivers and streams by contributing to high bacterial levels and low dissolved oxygen levels, which are harmful to fish and other aquatic life.

### What is a Dry Weather Overflow (DWO)?

In dry weather, sanitary wastewater normally flows to the Blue Plains Advanced Wastewater Treatment Plant through pipes with regulators. During wet weather, regulators are designed to let the excess flow discharge directly to a river or creek. If regulators become blocked by debris or trash, wastewater can also overflow during dry weather. This is called a dry weather overflow (DWO). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. If you see a CSO outfall discharging during dry weather, call DC Water at (202) 612-3400.

### Where can you get more information?

You can learn more by visiting DC Water's website at [dcwater.com/cleanrivers](https://dcwater.com/cleanrivers). You may also contact DC Water's Office of External Affairs at (202) 787-2200.

The complete text of the Long Term Control Plan for Combined Sewer Overflows can also be found on DC Water's web site at [dcwater.com/FinalLTCP](https://dcwater.com/FinalLTCP).



# CLEAN RIVERS PROJECT NEWS

## COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

BIANNUAL REPORT APRIL 2016  
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



*continued from page 1* **Consent decree modification**

Potomac River, DC Water will use a combination of GI and separating the combined sewer pipes into stormwater and sewage pipes. The GI will be installed in the drainage areas for CSOs 027, 028 and 029; the separation of the pipes will be for CSOs 025 and 026; and construction of the Potomac River Tunnel will manage combined sewage for CSOs 020, 021, 022 and 024. To allow enough time to implement GI and to mitigate financial impacts to residents, the amended consent decree extends the construction time for portions of the plan from 2025 to 2030.

In the areas where green infrastructure will be used, stormwater runoff will now be managed through practices such as rain gardens, pervious pavement installations, and rain barrels. GI will be fully implemented by 2027 within the Potomac River sewershed and by 2030 in the Rock Creek sewershed.

The types of GI practices and their potential locations within the Rock Creek and Potomac River sewersheds are being evaluated with input from the community and others through public meetings, targeted community outreach, and online surveys. Construction on the first projects for

both the Rock Creek and Potomac River sewersheds will begin in 2017.

In addition to helping reduce CSOs, green practices can also provide environmental, social and economic benefits to the District. In addition to environmental benefits such as reducing the urban heat island effect and supporting habitat for pollinators and birds, GI aids in the beautification of neighborhoods. Equally important, the green infrastructure in DC will support local job creation through an agreement between DC Water and the District of Columbia. The agreement creates an ambitious local jobs program that includes training and certification opportunities for District residents interested in GI construction, inspection and maintenance. DC Water established a goal to have 51 percent of new jobs created by the GI project filled by District residents. The first training for District residents will take place in late 2016 with the goal to have the first candidates certified in early 2017.

To learn more about DC Water's Green Infrastructure Program visit [www.dewater.com/green](http://www.dewater.com/green)



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DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY  
**BIANNUAL REPORT OCTOBER 2016**

## **COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES**

# **CLEAN RIVERS PROJECT NEWS**



### **First Street Tunnel Project wrapping up**

Following two and a half years of construction, DC Water is slated to complete the First Street Tunnel in the fall of 2016. DC Water wishes to recognize the citizens of Bloomingdale and LeDroit Park, including the Tunnel Forum members, ANC Commissioners, Councilmember Kenyan McDuffie and those located right next to the project, since without their understanding and cooperation this important flood mitigation project could not have been built. DC Water would also like to thank Mayor Bowser, former Mayor Gray and the many District agencies who have helped implement this historic project on an unprecedented short timeline and made it an overall success.

The First Street Tunnel project is a major component of the DC Clean Rivers Project, designed to mitigate sewer flooding and basement backups in the District's historic and densely populated Bloomingdale neighborhood. Bloomingdale and its surrounding neighborhoods have been historically affected by sewer flooding and were severely impacted by four storms in the summer of 2012 that caused significant damage to homes, the environment and public property. As a result, DC Water and the District accelerated the design

and construction of the First Street Tunnel to lessen the effect that storms have on the undersized sewers serving the neighborhood.

The infrastructure designed to mitigate flooding, including the tunnel, are located within the highly urbanized neighborhood. Some of these structures were less than ten feet from residents' front door steps. The success of this extraordinary public works project in its unique location can be attributed to a well informed and supportive public. Early on, the task group identified ways the community members could minimize flooding, and DC Water worked with stakeholders to provide timely and accurate information while developing a culture of problem solving and collaboration with the community.

When the First Street Tunnel is placed into operation, it will act as a large underground storage tank and in conjunction with the other flood relief facilities constructed in Bloomingdale, the probability of flooding in any given year will be reduced from 50 percent to 15 percent and eventually to 7 percent when it connects to the upcoming Northeast Boundary Tunnel in 2023.





## Anacostia River Tunnel segment less than a mile from completion

The second phase of the Anacostia River Tunnel system to control combined sewer overflows to the Anacostia River is nearing completion. Using a tunnel boring machine (TBM) named Nannie, after the famous District educator, Nannie Helen Burroughs, DC Water's contractors have diligently mined 1.7 miles of tunnel under the District and have less than a mile to go.

Nannie's tunnel segment is called the Anacostia River Tunnel, and it will connect to the first phase, a 4.5-mile tunnel segment already mined by former powerhouse TBM Lady Bird. The tunnel segments will join at Poplar Point, adjacent to the Frederick Douglass Bridge.

In addition to Nannie's tunnel construction, DC Water has also been

building surface facilities to divert the combined sewage into the tunnel at various sites along the I-295 corridor, M Street SE and the Southeast Freeway. These facilities include deep shafts that range from 20 to 60 feet wide and large concrete structures to divert sewage from entering the Anacostia River. Not since the construction of the original sewer system in the early 1900's and the Metro has the District seen construction of this magnitude.

The current schedule has the Blue Plains and Anacostia River Tunnels in service in March 2018, at which time the combined sewer overflows to the Anacostia River will be reduced by 81 percent. DC Water will have met a key consent decree milestone in the DC Clean Rivers Project.

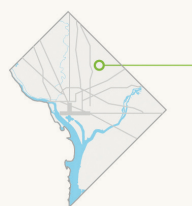
## DC Water greens the District while controlling combined sewer overflows

In addition to the tunnels that will greatly reduce combined sewer overflows to the Anacostia River, DC Water is also constructing green infrastructure to reduce combined sewer overflows to Rock Creek. For the Potomac River, DC Water will be constructing both, referred to as gray and green infrastructure.

The first of these green projects is being constructed to control overflows to Rock Creek in accordance with DC Water's amended consent decree milestones. The first Rock Creek Project (designated by the letter "A") will create innovative green infrastructure technologies that include rain gardens, permeable (allows water to

run through it) pavement on streets and alleys and downspout disconnection to direct water from rooftops into rain barrels. These practices will manage stormwater by taking advantage of the earth's natural processes. These include allowing water to infiltrate into the soil; evaporate into the air; or for plants to use the water and expire it as vapor. These practices can slow down, clean, and in some cases reduce, stormwater runoff prior to it entering the combined sewer system.

Rock Creek Project A area extends from Oglethorpe Street NW to Gallatin Street NW and 3rd Place NW to First Street NE,

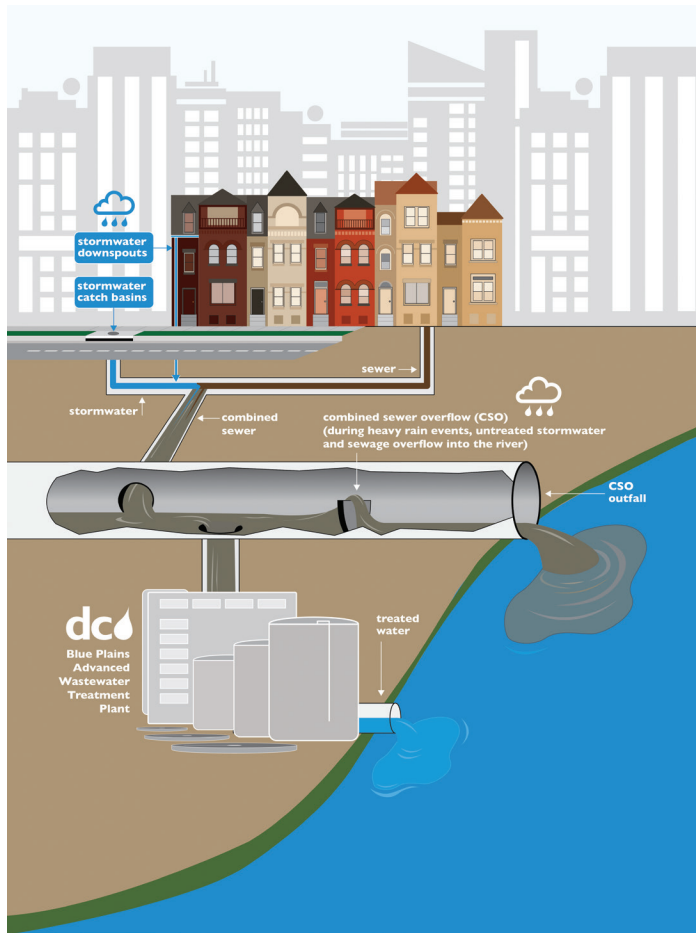


(see inset). Construction activities for Rock Creek Project A are expected to begin in spring 2017 and to be completed in 2019. Construction work will be phased throughout the project area to minimize traffic and

## FAQs About the Combined Sewer System

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### When do CSOs occur?

CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 77 times annually, spilling nearly 1.3 billion gallons into the Anacostia and 677 million gallons into the Potomac. Rock Creek averages 32 CSO events and 35 million gallons of overflow a year.

### Where are CSO Outfalls?

There are 10 CSO outfall locations on the Potomac River, 14 on the Anacostia River and 23 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

### What are the possible public health impacts of CSOs?

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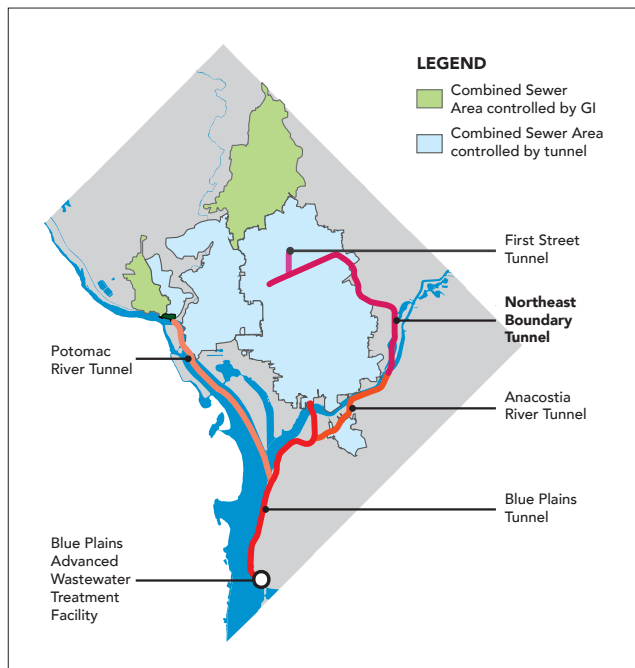
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# CLEAN RIVERS PROJECT NEWS

COMBINED SEWER OVERFLOW (CSO)  
CONTROL ACTIVITIES

BIANNUAL REPORT OCTOBER 2016  
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



## Northeast Boundary Tunnel design complete, relocating utilities

DC Water has recently completed the design of the largest tunnel yet—the five-mile-long Northeast Boundary Tunnel. In advance of construction, DC Water is relocating utilities to make way for the structures that will ultimately divert sewer flow into the tunnel. The relocation work started in June 2016 and is anticipated to be complete by September 2017.

The Northeast Boundary Tunnel should be complete in 2023 and will fulfill construction of new facilities required by DC Water's consent decree two years ahead of the original consent decree schedule. Once the Northeast Boundary Tunnel is connected to the Blue Plains and Anacostia River tunnels, combined sewer overflows to the Anacostia River will be reduced by 98 percent. In addition to controlling combined sewer overflows, the construction of the Northeast Boundary Tunnel will reduce the chance of flooding in its area from approximately 50 percent to seven percent in any given year.

continued from page 2 **Green Infrastructure**

other construction impacts to the community. From 2019 to 2020, the green infrastructure practices will be monitored and measured to evaluate performance.

You can help decrease the amount of stormwater entering the District's combined sewer system. Rock Creek Project A includes a voluntary free downspout disconnection program with rain barrels on eligible private properties within the project area. To learn more about the Downspout Disconnection Program, please visit [dcwater.com/draintherain](http://dcwater.com/draintherain).

To learn more about Rock Creek Project A, visit [dcwater.com/RockCreekGreen](http://dcwater.com/RockCreekGreen)

# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 1



## GENERAL MANAGER'S MESSAGE

Happy New Year!  
As we launch into 2016, we also reflect on a year of great progress here at DC Water - progress that will benefit all of us and our city well into the future.



We know how important it is for your water to flow from your tap when you need it. That's why we took action in 2015 to ensure there is dedicated funding to replace old water mains and improve the reliability of our service.

We also celebrated a key milestone, the completion of a massive tunnel dug by our tunnel boring machine Lady Bird. Her work is the first major piece of the DC Clean Rivers Project, which will help reduce pollution in the Anacostia and Potomac rivers - important for the District's environment and economy.

We know the rate increases to pay for that work puts an added strain on your family's budget. That's why last year we expanded our efforts to find new non-ratepayer revenue sources, and we will continue to do so in the New Year. It's also why we invested in our new bioenergy facility that produces a third of the power needed to run our treatment plant. That project will pay for itself, while providing clean, green renewable energy!

We look forward to serving you in 2016 with the same focus on both the bottom line and the blue horizon, always searching for ways to make DC Water even better.

*George S. Hawkins*

George S. Hawkins  
gmsuggestions@dcwater.com

## Engineering and environmental protection projects achieve milestones.

In 2015, DC Water made progress in many areas. Following are just a few:

- DC Water completed the bioenergy project, that can produce a net 10 MW of electricity. The facilities turn the solids left over at the end of the wastewater treatment process into electric and steam power, generating about a third of the plant's power needs. It produces clean Class A biosolids that can be turned into a marketable compost-like material used right here in the District.
- DC Water's first tunnel boring machine (TBM) completed her 4.5 mile segment of a tunnel that will store combined sewage to protect the Anacostia River. Two more TBM's (Nannie and Lucy) were commissioned to mine additional portions of the tunnel system.
- DC Water took the next steps in its multi-year contest called the Green Infrastructure Challenge to generate creative ideas and designs for greening DC while decreasing stormwater runoff. In FY 2015 a team of

experts selected two concepts for final design, awarding more than \$1 million for design and construction. The first is a streetscape project on the 100 block of Kennedy Street, NW. The second is a parks project for two triangular-shaped parks on Kansas Avenue, NW.

