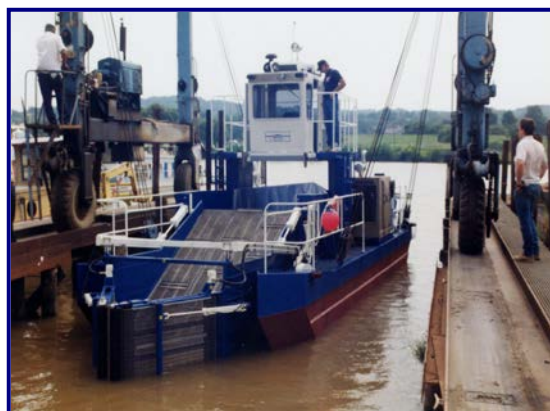
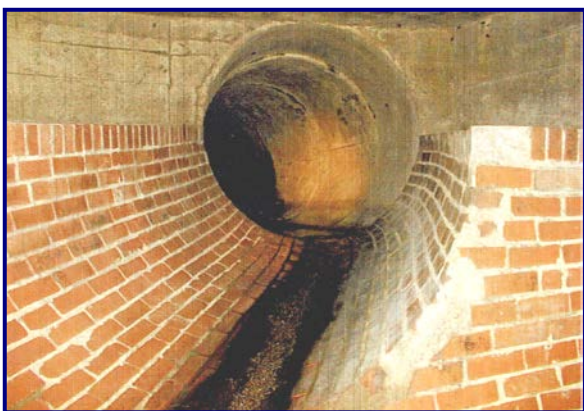


**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY**

Serving the Public • Protecting the Environment



**Year 2015
Nine Minimum Controls Annual Report
For
Combined Sewer System**



March 2016

prepared by

Program Consultants Organization



GREELEY AND HANSEN

JA-UNDERGROUND

Engineers/Consultants

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Washington, DC

Year 2015
Nine Minimum Controls Annual Report
For
Combined Sewer System

Program Consultants Organization



March 2016

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Section 1 Introduction

1.1 PURPOSE

In accordance with the terms of its National Pollutant Discharge Elimination System (NPDES) permit, 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 2015.

1.2 DC WATER SEWER SYSTEM

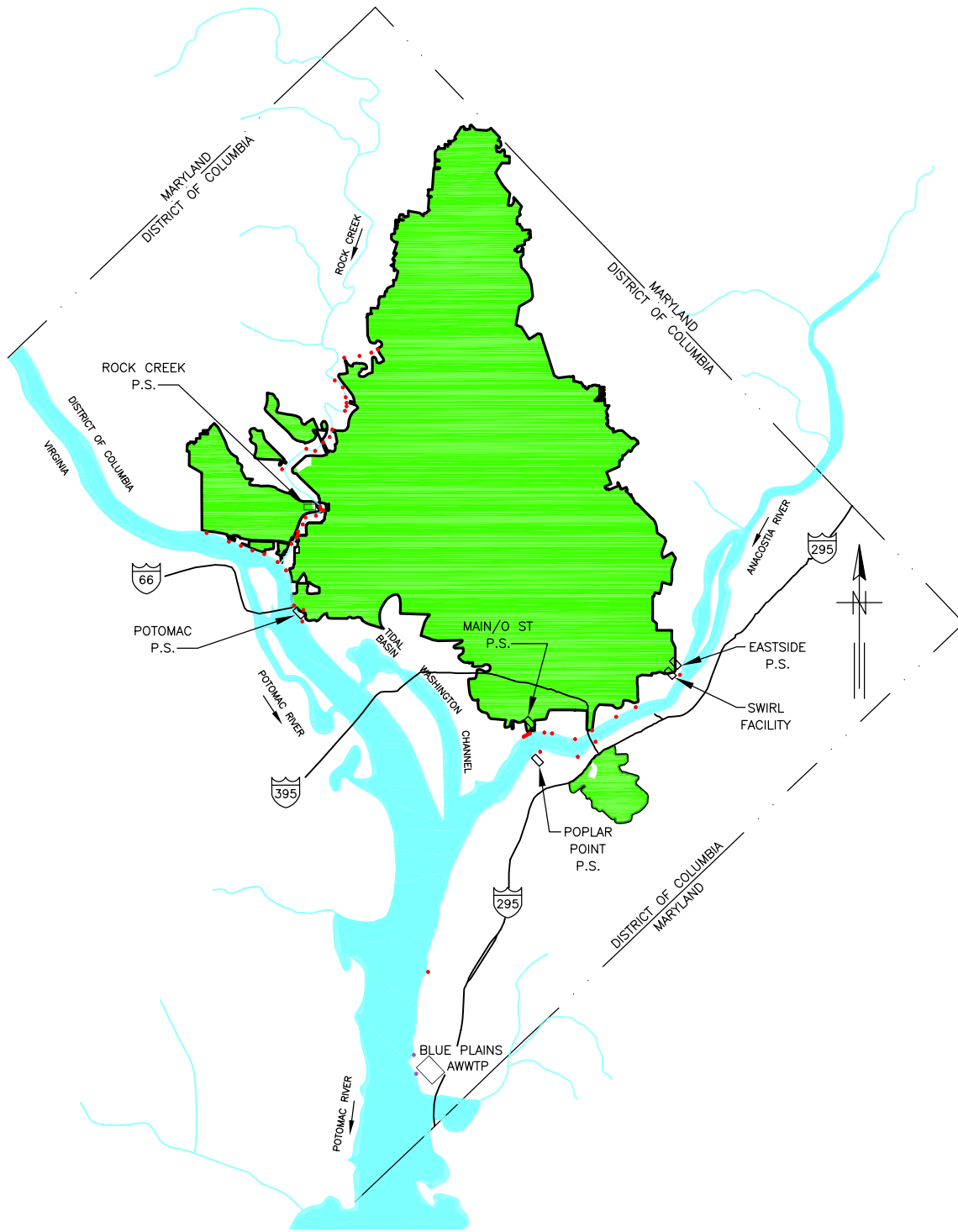
DC Water operates the District's wastewater collection system comprised of separate and combined sewers. Wastewater treatment is provided by the District's Blue Plains Advanced Wastewater Treatment Plant (BPAWWTP). The service area for BPAWWTP covers approximately 735 square miles including parts of 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 53 active CSO outfalls listed in DC Water's current NPDES Permit, which is issued and administered by the U.S. Environmental Protection Agency (EPA Region III). The combined sewer area is shown on Figure 1-1.

1.3 NPDES PERMIT REQUIREMENTS

NPDES permit, No. DC0021199, issued on August 31, 2010, 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'

FILE: L:\CP\DOCUMENTS\05\0502\NPDES PERMIT\NMC ANNUAL REPORTS\2015 NMC REPORT\FIGURES\Figure 1-1.DWG

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 *31st* 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			Monitoring Requirements		
	Ave. Monthly	Ave. Weekly	Other Units (specify)	Measurement Frequency	Sample Type	
Flow/day (mgd) (1, 1a,)	N/A (2)	N/A	N/L (3)	Continuous	Measured	
Carbonaceous Biological Oxygen Demand (5 day)	15,429	23,143	5.0 mg/l	Daily	24-hour Composite	
Total Suspended Solids (TSS)	21,600	32,400	7.0 mg/l	Daily	24-hour composite	
Total Phosphorus	555 (4)	1,080	0.18 mg/l (4)	Daily	24-hour composite	
Ammonia Nitrogen:						
Summer (5/1 – 10/31)	12,960	18,823	4.2 mg/l	Daily	24-hour composite	
Winter 1 (11/1 – 2/14)	34,253	45,670	11.1 mg/l	Daily	24-hour composite	
Winter 2 (2/15 – 4/30)	39,500	52,460	12.8 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	Daily	24-hour composite	
Alkalinity, total (CaCO ₃) (mg/l)	N/A	N/A	N/L	Daily	24-hour composite	
Hardness, total (CaCO ₃) (mg/l)	N/A	N/A	N/L	Daily	24-hour composite	
Nitrite (NO ₂) (mg/l)	N/A	N/A	N/L	Daily	24-hour composite	

Nitrate (NO ₃) 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
A. DWF, through permit expiration date	All times	Up to and including 511 mgd
B. CSSF		
1. From effective date of permit and following placing ECF in operation unless otherwise authorized or approved by EPA	First 4 hours After 4 hours	Up to and including 555 mgd Up to and including 511 mgd
2. Until Completion of Nitrification Denitrification Facilities upgrade, but no later than March 1, 2011	First 4 hours After 4 hours	Up to and including 511 mgd Up to and including 450 mgd
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.	First 4 hours After 4 hours	Up to and including 511 mgd Up to and including 450 mgd
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.	First 4 hours After 4 hours	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 (NO₂ +NO₃) - N concentrations (e.g., Total Nitrogen = Total Kjeldahl nitrogen + No₂ as N + No₃ 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			Monitoring Requirements			Sample Type (6)
	Kg/day (lb/day)	Ave Monthly	Ave Weekly	Other Units (specify)	Measurement Frequency	Measurement Frequency	
Flow/discharge (mgd) (1) (1a)	N/A	N/A	N/A (2)	N/L (3)	N/L	Continuous	Measured
Carbonaceous Biochemical Oxygen Demand (5-day)	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
Total Suspended Solids (TSS)	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
pH (s.u.)	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
PCBs (9)						2 wet weather per quarter	Grab
E.coli – (cfu/100 ml)	N/A	N/A	N/A	N/L	N/L	Every 8 hours, not less than one sample per discharge	Grab
Total Residual Chlorine (mg/l) (5)	Non-detectable	Non-detectable		Non-detectable		Every 2 hours, not less than one sample per discharge	Grab
Total Nitrogen (10)	N/A	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
Total Phosphorus	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:	All times	Up to a maximum of 225 mgd
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.		

(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⁽¹⁾

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	Kg/day (lb/day)			Discharge Limitations		Monitoring Requirements	
	Ave Monthly	Ave Weekly	Ave Monthly	Other units (specify)		Measurement Frequency	Sample Type (6)
				Ave Monthly	Ave Weekly		
Flow/day (mgd)	N/A (2)	N/A	N/L (3)	N/L		Continuous	Measured
Total Suspended Solids (mg/l)	N/A	N/A	N/L	N/L		Per discharge	Composite (4)
E.coli (cfu/100 ml)	N/A	N/A	N/L	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	N/L		Every 2 hours	Grab
Nitrate(NO ₃)	N/A	N/A	N/L	N/L		per discharge	24-hr. Composite (4)
Total Kjeldahl Nitrogen (7)	N/A	N/A	N/L	N/L		per discharge	24-hr. Composite (4)
Total Nitrogen	N/A	N/A	N/L	N/L		per discharge	24-hr. Composite (4)
Total Phosphorus	N/A	N/A	N/L	N/L		per discharge	24-hr. Composite (4)
Carbonaceous Biological Oxygen Demand	N/A	N/A	N/L	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. 5th 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 1st Street
N.E., 5th 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.

Outfall (1)	Overflow Structure Location	Receiving Stream	Latitude and Longitude (approximate)
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 th 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 nd 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 th and N Streets, SE	Anacostia River, West Side	N 38 52 22 W 77 00 09
014	6 th and M Streets, SE	Anacostia River, West Side	N 38 52 23 W 76 59 09
015	9 th and M Streets, SE	Anacostia River	N 38 52 18 W 76 59 38
016	12 th and M Streets, SE	Anacostia River, West Side	N 38 52 20 76 59 28
017	14 th 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 th and E Sts., SE	Anacostia River, West Side	N 38 52 21 W 77 00 09
020	23 rd 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 th and K Streets, NW	Potomac River, East Side	N 38 53 52 W 77 03 27
023	Abandoned (Formerly 29 th And K Streets, NW)	Potomac River, East Side	Not Available
024	30 th and K Streets, NW	Potomac River, East Side	N 38 54 05 W 77 03 31
025	31 st 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 th 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 th and M Streets, NW	Rock Creek, East Side	N 38 54 22 W 77 03 17
033	N Street extended West of 25 th Street, NW	Rock Creek, East Side	N 38 54 26 W 77 03 18

034	23 rd and O Streets, SW	Rock Creek, East Side	N 38 54 36 W 77 03 05
035	22 nd Street south of Q Street, NW	Rock Creek, East Side	N 38 54 33 W 77 03 00
036	22 nd 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 th Street west of 16 th 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 th 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 th 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 th St-7th St	61	Tunnel	(2)
015	Navy Yard/M St.; 9 th St	22	Tunnel	(2)
016 ⁽¹⁾	Navy Yard/M St.; 12 th St - 9 th St.	86	Tunnel	(2)
017 ⁽¹⁾	Navy Yard/M St.; 14 th 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 nd St. NW	333	Tunnel	(3)
024 ⁽¹⁾	West of Rock Creek Diversion Sewer	66	Tunnel	(2)

025 ⁽¹⁾	31 st & K St NW	3	Tunnel	(2)
026 ⁽¹⁾	Water St Dist (WRC)	0	Tunnel	(2)
027 ⁽¹⁾	Georgetown	92	Tunnel	(2)
028 ⁽¹⁾	37 th 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 th St - M St	6	Interceptor	(4)
033	N St - 25 th	5	Interceptor	(3)
034	Slash Run	6	Interceptor	(4)
035	NW Boundary	290	Interceptor	(4)
036	Mass Ave & 24 th 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 th St	21	interceptor	(4)
051	Olive-29th St	4	Interceptor	(4)
052	O St - 31 st 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 th St & Conn Ave	33	Interceptor	(3)
058	Conn Ave	to be separated	n/a	n/a
059	16 th 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:

Phase	Post-Construction Condition
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

Monitoring Type	Anacostia River	Potomac River	Frequency (3)
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 28th day of April, the 28th day of July, the 28th day of October and the 28th 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.

- 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.

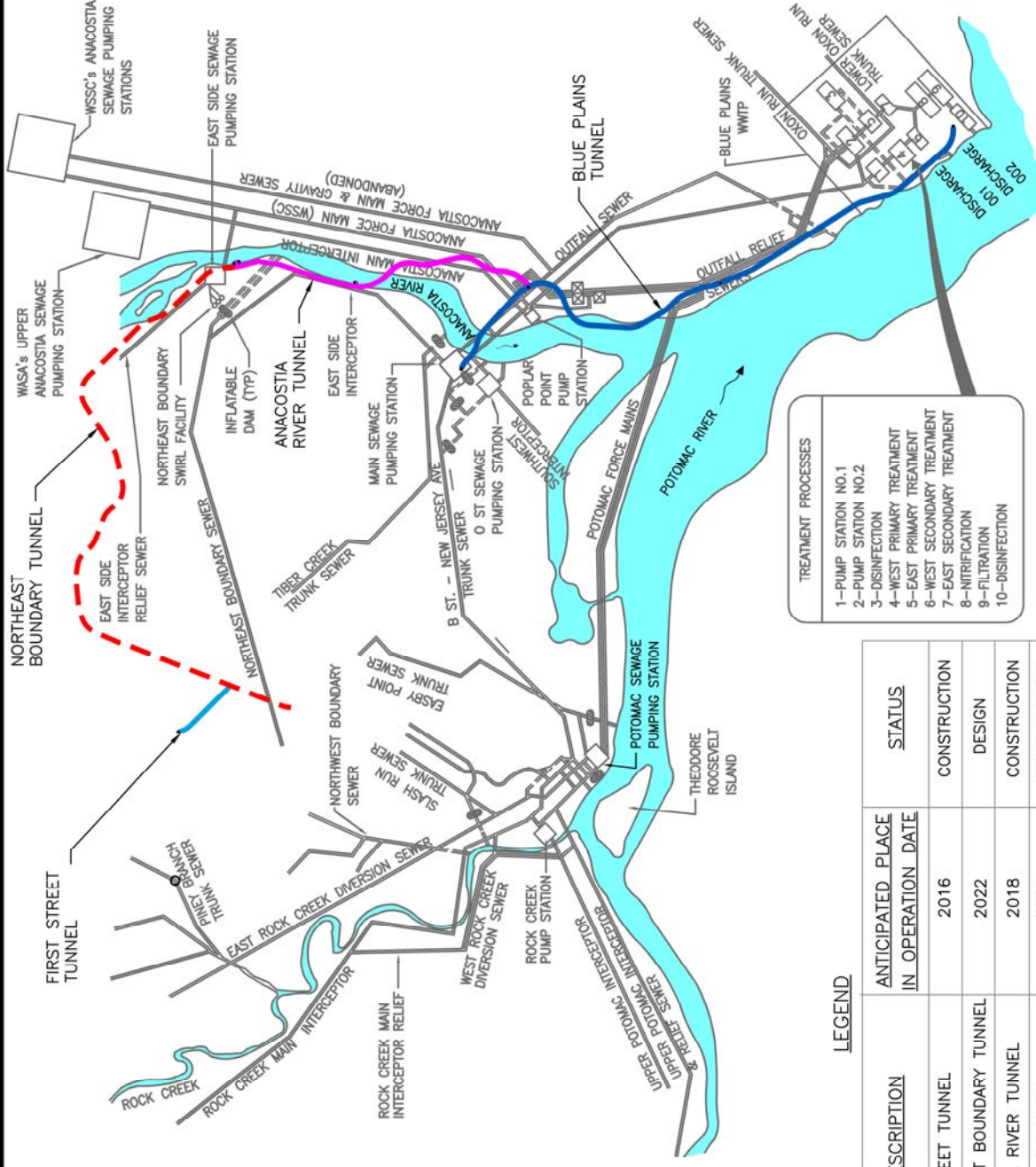
DC Water has approximately 550 paper 24” x 36” maps showing the sewer system in the District. These maps have been digitized into a GIS system. Based on this digitization, the following is an inventory of the combined sewer system:

**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



TREATMENT PROCESSES

- 1-PUMP STATION NO.1
- 2-PUMP STATION NO.2
- 3-DISINFECTION
- 4-WEST PRIMARY TREATMENT
- 5-EAST PRIMARY TREATMENT
- 6-WEST SECONDARY TREATMENT
- 7-EAST SECONDARY TREATMENT
- 8-NITRIFICATION
- 9-FILTRATION
- 10-DISINFECTION

SEWER SYSTEM	DESCRIPTION	ANTICIPATED PLACE IN OPERATION DATE	STATUS
Blue Line	FIRST STREET TUNNEL	2016	CONSTRUCTION
Red Dashed Line	NORTHEAST BOUNDARY TUNNEL	2022	DESIGN
Magenta Line	ANACOSTIA RIVER TUNNEL	2018	CONSTRUCTION
Blue Line	BLUE PLAINS TUNNEL	2018	CONSTRUCTION

LEGEND

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 wastewater treatment plant outfalls
- 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

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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. When the system is operating optimally, 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.

On February 9, 2015, DC Water notified EPA that the Structure 24 inflatable dams were deflated in order to perform an emergency repair on the Northeast Boundary Trunk Sewer (NEBTS). Operating the dams during repairs increases risks to workers, lengthens the time necessary for repair, increases

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risks to downstream facilities and the environment from construction debris and equipment being flooded. Since the Structure 24 inflatable dams divert combined sewer overflow to the NEBSF during wet weather events, deflations of dams didn't allow diversion of large wet weather flows to the NEBSF. This operation continued till April 20, 2015, when the NEBTS was put back in service, deflation set points have been restored to their original set point of 350-400 mgd.

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 four-90 mgd pumps. 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,

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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.

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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

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	Daily	Daily	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.

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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 and achieving 1076 MGD of conveyance capacity in October 2006. On April 1, 2011, DC Water has completed the rehabilitating portions of the outfall sewers and has met the Three-Party Consent Decree requirement.

DC Water has completed seven inspection contracts in 2015 and six inspection contracts are currently underway. They are:

- "Sewer Cleaning and Inspection Citywide, Division 4" was awarded in October 2009 was composed of approximately 73,400 linear feet of sanitary, combined, storm sewer mains and lateral services. An additional \$102,000 was added to complete out of scope work. A total of 212,000 linear feet was inspected under this Contract. This Contract was closed on February 19, 2015.
- "Sewer Cleaning and Inspection Contract 5" was awarded in October 2010 and was composed of approximately 168,000 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 339,000 linear feet was inspected under this Contract. Contingent allowance within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. This Contract was closed on February 19, 2015.
- "Sewer Cleaning and Inspection Contract 6" was awarded in December 2010 and was composed of approximately 153,500 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 302,000 linear feet was inspected under this Contract. Contingent allowance within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. This Contract was closed on February 19, 2015.
- "Sewer Cleaning and Inspection Contract 7" was awarded in December 2010 and was composed of approximately 102,000 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 171,000 linear feet was inspected under this Contract. Contingent allowance within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. This Contract was closed on April 11, 2015.

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- "Sewer Cleaning and Inspection Contract 8" was awarded in May 2011 and is composed of approximately 282,000 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 490,150 linear feet has been inspected under this Contract. Contingent allowance within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. This contract is scheduled to be closed out in early 2016.
- "Sewer Cleaning and Inspection Contract 9" was awarded in June 2012 and was composed of approximately 121,000 linear feet of sanitary, combined and storm sewer mains and lateral services. DC Water has completed a total of 94,000 linear feet of sewer inspection work under this Contract. This Contract was closed on March 13, 2015.
- "Sewer Cleaning and Inspection Contract 10" was awarded in September 2013 and is composed of approximately 66,000 linear feet of sanitary, combined, storm sewer mains and lateral services. DC Water has 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 is being prepared for the inspection of storm sewers in the Hickey Run watershed. This contract is scheduled to be completed in June 2016.
- "Sewer Cleaning and Inspection Contract 11" was awarded in October 2014, and is composed of approximately 113,500 linear feet of sanitary, combined, storm sewer mains and lateral services. DC Water has completed a total of 99,950 linear feet of sewer inspection work under this Contract. This Contract has been extended 3 months and will close in January 2016.
- "Sewer Cleaning and Inspection Contract 12" was awarded in November 2014, and is composed of approximately 110,800 linear feet of sanitary, combined, storm sewer mains and lateral services. A total of 90,750 linear feet have been inspected in this Contract. This Contract is being extended three months and will close in February 2016.
- "Sewer Cleaning and Inspection Contract 13" was awarded on August 11, 2014, and was composed of approximately 11,000 linear feet of abandoned sewers to be inspected by removing bulkheads of different sizes (12 to 36 inches in diameter) to confirm whether pipes are active or abandoned. Following the removal of the bulkheads and CCTV investigations, temporary plugs would be installed for pipes found to be abandoned. This contract was completed on May 11, 2015, and the contract was officially closed out on August 8, 2015. In total, 5,300 linear feet of pipe was inspected, 11 bulkheads were removed, and 6 pipe plugs were installed. Although this was short of the estimate in all three categories, the work completed fulfilled the requirements of the contract.
- "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 began work in January 2016.

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- "Potomac Interceptor Sewer Inspection Phase 3" was awarded in April 2013, and was composed of approximately 24,000 linear feet of sewer. DC Water has completed a total of 21,093 linear feet (approximately 90 %) of the sewer inspection work under this Contract. This Contract was closed on March 3, 2015.
- "Potomac Interceptor Sewer Inspection Phase 4" was awarded in October 2014, and is composed of approximately 41,300 linear feet of sewer. DC Water has inspected 41,300 linear feet in this contract. This contract is scheduled to be closed out in early 2016.

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 and the pumping stations are providing the designated firm pumping capacities.