In May, DC Water, the District of Columbia, the U.S. Environmental Protection Agency and the U.S. Department of Justice agreed to modify the long term control plan (dubbed the DC Clean Rivers Project) for reducing combined sewer overflows to District waterways. The original agreement included only "gray" or tunneling solutions. This modification allows for more green infrastructure for the Potomac River and Rock Creek, and a reduction in the tunneling plans for those two waterways. The work for the Anacostia River is well underway and those plans remain intact.

DC Water also worked with the Water Environment Federation this year to begin to develop a green jobs certification and training program.

see **ACHIEVEMENTS** continued on back



**DC Water to close business office at 810 First Street NE** see story on page 2





## Now pay your water bill closer to home

DC Water now gives customers added flexibility in bill payment. Customers can pay their DC Water bill with cash in person at one of more than 50 authorized locations in the District and many more in Virginia and Maryland. Payments post on the same day if paid by 2:00 p.m. The service is absolutely free—there are no fees to make a walk-in payment.

DC Water partnered with Global Express Financial Services, a vendor that works with local establishments to accept walk-in payments on behalf of utilities, and successfully began accepting payments last month. Global Express also offers this service for other utilities and service providers, which adds to the convenience. Customers may be able to pay several bills in the same location at the same time! Please see the accompanying insert or visit [global-express.net/storelocator](http://global-express.net/storelocator) for payment locations near you.

With so many in-person payment options, DC Water will close the 810 First Street, NE payment office. Beginning January 29, 2016 there will no longer be walk-in payments or a drop box at that location. Customers may still pay by check mailed to:

District of Columbia Water and  
Sewer Authority  
Customer Service Department  
P.O. Box 97200  
Washington, DC 20090

In addition, customers also still have the option to pay over the phone and online by setting up a My DC Water account. For more information, to ask billing questions or to set up payment terms, please call DC Water's Customer Service Department at (202) 354-3600.



Ft. Reno Green Roof Project

## Achievements continued

### Innovative financing.

DC Water re-evaluated the way it charges for water and sewer service to create a more equitable structure while also creating a fixed charge that will generate funds for the \$40 million a year water main replacement program. The new rate structure went into effect October 1 and charges different rates for water service based on customer class (residential, multi-family and non-residential). DC Water also added a Lifeline Rate that steeply discounts roughly the first 3,000 gallons of water for residential customers.

### Lending a helping hand.

DC Water's customers, employees and residents contributed generously to the SPLASH fund (Serving People by Lending a Supporting Hand) to assist those customers facing service shutoff. Together, we raised more than \$116,000 in Fiscal Year 2015 to keep families in water and sewer service.

### An award-winning year.

The Authority and its staff members demonstrated leadership with more than 25 awards in 2015. Among them were:

#### **Global Water Intelligence, Distinction, 2015 Global Water Deal of the Year Award.**

DC Water's Finance team was recognized by Global Water Intelligence for the innovative green century bond, a highly successful \$350 million bond to fund the Clean Rivers Project that was a utility first for the 100-year maturity and for being a certified green bond.

#### **NACWA Environmental Achievement Awards:**

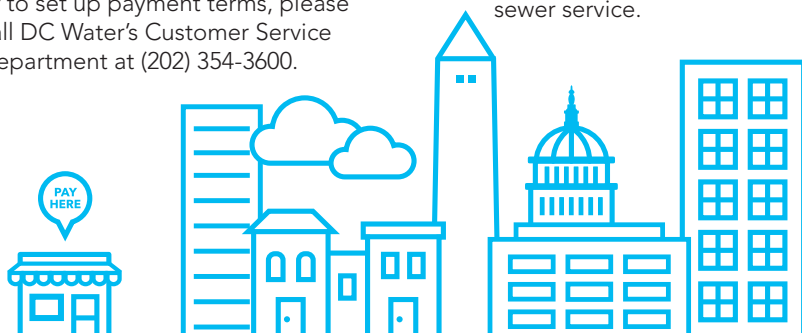
Research and Technology (with Hampton Roads) for: Mainstream Deammonification - A New "Blue-Print" for Cost Effective, Sustainable Nutrient Removal.

#### **NACWA Environmental Achievement Awards:**

Operations and Environmental Performance: DC Water Ft. Reno Green Roof Project. The Clean Rivers Project team won this award for installation of a massive green roof project at DC Water's Ft. Reno Pumping Station.

#### **NACWA Peak Performance Award.**

Received for excellence in permit compliance (Gold Award received in 2015 for 100% compliance of NPDES permit requirements during the entire 2014 calendar year).



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY**  
Customer Service Department  
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30941-I-0068

# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 2



## LUCY DIGS FAST

DC Water's third giant tunnel boring machine (TBM), named Lucy, finished her tunnel segment, completing a 2,700 foot long, 20.5-foot diameter tunnel called the First Street Tunnel. She mined under First Street, NW (about 100 feet underground) from Channing Street to Rhode Island Avenue, and had to cut her way through 500 million pounds of sand, silt and clay.

Once put in service, the First Street Tunnel should greatly reduce flooding from undersized sewers in the Bloomingdale and LeDroit Park neighborhoods. It is part of the larger DC Clean Rivers Project to reduce combined sewer overflows to District waterways, thereby improving the health of our waters.

"We are pleased to reach this important milestone in the project and are grateful for the continued patience of the impacted community," said DC Water CEO and General Manager George S. Hawkins. "We will continue to work with the neighborhood to complete this essential project as soon as possible to provide flood relief for residents."

This tunnel segment will ultimately connect to the five-mile-long Northeast Boundary

Tunnel in 2022. Until then, the First Street Tunnel will store and then pump combined sewage up into the existing sewer system during and after rainstorms to keep it off of streets and out of basements.

Lucy was christened in an April 2015 ceremony and began her dig that summer. TBM's are traditionally named for a woman, much like boats in the nautical world. Lucy was named in honor of Lucy Diggs Slowe (1895-1937), a District local and the first Dean of Women at Howard University in 1922, who established a women's campus. Among many accomplishments, she was also inducted into the 26th annual Maryland Women's Hall of Fame. In addition, she was a decorated athlete, winning the American Tennis Association's first tournament in 1919, making her the first African-American woman to win a major sports title.

Now Lucy the TBM will be dismantled and 99 percent of her parts will be recycled, while the tunnel she dug is prepared for use. Work also continues to connect the existing sewers along First Street, NW to the new tunnel. For more information on the project, please visit: [dcwater.com/firststreettunnel](http://dcwater.com/firststreettunnel).

## GENERAL MANAGER'S MESSAGE

It could have been worse. That was my reaction to the 2016 Report Card for D.C.'s Infrastructure the local chapter of the American Society of Engineers (ASCE) issued in January. D.C.'s overall score was a C- which covered everything from bridges, roads and transit to levees, parks and schools. Drinking water and Wastewater infrastructure scored matching C+ grades.



DC Water provided a great deal of information to the report's authors, and while we don't necessarily agree with all of their conclusions or the final grades, there's no denying that water and sewer infrastructure in the District is aging and there is a serious need to upgrade and maintain our systems.

At the same time, we are making great progress that has us on track for a better grade in the future. With your support, we are investing heavily to replace old water pipes, some of which date back to the 1800's. We're actively remedying combined sewer overflows to help clean up DC's rivers, and we have some of the best engineers in the world implementing innovative technology at our wastewater treatment plant.

It is worth noting that our marks are well above the national D grades for drinking water and wastewater ASCE issued in its 2013 Report Card for America's Infrastructure. While aging infrastructure is a challenge testing cities across the U.S., we are ahead of the curve thanks to your investments in our system.

*George S. Hawkins*

George S. Hawkins  
gmsuggestions@dcwater.com





## "Spring cleaning" for your pipes to begin



**Starting on Monday March 7, 2016 and ending on Monday May 2, 2016**, the disinfectant used for drinking water treatment will temporarily switch from chloramine (chlorine + ammonia) to chlorine. During this time, customers may notice a slight change

in the taste and smell of drinking water. This standard switch in disinfection is part of an annual program to clean water pipes and maintain water quality throughout the year.

### If you notice a stronger chlorine taste and odor:

- Run the cold water tap for two minutes.
- Refrigerate a pitcher of cold tap water to minimize the chlorine taste and odor.
- Use a pitcher-style or faucet-mount filter to remove chlorine.

Individuals and business owners who take special precautions to remove chloramine from tap water, such as dialysis centers, medical facilities and aquatic pet owners, should continue to take the same precautions during the temporary switch to chlorine. Most methods for removing chloramine from tap water are effective in removing chlorine.

The Washington Aqueduct, operated by the Army Corps of Engineers, is responsible for treating drinking water in the District. DC Water works closely with the Aqueduct to monitor drinking water throughout the city to ensure chlorine levels meet safe levels. To view monthly chlorine levels, visit [dcwater.com/testresults](http://dcwater.com/testresults). For more information, contact the Drinking Water Division at (202) 612-3440.

## Water main breaks: Which comes first?

Often in colder months, DC Water crews are faced with many water main breaks at once. In a recent winter, for instance, there were more than 30 breaks at one time. Even with extra crews and contractors on stand-by, all of these main breaks can't be addressed simultaneously. DC Water's investigators prioritize repairs based on the severity of the break, starting with those breaks that cause the most customers to be without water. Other factors that make a repair a higher priority are those that affect traffic or cause street flooding, those that cause property damage and those that could harm the environment.



If you see water bubbling up from the street or sidewalk, it may be a water main break. Please report it to DC Water by calling (202) 612-3400, reporting it online at [dcwater.com/report\\_problem/](http://dcwater.com/report_problem/) or tweeting @dcwater with a picture, if possible.

## DC Water protects equipment with new tools

Water and sewer machinery can be complex and expensive to replace. So keeping equipment on a maintenance schedule and servicing it before a problem arises are keys to keeping costs down. This is known as "asset management." It used to consist mainly of a visual inspection by a technician, but today asset management incorporates faster, safer and better methods and technologies.

Four advances in technology include infrared technology, ultrasound, vibration analysis and oil (or lubrication) testing.



An **infrared camera** shows differences in temperature, which can help the technician more quickly identify problems before they worsen. These

cameras can also detect potential hazards from a greater distance, making inspections safer for technicians.



Another method is to listen to the soundwaves, or the "hum," of certain pieces of equipment. That soundwave is actually an acoustical frequency and changes in it can indicate a problem. This is called **ultrasound analysis**.



**Vibration analysis** uses sensors to monitor vibrations. For example, a technician might place a sensor on a piece of equipment. Vibrations can

tell a story about what's going on with the equipment. It can also be more specific about the problem if there are certain points that are vibrating more than the rest. Already, DC Water is pilot testing a portable version of this technology including wifi-enabled sensors that send emails letting technicians know which parts are in danger of failing.



**Lubrication analysis** tests the oil in a piece of equipment. There is much to learn from the oil, such as when metal particles are present. This would

indicate metal deterioration somewhere in the machinery—an expensive problem, if not corrected. This can also show breakdowns in the chemical makeup, viscosity, and contamination of the oil.

The bottom line is that better asset management has the potential to keep costs down and equipment running, which ultimately benefits ratepayers, whose rates fund operations.



### DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

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# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 3



## GENERAL MANAGER'S MESSAGE

Dear Customers:

I'm sure many of you have been following the news about the lead crisis in Flint, Michigan. What has



happened there is tragic and our hearts go out to the residents of that city. For those of us who work in the public water sector, it is the stuff of nightmares. We never want our customers to have to worry about the safety of the life sustaining water we provide.

Years ago, the District did face a similar lead-in-water issue. What our agency learned in that era is instructive today in Flint and across the country. Almost all reported elevated levels of lead in drinking water come from service lines or household plumbing – not the source water, water treatment or distribution system.

Today, our drinking water is safe and our rigorous testing program shows lead is at historically low levels. Still, every property is different and in this issue of *What's on Tap* you will learn how to tell if there is lead in the pipes that run through your property or the plumbing fixtures. We also offer free lead test kits, and we stand ready to help you and answer any questions you might have. Protecting public health is our top priority and we want you to be completely informed about this important issue.

*George S. Hawkins*

George S. Hawkins  
gmsuggestions@dcwater.com

## What you need to know about lead in drinking water

DC Water considers lead in drinking water to be a serious health risk and offers resources and recommendations to help customers minimize exposure.

### How does lead enter the drinking water?

Drinking water is lead-free when it leaves the treatment plant, but when water travels through pipes and plumbing fixtures that contain lead, this lead can be released. Some older pipes that connect a property's plumbing to the water mains are still made of lead. Other sources include old iron pipes, lead solder, and brass faucets or fixtures inside homes.

**Are there lead sources for drinking water in every DC home?** Lead sources and lead levels in drinking water vary between buildings, so it is important to identify and remove all lead sources from each property. Some service lines that run from the main into the home contain lead. In addition, some plumbing fixtures and joint solder inside homes can contain lead.

### How do I know if lead is present in my water?

First, determine if you have a lead service pipe or household plumbing that contain lead. Call DC Water at (202) 354-3600 to review pipe records for your property. Customers can inspect the service pipe at the entrance point, often located

on the lowest level or in a basement. Lead pipe is a grey color and can be easily scratched with a coin. A licensed plumber can also evaluate the service pipe, household plumbing and fixtures for lead or lead-containing materials.

DC Water offers free lead test kits by request at (202) 354-3600. It is also important to evaluate pipe and interior plumbing materials. Sometimes, a test may not identify all possible sources.

**How do I remove lead sources?** Replace a lead service pipe with copper pipe. DC Water will replace your lead service pipe from the main to your property line if you choose to replace the portion that runs from your property line into your home. For additional information, contact Customer Service at (202) 354-3600. Replace old iron plumbing. In households that have or previously had a lead service pipe, lead can accumulate on the inside of some iron pipes. Install lead-free plumbing fixtures.

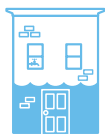
### I believe I have sources of lead in my home. What should I do until they are removed?

Use filtered tap water for drinking and cooking until all sources of lead are removed. This is especially important for pregnant or nursing women and children under age six. Select a filter certified to remove lead. The filter must meet NSF Standard 53 for lead removal. Run the cold water tap when water is not used for several hours before using it for drinking or cooking. Lead and other metals can dissolve in water when it sits in pipes for a few hours. Regularly remove and clean faucet aerators, because sediment can collect in the screen.



## Save money by fixing costly leaks

Leaks cost money! Leaking plumbing and equipment can increase a family's water bill by 10 percent. A leaking toilet wastes a gallon of water per minute, which can cost more than \$400 in a month. During Fix-a-Leak Week (March 14 to 20), DC Water reminds customers to check, twist and replace leaking fixtures to save money on their water bill and avoid wasting water.



**1. Check** for leaks and compare your water bills. A four-person household generally uses less than 12,000 gallons of water per month, so higher usage may

indicate leaks. See your own water usage online at [dcwater.com](http://dcwater.com). To check for a toilet leak, place a leak detection tablet or several drops of food dye in the toilet tank. If any color appears in the toilet bowl without flushing, you have a leak.



**2. Twist** to stop fixtures from leaking. Tighten hoses, pipe connections, showerheads and faucet valves to form a good seal. Twist a WaterSense®-labeled aerator onto bathroom and sink faucets.



**3. Replace** when necessary. Most toilet leaks are the result of worn-out flappers, which are inexpensive and easy to install. Replace gaskets and washers to stop fixtures from dripping. If you still have a drip, you probably need to replace the fixture. Look for the Environmental Protection Agency's WaterSense label on equipment. For more information, visit: [www3.epa.gov/watersense/index.html](http://www3.epa.gov/watersense/index.html).

DC Water strongly encourages customers to contact Customer Service immediately at (202) 354-3600 if they receive an unusually high bill or a notification from the High Usage Notification Alert (HUNA) system. DC Water can send an inspector to investigate for a suspected leak or broken water service line.



## TOWN HALL MEETINGS ARE COMING

Soon it will be time for the annual Budget Town Hall Meetings. Each spring, DC Water co-hosts these meetings with each ward councilmember. It is a great opportunity to speak with CEO and General Manager George Hawkins about the budget and proposed rates for the next fiscal year. Please visit [dcwater.com/rates](http://dcwater.com/rates) in the coming weeks to learn more.

## DC Water's largest interceptor sewer gets its first cleaning

An important part of DC's sewer system is getting an overdue cleaning. The Potomac Interceptor (PI) is an extremely large sewer main that runs from Dulles Airport to the Potomac Pumping Station under the foot of the Roosevelt Bridge in the District. Sewage flows through this sewer from portions of Virginia, Maryland, and the District, along the Potomac River. It was built in 1961 and this is its first cleaning.

The work is being performed to prolong the life of the large sewer main and to alleviate future overflows from the sewer. The PI runs along the Potomac River and under the John F. Kennedy Center for the Performing Arts, so getting access to part of the sewer required coordination with many agencies including the National Park Service, the U.S. Park Police and the Kennedy Center, among others. To complicate an already complex operation, the Kennedy Center began its expansion last spring and can only provide access to DC Water through March 2016.

To meet this very strict deadline, DC Water's contractor has been working in shifts around the clock, seven days a week, even through January's blizzard.

In just the first couple of weeks, crews removed 190 tons of debris and expect to retrieve up to 3,000 tons of debris from inside the sewer. That is the equivalent of 750 elephants!

For more information, please call the Office of External Affairs at (202) 787-2200.



**REMINDER:** As noted in last month's issue of *What's on Tap*, the disinfectant used to treat drinking water will temporarily switch from chloramine to chlorine, from March 7 through May 2, 2016. For more information, contact the Drinking Water Division at (202) 612-3440.



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30941-I-0070



# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 4

## GENERAL MANAGER'S MESSAGE

Dear Customers:

Last month, DC Water connected with many of our customers at Town Hall meetings in each of the District's eight Wards. This marked the seventh consecutive year I traveled with our team across DC to explain what to expect on next year's bill and provide updates on our major projects. Eight public meetings in one month is a huge undertaking, but I consider meeting in person with our customers to be an essential responsibility in my role as CEO and General Manager.



This year we're proposing rates for both FY 2017 and FY 2018. Setting rates for multiple years benefits customers by allowing you to plan for future costs. For DC Water, multi-year rates provide predictable revenue and requires us to be more disciplined in managing your ratepayer dollars. In fact, setting multi-year rates allowed us to reduce our water and sewer rate increases to 5% for the next two years. Previous rate projections anticipated 7.5% annual water and sewer rate increases. Reducing our rate increases is particularly noteworthy since we're growing our programs to meet regulatory mandates and improve service.

We know that any rate increase affects our customers. That's why I constantly challenge our team to find ways to do our job better – better service at a lower cost. We are now realizing some of those savings,

...continued on back

## SPRING CLEANING ENDS IN MAY

From March 7 to May 2 this year, the disinfectant used in the District's drinking water was temporarily switched from chloramines to chlorine. In May, the disinfection returned to chloramines. The Washington Aqueduct is the organization responsible for treating drinking water in the District. The Aqueduct uses chloramines (chlorine plus ammonia) as a disinfectant for most of the year, because it prevents the growth of harmful microorganisms and provides long-lasting protection as water travels through the pipes to your tap.

Customers who take special precautions to remove chlorine from tap water, such as dialysis centers, medical facilities and aquatic pet owners, should continue to take the appropriate precautions to remove chloramines. The temporary switch to chlorine disinfection is an annual program that deep cleans the pipe system and helps to maintain water quality throughout the year. DC Water continuously monitors disinfectant concentrations to ensure that water meets safe levels. The Washington Aqueduct continues to add a corrosion control inhibitor during this temporary switch to prevent lead release.

For more information, contact the Drinking Water Division at (202) 612-3440.

## District Student wins DC Water Research Award

The District of Columbia STEM (Science, Technology, Engineering and Math) Fair was held in March at Dunbar High School. There were numerous water-related science projects and the Special Award from DC Water was presented to **Hannah Thomas**, an 11th grader at Georgetown Visitation Preparatory School (DC). Her research focused on water quality at Glenowen Farm and the impact farm runoff has on surrounding water bodies.



Additionally, Miss Thomas developed an app to combine the numerous water quality components into a single rating. This can enable farmers to share useful water quality information to manage farm runoff that can harm receiving waters. Miss Thomas mentioned that she was a "farm girl," and wanted to explore a topic that was close to her heart. Using her personal iPad, Miss Thomas demonstrated the user-friendly app and explained its functionality, impressing the judges in the process. Congratulations!





## Get accurate bills by keeping your meter clear

DC Water bills customers based on their water usage which is recorded by the water meter. Since DC Water installed automated readers a decade ago, in most cases, the meter is read remotely by the use of radio frequency and satellite technology. Two readings a day are uploaded to DC Water.



With this data, DC Water can monitor your water usage to help identify possible water leaks using the High Usage Notification Alerts (HUNA) system. But that is possible only if the readings are received, and we have a way to reach you. To ensure you are billed for only the amount of water you consume, and to be able to receive HUNA alerts, it is important that your meter cover remains unobstructed. Also, make sure DC Water has your latest phone number and email address to contact you with alerts.

Garbage cans, parked cars, trees, plants and shrubs are some of the common items that can interfere with electronic meter readings. In the instances when a manual meter reading is required, DC Water technicians need easy access to meters to get accurate readings. If your meter is blocked or not accessible, you will receive an estimated bill based on past usage. If you have questions about your meter or to schedule a meter reading, call the Meter Operations Division at (202) 612-3500.

## Hydrants are for fighting fires

Fire hydrants are specifically made for use by firefighters to save people, property and homes from fires. Opening a hydrant requires special tools to protect the hydrant and the water main to which it is attached. Sometimes, people are tempted to open a hydrant in order to cool off, but this can be dangerous. For one, the water comes out with great force—it can knock a person over or cause injury, especially to children.

Opening a hydrant releases more than 1,800 gallons of water per minute, lowering water pressure in the area, which can also hinder firefighting. Finally, all that water on the streets can wreak havoc with traffic and put the people playing in the water in harm's way.

There are plenty of ways to stay cool. Go to an air conditioned library, theater, museum or mall. DC's Department of Recreation offers free aquatic facilities across the District. To find one, visit [dc.dpr.gov](http://dc.dpr.gov). Save yourself from harm and your neighbors from danger. Make this summer a safe one!

## Dial before you dig

Each time you begin an outdoor project that involves digging, you must call "Miss Utility" first. Call (800) 257-7777 to get your underground utility lines marked to avoid damage. Accidentally hitting utility lines is extremely dangerous and can cause a disruption in service, harm to the environment or life-threatening personal injury. "Miss Utility," a one-call notification center, will locate and mark all of your lines, including water, sewer, gas, electric, and cable. Homeowners or professional excavators are required by law to call "Miss Utility" at least two working days (48 hours) before digging in the District. You can check the status of your request at [missutility.net](http://missutility.net).



## continued from page 1 GM's Message

like using technologies to repair our sewer lines without having to do disruptive digging. I pledge to you that there is more to come!

If you didn't have a chance to attend one of the Town Hall meetings this year, we still want to hear from you. You can always email me at the address below, call us at (202) 787-2000, or connect with us on social media.

*George S. Hawkins*

George S. Hawkins  
[gmsuggestions@dcwater.com](mailto:gmsuggestions@dcwater.com)



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# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 5



## DC Water joins in National Drinking Water Week festivities



It may seem ordinary to turn on the faucet to dispense clean, fresh drinking water. But that water has taken an extraordinary journey to make it to your tap. During the first week in May each year, DC Water and water utilities around the country celebrate this critical service that makes civilization possible. National Drinking Water Week is a reminder of the diligence, expense and hard work that goes into providing communities with safe, reliable tap water.

This year, the Authority provided educational activities to students at Maury Elementary School's S.T.E.M. Festival, partnered with the American Water Works Association to host a reusable bottle giveaway at the Thursday FRESHFARM market near the White House and assisted neighboring utility Washington Suburban Sanitary Commission (WSSC) at its Wonders of

Water Journey for scouting groups. The week's festivities concluded at the Congress Heights Day Festival.

A highlight each year is the gathering of regional water utilities at the Smithsonian Garden Festival, where the groups unite to promote Drinking Water Week with games, trivia, a large water bar dispensing cold DC water through its taps and guest appearances by Wendy the Waterdrop.

Festivities and educational programs aren't confined to one week, though; DC Water sponsors outreach activities year-round. For more information please contact the Office of External Affairs at (202) 787-2200.

## GENERAL MANAGER'S MESSAGE

Dear Customers:



I know from our Town Hall Meetings this spring that many of you have questions about water quality. That's not surprising given the attention paid this year – rightly so – to the lead crisis in Flint, Michigan. Many other cities, including DC, continue to grapple with the problem of older lead service lines and lead fixtures and solder in household plumbing. It's important to note that lead sources are different in each property and we urge residents to eliminate lead pipes and plumbing materials in their homes.

The good news is that lead concentrations in the District's drinking water are at historically low levels, thanks to the addition of a food-grade chemical called orthophosphate during the treatment process. Orthophosphate controls corrosion in the pipes that can cause lead to leach into the water.

However, we don't take that for granted. We conduct thousands of tests each year and the results show that your drinking water surpasses the standards set by the U.S. Environmental Protection Agency. We also issue an annual **Water Quality Report** which is made available to every resident of the city. Look for a notice in the mail soon. I highly recommend you take the time to read the report and to contact us for a free lead monitoring kit to confirm the quality of your water.

George S. Hawkins  
gmsuggestions@dcwater.com



## Hurricane season is here

Hurricane season runs from June 1 to November 30, and typically the peak of hurricane activity occurs between mid-August and October. Residents are urged to protect themselves, their loved ones and their property. Coastal areas are not the only ones affected. Inland areas can experience wind and flood damage. DC Water offers the following precautions to take when the weather service alerts of impending severe weather or, a tropical storm or a hurricane.

- Visit [ready.gov/hurricanes](http://ready.gov/hurricanes)
- Keep a first aid kit handy, including flashlights and extra batteries.
- Keep a battery-powered radio nearby.
- Store at least 1 gallon of water per day for each person and pet. Store at least a 3-day supply for each person and each pet (try to store a 2-week supply if possible).
- Visit [dcwater.com/education/water\\_emergencies.cfm](http://dcwater.com/education/water_emergencies.cfm) to prepare for and respond to water emergencies.
- Visit [hsema.dc.gov/page/emergencypreparedness-hsema](http://hsema.dc.gov/page/emergencypreparedness-hsema) for DC specific info.
- Listen to media reports for water and sewer related information.

Call DC Water's 24-hour Command Center for true water and sewer emergencies at (202) 612-3400.



## SPOTLIGHT ON

## National Environmental Education Foundation and National Public Lands Day

The National Environmental Education Foundation (NEEF) was founded in 1990 as an independent non-profit organization complementary to the US Environmental Protection Agency (EPA), with a focus on fostering environmental education for all ages and in all segments of the American public. NEEF embraces the idea that environmental protection requires the understanding of the public. People need to spend time experiencing their surroundings and understanding how their behaviors impact the environment. Nature, weather/climate, and health create the strongest connections for people to understand how the environment impacts their lives.



On September 24, 2016, NEEF and others will host the 23rd annual NEEF National Public Lands Day (NPLD), celebrating public lands through outdoor recreational or volunteer activities. This is the nation's largest, single-day volunteer effort for public lands. The day's work will help ensure public lands continue to be beautiful places for all to enjoy. On this day the public can access all federal public lands and many state parks for free, as fees are suspended as part of the celebration. Some federal lands are also celebrating the National Park Service centennial. To learn more or to find an event near you, please visit [NEEFusa.org/NPLD](http://NEEFusa.org/NPLD). Please follow them on Twitter [@NEEFusa](https://twitter.com/NEEFusa) and on Facebook at [fb.com/NEEFusa](https://fb.com/NEEFusa) for the latest updates and engage with the community through the hashtag '#NPLD.' This September, celebrate something we all share: our public lands!

## Keep tabs on outdoor water use in summer

During summer months, water usage can be expected to rise some. But if your water use spikes suddenly and you don't know why, you may want to check for leaks or problems in your irrigation system, damage to your hose bibs or to see if an outside spigot was left open. Some DC Water customers have investigated and found that while they thought their irrigation system was on a timer, it in fact was not, so they were watering underground 24 hours a day! To check your usage, go to [dcwater.com](http://dcwater.com) and set up online access to your account. The current system sends readings twice per day, while the next generation of meters will send usage information several times per day.