APPENDIX 2-1

Structures Book



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

Combined Sewer System Structures Book

December 2015



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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- 1. SITE PLANS (PLATES)**
- 2. REGULATORS, INFLATABLE DAMS AND OTHER STRUCTURES**
- 3. OUTFALL STRUCTURES AND TIDE GATES**
- 4. PUMPING STATIONS**

Regulators, Inflatable Dams and Other Structures

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 th Street and S Street, SE	Regulator	EF-7-8 SE	007
9a	13 th Street and Ridge Place, SE	Regulator	EF-7-8 SE	007
9b	11 th 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 nd Street, 300 ft. north of N Place, SE	Regulator	A-6 SE	009
14	2 nd 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	-

Regulators, Inflatable Dams and Other Structures

Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
15e-2	Independence Ave East of 17 th 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 th and N Streets, SE, Both Extended	Regulator	B-6 SE	013
17a	K Street between 6 th Street and 7 th Street, SE	Regulator	C-4 SE	013
18	6 th 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 th and M Streets, SE	Regulator	C-5 SE	015
19a, 19c	9 th and M Streets, SE	Regulator	C-5 SE	015
20	12 th and M Streets, SE	Regulator	D-5 SE	016
20a	12 th and M Streets, SE	Regulator	D-5 SE	016
20b	12 th and M Streets, SE	Regulator	D-5 SE	016
21, 21a	14 th 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 th Street and Kentucky Ave, SE	Regulator	E-2 SE	018
23	Independence Ave, 21 st 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 st 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 nd Street, between Constitution Ave and C St, NW	Regulator	H-1 NW	020
30	17 th and D Streets, NW	Regulator	G-2N NW	020
31	15 th Street and Pennsylvania Ave, NW	Regulator	E-2 NW	020
32	10th and New York Ave, NW	Abandoned	D-4 NW	-

Regulators, Inflatable Dams and Other Structures

Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
33	10 th and F Streets, NW	Regulator	D-3 NW	020
34	23 rd Street, north of Constitution Ave, NW	Regulator – Inflatable Dam	I-1 NW	020
34a	23 rd 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 th and I Streets, NW	Regulator	K-4 NW	022
36a	New Hampshire Ave and Eye Street, NW	Regulator	I-4 NW	022
36b	19 th and L Streets, NW	Regulator	G-5 NW	022, 034
36c	18 th and L Streets, NW	Junction	G-5 NW	-
36d	17 th and L Streets, NW	Regulator	F-5 NW	022, 034
36e	17 th and L Streets, NW	Junction	F-5 NW	-
36f	18 th and M Streets, NW	Junction	G-5 NW	-
36g	18 th and M Streets, NW	Regulator	G-5 NW	022, 034
36h	18 th and M Streets, NW	Regulator	G-5 NW	022, 034
37	27 th and Eye Streets, NW	Regulator	K-4 NW	022
37a	North of 27 th and Eye Streets, NW	Junction	K-4 NW	-
38	29 th and K Streets, NW	Regulator	K-4 NW	024
38a	30 th 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 th and K Streets, NW	Bulkheaded	K-4 NW	-
39a	30 th and K Streets, NW	Regulator	K-4 NW	024
39b	30 th 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 st and K Streets, NW	Storm	L-4 NW	-
41a	31 st and K Streets, NW	Storm	L-4 NW	-
41b	31 st and K Streets, NW	Regulator	L-4 NW	025
41c	31 st and K Streets, NW	Regulator	L-4 NW	025
42	Wisconsin Ave and K Street, NW	Regulator	L-4 NW	026

Regulators, Inflatable Dams and Other Structures

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 th 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 th Street and Reservoir Road, NW	Regulator	N-8 NW	029
47a	37 th and T Streets, NW	Regulator	N-9 NW	029
47b	37 th and T Streets, NW	Regulator	N-9 NW	029
47c	38 th 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 th Street, NW	Regulator	I-6 NW	033
52	22 nd Street between M and N Streets, NW	Regulator – Inflatable Dam	H-6 NW	034
52a	N Street between 22 nd and 23 rd Streets, NW	Regulator	H-6 NW	034
53	22 nd and M Streets, NW	Regulator	H-5 NW	022, 034
53a	22 nd and M Streets, NW	Regulator	H-5 NW	022, 034
53b	L Street between 21 st Street and New Hampshire Ave, NW	Regulator	H-5 NW	022, 034
53c	L and 22 nd Streets, NW	Regulator	H-5 NW	022
54	23 rd and O Streets, NW	Regulator	H-6 NW	034
55	22 nd Street, south of Q Street, NW	Regulator	H-7 NW	035
55a	22 nd Street, south of Q Street, NW	Regulator	H-7 NW	035
56	23 rd and Massachusetts Ave, NW	Regulator	I-8 NW	036
57	23 rd 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

Regulators, Inflatable Dams and Other Structures

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 th 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 th and Quackenbos Streets, NW	Regulator	CD-25-26 NW	049
71	28 th 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 th and Rittenhouse Streets, NW	Abandoned	EF-25-26 NW	059
81	Zoo Park Northeast of Cathedral Ave, NW	Junction	IK-13-14 NW	-

Regulators, Inflatable Dams and Other Structures

Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
82	25 th 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 th and P Streets, NW	Regulator	K-7 NW	060
84a	26 th 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 th 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 th St.	CSO	Anacostia River West Side	B-6 SE	Yes	Submerged	Submerged
014	Navy Yard, aligned with 6 th 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 th and K Streets, NW	Abandoned CSO	Potomac River East Side	Abandoned	Abandoned	Abandoned	Abandoned
024	South of 30 th 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 rd 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 th 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 th St.	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
049	North of Piney Branch Parkway and 17 th 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

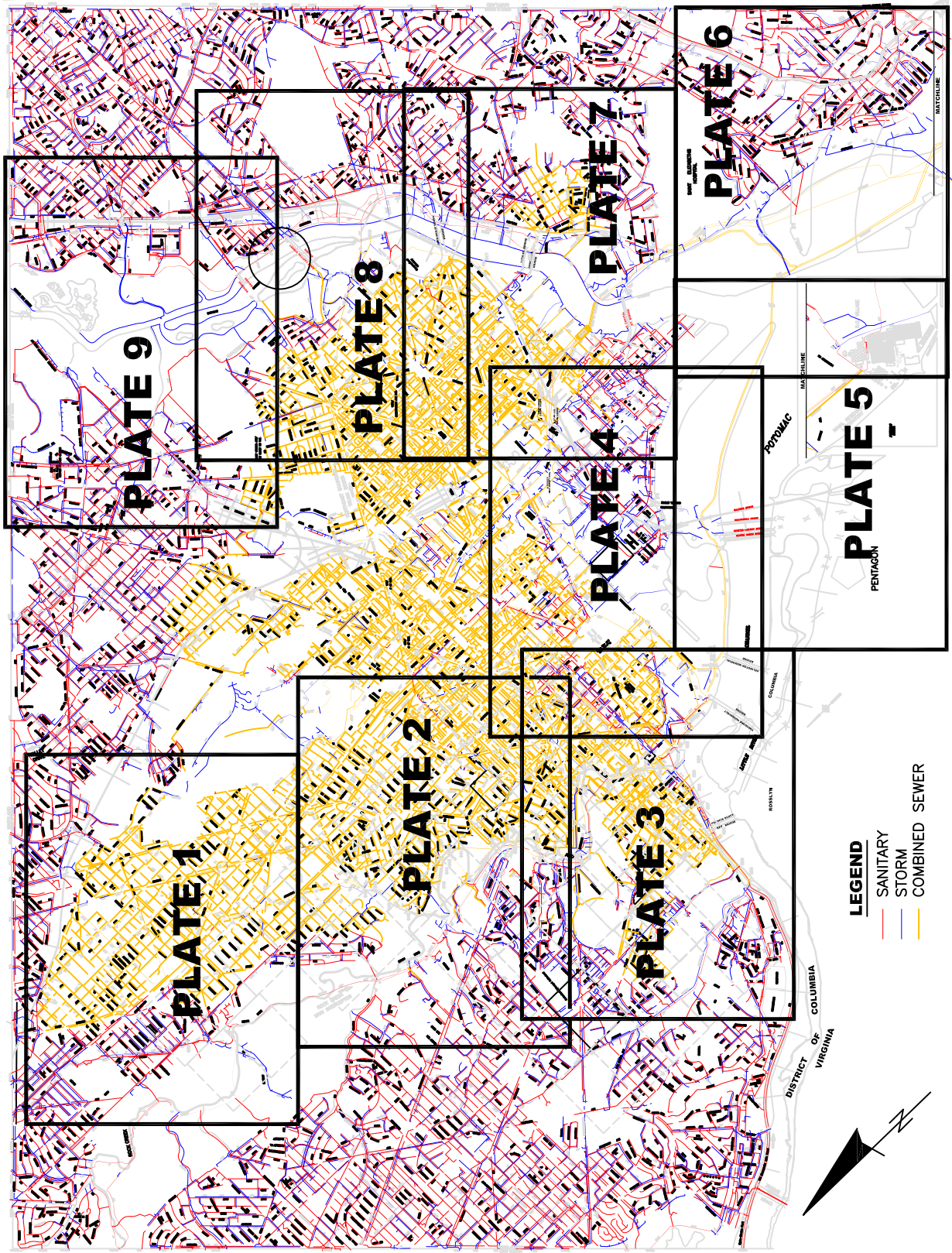
Outfall Structures and Tide Gates

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

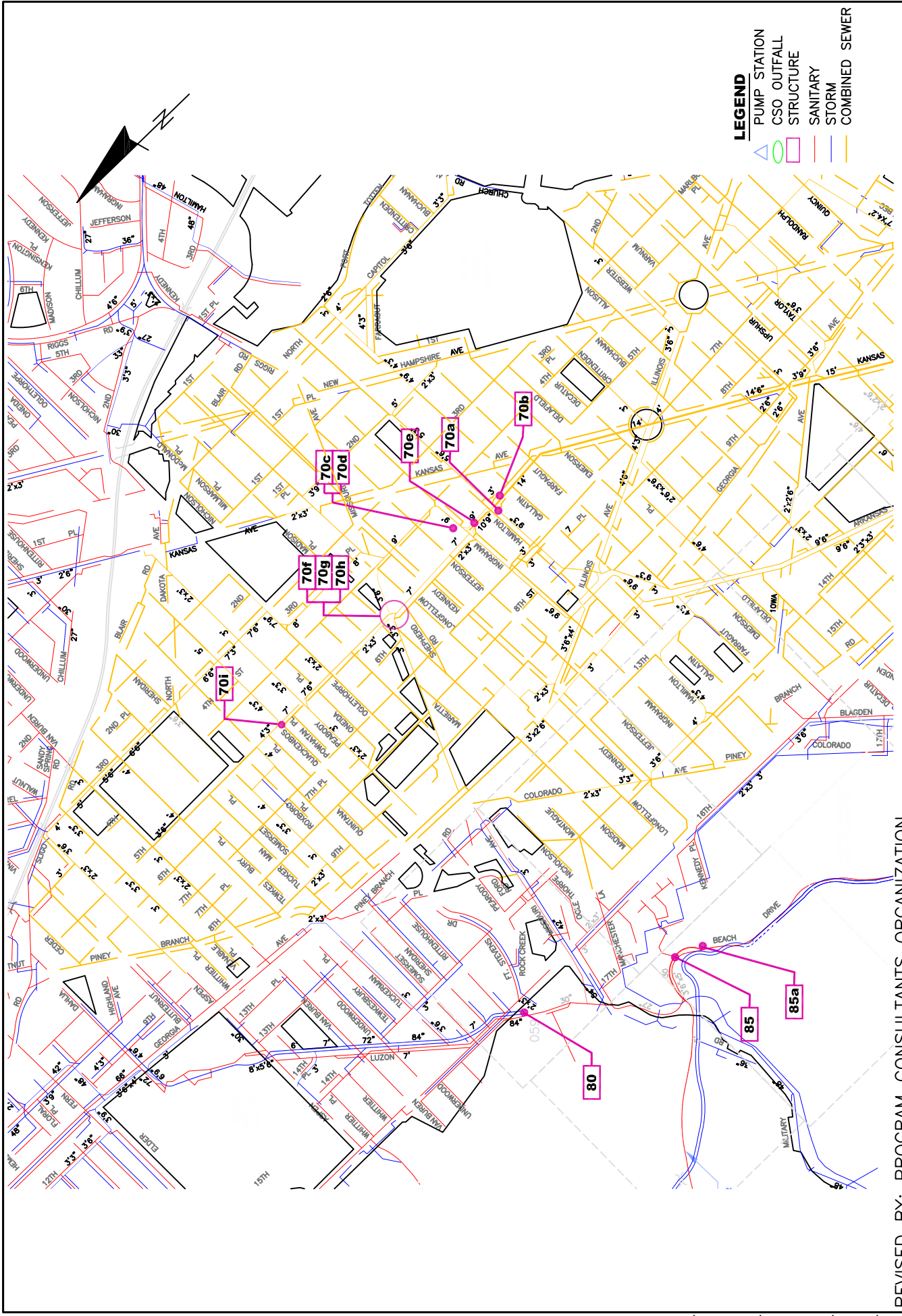
Site Plans (Plates)



OVERALL

NOT TO SCALE

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 REVISED DATE: AUGUST 2015

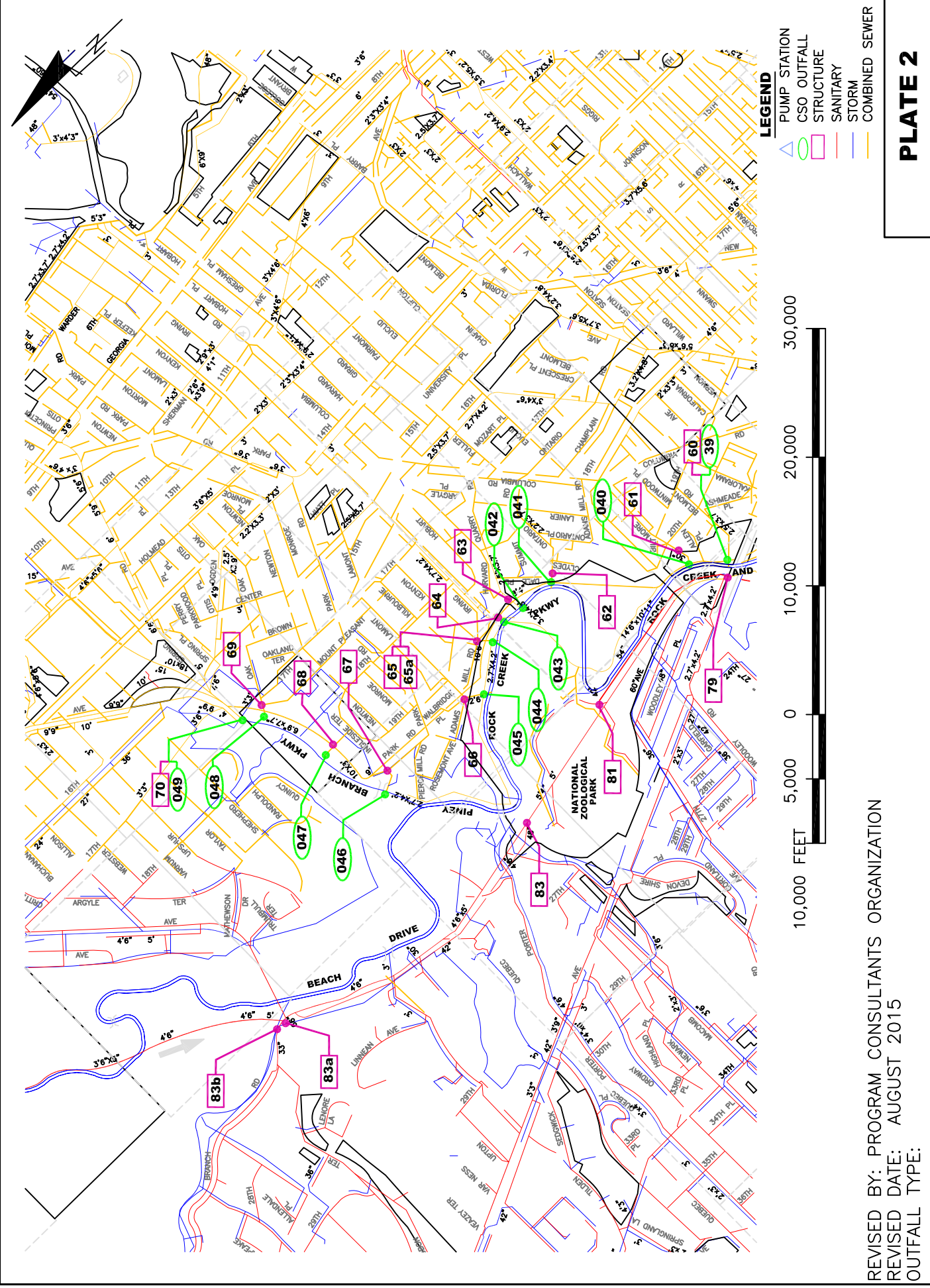


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- PUMP STATION
 - CSO OUTFALL STRUCTURE
 - SANITARY STORM
 - COMBINED SEWER

PLATE 1



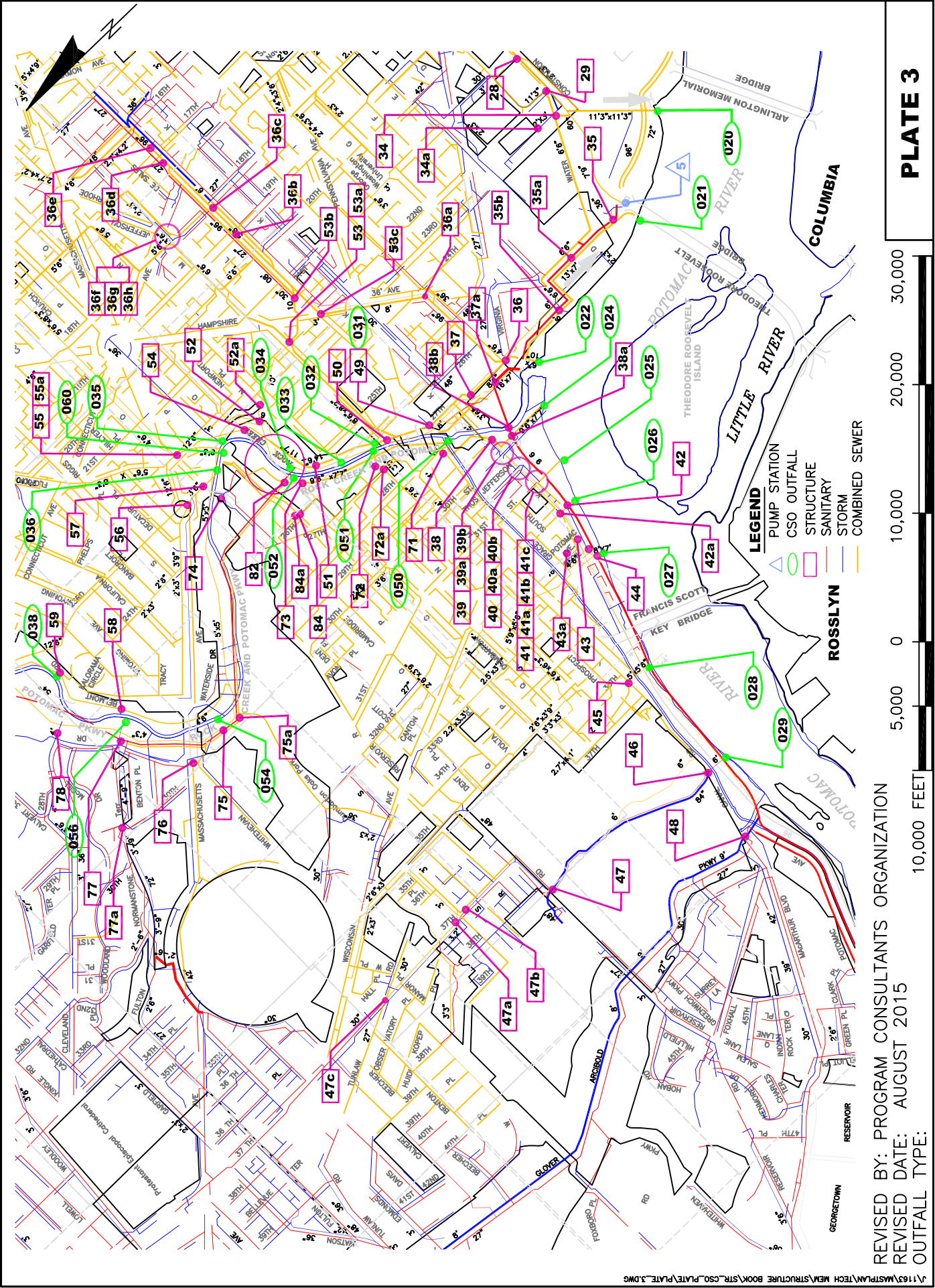
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 REVISED DATE: AUGUST 2015
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 - CSO OUTFALL
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 - SANITARY
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 - COMBINED SEWER