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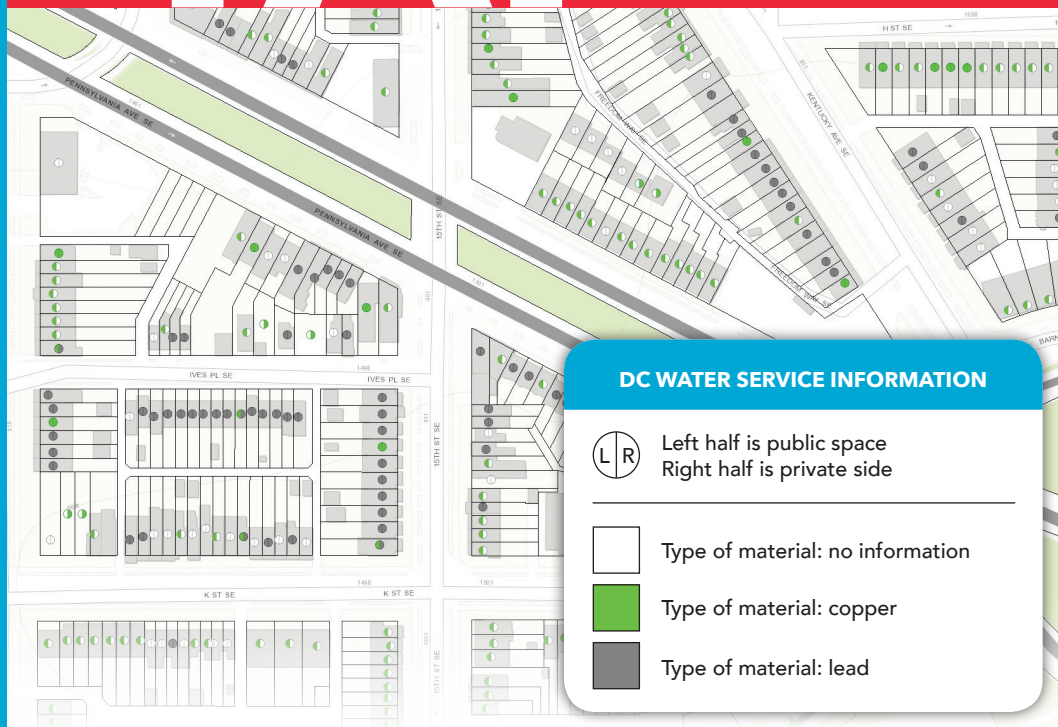
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# WHAT'S ON TAP



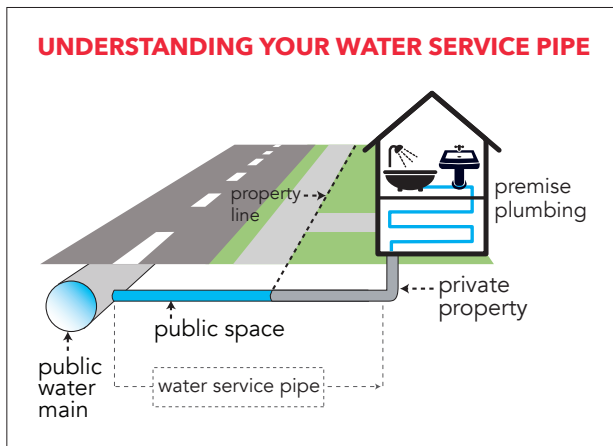
## DC Water Launches Interactive Map of Service Lines

DC Water recently launched an interactive map and online content designed to help property owners identify the material that makes up their water service lines, where that information is available. The new map allows customers to enter an address and see the information that DC Water has in its records about the service pipe material, in public space and on private property. The map is available at [dcwater.com/servicelines](http://dcwater.com/servicelines).

Several new web pages accompany the map, including an explanation of the service line connections and answers to FAQs. This is in addition to the robust information already on [dcwater.com](http://dcwater.com) regarding lead in water, how to identify lead service lines, requesting free testing and what residents should do if they have lead service lines or other lead sources in their premise plumbing.

Customers should note that the records are incomplete and in some cases the pipe material information is not available. Property owners are encouraged to contact DC Water if they have information on the material of their service line that is not reflected in DC Water's records. They are asked to send that information to: [leadtest@dcwater.com](mailto:leadtest@dcwater.com) and include pictures or any additional documentation they may have.

### UNDERSTANDING YOUR WATER SERVICE PIPE



## GENERAL MANAGER'S MESSAGE

Dear Customers:



I am pleased that DC Water has become one of the first water utilities in the nation to provide public records online that show service line material by address. Tests show that overall our lead levels are historically low. However, every property is unique and we want our customers to have easy access to all of the available information about their service lines, so they can make informed decisions to minimize their exposure to lead in water. DC Water will pay for the replacement of lead service lines in public space if property owners elect to replace their portion of the line located on private property.

Though water is lead-free when it leaves the Washington Aqueduct, lead can be released when the water comes in contact with pipes and plumbing fixtures that contain lead, usually in the service line or within the home. Lead sources and lead levels vary between buildings, so it is important to identify and remove any lead sources in each household. We encourage pregnant or nursing women and children under age six to use filtered tap water for drinking water and cooking until all lead sources are removed. Filters certified for lead removal are required to meet NSF Standard 53. For more information on lead in water, please visit [dcwater.com/lead](http://dcwater.com/lead).

*George S. Hawkins*

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## What's that stink in my sink?

Have you ever turned on your sink and gotten a whiff of something that smells foul? It is unlikely that your tap water is the source of the odor. More often, what you smell is debris in the U-shaped pipe under your sink. Over time, debris flows down the drain and collects in this pipe. This build-up can cause the foul odor that you smell when you run water into the pipe.

If you're not sure if the smell is coming from the water or your sink, there is a simple and easy way to find out. Fill a glass with water and walk into another room to smell the water in the glass. No smell? Then the odor is probably coming from the pipes under your sink. DC Water suggests that you pour bleach or a disinfectant down the drain to remove any debris and odor.

If the odor is still present in the water when you smell it from the other room or the odor persists, call DC Water's Drinking Water Division at 202-612-3440.



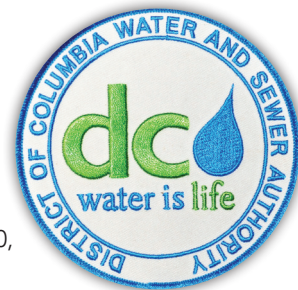
## There is no such thing as waste, only wasted resources

When wastewater comes into the Blue Plains Advanced Wastewater Treatment Plant, it is separated into liquids and solids, and both get cleaned through various processes. Throughout the wastewater's journey, solids are collected and sent to be sterilized at high pressure and heat, then anaerobically digested by microbes that help generate power. There is still a portion of solids left over at the end – clean Class A biosolids. DC Water has been giving away this nutrient-rich soil amendment, but now aims to create a product that can one day be bagged and sold in stores.

DC Water recently launched a pilot program to provide local partners with biosolids for blending or landscaping in exchange for information on how they optimize their production with the biosolids. One goal is to test different soil blends, and the partners will provide DC Water with periodic samples and give feedback on their experience using the biosolids. DC Water has already been composting its biosolids in recent years for use in the District, partnering with urban gardeners, government agencies and schools. DC Water introduced the pilot program and the name and logo of the new product, Bloom™, this spring.

## Be alert, be safe – ask for identification

Please be alert when someone comes to your door asking for entry to your property. From time to time, individuals may pose as a utility worker to gain access to your home. Customers should verify the identification of all utility employees coming to their homes. DC Water employees drive distinctively marked DC Water vehicles with DC municipal license plates, wear uniforms with DC Water logo patches and always carry a District of Columbia Water and Sewer Authority photo identification card. Anyone fearing for their safety should call 911. Additionally, you can call DC Water Customer Service at 202-354-3600, to report suspicious activities involving DC Water employees or impersonators.



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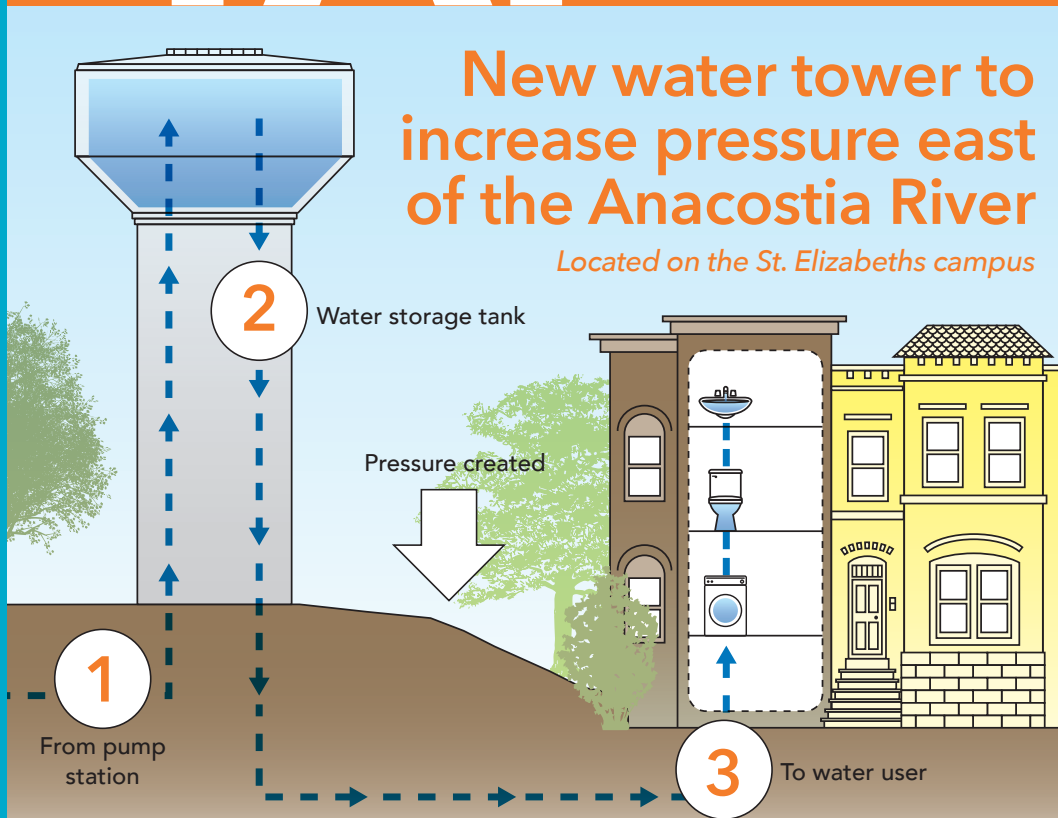
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# WHAT'S ON TAP



## New water tower to increase pressure east of the Anacostia River

*Located on the St. Elizabeths campus*

It has been more than 10 years in the planning and approval process, and now DC Water's St. Elizabeths water storage tower is moving forward with construction, scheduled for completion in 2018.

Some areas east of the Anacostia River have historically experienced low water pressure. Back in 2008, DC Water built a new water pumping station in Anacostia that was to combine with this water tower and its transmission mains to create a new water service zone (new pressure area) south of the Ft. Stanton area. While the pumping station was built, the water storage tower was delayed in approvals and permitting.

Creating a new pressure zone will improve fire protection, improve water pressure in homes and businesses, and provide a small amount of emergency water storage. The pumps in the pumping station can also move water in between pressure zones in an emergency.

Gravity helps water towers create pressure because the water falling from a height causes (hydrostatic) pressure that transmits through the pipes and pressurizes the entire zone. Pumps are turned on to maintain water

elevation in the tank to keep the system pressurized. Water can cycle through the towers several times per day.

For fighting fires, very high water volumes and flow rates are needed, and water towers can provide both. And in emergencies, the storage tank can still send water without electricity by simply emptying through gravity.

The new 160-foot-high storage tank at St. Elizabeths will store two million gallons of water. The tower and two transmission mains will cost about \$14 million and should be completed in 2018. Planning activities included locating an appropriate site and coordinating with nearly a dozen agencies for approvals or permits. These included the Federal Aviation Administration, District Department of Transportation, Historic Preservation Board, DC Mayor's Office, and Washington Metropolitan Area Transit Authority.

DC Water is currently accepting Statements of Qualifications from contractors, which will be evaluated. Those selected for the short list will be invited to enter a design competition to provide an aesthetically pleasing tower that fits within the community.

## GM'S MESSAGE

Dear Customers:



Earlier this year I accepted the US Water Prize on behalf of DC Water. Awarded by the US Water Alliance, the Prize recognizes organizations that lead the way with creative solutions in sustainability and integrated water resource management. We were selected for the Bailey Bioenergy Facility, our wastewater-to-energy project.

This accomplishment, and so many others at DC Water, is founded on pillars of success much like a four-legged stool. Each reinforced leg is critical on its own, yet only succeeds in concert with the other three.

Leadership for DC Water rests first with our Board of Directors which oversees the process on budgets and rates, reviewing all major procurement contracts and procedures, and ensuring performance. The Board courageously approved the \$470 million investment in this technology – new to North America. DC Water's strength starts with our Board, and I salute their commitment, depth of effort, and ultimately, their leadership and courage.

Second, I want to thank our staff. Our profession is at its best when confronted with what seems like an insurmountable problem. Just like we do on so many of the challenges we confront every day, our team rose to this challenge. I consider myself blessed to be part of what I call the "Super Bowl" team of water.

Third, I want to thank the people we serve. Without the support of our ratepayers, none of this work would be possible. We are very conscious that everything we do is supported by ratepayer funds and we work hard to earn their trust and support.

*...continued on back*





## Quick tips for better drinking water

A few simple tips can help ensure clean, fresh water every time you turn on the tap.



1. Flush cold taps for two minutes before using water for drinking and cooking when household water has not been used for several hours. When water sits in your pipes for long periods of time, water quality can decline.
2. Do not use hot tap water for drinking and cooking. Hot water may have metals, sediment and bacteria that build up in the water heater.
3. Routinely clean faucet strainers. Sediment and metals can collect in the aerator screen located at the tip of your faucets. Replace aerators that are in poor condition (available at local hardware stores).
4. Routinely replace filter cartridges to prevent any build up of bacteria and metals. Be sure to follow the manufacturer's instructions for filter replacement.
5. Drain your hot water heater annually (see below left).

*continued from page 1*

## GM's Message

Finally, I want to thank our colleagues in the water sector across the country – and the world. I have never been around a more dedicated group of public servants and am astonished and touched by the support we provide each other. In many respects, this award reflects the strength of the entire industry.

*George S. Hawkins*

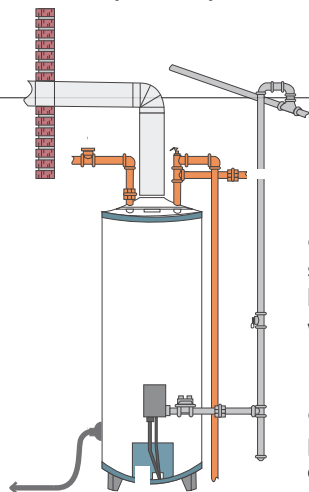
George S. Hawkins  
gmsuggestions@dcwater.com

## Help keep waterways healthy

People are drawn to water. Every summer, people run through Rock Creek Park, kayak along the Anacostia, and sail the Potomac. Residents and visitors stroll by the waterfront, bike along the C&O canal, have a picnic by the river, or just relax and take a break along the water. Local waterways are vitally important to the health and well-being of the city. You may not know it, but the District's tap water comes from the Potomac River.