PLATE 2

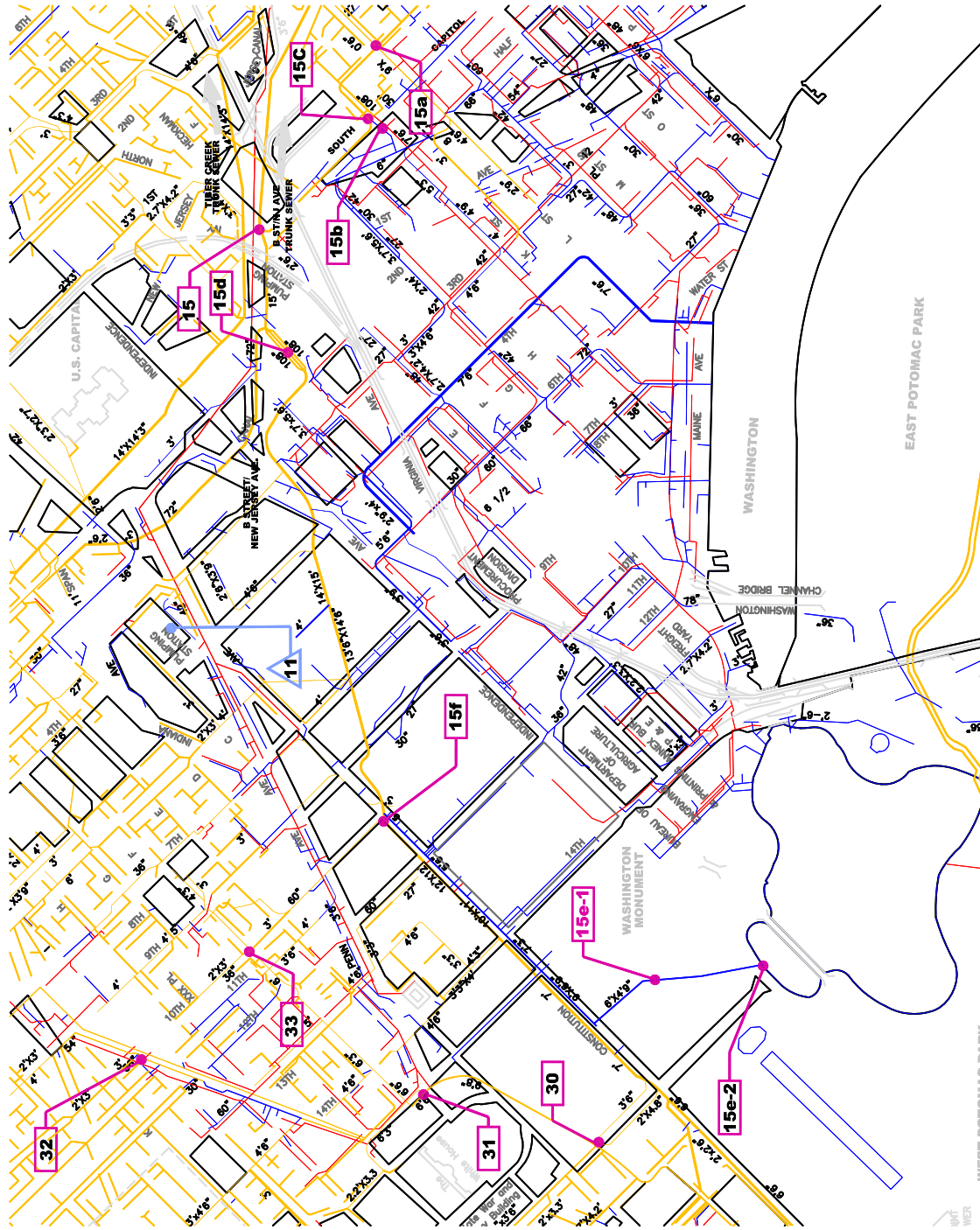
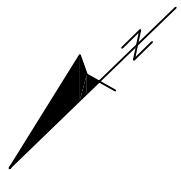
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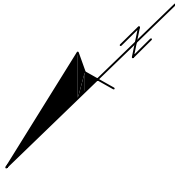
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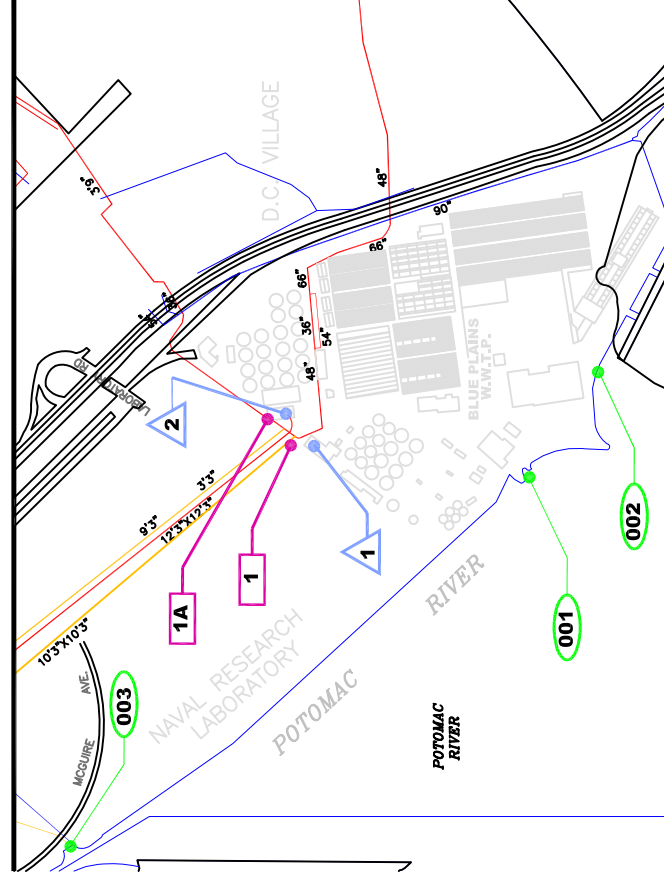
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- PUMP STATION
 - CSO OUTFALL
 - SANITARY
 - STORM
 - COMBINED SEWER

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: AUGUST 2015
OUTFALL TYPE:

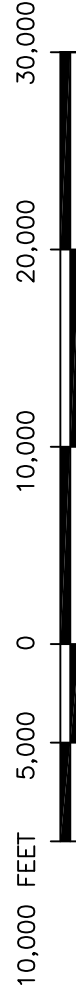
PLATE 4



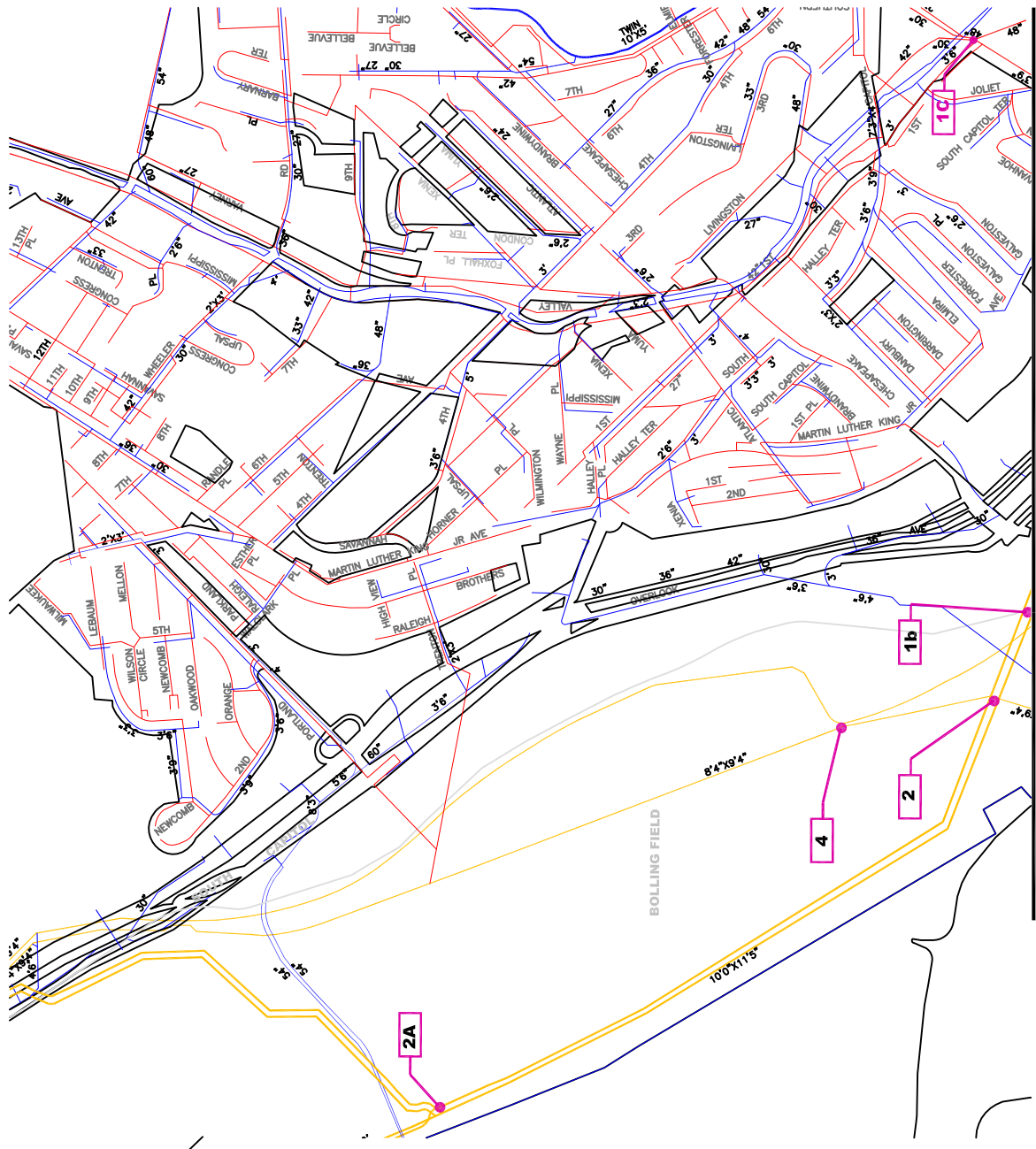
MATCHLINE SEE SHEET 6



- LEGEND**
- PUMP STATION
 - CSO OUTFALL
 - STRUCTURE
 - SANITARY
 - STORM
 - COMBINED SEWER



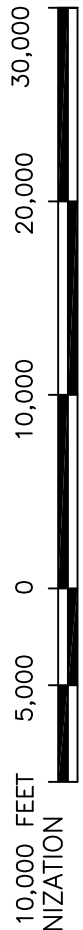
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: AUGUST 2015
OUTFALL TYPE:



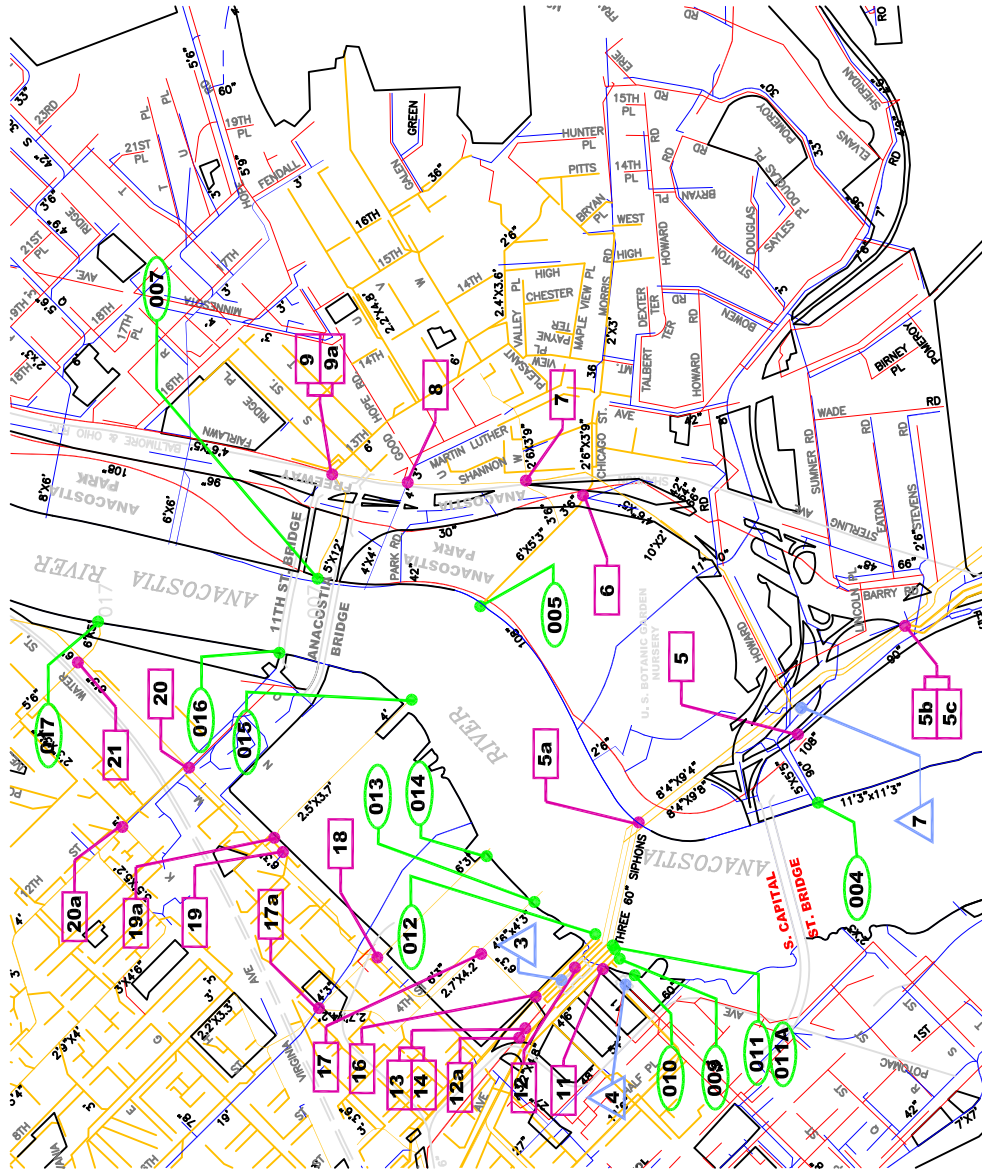
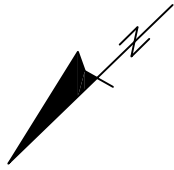
LEGEND

- PUMP STATION
- CSO OUTFALL STRUCTURE
- SANITARY
- STORM
- COMBINED SEWER

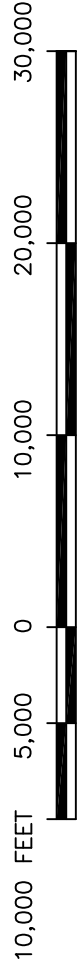
MATCHLINE SEE SHEET 5



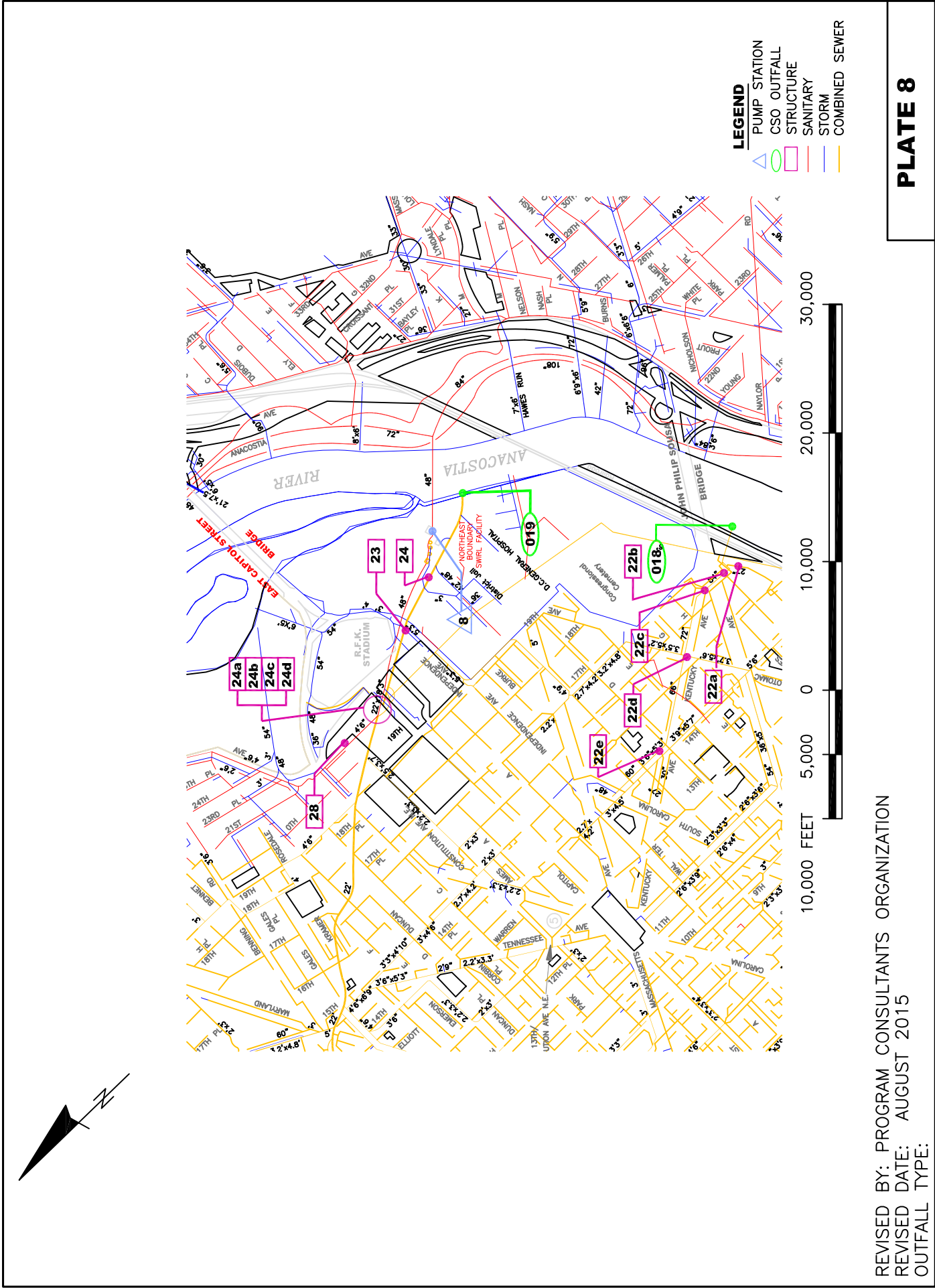
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: AUGUST 2015
 OUTFALL TYPE:



- LEGEND**
- PUMP STATION
 - CSO OUTFALL
 - STRUCTURE
 - SANITARY
 - STORM
 - COMBINED SEWER



REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: AUGUST 2015
OUTFALL TYPE:



- LEGEND**
- PUMP STATION
 - CSO OUTFALL
 - SANITARY STRUCTURE
 - STORM
 - COMBINED SEWER

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: AUGUST 2015
 OUTFALL TYPE:

PLATE 8

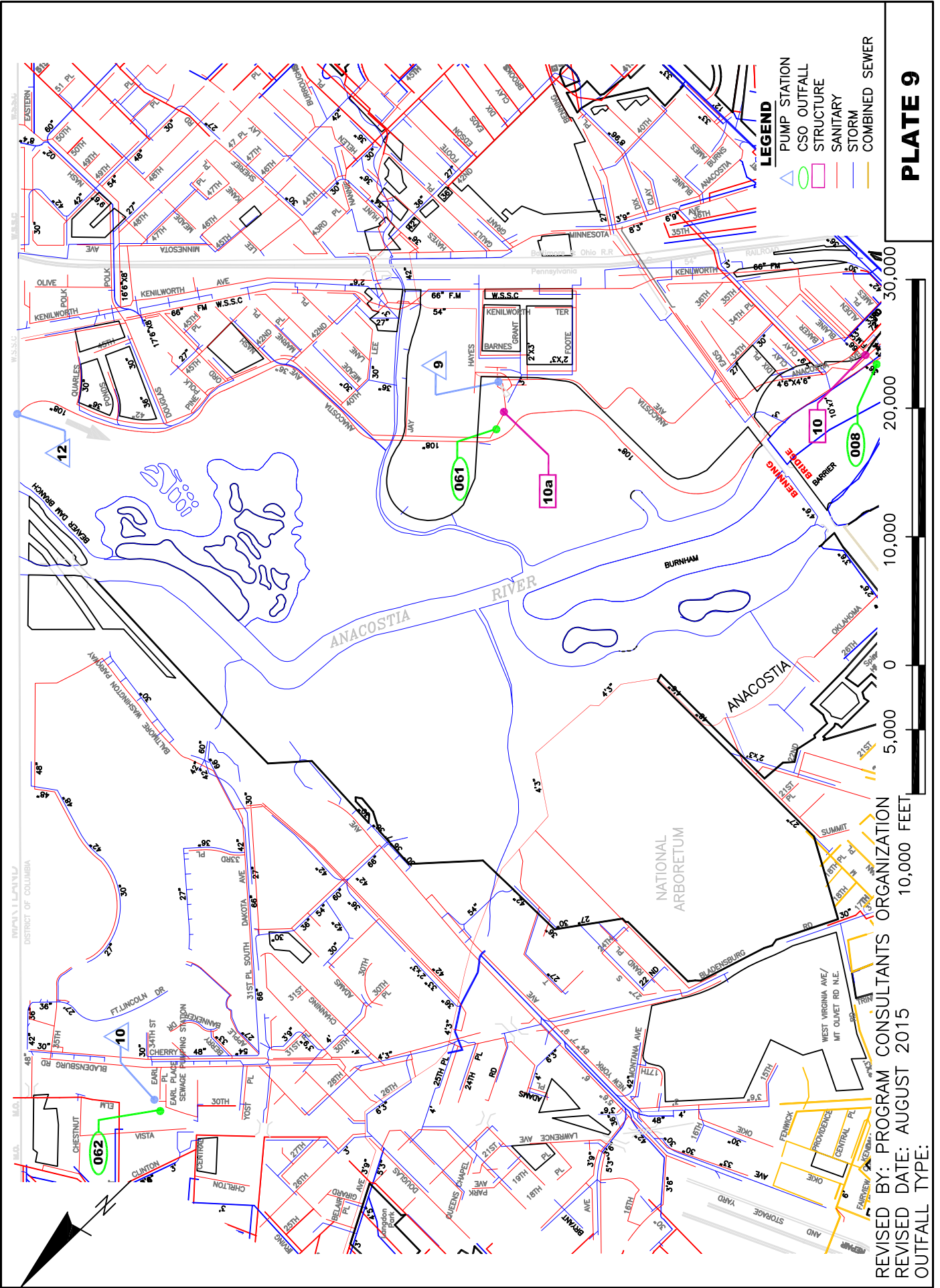


PLATE 9

- LEGEND**
- PUMP STATION
 - CSO OUTFALL
 - STRUCTURE
 - SANITARY
 - STORM
 - COMBINED SEWER

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: AUGUST 2015
 OUTFALL TYPE:

Section 2

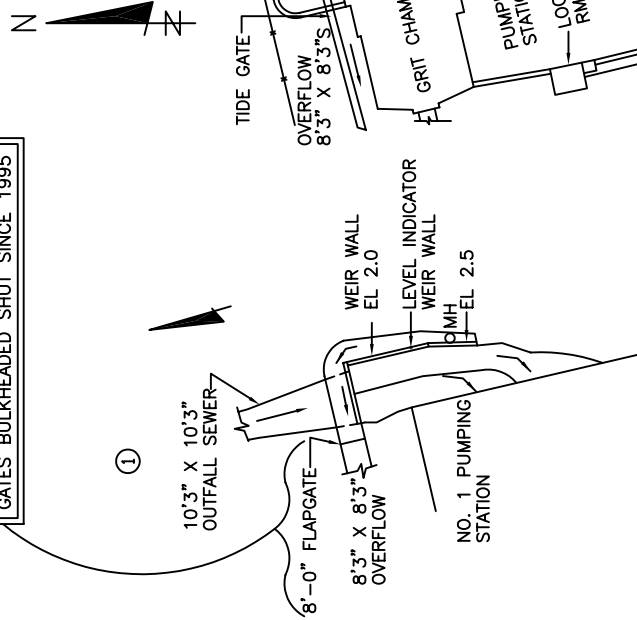
Regulators, Inflatable Dams and Other Structures

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 THE OUTFALL TO THE OUTFALL MONITORING SYSTEM.

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

GATES BULKHEADED SHUT SINCE 1995



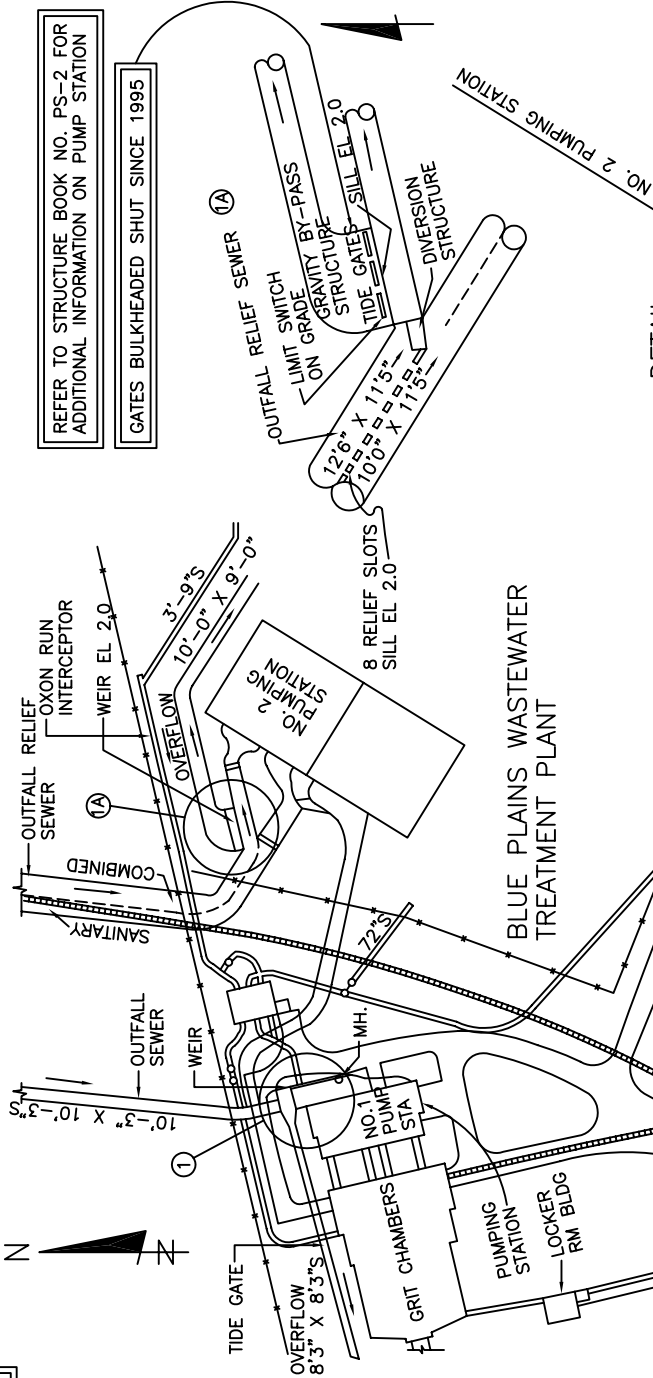
DETAIL
NOT TO SCALE

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 THE OUTFALL TO THE OUTFALL MONITORING SYSTEM.



DETAIL
NOT TO SCALE



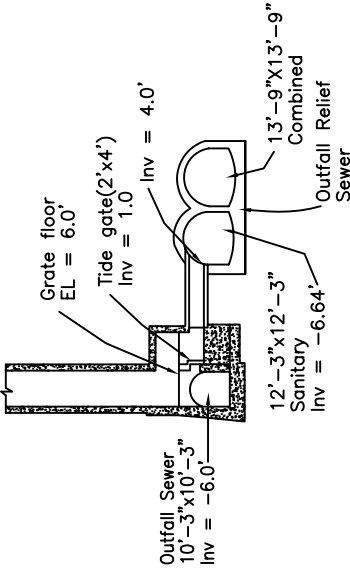
PLAN

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

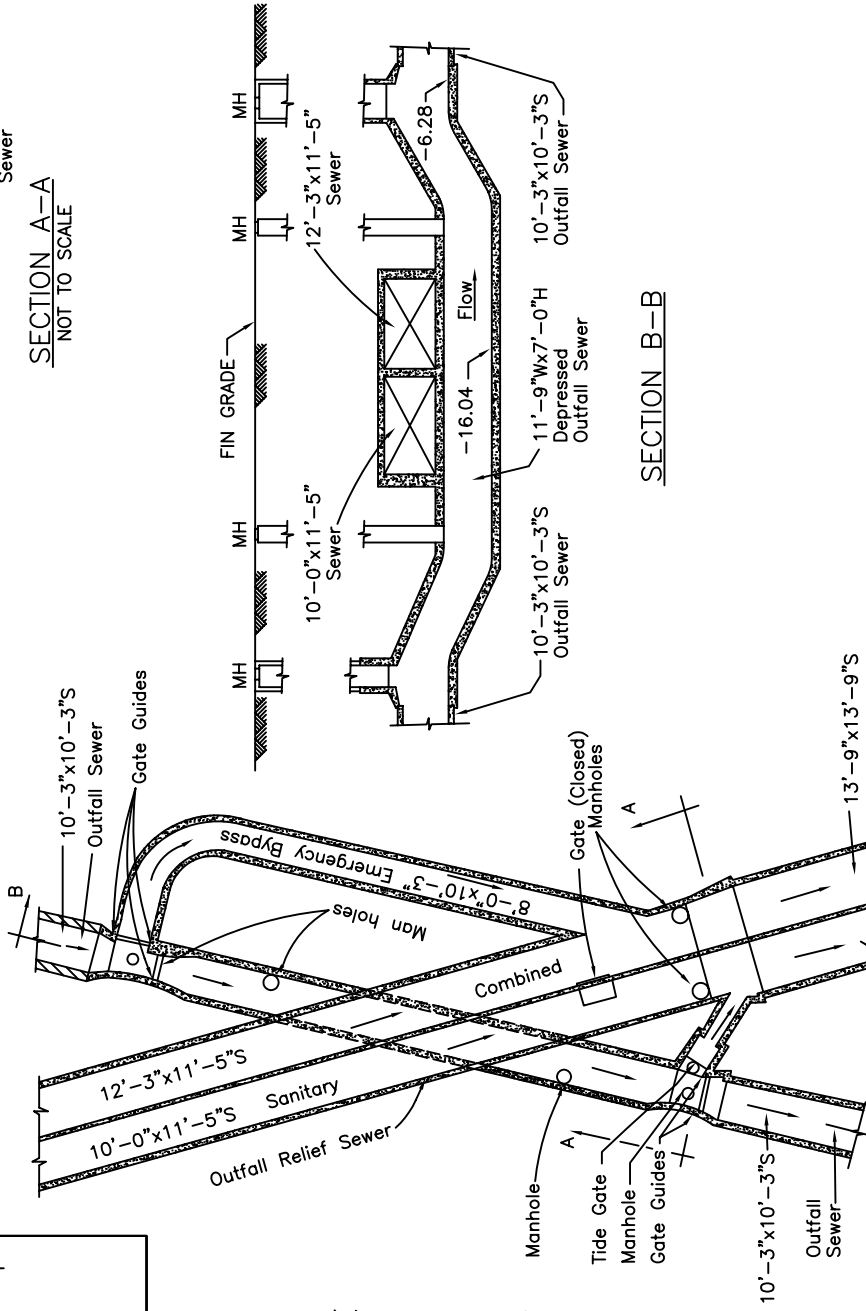
STRUCTURE NO.
1, 1A

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

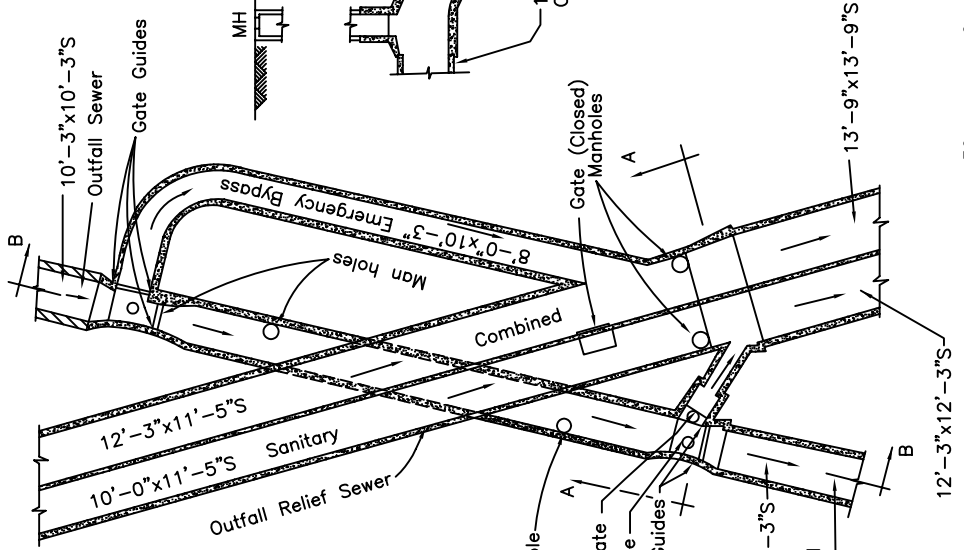
The Overflow Structure has a side Overflow Weir. The Overflow is formed by a masonry dam. The Outfall Sewer passes through the structure and the overflow occurs during peak flows. There is a Tide Gate in the chamber preventing any back up from Outfall Relief Sewer. Approximately 140 ft. north of the structure there is an Emergency By-pass. By-pass was observed to be open 2/5/04.



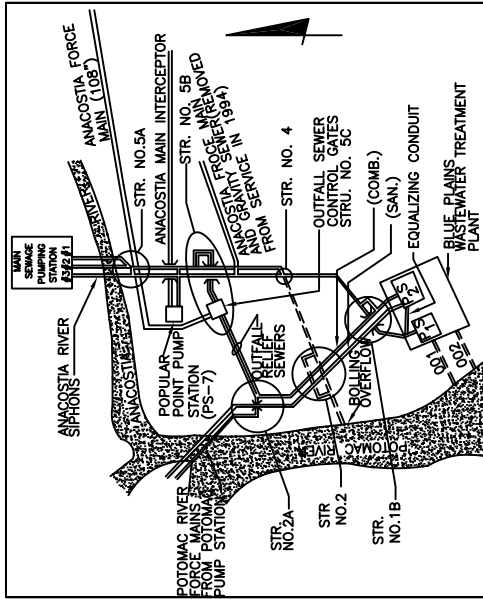
**SECTION A-A
NOT TO SCALE**



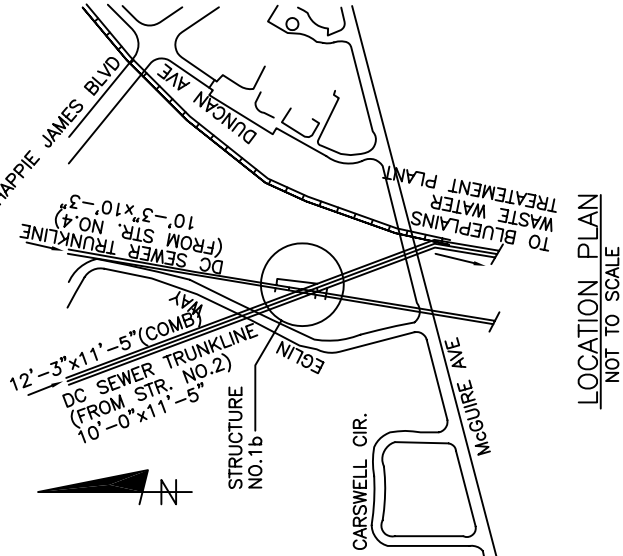
**SECTION B-B
NOT TO SCALE**



STRUCTURE NO.
1b



**SCHEMATIC FLOW PLAN
NOT TO SCALE**



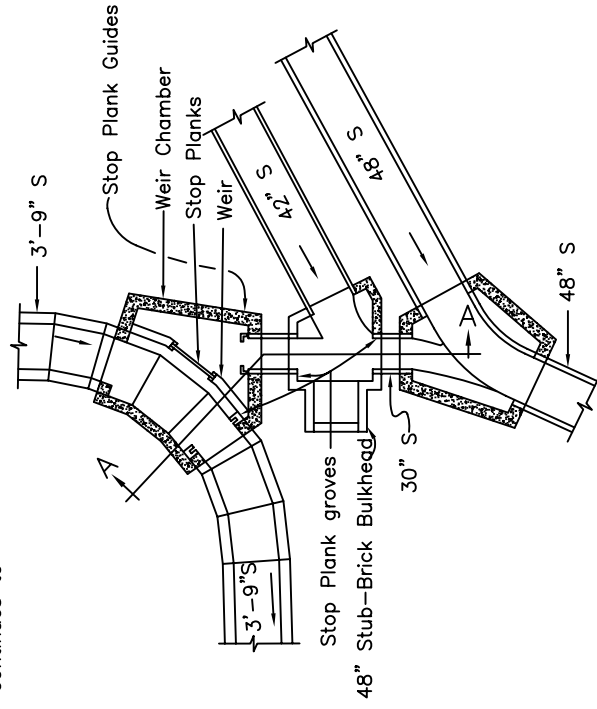
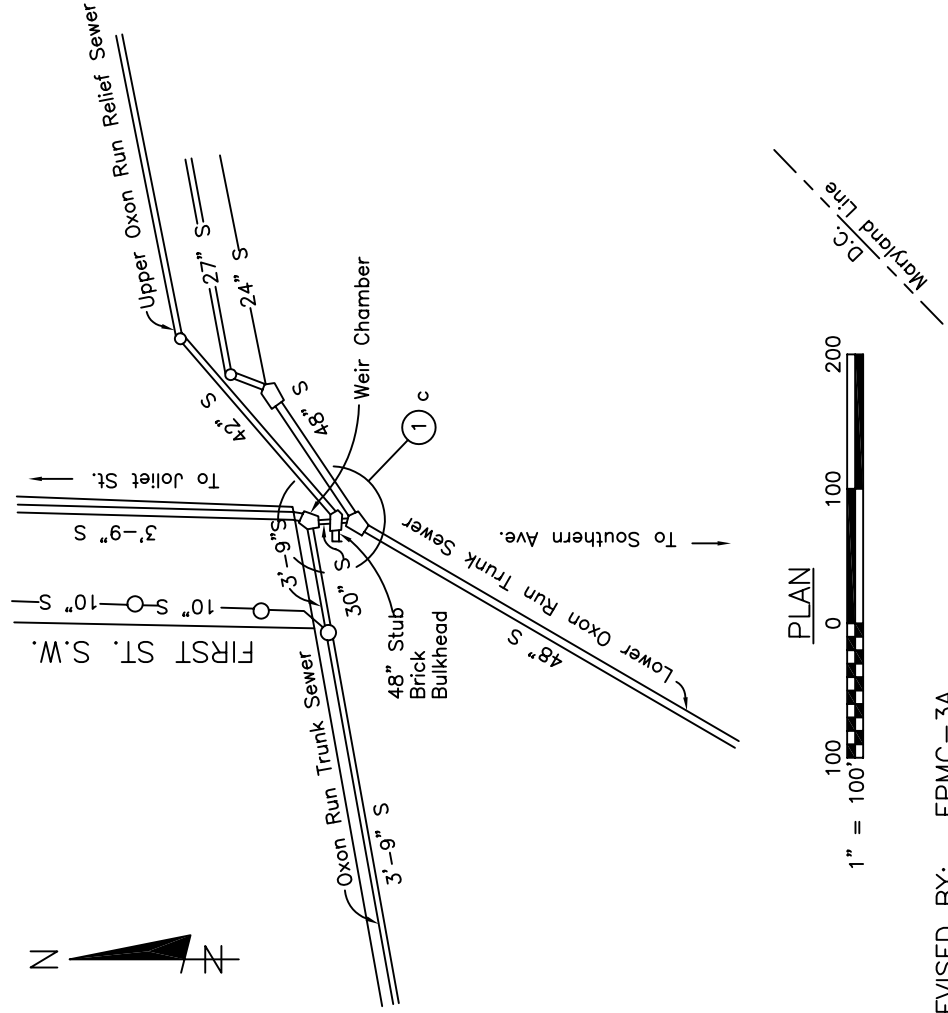
**LOCATION PLAN
NOT TO SCALE**

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

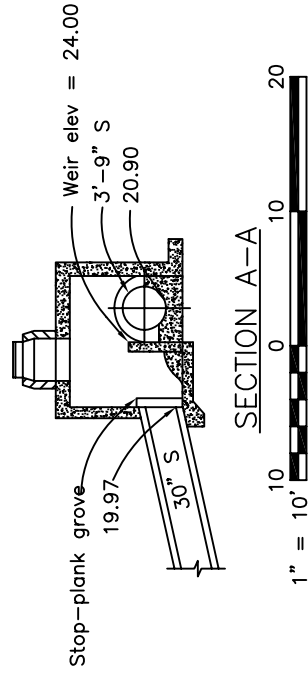
STRUCTURE NO. 1C, OXON RUN TRUNK RELIEF SEWER, 1st STREET, SOUTH OF JOLIET STREET, EXTENDED, S.W. The Overflow Structure has a side Overflow Weir located in a Diversion and Overflow Chamber. The 3-ft. 9-in. sewer enters the Overflow Chamber and the continuation of the 3-ft. 9-in. sewer conveys the Sanitary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

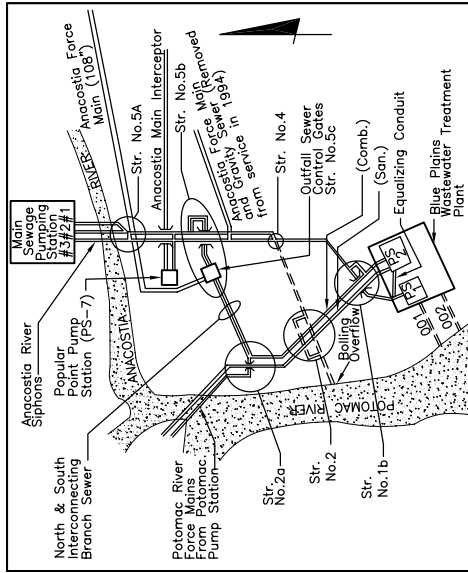


DETAIL



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

STRUCTURE NO.
 1c

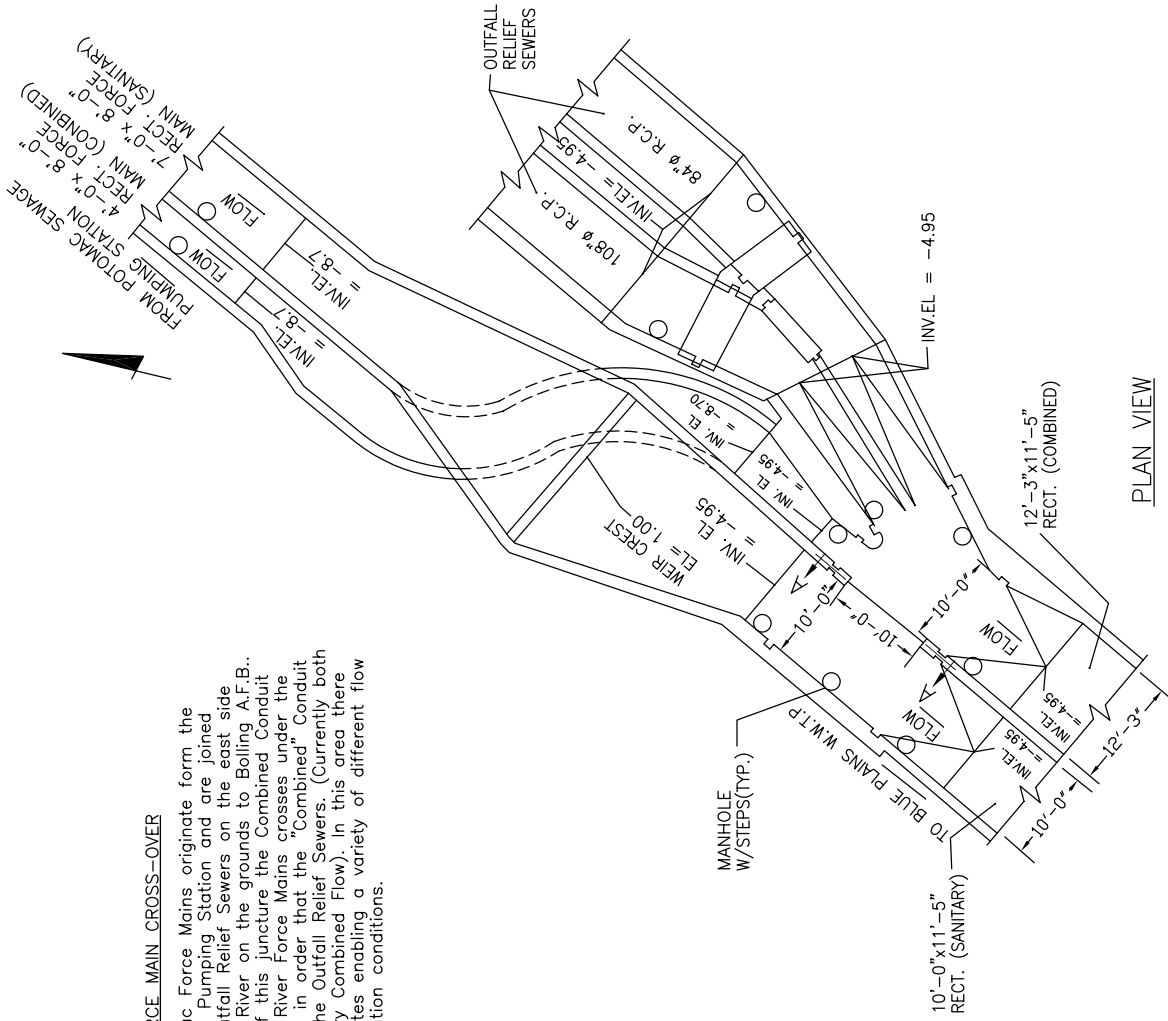


SCHEMATIC FLOW PLAN

NOT TO SCALE

2a POTOMAC FORCE MAIN CROSS-OVER

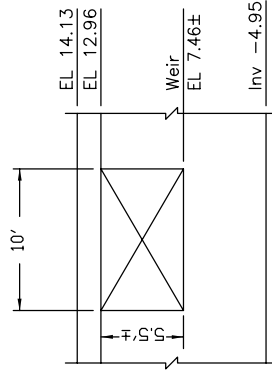
The Twin Potomac Force Mains originate from the Potomac Sewage Pumping Station and are joined with the Twin Outfall Relief Sewers on the east side of the Potomac River on the grounds to Bolling A.F.B. Just upstream of this juncture the Combined Conduit of the Potomac River Force Mains crosses under the 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