It's important to protect these waterways so residents and visitors can continue to enjoy and use them in the future. There are simple things everyone can do that will help keep the waterways healthy. Some examples include:

- Place trash in wastebaskets or recycle if possible. During rains, trash on the ground can flow into storm drains which discharge to local waterways.
- Pick up after pets. When it rains, water flows over the waste and can wash bacteria into rivers and streams.
- Use native plants in landscaping and if you use fertilizer, use only as much as needed. Excess fertilizer runs off into waterways which leads to algal blooms. Native plants typically need little to no fertilizer to grow.
- Never flush unused medications down the toilet. These can pass through the wastewater system and end up in our local waterways. Visit **protectyourpipes.org** to learn how to properly dispose of medications.



## Drain your hot water heater annually

Ensuring quality tap water is a shared responsibility of DC Water and customers. Draining your household water heater is an important step for maintaining high water quality. Over time, sediment, bacteria and metals can build up in your water heater tank, impacting water quality and minimizing household water pressure.

DC Water recommends customers drain their water heater annually or more frequently if they experience discoloration or low water pressure from the hot water taps. For instructions, please see **dcwater.com/waterheater**



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30941-I-0075



# WHAT'S ON TAP

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NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 8

## Emergency planning makes a difference

Emergencies occur every day—and whether it is a burst pipe affecting one family, a water main break impacting a street, or a severe weather event affecting an entire region, there are steps that you can take now to better prepare.

DC Water's Office of Emergency Management prepares for emergencies in various ways:

- Creating Emergency Response Plans and Public Notification Plans
- Scheduling and creating training exercises
- Providing technology and support vehicles
- Developing relationships with other agencies and the critical response community

The Office of Emergency Management also coordinates responses bringing together personnel from many departments.

DC Water has a seat in the Mayor's Emergency Operations Center – a physical location that brings together representatives from District agencies, utilities and other public services in one large operations center to manage large-scale event responses. DC Water also has a 24-hour Emergency Command Center that responds to customer emergencies and

tracks the operations personnel in the field. This is the hub of communications, and its staff works with DC Water's technical experts in drinking water, infrastructure, management and communication.

If there is a DC Water incident that necessitates action by customers, the organization will communicate via all communication channels, including traditional media, social media, alert systems (for those who sign up) and sometimes with door-to-door notification or robocalls by phone.

If you have a water or sewer emergency, please call the 24-hour Command Center at 202-612-3400.

Please read this important issue of **What's on Tap** to find out how to locate your shut off valve, what to do in a drinking water shortage or outage and how to report suspicious activity.

Make plans now for your family's safety. Prepare a kit with the contents listed to the right. Plan for your family's communication or evacuation using tools available at [ready.gov/publications](http://ready.gov/publications).



## Basic Emergency Supply Kit

Recommended Items to Include in a Basic Emergency Supply Kit (from [ready.gov](http://ready.gov)):

- Water
- Food, at least a three-day supply of non-perishable food
- Battery-powered or hand crank radio and a NOAA Weather Radio with tone alert and extra batteries for both
- Flashlight and extra batteries
- First aid kit
- Whistle to signal for help
- Dust mask, to help filter contaminated air and plastic sheeting and duct tape to shelter-in-place
- Moist towelettes, garbage bags and plastic ties for personal sanitation

...continued on page 4





GENERAL MANAGER'S MESSAGE

Dear Customers:

Recent extreme weather events across the country and close to home remind us that some emergencies occur with little to no warning. Other times, we have hours or days to prepare. As we celebrate Preparedness Month this September, DC Water has created a special double issue of **What's on Tap** to remind customers how to prepare for an emergency. It gives an inside look at ways our organization trains and prepares for, and responds to, emergencies.

In the past year, DC Water implemented a full-scale exercise that included 22 representatives from outside agencies to practice the operations and coordination required during a water contamination event. In addition, DC Water's functional departments are each practicing relocation efforts that may be required by utilizing the Continuity of Operations Plan.

Regional partners have stepped up coordination during emergencies and enacted the National Capital Region's WARN system to help locate resources such as pipes, valves and specialized personnel, during local emergency situations.

Please remember that DC Water's Office of External Affairs, Command Center and Customer Service will work together and communicate through numerous channels to keep customers and the public informed.

Please read this issue to become better prepared should you find yourself in a water or sewer emergency.

*George S. Hawkins*

George S. Hawkins  
gmsuggestions@dcwater.com



Practice today for success tomorrow

At DC Water, an experienced and trained Incident Management Team (IMT) responds to emergencies. Within an hour of a serious incident, the team is notified and activated. Team members from all operations and support functions are trained, though a partial IMT activation might pull together just a segment of those. Twelve times in the last 12 months, a full IMT or partial team has activated to assist in managing an event or emergency.

DC Water follows the Incident Command System (ICS)—a system familiar to almost all first responders, public safety and health officials, many utilities and governmental agencies such as the CDC, EPA and FEMA. ICS gives a common structure, language and approach to incident management and response.

DC Water's personnel learn this system through in-house training, online certifications, off-site training at facilities such as FEMA's Emergency Management Institute and via on the job experience, beginning with smaller incidents.

Through the years, DC Water's staff have progressed through a series of exercises, beginning with discussion based trainings and advancing to functional exercises. This past year, DC Water activated a full IMT and engaged nine regional partners including water utilities in a full-scale functional exercise that lasted two days and tested the ability to produce a full incident action plan, develop

a communications plan, execute water sampling procedures, coordinate lab testing capabilities and explore in-house hydraulic modeling to enhance response capabilities. A **Washington Post** reporter even embedded in the exercise to better understand the processes for future reporting during an incident and wrote an article to raise awareness of ICS and emergency response.

This exercise was one of 20 trainings and exercises that DC Water facilitated for staff and partner agencies in the past year and the schedule for next year is just as full. The exercise objectives and scenarios are built to assist with solving resilience gaps that have been identified in after action reports following previous trainings, exercises and real life emergencies.

How to conserve water in a crisis

Water conservation is key when DC Water needs to preserve its stored water as long as possible. There could be a water outage due to a large water main break or pump station failure. Another event that could initiate a conservation advisory could be a contaminant in the water source, such as when a chemical spills into the Potomac River, causing the water supplier to close its intakes on the river.

There are various ways for customers to conserve water during an emergency. If you have water service, but are asked to conserve it:

In the bathroom:

- Turn the tap off while shaving or brushing teeth.
- Showers use less water than baths, but take short showers.
- Flush the toilet less often. In most cases, several uses can be made of the toilet for liquid wastes before flushing is required.
- Brush your teeth before shaving in the morning so the cold water in the supply line is used instead of being wasted while you wait for hot water with which to shave.
- Use disposable diapers to avoid a toilet flush when rinsing a dirty diaper and to cut down on the amount of soiled laundry to be washed.

In the kitchen:

- Plug up the sink or use a wash basin if washing dishes by hand. Better yet, use paper plates and plastic utensils.
- Keep a pitcher of drinking water in the refrigerator instead of letting the faucet run until the water is cool.
- Thaw food in the refrigerator overnight rather than using a running tap of hot water.
- Add food wastes to your compost pile instead of using the garbage disposal.
- Always use a brush, wash cloth, or your hand to dislodge particles of dirt when washing anything rather than relying on the force of the water to do the job.

- Clean vegetables in a pan filled with water rather than running water from the tap.
- Stock food that doesn't require cooking with water.

In the laundry room:

- Hold off on doing laundry until the incident is over.
- Outdoor:**
- No watering the lawn or landscaping.
  - No filling pools, spas or hot tubs.
  - No car washing.
  - Always use a broom to clean walkways, driveways, decks and porches, rather than hosing off these areas.
  - You may want to inspect your outside hoses and spigots to make sure none are leaking or left on.



How much water do I need to store?

It's an emergency! Numerous scenarios can make your tap water undrinkable or unusable—a severe weather event could damage or destroy water and sewer infrastructure. Or a contaminant coupled with a loss of pressure could cause concern of contamination. Residents should stay alert during a disaster and follow the directions of any drinking water advisories.

Residents should store enough water to last at least three days, and if possible, store enough

water to last two weeks. How much do you need to store for drinking, for toilet flushing and for other uses?



Drinking Water

For drinking, you should store a minimum of one gallon per person and per pet for each day. Keep your water in air-tight containers, at room temperature, and away from direct sunlight. Replace bottled water when it reaches the expiration date, or for non-store bought water, after six months. Use this water for drinking, cooking and brushing of teeth.



Hygiene

Remember, you likely won't have water to bathe or to wash dishes or do laundry. So, if you know in advance that the water shut-off or restrictions are coming, you can fill your bathtub, washtub, plastic tubs, large pots and pans and other containers with water to use for toilet flushing or for a quick sponge bath. Those who live in hurricane-prone areas are familiar with the practice of filling their bathtubs with water when a hurricane is projected for landfall.



Toilet Flushing

When you're in an situation where your water is restricted or shut off, here are some tips to keep your toilet flowing.

- Flush your toilet with a bucket of water. It requires a gallon of water, poured directly into the toilet bowl.
- Start slowly at first, then quickly add the rest of the water into the bowl. The shape of the toilet and the pressure from the water in the bucket pushes everything through the pipes.

- There's no need to use the handle or empty the toilet tank. Save the water in the tank for another day of water restrictions.
- If it's yellow, let it mellow. If it's brown, flush it down.

How much water in total do I need?

1 gallon for drinking + 2 gallons for hygiene/flushing = 3 gallons per person per day; 9 gallons per person for 72 hours; and 42 gallons per person for 2 weeks. If necessary, you can use the water in your water heater for toilet flushing.





## Sign up for emergency alerts

### DC Water Alerts

Sign up for DC Water's alert system to be notified of outages and repairs:

**[dcwater.com/signup](http://dcwater.com/signup)**

Sign up for DC Water news and press releases:

**[dcwater.com/signup](http://dcwater.com/signup)**

### District of Columbia's Government Alerts:

AlertDC is the official District of Columbia communications system that sends alerts, notifications, and updates from public safety officials and the emergency manager. Learn about traffic conditions, government closures, public safety incidents and severe weather. To get started today, visit **[hsema.dc.gov/page/alertdc](http://hsema.dc.gov/page/alertdc)**

### Critical Customers Database

Does your property protect the public's health or safety? Or protect the environment? Or service a susceptible population in the Authority's service area?

If so, your property may be a candidate for notifications through DC Water's mass notification system, Everbridge. Everbridge allows for multimodal messaging from the Authority to critical customers during an incident.

To be considered for placement in the critical customer database, please complete the online critical customer survey to help determine if your facility qualifies.

## Find your emergency shut-off valve

When there is a water emergency, like a burst pipe or leaking plumbing, you may need to quickly shut off the water supply to your house. Here's how:

- Look for the main valve where the water supply enters your house (usually in the basement) or in a concrete box near the street.
- If the valve is outside your house, lift the cover with a large screwdriver.
- Then, use a pipe or crescent wrench to turn off the water.
- If you must evacuate when the weather is cold, then drain all water from the system, including your hot water heater.
- Find your valve now so you don't have to look for it when you need it. Paint it with fluorescent paint or apply fluorescent tape so you can find it in the dark.

## If you see something, say something

if you  
**SEE** something | **SAY** something™

We are all familiar with the campaign to motivate bystanders to report suspicious activity. That applies to the District's water system as well. If you see something unusual, for instance someone hooking up to a fire hydrant, or tampering with a fire hydrant, or behaving oddly around a pump station, report it. You can call 911 or DC Water's 24-hour Command Center at 202-612-3400.

DC Water employs a robust Security force that keeps many buildings secure and can respond to calls of suspicious behavior.

*continued from page 1*

### Basic Emergency Supply Kit



- Wrench or pliers to turn off utilities
- Manual can opener for food (if kit contains canned food)
- Feminine products
- Local map
- Additional items can be found at **[ready.gov](http://ready.gov)**

Source: [http://www.fema.gov/media-library-data/1390846764394-dc08e309debe561d866b05ac84daf1ee/checklist\\_2014.pdf](http://www.fema.gov/media-library-data/1390846764394-dc08e309debe561d866b05ac84daf1ee/checklist_2014.pdf)



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30941-I-0076

# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 9



## Family Water Festival

More than 500 residents and visitors enjoyed DC Water's first Family Water Festival, a free, outdoor family-friendly celebration to commemorate the near-completion of the First Street Tunnel Project. It was hosted at the historic and elegant Bryant Street Water Pumping Station, with a special invitation to Bloomingdale and LeDroit Park residents whose neighborhoods have been impacted by persistent flooding conditions, and more recently construction of the tunnel as a medium-term solution to help address this issue.

DC Water provided interactive games and learning stations aimed to educate children and adults about water resources and promote environmental stewardship. In partnership with DC Department of Parks and Recreation, the festival featured an array of popular outdoor games and activities for children, including Skate Mobile, Fun Wagon and life-sized checkers and chess games. A number of food vendors and entertainment were also present. Visitors toured the Bryant Street Pumping Station and learned how the water distribution system in Washington, D.C. functions. They were able to see relics from the 19th and 20th century water system in the pump station's small-scale museum. Here, old fountains, hydrants and water mains, some of which are more than 100 years old, are available to view and touch.

DC Water participates in numerous street festivals and outreach events, and hosts tours of its facilities. The Family Water Festival is an extension of DC Water's year-round outreach and education program. Contact the Office of External Affairs at (202) 787-2200 for more information.

## DC Water launches DC Water Works

DC Water unveiled its new, comprehensive local jobs program with a goal to increase the number of local residents hired by DC Water contractors. The program includes a job referral process where DC Water will inquire with local agencies for "ready to work" employees for contractor jobs. DC Water will also work with District agencies for skills training and placement programs to prepare District residents for the types of jobs that are frequently sought after on DC Water projects.



DC Water Works will be the "first source" for referral of candidates for all new jobs covered under this program. The expectation is to identify "ready to employ" individuals to meet the immediate hiring needs of DC Water's contractors. DC Water also will require that contractors with a large DC Water contract participate in an apprenticeship program registered with its home State Apprenticeship Agency or the District of Columbia Apprenticeship Registration Agency, and maintain the District's 3:1 journeyman to apprenticeship ratio.

...continued on back

## GM'S MESSAGE

Dear Customers:

This issue of *What's on Tap* describes the launch of our DC Water Works program, a local jobs initiative on which we embarked several years ago to require contractors with large projects to hire locally when possible, with a goal of 51 percent local hires.