SECTION A-A

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

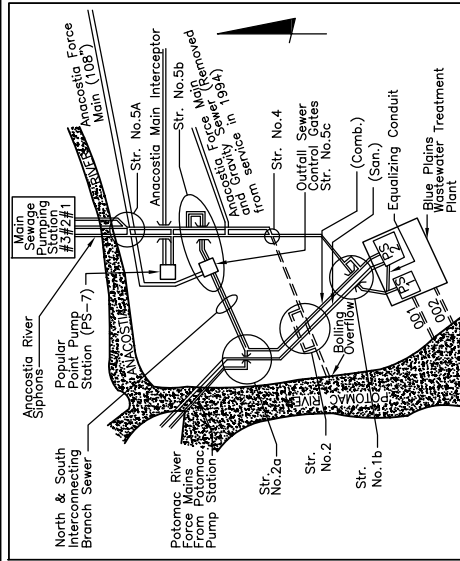
STRUCTURE NO.
 2a

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

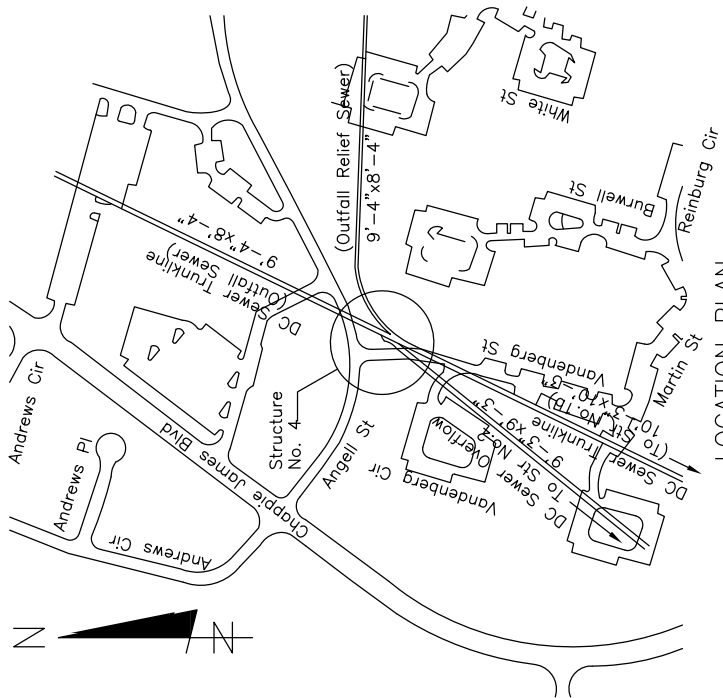
The Overflow Structure has a side Overflow Weir located in a Junction and an Overflow Structure both 9 ft.-4 in. by 8 ft.-4 in. basket-handle outfall sewers enter the junction and Overflow Structure and a 10 ft.-3 in. by 10 ft.-3 in. semi-elliptical sewer conveys the normal discharge to Blue Plains Wastewater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

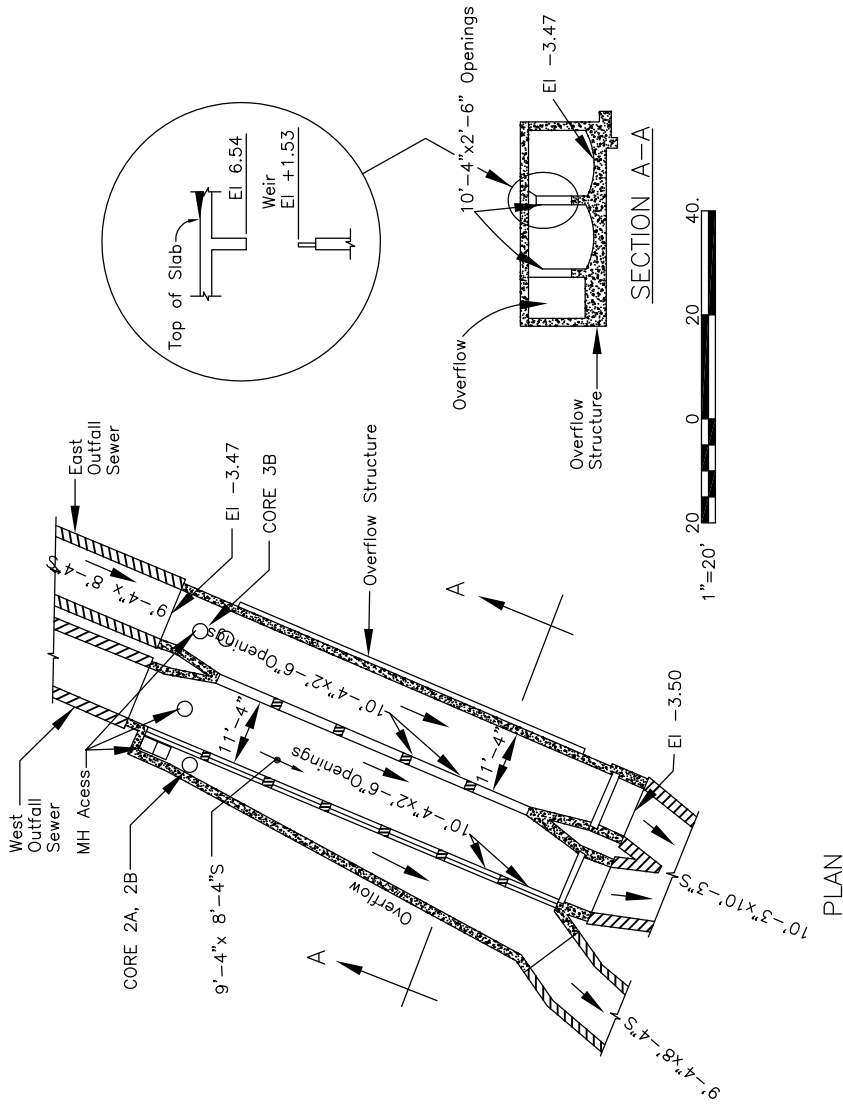


SCHEMATIC FLOW PLAN
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE

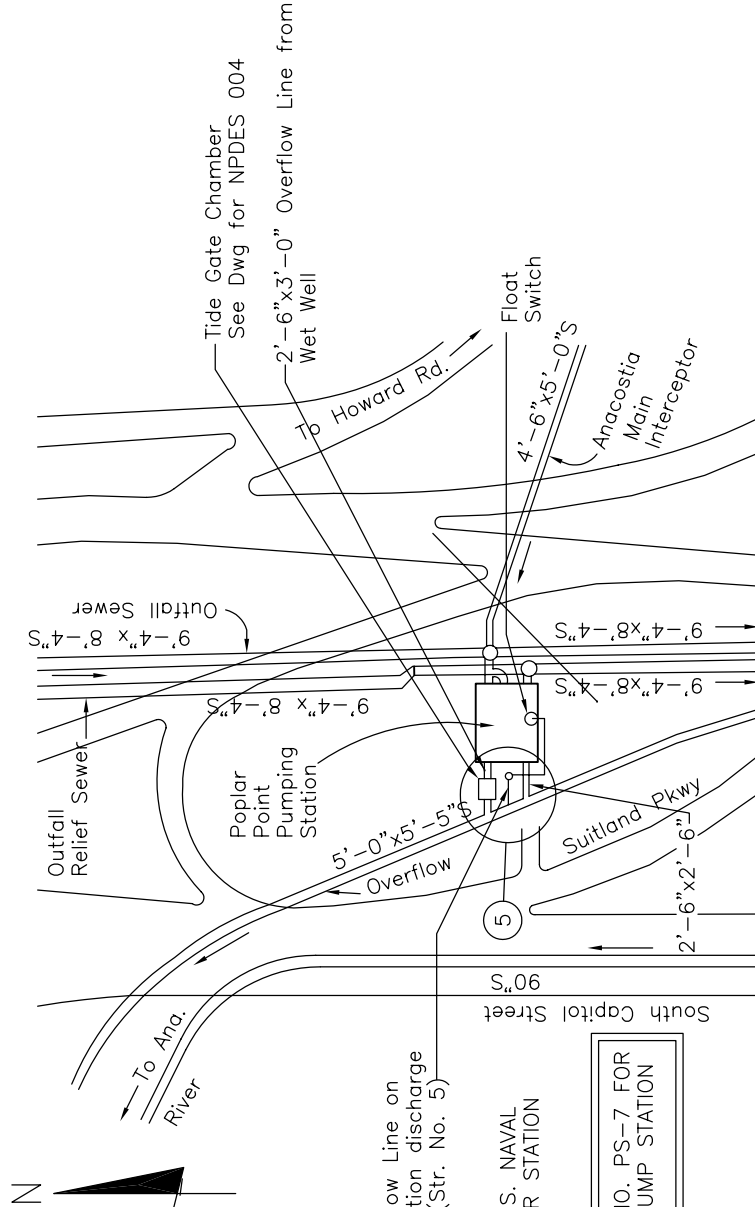
REVISED BY: EPMC-3B
REVISED DATE: JANUARY 2011
ASSOCIATED NPDES OUTFALL # 003



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.

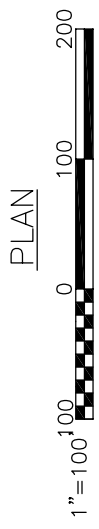
There is a level sensor which indicates overflow to the outfall Overflow Monitoring System located at Blue Plains Pumping Station No. 2.



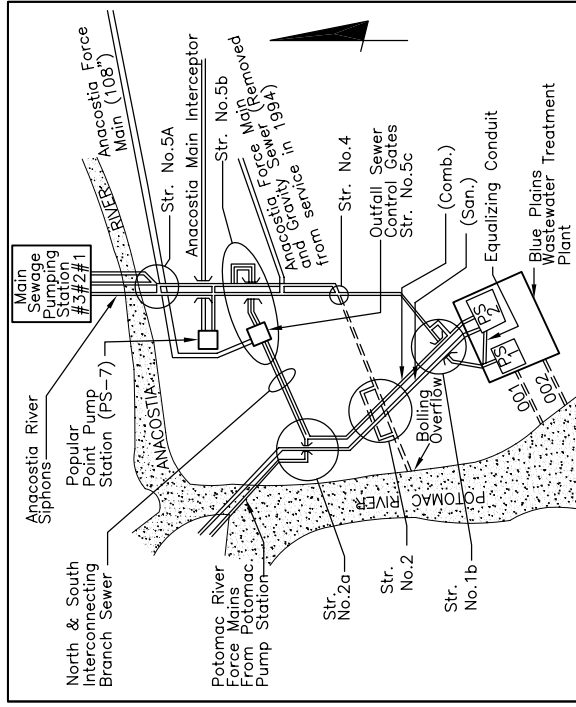
10" Overflow Line on Pump Station discharge manifold (Str. No. 5)

U.S. NAVAL AIR STATION

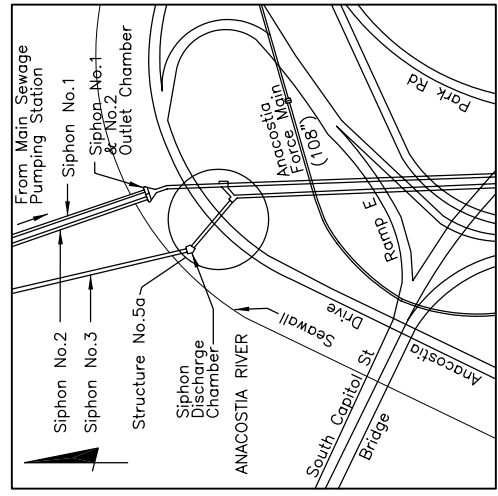
REFER TO STRUCTURE BOOK NO. PS-7 FOR ADDITIONAL INFORMATION ON PUMP STATION



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



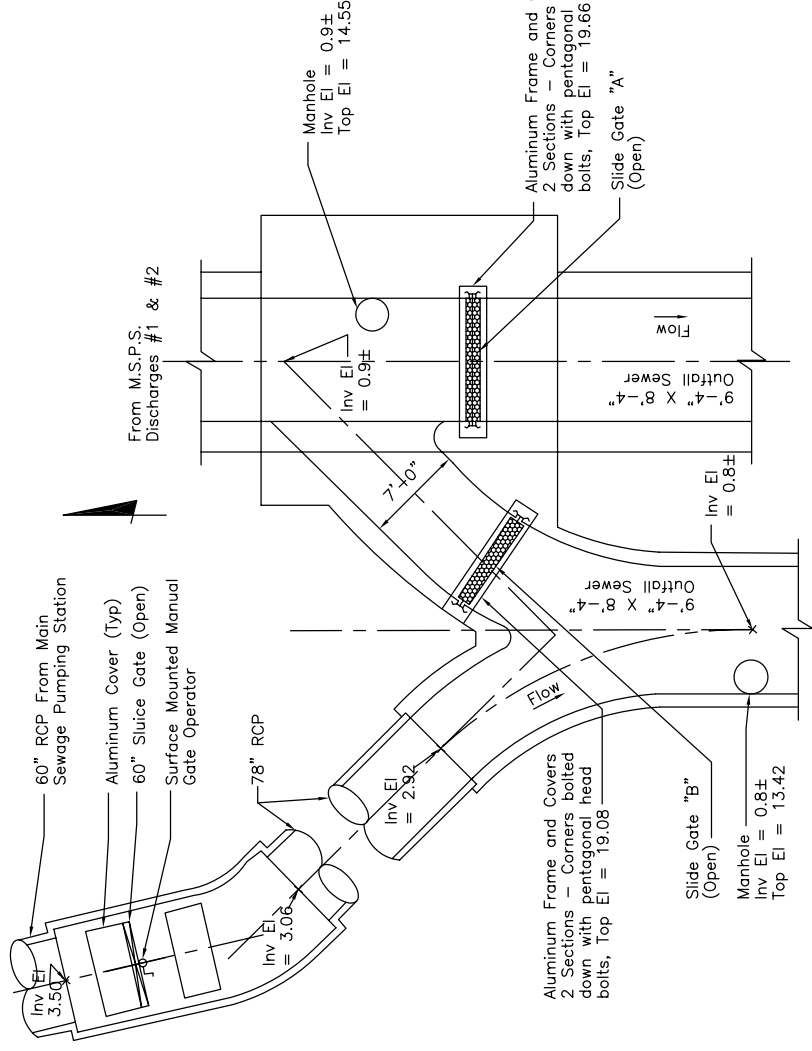
SCHEMATIC FLOW PLAN
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE

STRUCTURE NO. 5a MAIN SEWAGE PUMPING STATION SIPHONS

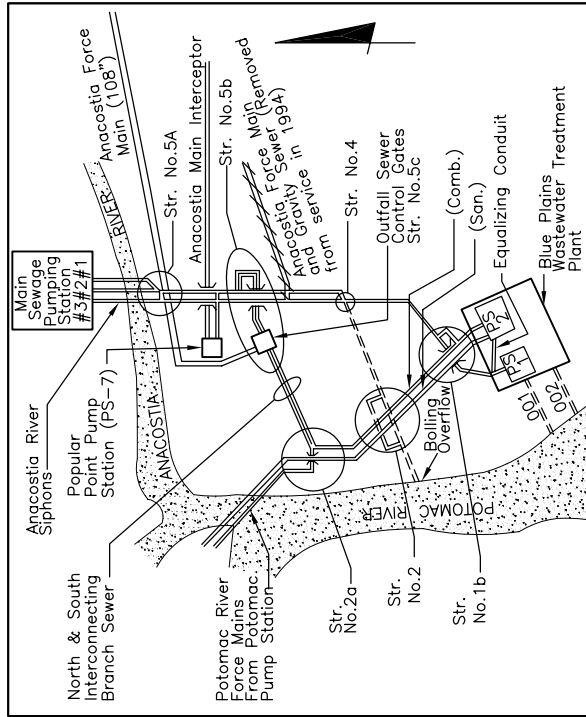
Main Sewage Pumping Station pumps across the Anacostia River via three 60-inch inverted siphons. At the downstream Siphon Chamber for Siphons No. 1 and No. 2 there are no provisions for flow control. There are two Slide Gates at the confluence with Siphon No. 3, and the start of the Twin Outfall Sewers.



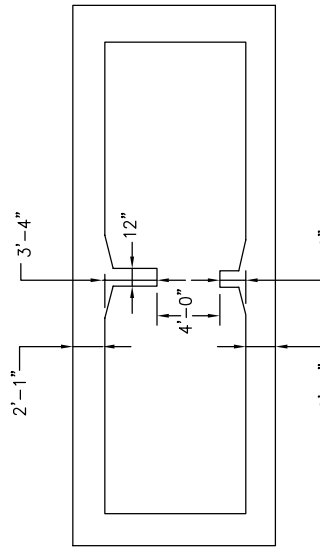
PLAN VIEW

MAIN SEWAGE PUMPING STATION SIPHONS
NOT TO SCALE

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



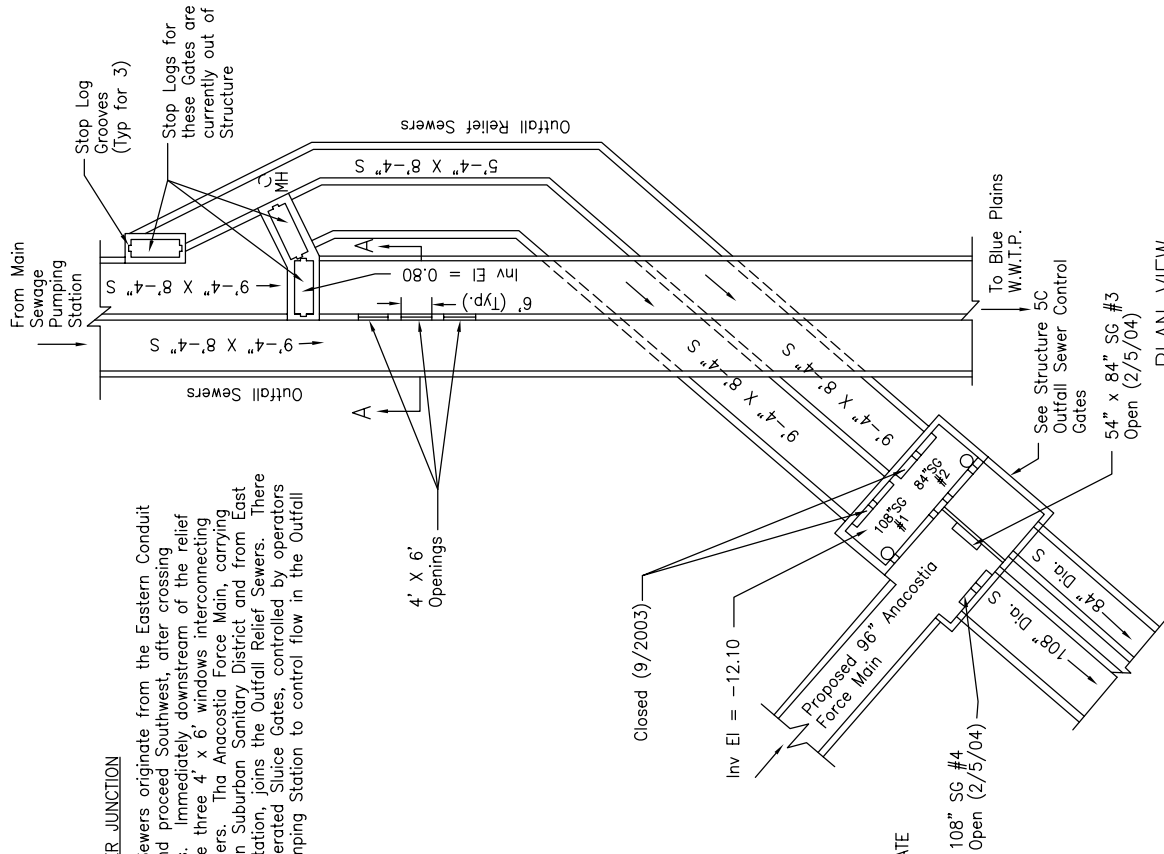
SCHEMATIC FLOW PLAN
NOT TO SCALE



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 junction, 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.