Over the last several years, we sought input from the community and set out to build the program. In all, we held more than 25 stakeholder meetings to identify the needs of the community and formulate the parameters of this program. The project itself was a bit of trial and error as we learned to partner with third party organizations whose primary focus is job placement and skills training.

Coinciding with this development, we also partnered with the Water Environment Federation to develop a National Green Infrastructure Certification Program. To be housed within the WEF Stormwater Institute, this program will certify individuals who install, inspect, and maintain green infrastructure systems and is designed for non-college-graduates. The curriculum has been developed and the first participants are enrolling this fall, with a projected graduation in January 2017. I am pleased that DC Water is able to find innovative ways to train and hire locally and we look forward to more progress on this front. This is parallel to our conviction that we should do our best to return benefits to the communities and ratepayers that pay for and support our services.

*George S. Hawkins*

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## Don't let this guy ruin your holidays!



Holiday cooking can lead to big problems when people pour grease and oil down the sink. Fats, oils and grease—also known as FOG—can lead to a sewage blockage or a sewer backup, causing property damage, environmental problems, and other health hazards.

FOG gets into the sewers from residential and commercial kitchens. It sticks to the inside of storm and sewer pipes on both private property and in public space. Over time, this builds up and eventually blocks the pipe, causing sewage backups and overflows. Clogged sewers can lead to overflows into the street where the sewage eventually enters the storm drain system. At that point, the overflow may be carried to local waterways, creating health risks for people and marine life.

What should you do instead? Pour grease and oil into a can with a lid. You can store it in your refrigerator and throw it out in the garbage when it is filled. For additional information, please call DC Water's Sewer Services Department at (202) 264-3820. To report a sewer emergency, please call DC Water's 24-hour Command Center at (202) 612-3400.

## Help a Family in Need—Give to SPLASH

This time of year, people think about giving to those who are in financial hardship. At DC Water, we encourage gifts to SPLASH (Serving People by Lending a Supportive Hand) to help families maintain their most critical of all services—water and sewer. SPLASH is an emergency fund to help those struck with an immediate, temporary need and who would otherwise have their service turned off.

The good news is that giving is easy. Customers can use the Round Up feature when they pay their bill by check through the mail, adding the nearest dollar or \$2. They also have the option of donating above the amount. Non-customers can donate by making a check payable to DC Water SPLASH program and mailing it to 5000 Overlook Avenue, SW, Washington, DC 20032, 4th Floor.

Qualifying customers may also be able to take part in a program that provides a discount on both water and sewer services. Contact the District Department of Energy and the Environment (DOEE) at (202) 673-6700 to apply for that program.

Many DC Water employees have given passionately to the SPLASH fund for years. Please join us in helping District customers keep their water on.



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## Celebrating the value of water

On September 15th, more than 500 organizations and thousands of people across the country came together to engage the public about how critical – yet undervalued—our nation's water systems are. Every American relies on water and sewer systems every single day and the "Imagine A Day Without Water" Campaign tries to drive that message home.

This year DC Water's goal was to create a humorous, educational, and impactful video to share on our social platforms Twitter and Facebook. We filmed a routine activity that most of us do every day, at a local establishment. Our strategy for the video was a morning gone wrong. The patron walked in to order coffee and sat down to enjoy it while checking morning emails. A normal start to a day he thought, only to discover after the first sip the cup was filled with coffee grains; the state of coffee without the all important ingredient—water. Thanks to Dolcezza Gelato and Coffee in City Center, for hosting the filming of the video.

More than 3,000 people watched the video and it was one of our top 10 engaging posts. We look forward to doing it again in 2017. You can see the video on our DC Water YouTube channel. #Valuewater



**Imagine a Day Without Water**  
September 15, 2016

*continued from page 1*

## DC Water Works

These programs come in addition to other local hiring initiatives DC Water has supported, including short-term, summer and internship opportunities that for some candidates, turn short-term employment into a career as a DC Water employee.



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30941-I-0078

# WHAT'S ON TAP



NEWS FOR DC WATER CUSTOMERS • VOLUME 17 ISSUE 10

## Major meter replacement project to begin in early 2017

### GM'S MESSAGE

Dear Customers:

Now is the time of year that we think about celebrating with family and reflecting on our blessings. Some families, though, are struggling. Some are just trying to make ends meet to pay for basics, like their water bills.



Please consider giving to DC Water's SPLASH customer assistance program. SPLASH – short for Serving People by Lending A Supporting Hand – makes the difference for numerous families each year who are about to lose their service because they can't pay their bill. The program is administered by the Greater Washington Urban League and DC Water covers the administrative costs so that every dollar received is distributed to eligible customers.

I am proud to say that DC Water employees raised \$21,801 for SPLASH this past fiscal year and concerned members of the public added \$77,635, for a total of \$99,436. I hope you will join them. Donations can be made by checking the box directly on your bill or you may send a check to the address on the back of this newsletter. Your gift could make a huge difference for a family in need.

*George S. Hawkins*

George S. Hawkins  
gmsuggestions@dcwater.com

In 2002, DC Water was ahead of the curve, installing automated meters throughout the District. The meters use state-of-the-art technology to upload water usage data twice daily to DC Water, enabling a host of online customer services such as usage monitoring and the High Usage Notification Application (HUNA) that sends out alerts when usage spikes for a number of consecutive days.

Since then, the meters have aged, which may require the water bill to be estimated versus receiving an actual monthly reading. DC Water will launch a program in the coming months to replace approximately 88,000 small diameter meters, mostly residential and small multi-family housing.

The new meters will have even better capabilities compared to the last generation and will provide benefits that promote timely and accurate monthly bills for our customers. Though the process is usually straightforward with the old meter being disconnected and the new meter being reconnected, there may be some inconveniences if the water meter is located on the inside or not easily accessible from the outside.

...continued on back

## Winter weather brings water main breaks

Falling temperatures cause water main breaks. Expansion and contraction of pipe material and the difference in temperature of the ground and the water running through the pipe can contribute to water main breaks, creating unexpected problems for customers and motorists. Often, the most number of water main breaks are seen after repeated cold and warm spells.

DC Water averages about 400 water main breaks per year and most occur in the winter. To prepare for the season, the Authority proactively schedules more stand-by crews in the winter, and cross-trains sewer staff to also make water main repairs. When multiple breaks occur, repairs are prioritized based on the severity of the break, impact to customers and the environment, potential damage to public and private property, and traffic conditions.

When emergency water main breaks cause widespread service disruptions, they become critical repairs. In general, it takes six to eight hours to repair a small-diameter water main if all the necessary parts are on hand and there are no complications.

...continued on back







# Let's Talk About Water

DC Water wants you to be confident that you are drinking clean, safe water when you turn on the tap. That's why DC Water feels it is important to talk to ratepayers about their water and how the materials in plumbing and pipes can impact drinking water quality. If you live in a home that is connected to a lead service line or have interior fixtures or plumbing that contain lead, you should learn how lead can affect your water, how you can get your water tested, and simple steps you can take to minimize your exposure to lead.

There is a great deal of information available online at [dcwater.com/lead](http://dcwater.com/lead), but if you have questions and concerns, DC Water will help. DC Water outreach staff present to community members during civic association meetings, ANC meetings, and other types of community meetings about water quality and lead in drinking water. If you are interested in having someone speak to your community group, you can call **Melanie Mason** at **(202) 787-2241** or email [melanie.mason@dcwater.com](mailto:melanie.mason@dcwater.com). It's just one more way DC Water aims to instill customer confidence in the District's drinking water.

## continued from page 1 Water main break season

Please report water running from streets or sidewalks that might indicate a main break. Call DC Water's 24-hour Command Center at **(202) 612-3400**, report it on [dcwater.com](http://dcwater.com), or tweet [@dcwater](https://twitter.com/dcwater) with a picture and location. Please be specific about the location and appearance. For listings of current repairs, please visit the home page and click on the location under "In Your Neighborhood."

### DAY OF SERVICE

## Annual Martin Luther King Jr. Day Pope Branch Park Clean-Up

**Monday, January 16, 2016 • 9:00 a.m.**

Anyone interested in volunteering for this clean up event please contact **Josh Burch** at the District Department of Energy and Environment at [josh.burch@dc.gov](mailto:josh.burch@dc.gov) or **(202) 535-2247**. The group will meet at the corner of Fairlawn Avenue and M Place, SE, Washington, D.C.

## Protect your pipes in winter

Cold weather can cause household pipes to freeze or break. Water expands as it freezes, creating tremendous pressure on the pipe. To avoid the inconvenience and costly repair of frozen water pipes, DC Water urges customers to take the following precautions:

- Wrap or insulate exposed pipes.
- Disconnect and drain garden hoses and other outdoor water fixtures.
- Seal cold air leaks in walls, windows and doors that allow cold air near your pipes.
- Open cabinet doors, especially if pipes are located against exterior walls, to allow heat to get to uninsulated pipes.
- If you plan to be away for an extended period of time, keep your thermostat set to above 55 degrees and drain and shut off the water supply.
- Know where the main shut-off valve is located, in case your pipes burst.
- Never attempt to thaw a pipe using a torch or open flame.



continued from page 1

## Meter replacement

Please stay tuned as we plan to provide you with more information in your future bills. If you have questions about the meter replacement program, please visit [dcwater.com/newmeter](http://dcwater.com/newmeter) or call **(202) 354-3600**.



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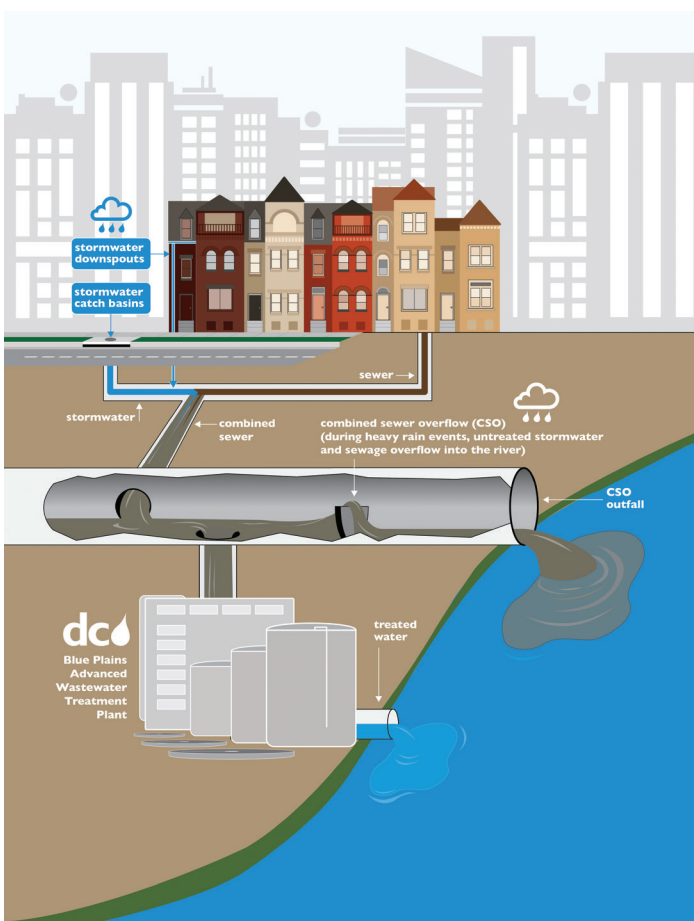
## **APPENDIX 9-3**

### **Informational Bulletin**



## What is a Combined Sewer?

A combined sewer is a single pipe that carries both sanitary wastewater and stormwater runoff. Many older cities in the United States are served by combined sewers. In the District, the combined sewer system was designed and built by the U.S. Army Corps of Engineers. Modern practice is to build two pipes in the street—one for stormwater runoff, and one for wastewater from homes and businesses.



## What is a CSO and why does it occur?

A CSO is a combined sewer overflow. During dry weather, sewage from homes and businesses is conveyed to the District's wastewater treatment plant at Blue Plains, where the wastewater is treated to remove pollutants before being discharged to the Potomac River. During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, a dilute mixture of wastewater and stormwater runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. The Federal Clean Water Act allows CSOs, but the Environmental Protection Agency (EPA) requires communities to develop a plan to address overflows. There are 53 CSO outfalls listed in DC Water's existing discharge permit from the EPA.

## When do CSOs occur?

CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 75 times annually, spilling nearly 1.5 billion gallons into the Anacostia and 850 million gallons into the Potomac. Rock Creek averages 30 CSO events and 52 million gallons of overflow a year.

## Where are CSO Outfalls?

There are 10 CSO outfall locations on the Potomac River, 15 on the Anacostia River and 28 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

## What are the possible public health impacts of CSOs?

CSOs may pose a danger to the public because of the rapid flow of water exiting the outfalls and the potentially harmful substances it may contain. The public is advised to stay away from any sewer pipe discharge. CSOs could affect the receiving waters for up to 24 hours during small rainstorms and for up to three days when it rains one inch or more.

## What are the environmental impacts of CSOs?

CSOs can adversely affect the quality of rivers and streams by contributing to high bacterial levels and low dissolved oxygen levels, which are harmful to fish and other aquatic life.

## What is a Dry Weather Overflow (DWO)?

In dry weather, sanitary wastewater normally flows to the Blue Plains Advanced Wastewater Treatment Plant through pipes with regulators. During wet weather, regulators are designed to let the excess flow discharge directly to a river or creek. If regulators become blocked by debris or trash, wastewater can also overflow during dry weather. This is called a dry weather overflow (DWO). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. If you see a CSO outfall discharging during dry weather, call DC Water at (202) 612-3400.

## Where can you get more information?

You can learn more by visiting DC Water's website at [dcwater.com/cleanrivers](http://dcwater.com/cleanrivers). You may also contact DC Water's Office of External Affairs at (202) 787-2200.

The complete text of the Long Term Control Plan for Combined Sewer Overflows can also be found at the following public libraries: Capitol View, Mount Pleasant, Northeast, Woodridge, Southeast, Shepherd Park, Tenley-Friendship and Washington Highlands.



## Section 10 Monitoring

### 10.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are as follows:

- Operate and maintain the SCADA system that monitors activation of selected CSO outfalls.
- Monitor and record debris removed by the Anacostia River Floatable Debris Removal Program.
- Monitor and record flow, screenings removal and disinfection at the Northeast Boundary (NEB) Swirl Facility.
- Monitor and record demonstration floatables removal at the end of pipe netting system at CSO 018 and the bar rack CSO 040 and 041.
- Monitor and record rainfall at a minimum of four (4) locations in the CSS.
- Report the number, volume and average duration of overflows for each active CSO outfall. The information shall be prepared using the latest model of the CSS, based on the measured storm event data and the operation of the inflatable dams for the previous calendar year.
- Monitor and record the condition of the bar racks at the Main and O Street Pumping Stations storm, CSO pumps to assess their ability to trap floatables.

### 10.2 SCADA SYSTEM – INFLATABLE DAM MONITORING

In accordance with the Three Party Consent Decree, the inflatable dams were placed in operation by March 29, 2004. The SCADA system monitors the occurrence and approximate duration of overflow at the inflatable dam sites. The SCADA system monitored the occurrence and approximate duration of overflows at these locations after the dams were placed in operation. This information is summarized in DC Water's quarterly operations report for the combined sewer system to EPA. The data is summarized in Appendix 10-1.

### 10.3 CONDITION OF BAR RACKS AT MAIN AND O STREET PUMPING STATIONS

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations in order to characterize the quantity and nature of the floatable discharged. Condition surveys conducted for the reporting period are presented in Appendix 10-2.

## 10.4 ANACOSTIA RIVER FLOATING DEBRIS REMOVAL PROGRAM

A description of this program and the quantity of materials removed is summarized in Section 7 of this report.

## 10.5 NORTHEAST BOUNDARY SWIRL FACILITY

Monthly monitoring data (flow, screenings removal and disinfection) is included in Appendix 10-3.

## 10.6 BMP DEMONSTRATION FLOATABLES REMOVAL

The BMP floatables demonstration project monitors the quantity of floatable material captured by the netting system at CSO 018 and the bar racks at CSO 040 and CSO 041. Monthly monitoring data is included in Section 7 of this report.

## 10.7 RAINFALL GAGES

DC Water maintains rainfall gages at four locations within the CSS. This monitoring is performed at the Brentwood Reservoir, the Bryant Street Pumping Station, the Main Pumping Station and the Rock Creek Pumping Station. Data from these gages are recorded daily and is reported in the DSS monthly operations reports. Monthly totals are presented in Table 10-1.

**Table 10-1**  
**Monthly Rain Gage Totals – 2016**

Date	Monthly Rain Totals in inches			
	Brentwood Reservoir	Bryant St Pumping Station	Main Pumping Station	Rock Creek Pumping Station
Jan	1.33	1.47	1.45	1.32
Feb	3.90	4.22	3.46	3.54
Mar	1.05	1.30	1.15	0.94
Apr	1.94	2.14	1.65	1.95
May	5.04	5.22	5.61	5.22
Jun	3.29	3.37	3.02	3.87
Jul	4.59	4.16	4.08	4.19
Aug	2.54	2.43	2.18	3.55
Sep	2.65	2.49	2.32	2.75
Oct	0.71	0.61	0.91	0.75
Nov	0.94	1.07	0.71	1.06
Dec	2.67	2.25	2.46	2.28
<b>Total</b>	<b>30.65</b>	<b>30.73</b>	<b>29.00</b>	<b>31.42</b>

## 10.8 CSO OVERFLOW MODEL PREDICTIONS

A computer model of the CSS was developed and calibrated as part of the preparation of the LTCP. The model is the Danish Hydraulic Institute's MIKE URBAN Model. The model is updated to reflect changes in the sewer system. In accordance with the permit, the model is run quarterly to



make predictions of actual overflows to the receiving water in the prior calendar quarter. Quarterly model results for 2016 are included in Appendix 10-4.

Based on the model results, the total overflow volume for 2016 is summarized in Table 10-2:

**Table 10-2**  
**Predicted CSO Overflow Volume for 2016**

	<i>Predicted CSO Overflow Volume in 2016 (mg)</i>				
	<i>Quarter 1</i>	<i>Quarter 2</i>	<i>Quarter 3</i>	<i>Quarter 4</i>	<i>Total</i>
Anacostia River CSOs	136	236	246	37	655
Potomac River CSOs	50	145	161	21	377
Rock Creek CSOs	6	8	14	1	29
<b>Total</b>	<b>191</b>	<b>390</b>	<b>421</b>	<b>59</b>	<b>1,060</b>



## **APPENDIX 10-1**

### **SCADA System – Inflatable Dam Monitoring**



**Inflatable Dams & SCADA Sites - Wet Weather Operations  
January 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>None</i>	<i>N/A</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>None</i>	<i>N/A</i>
34	<i>None</i>	<i>N/A</i>
35	<i>None</i>	<i>N/A</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
February 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>02/24/16</i>	<i>51 mins</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>02/03/16</i>	<i>15 mins</i>
	<i>02/16/16</i>	<i>1 min</i>
	<i>02/24/16</i>	<i>13 mins</i>
34	<i>02/24/16</i>	<i>1 hr 19 mins</i>
35	<i>02/03/16</i>	<i>2 mins</i>
	<i>02/16/16</i>	<i>9 mins</i>
	<i>02/23/16</i>	<i>2 mins</i>
	<i>02/24/16</i>	<i>50 mins</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Inflatable Dams & SCADA Sites - Wet Weather Operations**  
**March 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>None</i>	<i>N/A</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>None</i>	<i>N/A</i>
34	<i>None</i>	<i>N/A</i>
35	<i>None</i>	<i>N/A</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Inflatable Dams & SCADA Sites - Wet Weather Operations**  
**April 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>04/07/16</i>	<i>1hr 53mins</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>04/07/16</i>	<i>14 mins</i>
34	<i>None</i>	<i>N/A</i>
35	<i>04/07/16</i>	<i>1 min</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible



**Inflatable Dams & SCADA Sites - Wet Weather Operations  
May 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	05/02/16 05/06/16 05/21/16 05/29/16	1hr 53 mins 3 hrs 6 mins 1 hr 5 mins 1hr 24 mins
16 (E & W)	<i>None</i>	<i>N/A</i>
24	05/02/16 05/29/16	10 mins 4 mins
34	<i>None</i>	<i>N/A</i>
35	05/02/16	23 mins
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	<i>None</i>	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	<i>None</i>	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	<i>None</i>	<i>None</i>
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
June 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	None	N/A
15	06/21/16 06/28/16	1 hr 35mins 54 mins
15A	06/16/16- 06/17/16 06/21/16 06/23/16 06/28/16	10 hrs 12 mins 2 hrs 6 hrs 30 mins 2 hrs 58 mins
16 (E & W)	None	N/A
24	06/16/16 06/21/16 06/28/16	9 mins 20 mins 9 mins
34	None	N/A
35	06/16/16 <sup>1</sup> 06/21/16 <sup>1</sup> 06/21/16 06/28/16 <sup>2</sup>	1 hr 25 mins 45 mins 36 mins 22 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Notes:**

1. During structure 35 malfunction.
2. Overflow occurred during malfunction of Pump #5 due to contractor work on Pump #4 motor starter upgrades.

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
July 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	7/19/16 7/20/16	24 mins (est) <sup>1</sup> 1 hr 22 mins (est) <sup>1</sup>
15	7/19/16 7/20/16 7/29/16	4 mins 56 mins 49 mins
15A	7/18/16 7/19/16 7/20/16 7/29/16 7/30/16	3 hrs 33 mins 4 mins 2 hrs 56 mins 3 hrs 25 mins 16 mins
16 (E & W)	7/19/16 7/20/16 7/29/16	24 mins (est) <sup>1</sup> 1 hr 22 mins (est) <sup>1</sup> 35 mins
24	7/18/16 7/19/16 7/20/16 7/28/16 7/29/16 7/31/16	24 mins 37 mins 1 hr 20 mins (est) <sup>2</sup> 55 mins 1 hr 34 mins 6 mins
34	7/19/16 7/20/16	4 mins 30 mins
35	7/19/16 7/20/16 7/28/16 7/29/16	23 mins 1 hr 10 mins 24 mins 39 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
<b>Outfall Structure 2</b>	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open

**Notes:**

1. Unable to determine duration of potential overflow during overnight storm on 7/19/16-7/20/16 due to power and communications loss at structures 14 and 16. See letter sent to EPA dated 07/25/16 describing the event.
2. Unable to determine duration of overflow during overnight storm on 7/19/16-7/20/16 due to level sensor damage at structure 24. See letter sent to EPA dated 07/25/16 describing the event.

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
August 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	08/17/16	14 mins
15A	08/15/16	2 hrs 41 mins
	08/16/16	1 hr 6 mins
	08/17/16	2 hrs 12 mins
	08/18/16	10 mins
	08/21/16	2 hrs 1 min
16 (E & W)	08/15/16	47 mins
	08/17/16	39 mins
24	08/15/16	1 hr 6 mins
	08/17/16	1 hr 9 mins
	08/21/16	45 mins
34	08/15/16	1 hr 17 mins
	08/17/16	38 mins
35	08/15/16	2 hr 16 mins
	08/17/16	55 mins
	08/21/16	57 mins
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
September 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>09/29/16</i>	<i>3 hrs 55 mins</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>09/29/16 09/30/16</i>	<i>1 hr 25 mins 10 mins</i>
34	<i>None</i>	<i>N/A</i>
35	<i>09/28/16 09/29/16</i>	<i>7 mins 1 hr 59 mins</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open

**Inflatable Dams & SCADA Sites - Wet Weather Operations**  
**October 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	10/21/16	2hrs 5mins <sup>1</sup>
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	None	N/A
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
November 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>None</i>	<i>N/A</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>11/30/16</i>	<i>48 mins</i>
34	<i>None</i>	<i>N/A</i>
35	<i>11/30/16</i>	<i>1 hr 12 mins</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible

**Inflatable Dams & SCADA Sites - Wet Weather Operations  
December 2016**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>12/06/16</i>	<i>4 hrs 44 mins</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>12/06/16</i>	<i>1 hr 5 mins</i>
34	<i>None</i>	<i>N/A</i>
35	<i>None</i>	<i>N/A</i>
52	<i>None</i>	<i>N/A</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No.1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible



## **APPENDIX 10-2**

### **Condition Report for Bar Racks at Main & O Street Pumping Stations**



**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 1/1/2016

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	01/01/2016	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	01/01/2016	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 2/1/2016

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	2/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	2/1	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 3/1/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	3/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	3/1	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 4/1/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	4/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	4/1	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 5/1/15

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	5/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	5/1	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 6/1/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	6/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	6/1	X			



**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 7/14/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	7/14	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	7/14	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Wayne Reed

Date Inspected: 8/11/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WR	8/11		X	Cleaning	Performed on 08/11/2016
Bar Racks at Main Storm Pumps (CSO 011)	WR	8/11	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Keith Watts and Tom Degnan

Date Inspected: 9/1 & 9/20/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	TD	9/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	9/20	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Keith Watts

Date Inspected: 10/15/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	KW	10/15	X			
Bar Racks at Main Storm Pumps (CSO 011)	KW	10/15	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Keith Watts

Date Inspected: 11/13/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	KW	11/13	X			
Bar Racks at Main Storm Pumps (CSO 011)	KW	11/13	X			

**Condition Report Bar Racks at Main and O Street Storm Pumps**

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Keith Watts

Date Inspected: 12/24/16

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	KW	12/24	X			
Bar Racks at Main Storm Pumps (CSO 011)	KW	12/24	X			

## **Appendix 10-3**

### **Northeast Boundary Swirl Facility Monitoring Data**





**Northeast Boundary Swirl Facility – Wet Weather Operations-January 2016**

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
01/10/16	7	19.44	5.08	14.36	64

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.
3. One Bin = 80 ft<sup>3</sup>

**Northeast Boundary Swirl Facility – Wet Weather Operations-February 2016**

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
02/01/16	6	4.15	2.15	2.00	48
02/03/16	12	11.59	5.73	5.86	80
02/16/16	6.5	33.47	5.28	28.19	88
02/23/16	10	5.99	5.70	0.29	36
02/24/16 - 02/25/16	14	23.17	7.92	15.25	80 <sup>3</sup>

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due to malfunction of ESIRS meter.

**Northeast Boundary Swirl Facility – Wet Weather Operations-March 2016**

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
03/14/16	4.4	4.7	4.37	0.33	26
03/28/16	7	0.39	0.39	0	72

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due to malfunction of ESIRS meter.

**Northeast Boundary Swirl Facility – Wet Weather Operations-April 2016**

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
04/07/16	4.5	17.49	7.38	10.11	72
04/23/16	1	0.29	0.29	0	40
04/28/16	5	8.49	4.50	3.99	36

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due to malfunction of ESIRS meter.

### Northeast Boundary Swirl Facility – Wet Weather Operations-May 2016

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
05/01/16	6	3.01	3.01	0	52
05/02/16 – 05/03/16	8.5	16.41	5.07	11.34	72
05/06/16	12.5	19.67	5.92	13.76	168
05/17/16	6.5	1.16	1.16	0	36
05/21/16	6	11.19	4.25	6.94	48
05/29/16 – 05/30/16	7	13.64	5.60	8.03	48

**Note:**

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due malfunction of ESIRS meter.

### Northeast Boundary Swirl Facility – Wet Weather Operations-June 2016

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
06/03/16	7	8.15 <sup>3</sup>	4.32	3.83	40
06/16/16 – 06/17/16	13	16.94 <sup>3</sup>	6.26	9.72	56
06/21/16	8	15.62	5.79	9.83	96
06/23/16	6.5	12.69	4.65	8.04	76 <sup>2</sup>
06/28/16 AM	3.5	2.47	2.47	0	80
06/28/16 – 06/29/16	5	8.02	6.04	1.99	60

**Note:**

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due malfunction of ESIRS meter.

### Northeast Boundary Swirl Facility – Wet Weather Operations-July 2016

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
07/01/16	3.5	6.64	4.25	2.39	120
07/04/16	5.6	3.88	3.55	0.33	96
07/05/16	7.5	6.84	5.98	0.86	96
07/18/16	4.3	5.00	3.98	1.03	56
07/20/16	2	20.0 <sup>2</sup>	10.54	14.0 <sup>2</sup>	56
07/28/16	6	6.22	3.52	2.70	32
07/29/16	6	17.14	6.12	11.02	24
07/30/16	3.6	7.11	4.83	2.28	48
07/31/16	4.4	7.92	5.21	2.71	28

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due malfunction of ESIRS meter.

### Northeast Boundary Swirl Facility – Wet Weather Operations-August 2016

<i>Date</i>	<i>Approx. Storm Duration<sup>1</sup> (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume<sup>2</sup> (mg)</i>	<i>Approx. Screenings Volume<sup>3</sup> # of bins (cu ft)</i>
08/15/16	4	15.92	2.96	12.96	40
08/16/16 <sup>2</sup>	4	2.15	2.0	0.15 <sup>3</sup>	16
08/17/16	2.5	4.43	2.50	1.93	76
08/18/16	4	1.75	1.75	0	48
08/21/16	6	9.59	4.64	4.95	156

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due malfunction of ESIRS meter.