PLAN VIEW

OUTFALL RELIEF JUNCTION

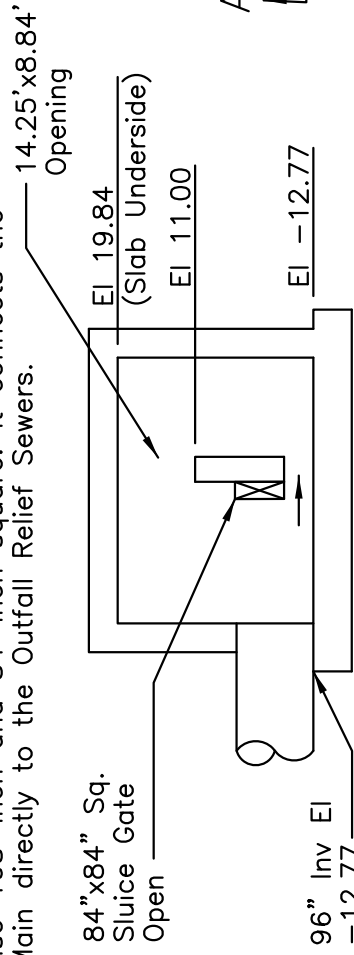
NOT TO SCALE

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

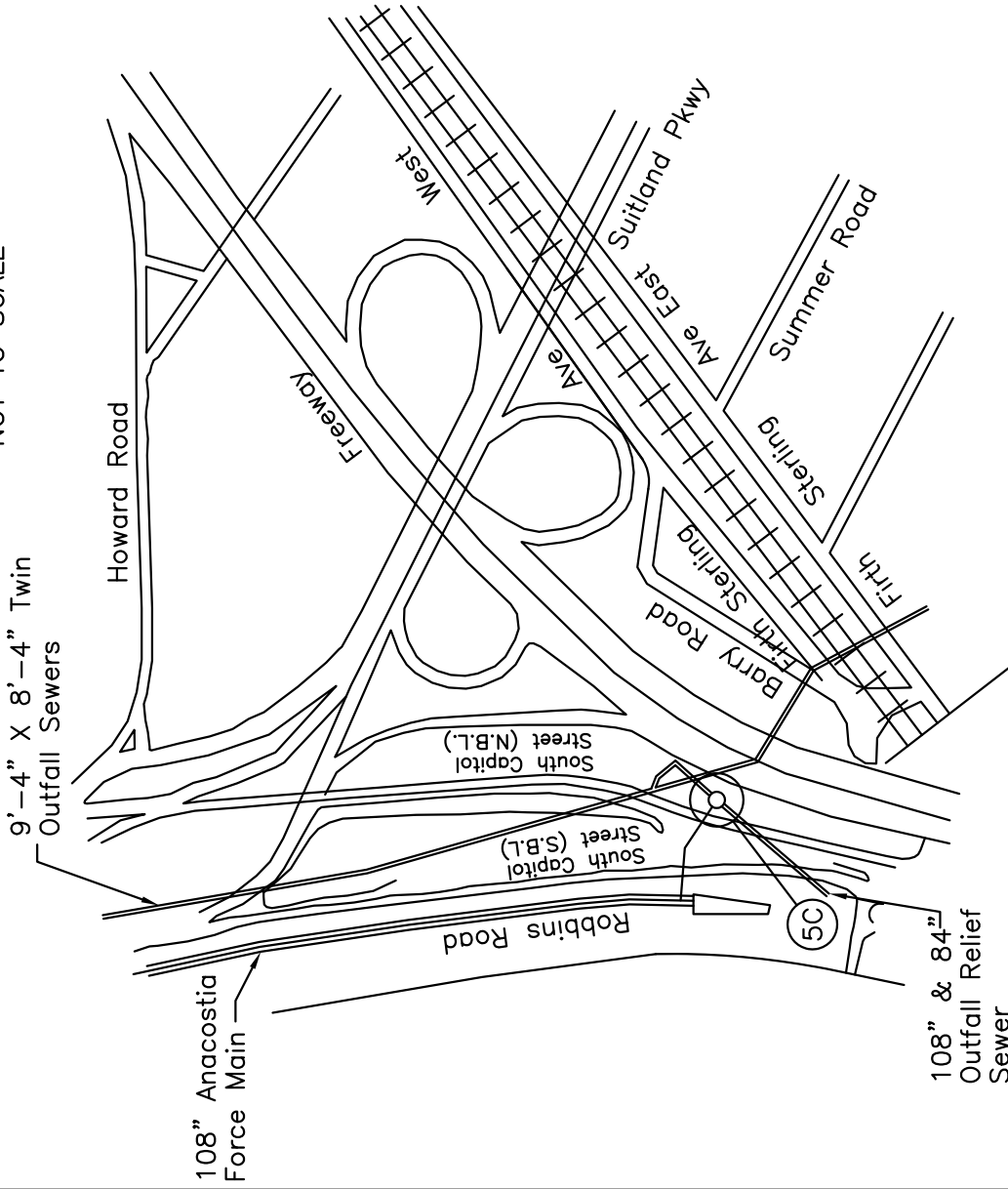
STRUCTURE NO.
5b

STRUCTURE NUMBER 5C — OUTFALL SEWER CONTROL GATES

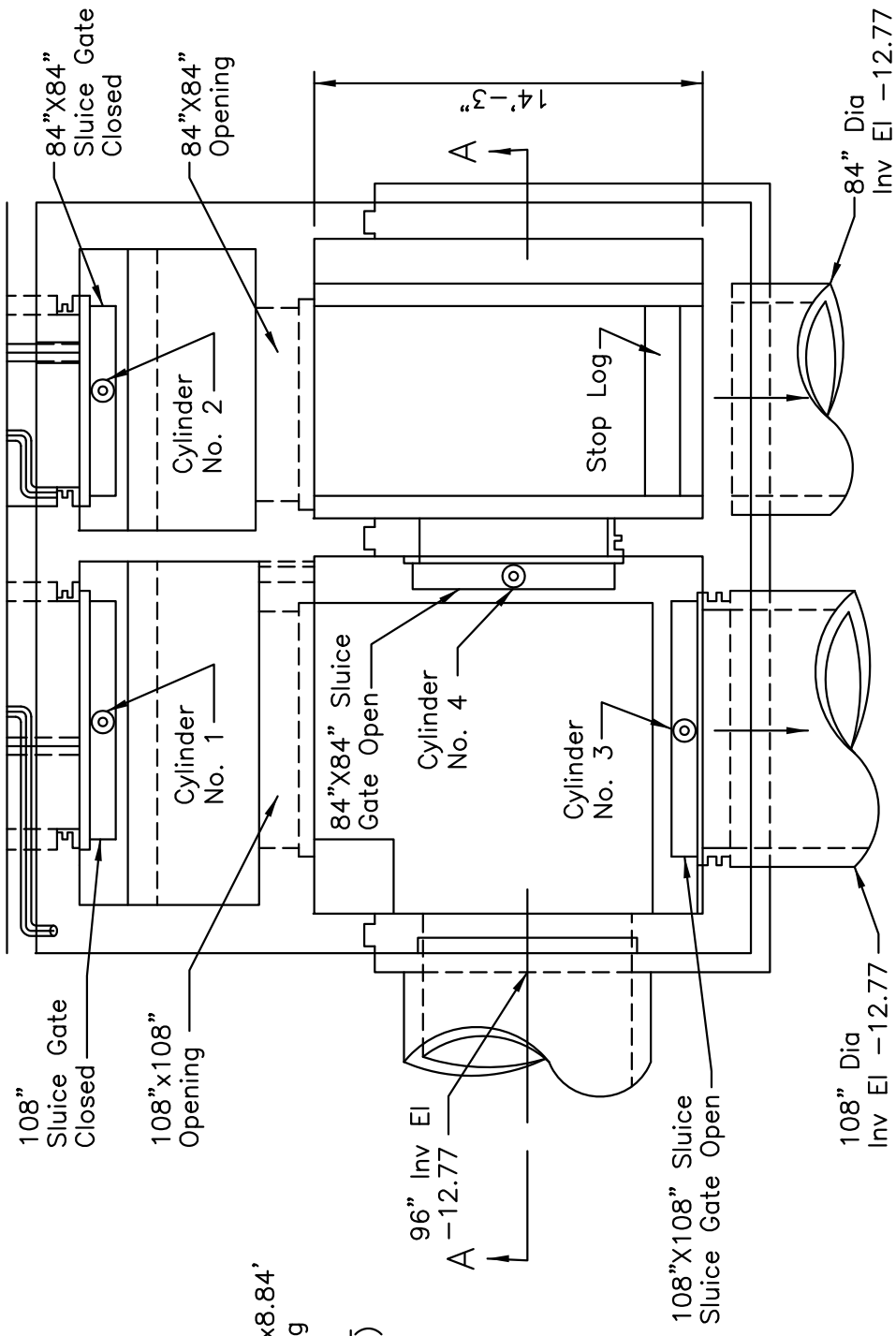
This structure is constructed in two separate parts. The first part which has been operational since 1989 includes two Hydraulic Cylinder operated Sluice Gates which are alternately operated from the Main Sewage Pumping Station and which connect the Outfall Sewers to the Outfall Relief Sewers which flow to the Blue Plains Wastewater Treatment Plant. The second part which has been operational since 1994 has two additional Hydraulic Cylinder operated Sluice Gates also 108-inch and 84-inch square. It connects the WSSC Anacostia Force Main directly to the Outfall Relief Sewers.



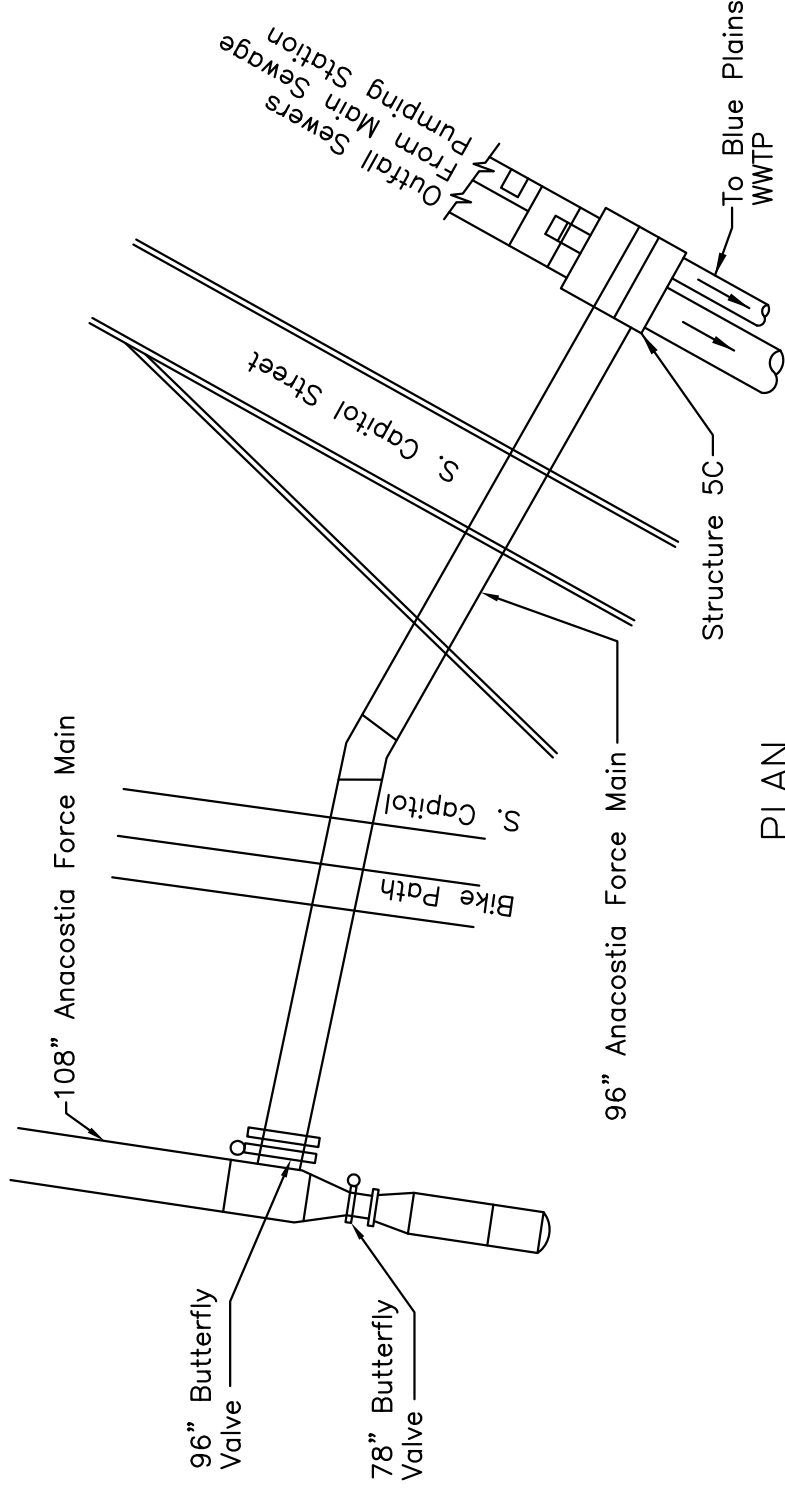
SECTION A-A
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE



PLAN GATE CHAMBER
NOT TO SCALE



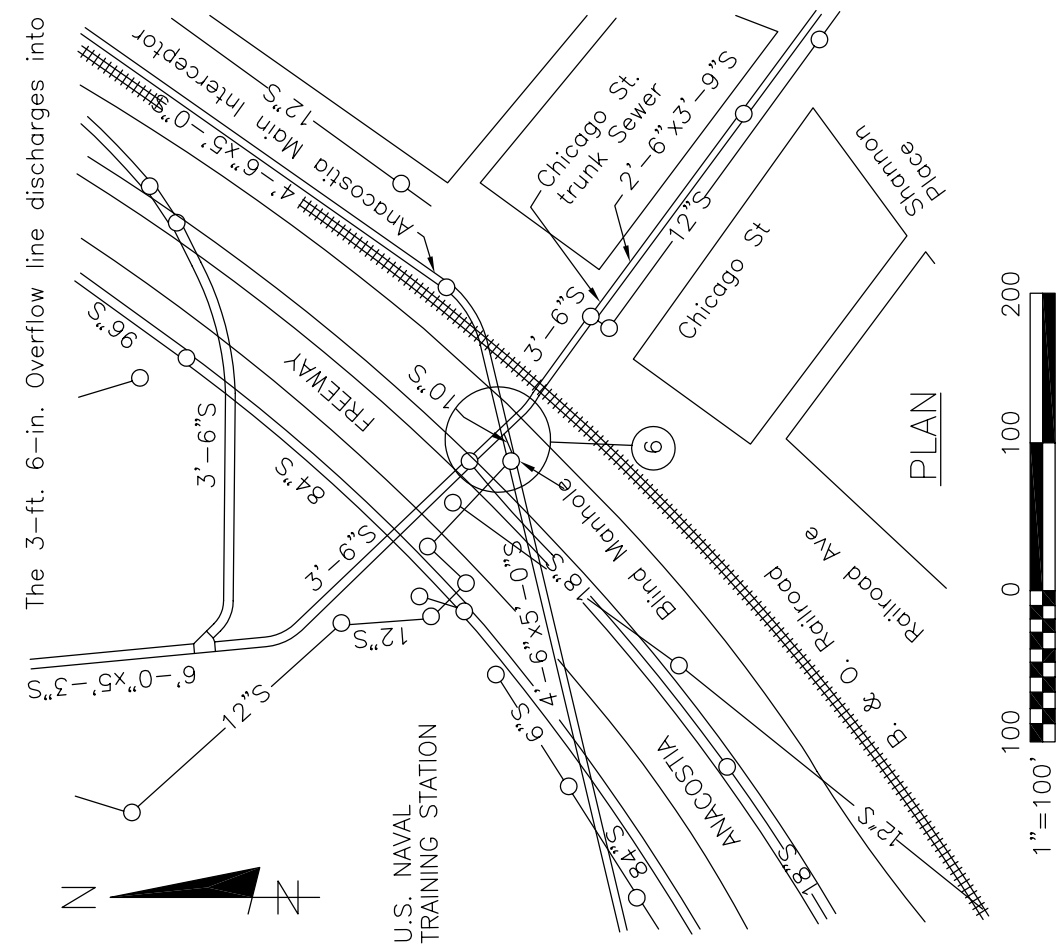
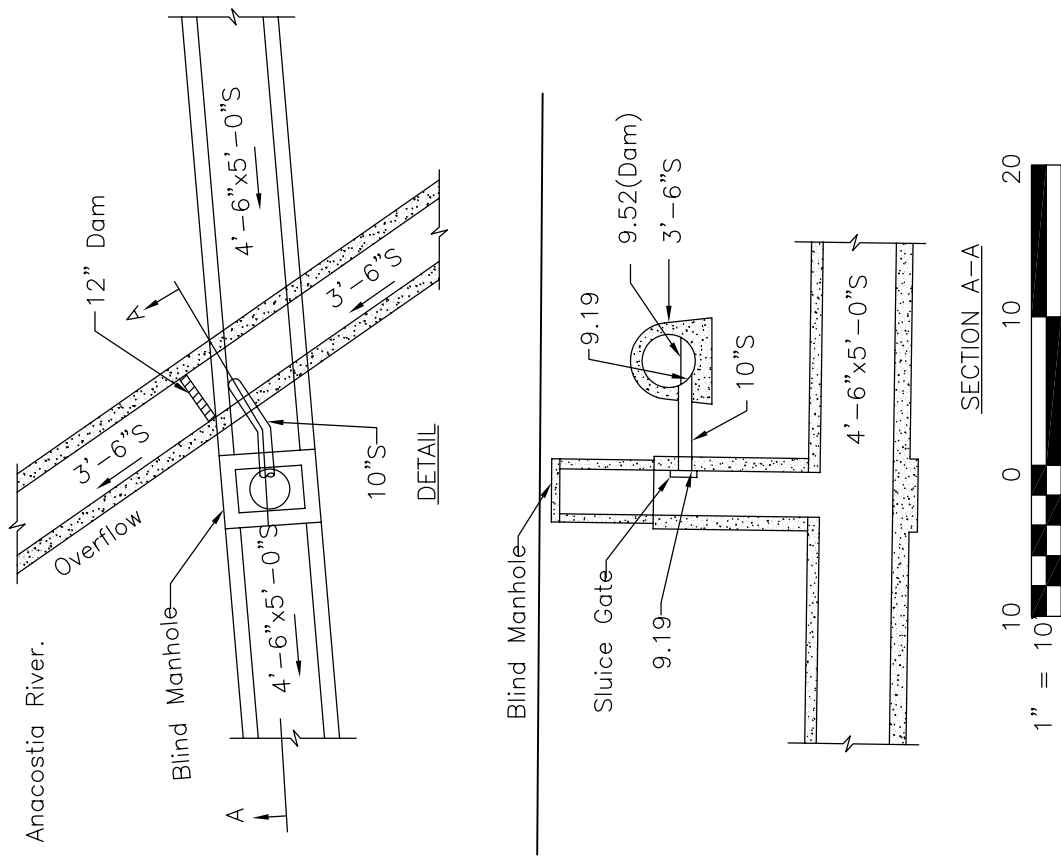
PLAN
NOT TO SCALE

REVISED BY: EPMC-3B
 REVISED DATE: JANUARY 2011
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
5C

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.

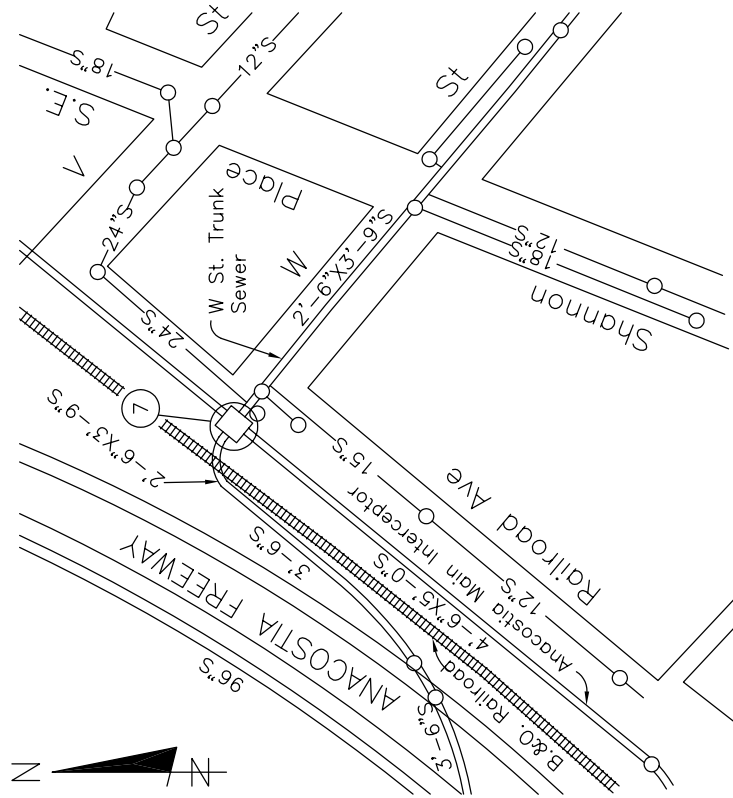


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 005

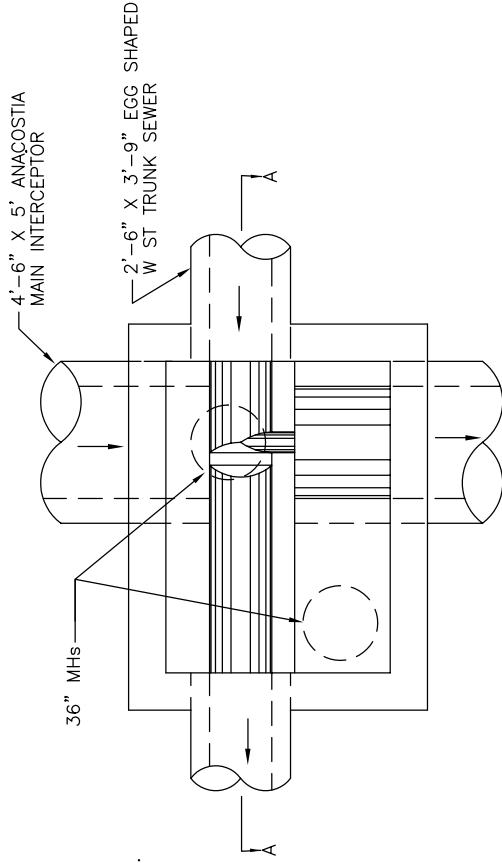
STRUCTURE NO.
 6

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

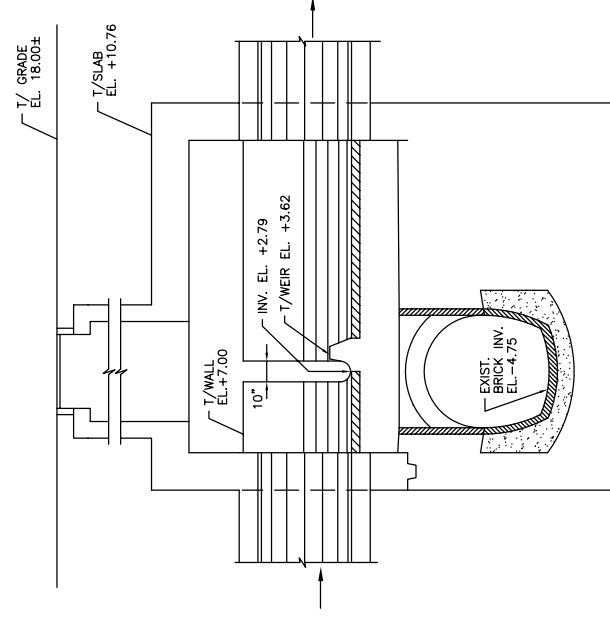
A 2-ft. 6-in. by 3-ft. 9-in. Combined Sewer enters the Structure and a 10-inch slot conveys the Dry-Weather Flow into the Anacostia Main Interceptor. The 2-ft. 6-in. by 3-ft. 9-in. Overflow line discharges into the Anacostia River.



PLAN
SCALE: 1" = 100'



PLAN

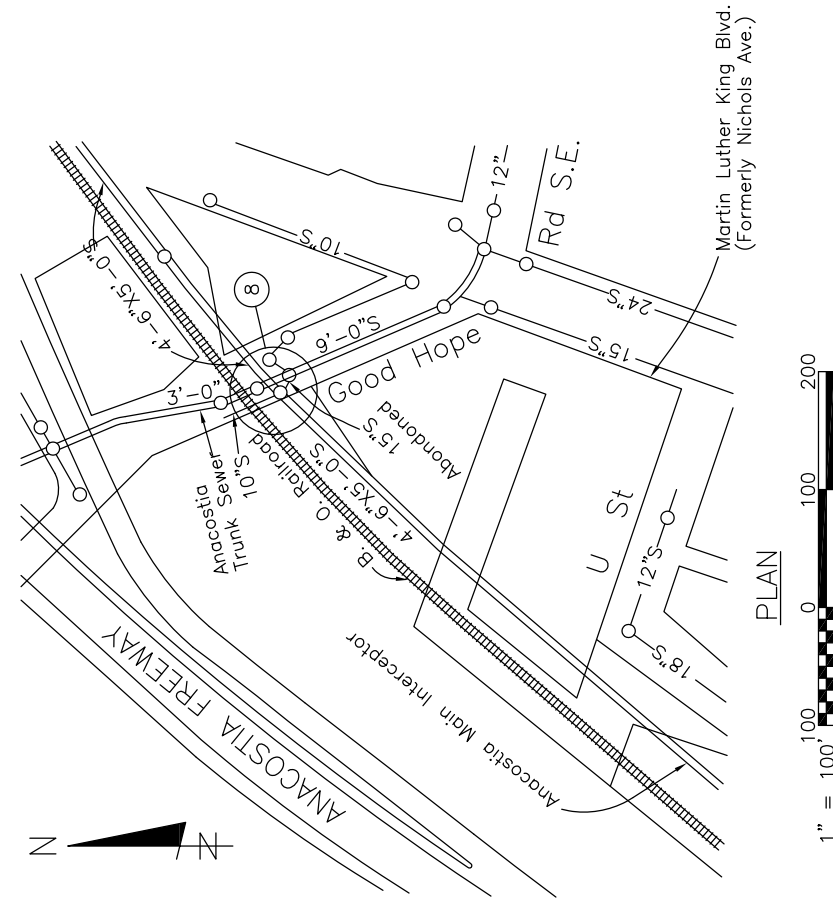
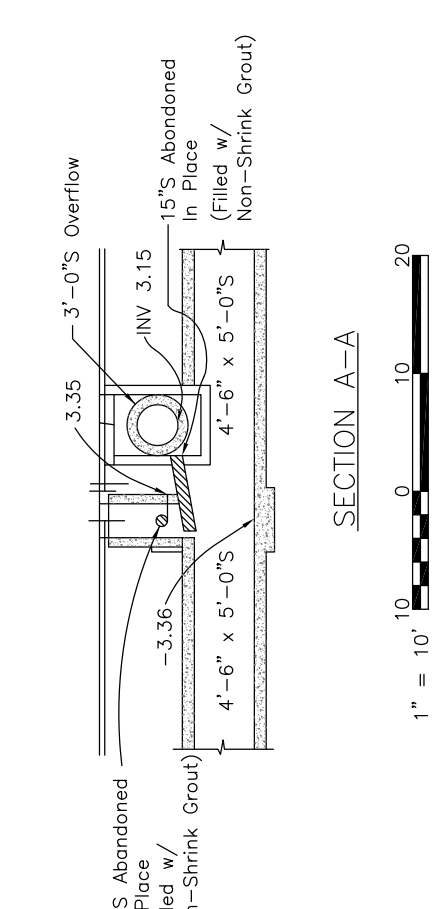
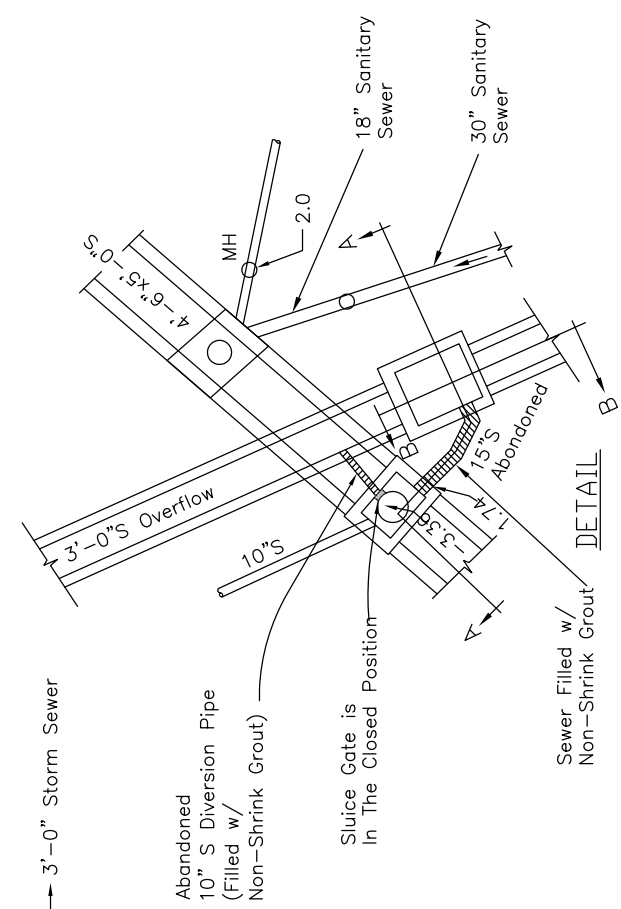
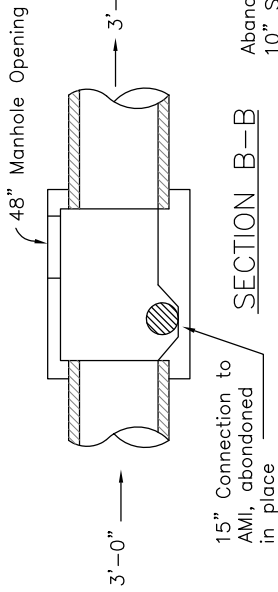


SECTION A

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.