### Northeast Boundary Swirl Facility – Wet Weather Operations-September 2016

<i>Date</i>	<i>Approx. Storm Duration1 (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume2 (mg)</i>	<i>Approx. Screenings Volume3 # of bins (cu ft)</i>
09/19/16	6	2.09	2.09	0	12
09/27/16	3	3.00	2.73	0.27 <sup>3</sup>	56
09/28/16 <sup>2</sup>	12	2.79	0	2.79	16
09/29/16 <sup>2</sup>	16	24.92	0	24.92	28
09/30/16 <sup>2</sup>	24	15.64	0	15.64	52

**Note:**

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due malfunction of ESIRS meter.

### Northeast Boundary Swirl Facility – Wet Weather Operations-October 2016

<i>Date</i>	<i>Approx. Storm Duration1 (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume2 (mg)</i>	<i>Approx. Screenings Volume3 # of bins (cu ft)</i>
10/01/16 <sup>2</sup>	24 <sup>3</sup>	9.5	0	9.5	8
10/02/16 <sup>2</sup>	18.8 <sup>3</sup>	0.03	0	0.03 <sup>4</sup>	0
10/21/16	4.75	4.03	3.05	0.98	144

**Note:**

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. The foul sewer diversion lines carrying flow to Eastside Pumping Station were closed during wet weather events on these days. All recorded influent flow was treated through the Northeast Boundary Swirl Facility and discharged as effluent at CSO 019.
3. Duration of discharge to CSO 019.
4. Volume calculated for this event using weir level data.

**Northeast Boundary Swirl Facility – Wet Weather Operations-November 2016**

<i>Date</i>	<i>Approx. Storm Duration1 (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume2 (mg)</i>	<i>Approx. Screenings Volume3 # of bins (cu ft)</i>
11/30/16	4	7.65	3.82	3.83 <sup>2</sup>	80
11/30/16	7	5.27	3.78	1.49 <sup>2</sup>	60

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
2. Volume approximated due malfunction of ESIRS meter.

**Northeast Boundary Swirl Facility – Wet Weather Operations-December 2016**

<i>Date</i>	<i>Approx. Storm Duration1 (Hours)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume2 (mg)</i>	<i>Approx. Screenings Volume3 # of bins (cu ft)</i>
12/06/16	5.75	20.27	6.98	13.29	132
12/24/16	8.5	6.91	5.97	0.94	112

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

## **Appendix 10-4**

### **CSO Overflow Predictions**





District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: January, February, March 2016**

**SCENARIO: Y2016\_Q1, produced April 11, 2016**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
<b>Anacostia CSOs</b>							
005	Chicago St and Railroad Station SE	9	1.79	28.50	3.17	6.25	0.50
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 <sup>th</sup> Street and Ridge Place, SE	3	1.48	5.00	1.67	2.25	1.00
009	2nd Street, 300 feet North of N Place, SE	8	0.77	18.00	2.25	5.75	0.50
010	O Street Sewage Pumping Station, SE (pumped overflow)	3	11.77	3.00	1.00	2.25	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	2	1.67	0.50	0.25	0.25	0.25
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	1	0.00002	0.25	0.25	0.25	0.25
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	1	2.70	0.75	0.75	0.75	0.75
013	4th and N Streets, SE	8	1.85	26.00	3.25	6.00	1.00
014	6th and M Streets, SE	5	2.01	8.25	1.65	2.75	0.25
015	9th and M Streets, SE	4	0.38	3.50	0.88	1.50	0.25
016	12th and M Streets, SE	3	1.10	3.00	1.00	1.75	0.25
017	14th and M Streets, SE	8	4.15	19.50	2.44	5.75	0.50
018	Barney Circle and Pennsylvania Ave, SE	5	2.44	10.50	2.10	3.25	0.25
019	Northeast Boundary - Swirl Effluent	4	75.10	13.75	3.44	5.00	2.00
019	Northeast Bound. - Swirl Bypass	1	28.37	1.25	1.25	1.25	1.25
	<b>SUBTOTAL</b>		<b>135.56</b>				
<b>Potomac CSOs</b>							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	2	0.21	3.75	1.88	2.25	1.50
021	Northeast of Roosevelt Bridge, NW	4	34.99	8.50	2.13	3.25	1.00
022	27th and K Streets, NW	5	3.21	10.50	2.10	3.25	0.25
024	30th and K Streets, NW	3	3.08	5.50	1.83	4.00	0.75
025	31st & K St NW	1	0.11	1.25	1.25	1.25	1.25
026	Wisconsin Avenue and K St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	9	4.66	42.00	4.67	8.00	0.75
028	36th and M Streets, NW	7	0.68	12.50	1.79	4.00	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	6	2.64	12.00	2.00	4.00	0.25
	<b>SUBTOTAL</b>		<b>49.58</b>				
<b>Rock Creek</b>							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extended west of 25th Street, NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	3	0.076	3.00	1.00	1.75	0.50
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road, east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**

**Period: January, February, March 2016**

**SCENARIO: Y2016\_Q1, produced April 11, 2016**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
043	Adams Mill Road South of Irving Street, NW	1	0.09	0.25	0.25	0.25	0.25
044	Kenyon Street and Adams Mill Road, NW	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	1	0.01	0.25	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	1	0.00005	0.25	0.25	0.25	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	1	0.02	0.25	0.25	0.25	0.25
049	Piney Branch and Lamont Street, NW	4	5.425	9.25	2.31	3.50	1.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek 300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	separated					
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26 <sup>th</sup> St, NW	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>		<b>5.62</b>				
	<b>TOTAL</b>		<b>190.77</b>				

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**

Period: April, May June 2016

**SCENARIO: PCCM\_Y2016\_Q2, produced July 8, 2016**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
<b>Anacostia CSOs</b>							
005	Chicago St and Railroad Station SE	19	3.13	51.25	2.70	8.50	0.50
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 <sup>th</sup> Street and Ridge Place, SE	9	2.56	9.75	1.08	2.00	0.25
009	2nd Street, 300 feet North of N Place, SE	10	1.76	15.75	1.58	2.25	0.50
010	O Street Sewage Pumping Station, SE (pumped overflow)	12	40.21	9.75	0.81	2.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	10	2.11	20.00	2.00	4.50	0.25
014	6th and M Streets, SE	10	3.40	17.00	1.70	3.00	0.50
015	9th and M Streets, SE	8	0.67	8.25	1.03	1.75	0.50
016	12th and M Streets, SE	7	2.15	7.75	1.11	2.00	0.25
017	14th and M Streets, SE	14	7.58	36.50	2.61	6.50	0.50
018	Barney Circle and Pennsylvania Ave, SE	10	4.04	15.75	1.58	2.75	0.25
019	Northeast Boundary - Swirl Effluent	12	133.78	61.50	5.13	12.00	1.25
019	Northeast Bound. - Swirl Bypass	4	35.01	3.25	0.81	1.25	0.50
	<b>SUBTOTAL</b>		<b>236.39</b>				
<b>Potomac CSOs</b>							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	5	0.40	8.00	1.60	2.50	0.50
021	Northeast of Roosevelt Bridge, NW	11	126.78	26.00	2.36	4.25	0.25
022	27th and K Streets, NW	11	2.51	20.50	1.86	3.50	0.25
024	30th and K Streets, NW	5	6.69	12.75	2.55	4.25	1.00
025	31st & K St NW	4	0.32	2.75	0.69	1.00	0.25
026	Wisconsin Avenue and K St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	5	3.33	6.00	1.20	1.75	0.25
028	36th and M Streets, NW	12	1.22	17.50	1.46	2.25	0.50
029	Canal Road 1000 feet east of Rock Creek, NW	7	3.63	6.50	0.93	1.75	0.25
	<b>SUBTOTAL</b>		<b>144.87</b>				
<b>Rock Creek</b>							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extended west of 25th Street, NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	7	0.160	8.25	1.18	2.00	0.25
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road, east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: April, May June 2016

SCENARIO: PCCM\_Y2016\_Q2, produced July 8, 2016

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
043	Adams Mill Road South of Irving Street, NW	3	0.14	1.00	0.33	0.50	0.25
044	Kenyon Street and Adams Mill Road, NW	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	3	0.01	1.00	0.33	0.50	0.25
046	Park Road south of Piney Branch Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	2	0.02	0.50	0.25	0.25	0.25
049	Piney Branch and Lamont Street, NW	10	8.061	15.00	1.50	2.50	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek 300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	separated					
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26 <sup>th</sup> St, NW	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>		<b>8.39</b>				
	<b>TOTAL</b>		<b>389.66</b>				

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: July, August, September 2016**

**SCENARIO: PCCM\_Y2016\_Q3, produced October 7, 2016**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
<b>Anacostia CSOs</b>							
005	Chicago St and Railroad Station SE	15	3.42	41.50	2.77	7.25	0.50
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 <sup>th</sup> Street and Ridge Place, SE	9	3.88	10.00	1.11	2.00	0.25
009	2nd Street, 300 feet North of N Place, SE	11	2.12	14.25	1.30	2.25	0.25
010	O Street Sewage Pumping Station, SE (pumped overflow)	7	18.89	4.75	0.68	1.50	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	1	0.83	0.25	0.25	0.25	0.25
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	1	0.16	0.25	0.25	0.25	0.25
013	4th and N Streets, SE	13	2.19	19.50	1.50	4.50	0.25
014	6th and M Streets, SE	9	4.32	15.25	1.69	3.50	0.25
015	9th and M Streets, SE	12	1.18	8.25	0.69	1.50	0.25
016	12th and M Streets, SE	7	3.16	8.75	1.25	2.00	0.25
017	14th and M Streets, SE	13	8.29	30.25	2.33	6.00	0.25
018	Barney Circle and Pennsylvania Ave, SE	12	5.34	16.75	1.40	3.00	0.25
019	Northeast Boundary - Swirl Effluent	8	141.57	37.25	4.66	11.25	0.50
019	Northeast Bound. - Swirl Bypass	6	50.59	4.25	0.71	1.00	0.50
	<b>SUBTOTAL</b>		<b>245.95</b>				
<b>Potomac CSOs</b>							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	6	0.76	11.00	1.83	3.00	1.25
021	Northeast of Roosevelt Bridge, NW	9	127.21	25.75	2.86	6.75	0.25
022	27th and K Streets, NW	13	13.27	19.50	1.50	3.75	0.25
024	30th and K Streets, NW	10	7.23	17.25	1.73	3.50	0.25
025	31st & K St NW	6	0.37	3.50	0.58	0.75	0.50
026	Wisconsin Avenue and K St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	7	5.06	8.75	1.25	2.25	0.25
028	36th and M Streets, NW	13	1.45	15.00	1.15	3.00	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	8	5.84	9.50	1.19	2.25	0.25
	<b>SUBTOTAL</b>		<b>161.19</b>				
<b>Rock Creek</b>							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extended west of 25th Street, NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	7	0.273	10.00	1.43	2.25	0.25
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road, east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and Rock Creek Parkway, NW	2	0.06	0.50	0.25	0.25	0.25

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**

**Period: July, August, September 2016**

**SCENARIO: PCCM\_Y2016\_Q3, produced October 7, 2016**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
043	Adams Mill Road South of Irving Street, NW	2	0.69	1.00	0.50	0.75	0.25
044	Kenyon Street and Adams Mill Road, NW	2	0.004	0.50	0.25	0.25	0.25
045	Adams Mill Road and Lamont Street, NW	3	0.07	1.00	0.33	0.50	0.25
046	Park Road south of Piney Branch Parkway, NW	2	0.01	0.75	0.38	0.50	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.001	0.75	0.38	0.50	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	3	0.12	1.00	0.33	0.50	0.25
049	Piney Branch and Lamont Street, NW	7	12.80	13.50	1.93	3.00	0.75
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek 300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	separated					
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26 <sup>th</sup> St, NW	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>		<b>14.04</b>				
	<b>TOTAL</b>		<b>421.17</b>				

#N/A

Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: October, November, December 2016**

**SCENARIO: PCCM\_QuarterlyReport\_2016Q4v2, produced January 10, 2017**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
<b>Anacostia CSOs</b>							
005	Chicago St and Railroad Station SE	9	0.89	19.25	2.14	6.25	0.50
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 <sup>th</sup> Street and Ridge Place, SE	2	0.17	2.25	1.13	1.75	0.50
009	2nd Street, 300 feet North of N Place, SE	3	0.28	3.75	1.25	3.00	0.25
010	O Street Sewage Pumping Station, SE (pumped overflow)	1	1.04	0.25	0.25	0.25	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	1	0.83	0.25	0.25	0.25	0.25
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	4	0.13	2.75	0.69	2.00	0.25
014	6th and M Streets, SE	3	0.30	4.00	1.33	3.25	0.25
015	9th and M Streets, SE	3	0.00	2.75	0.92	1.75	0.50
016	12th and M Streets, SE	1	0.10	1.50	1.50	1.50	1.50
017	14th and M Streets, SE	5	1.42	11.75	2.35	5.50	0.50
018	Barney Circle and Pennsylvania Ave, SE	2	0.65	4.25	2.13	3.50	0.75
019	Northeast Boundary - Swirl Effluent	3	31.07	14.50	4.83	6.25	2.75
019	Northeast Bound. - Swirl Bypass	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>		<b>36.88</b>				
<b>Potomac CSOs</b>							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	1	0.02	1.50	1.50	1.50	1.50
021	Northeast of Roosevelt Bridge, NW	3	20.16	8.00	2.67	5.25	1.00
022	27th and K Streets, NW	5	0.07	6.00	1.20	3.25	0.25
024	30th and K Streets, NW	2	0.40	4.50	2.25	4.00	0.50
025	31st & K St NW	0	0.00	0.00	0.00	0.00	0.00
026	Wisconsin Avenue and K St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	2	0.05	1.25	0.63	1.00	0.25
028	36th and M Streets, NW	4	0.18	5.25	1.31	3.00	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	2	0.04	1.75	0.88	1.25	0.50
	<b>SUBTOTAL</b>		<b>20.92</b>				
<b>Rock Creek</b>							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extended west of 25th Street, NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	2	0.008	2.50	1.25	2.00	0.50
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road, east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

**Combined Sewer System Model Results**  
**Period: October, November, December 2016**

**SCENARIO: PCCM\_QuarterlyReport\_2016Q4v2, produced January 10, 2017**

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
043	Adams Mill Road South of Irving Street, NW	0	0.00	0.00	0.00	0.00	0.00
044	Kenyon Street and Adams Mill Road, NW	0	0.000	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	0	0.00	0.00	0.00	0.00	0.00
046	Park Road south of Piney Branch Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.000	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and Lamont Street, NW	2	0.72	4.00	2.00	3.00	1.00
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek 300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	separated					
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26 <sup>th</sup> St, NW	0	0.00	0.00	0.00	0.00	0.00
	<b>SUBTOTAL</b>		<b>0.72</b>				
	<b>TOTAL</b>		<b>58.53</b>				

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.