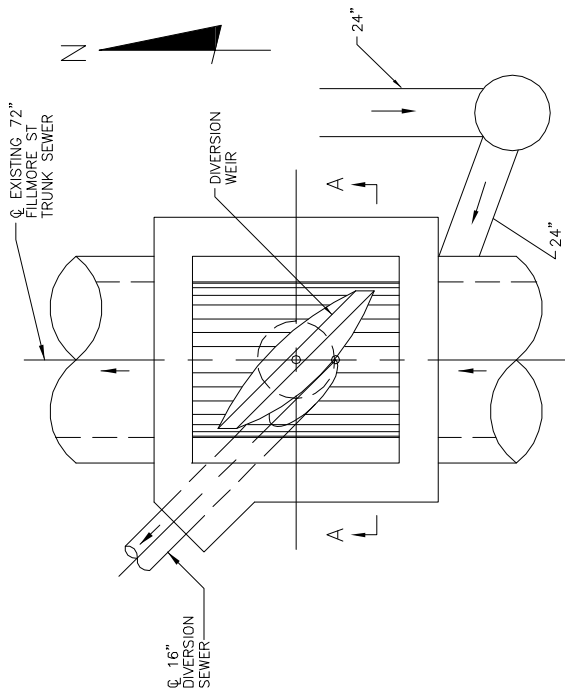
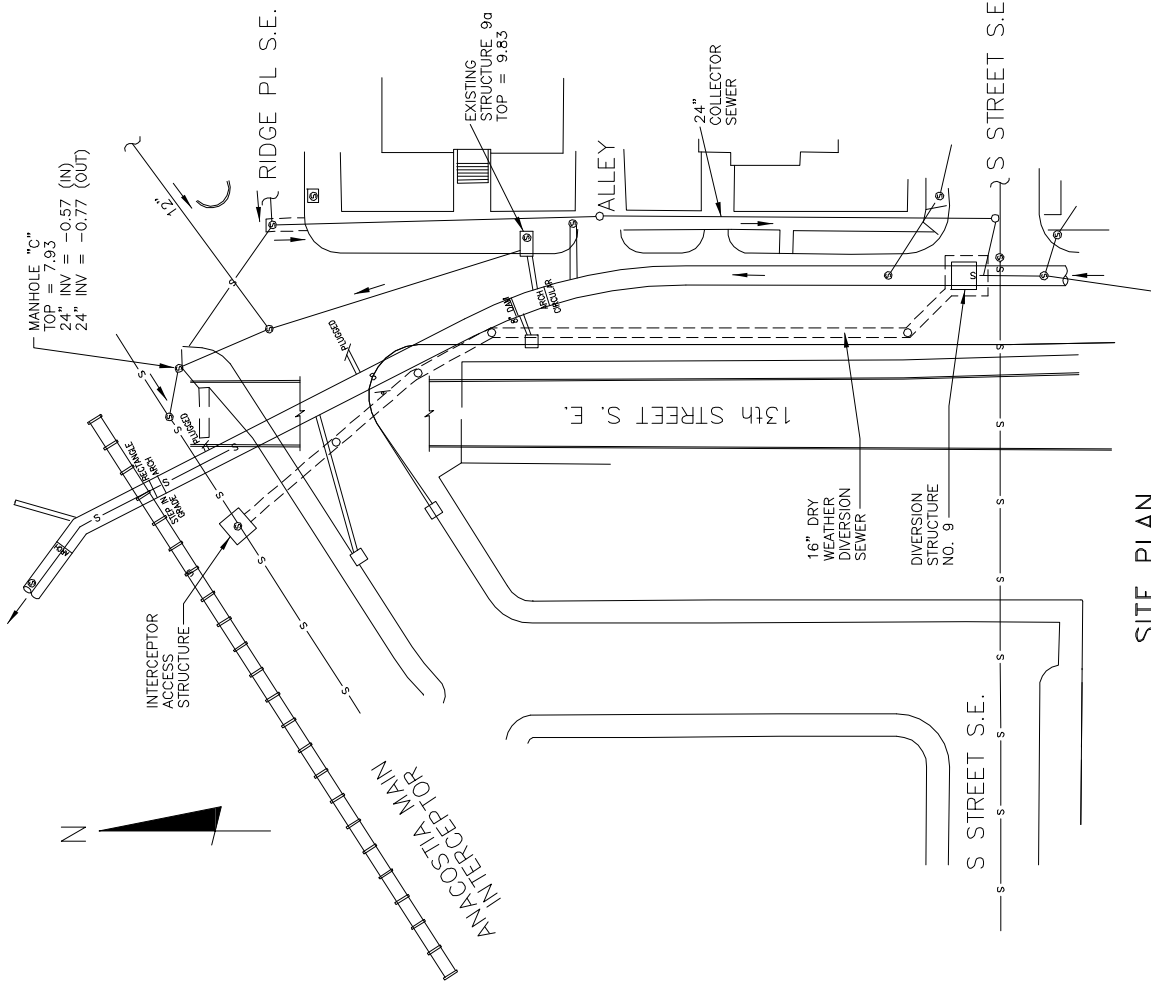


REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2015
 ASSOCIATED NPDES OUTFALL # 006

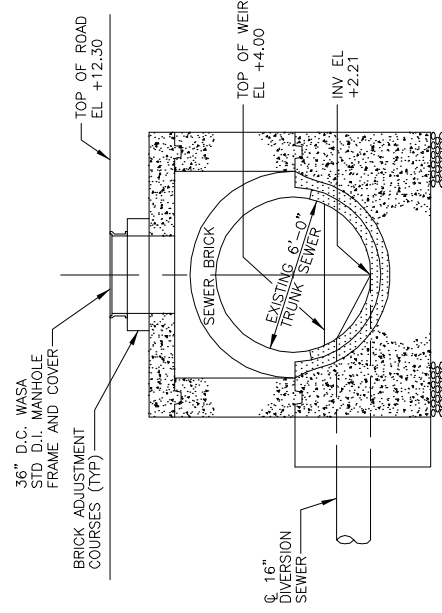
THIS OVERFLOW HAS BEEN ELIMINATED
 BASED ON UPSTREAM SEPARATION

STRUCTURE NO.
 8

Structure no.9 Fillmore Trunk Sewer, 13th Street and S. Street S.E.
 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.



SECTIONAL PLAN AT EL 4.05
 NOT TO SCALE



SECTION A-A
 NOT TO SCALE

SITE PLAN
 NOT TO SCALE

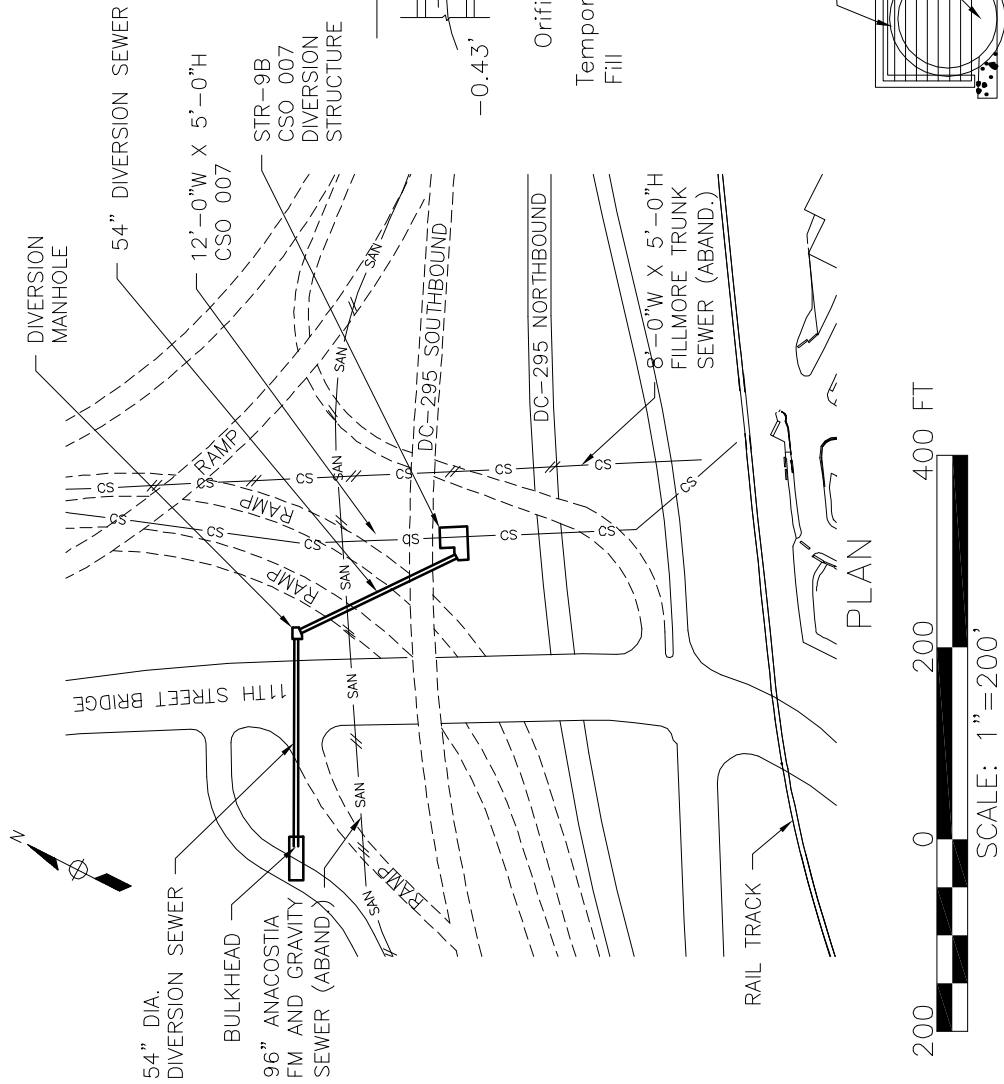
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
 9

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.

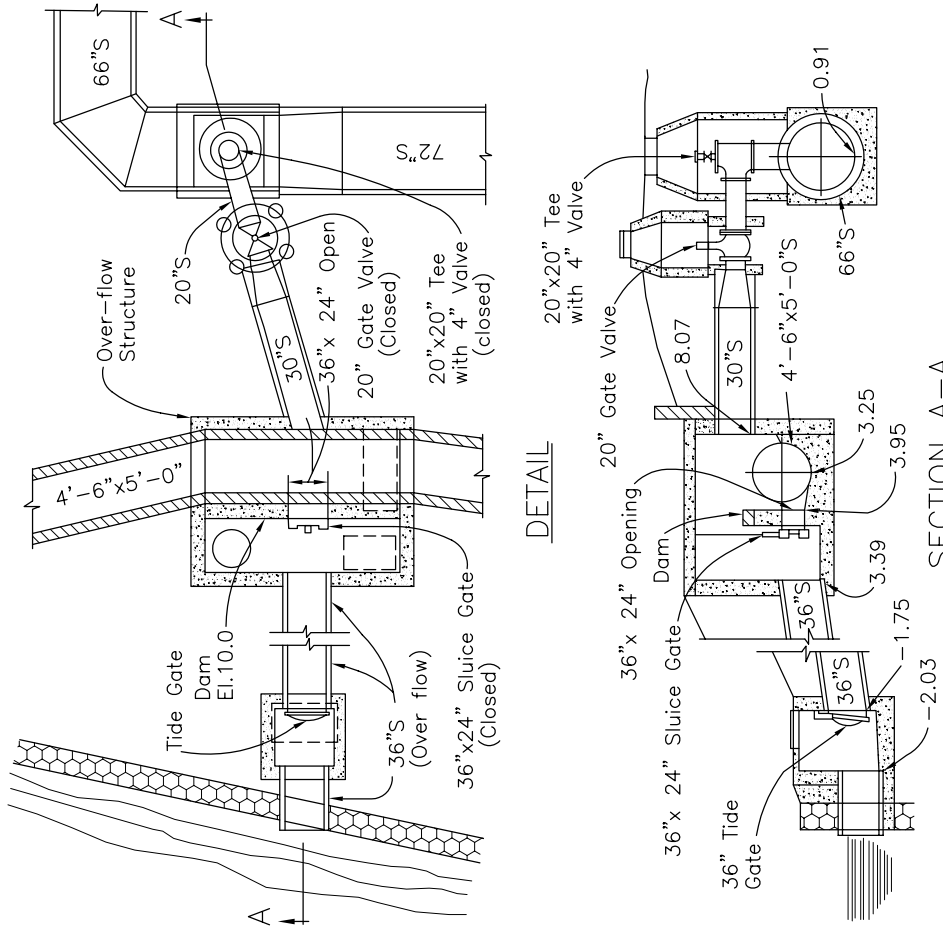
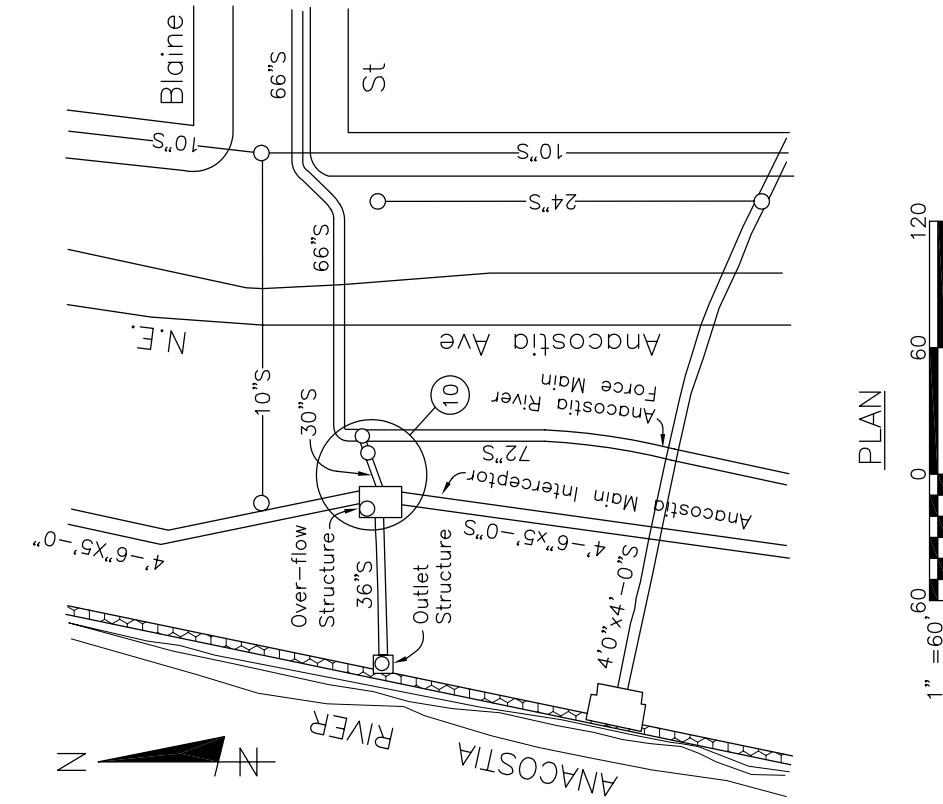


REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: FEBRUARY 2013
 ASSOCIATED NPDES OUTFALL # 007

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.

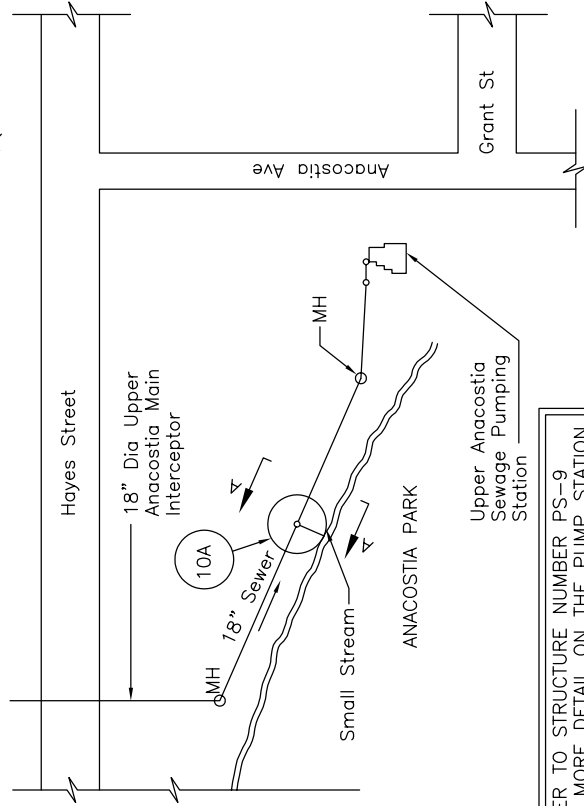
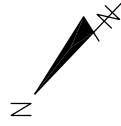
The 36-inch Overflow Line discharges into Anacostia River. There is an Outlet Structure and Tide Gate at the Outlet.



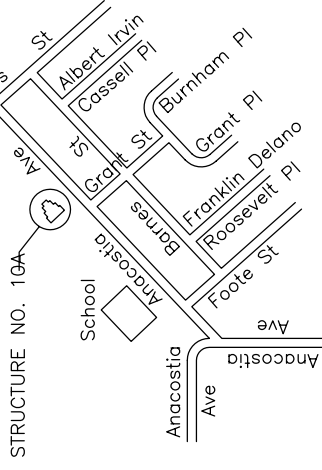
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 008

STRUCTURE NO.
 10

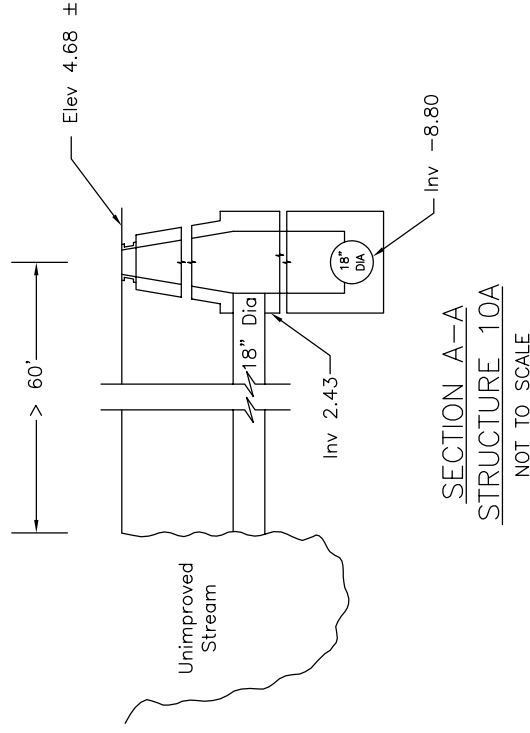
STRUCTURE 10A - HAYES STREET AND ANACOSTIA AVE. N.E.
 STRUCTURE 10A IS AN 18 INCH OVERFLOW ON THE 18 INCH UPPER ANACOSTIA MAIN INTERCEPTOR INTO A SHALLOW UNIMPROVED STREAM. THE OVERFLOW IS AN EMERGENCY RELIEF FOR THE UPPER ANACOSTIA SEWAGE PUMPING STATION. REFER TO STRUCTURE BOOK NUMBER PS-9 FOR MORE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



DETAILED LOCATION PLAN
 NOT TO SCALE



LOCATION PLAN
 NOT TO SCALE



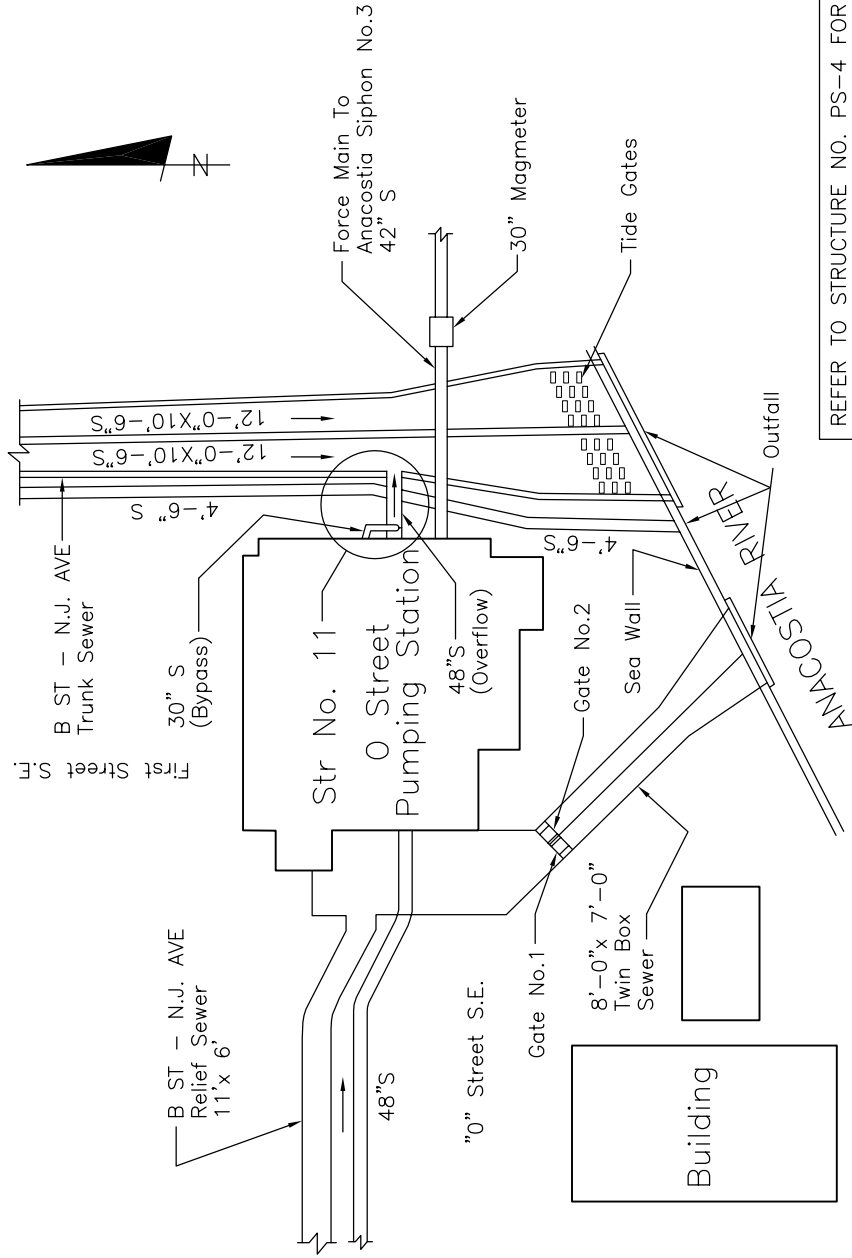
SECTION A-A
STRUCTURE 10A
 NOT TO SCALE

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.



REFER TO STRUCTURE NO. PS-4 FOR MORE DETAIL ON THE PUMP STATION.

LOCATION PLAN

"O" STREET SEWAGE PUMPING STATION

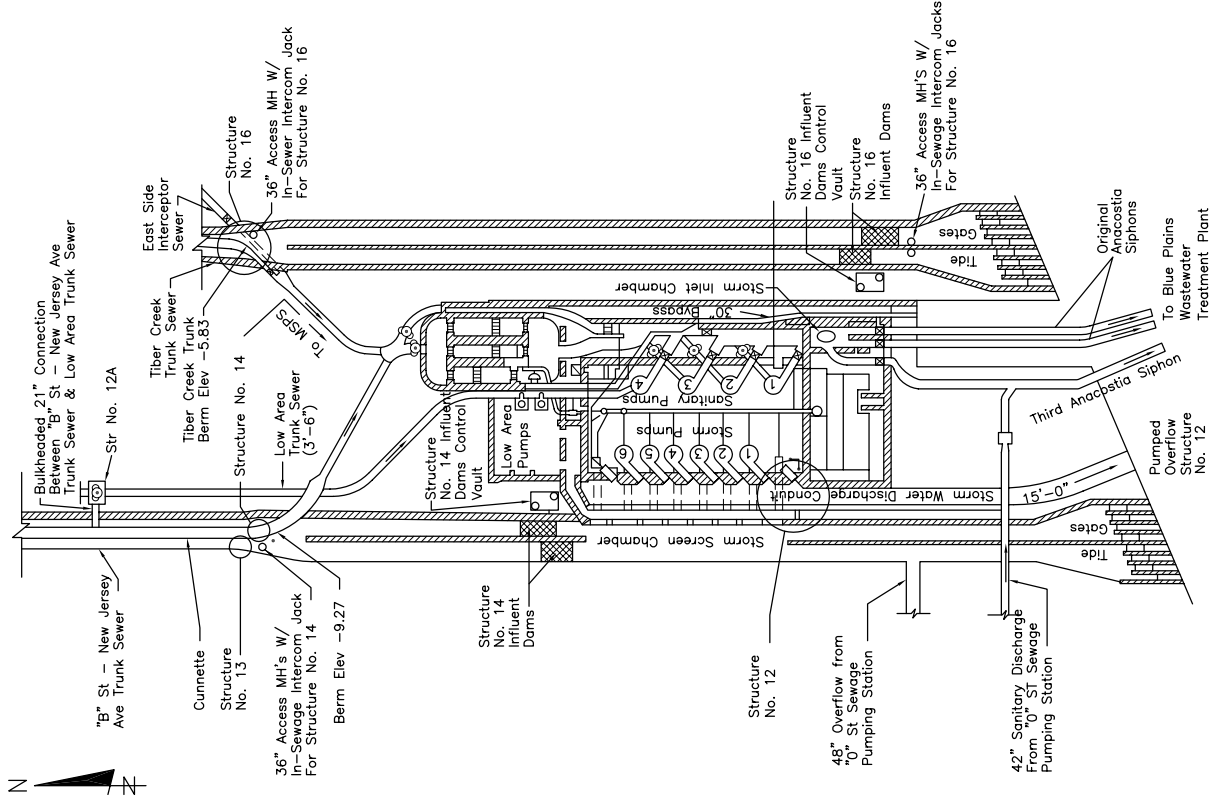
REVISED BY: EPMC-3A

REVISED DATE: OCTOBER 2004

ASSOCIATED NPDES OUTFALL # 011a

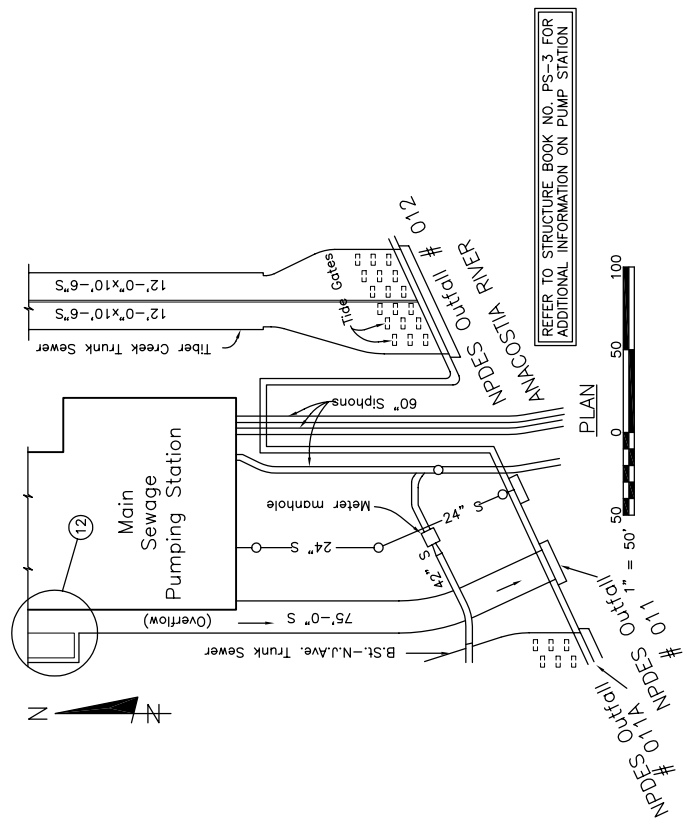
NOT TO SCALE

STRUCTURE NO.
11



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.



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

MAIN SEWAGE PUMPING STATION

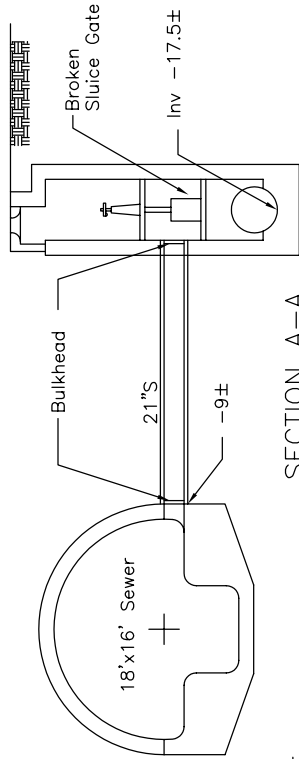
NOT TO SCALE

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

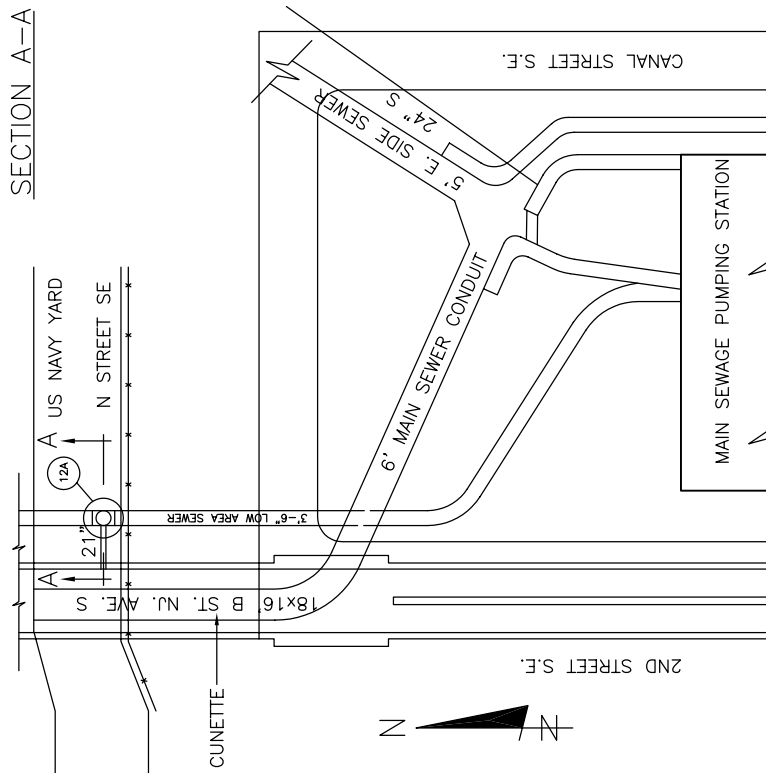
STRUCTURE NO.
12

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.



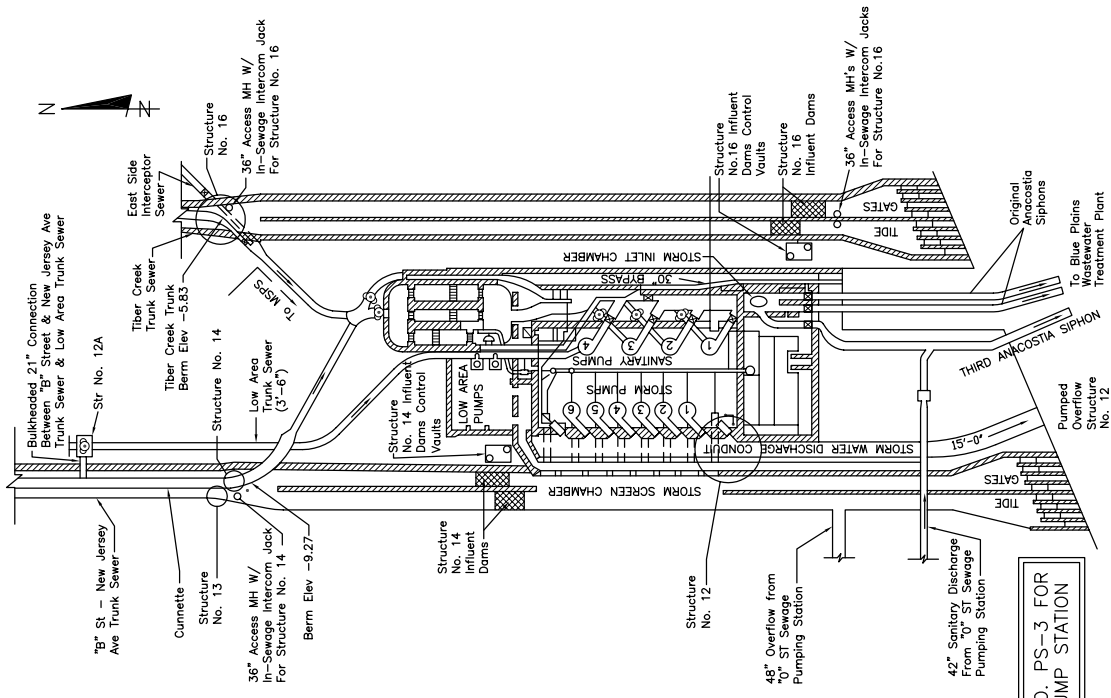
SECTION A-A



LOCATION PLAN

NOT TO SCALE

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



MAIN SEWAGE PUMPING STATION

NOT TO SCALE

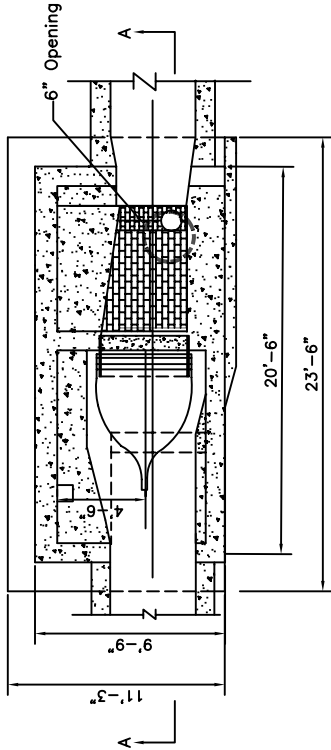
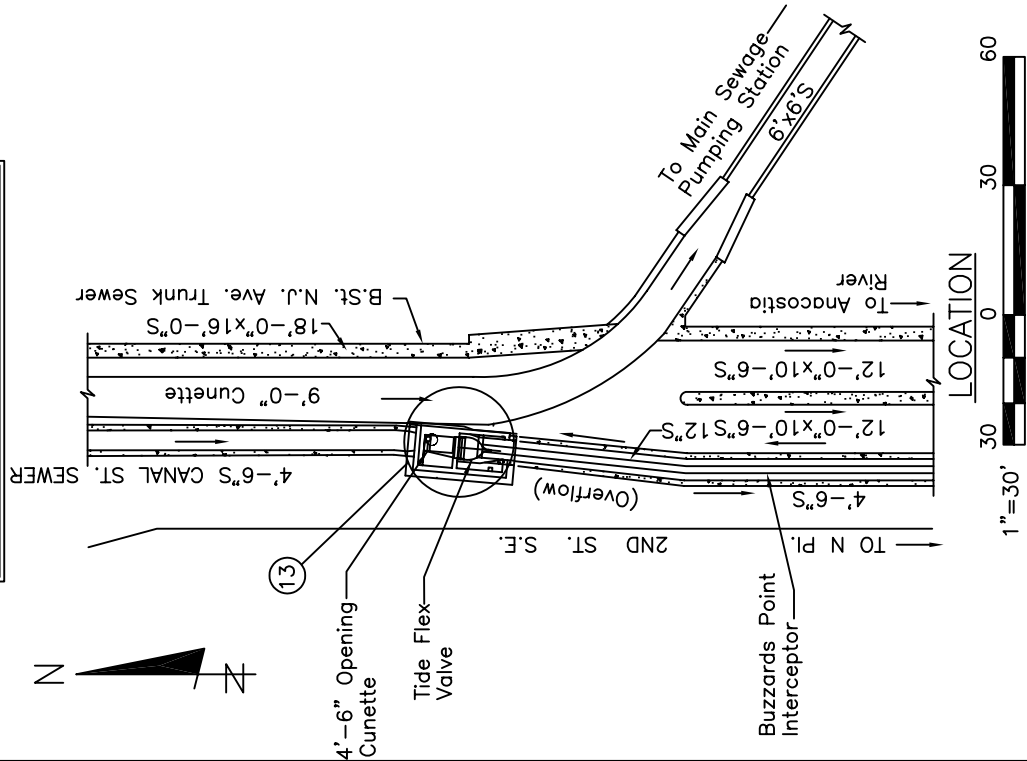
STRUCTURE NO.
12a

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

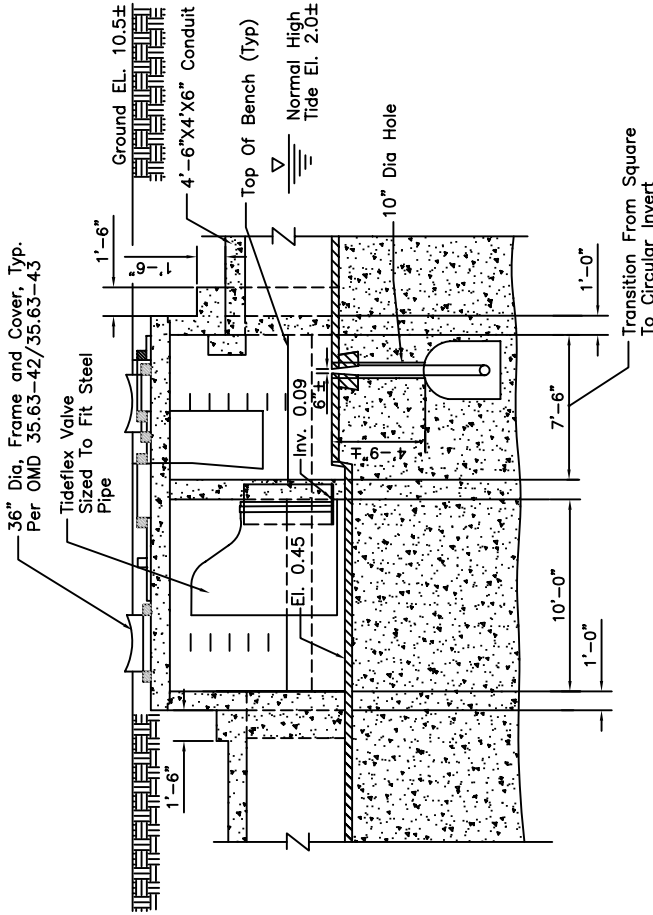
This structure has a slot-type regulator, the Storm Overflow is formed by a continuation of the 4-ft. 6-in. Canal Street Sewer. The 4-ft. 6-in. Combined Sewer enters the Overflow Structure, where there is a slot about 6-in. by 3ft. 6-in. at the top of a vertical 10-inch pipe, through which the Dry-Weather 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



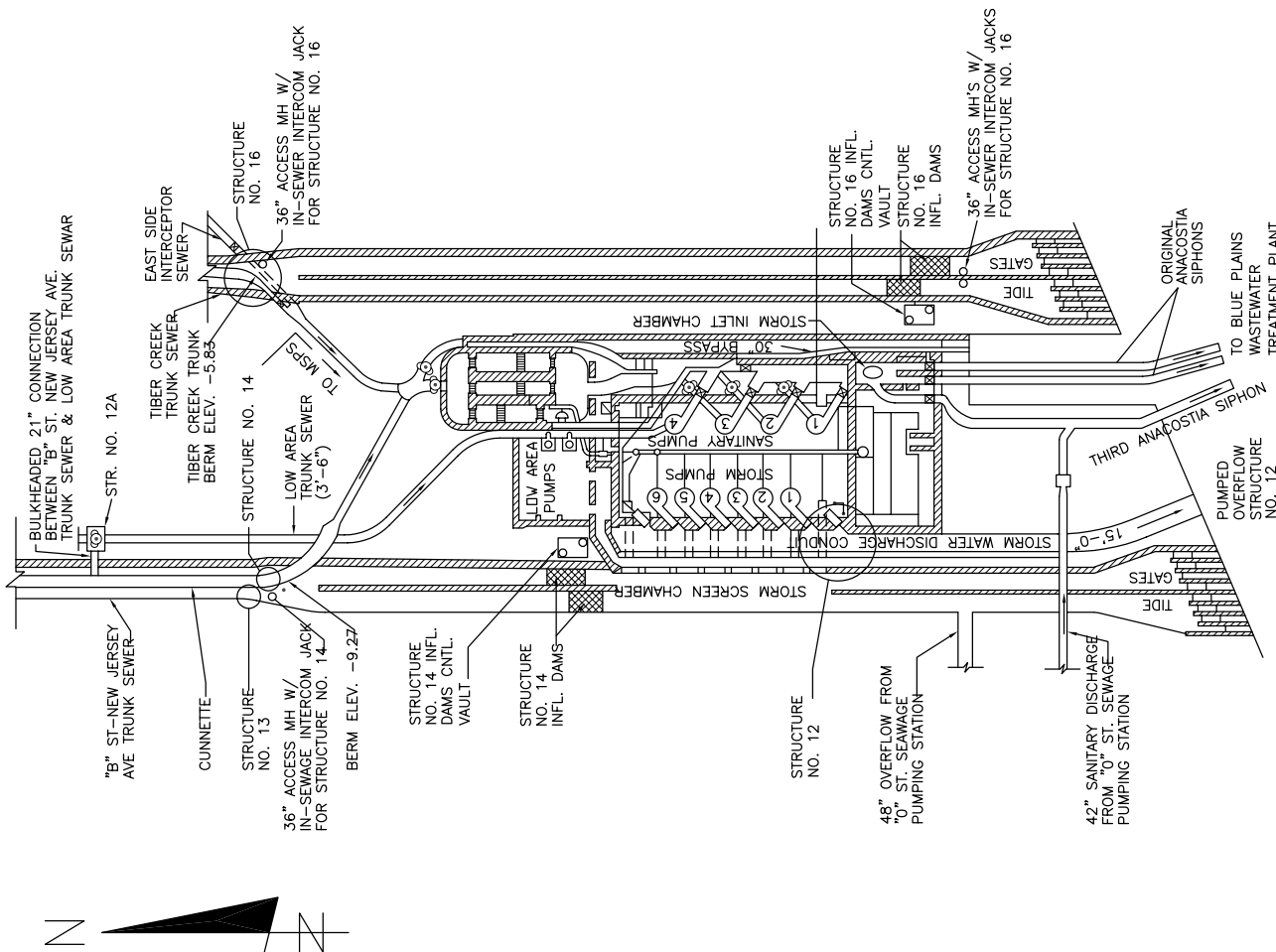
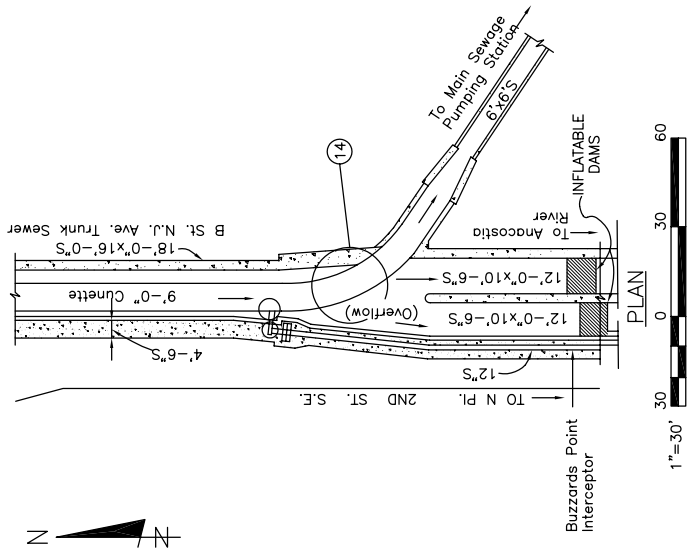
PLAN
N.T.S.



SECTION A-A
N.T.S.

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 MAIN SEWAGE PUMPING STATION

REVISED DATE: OCTOBER 2004

ASSOCIATED NPDES OUTFALL # 011a

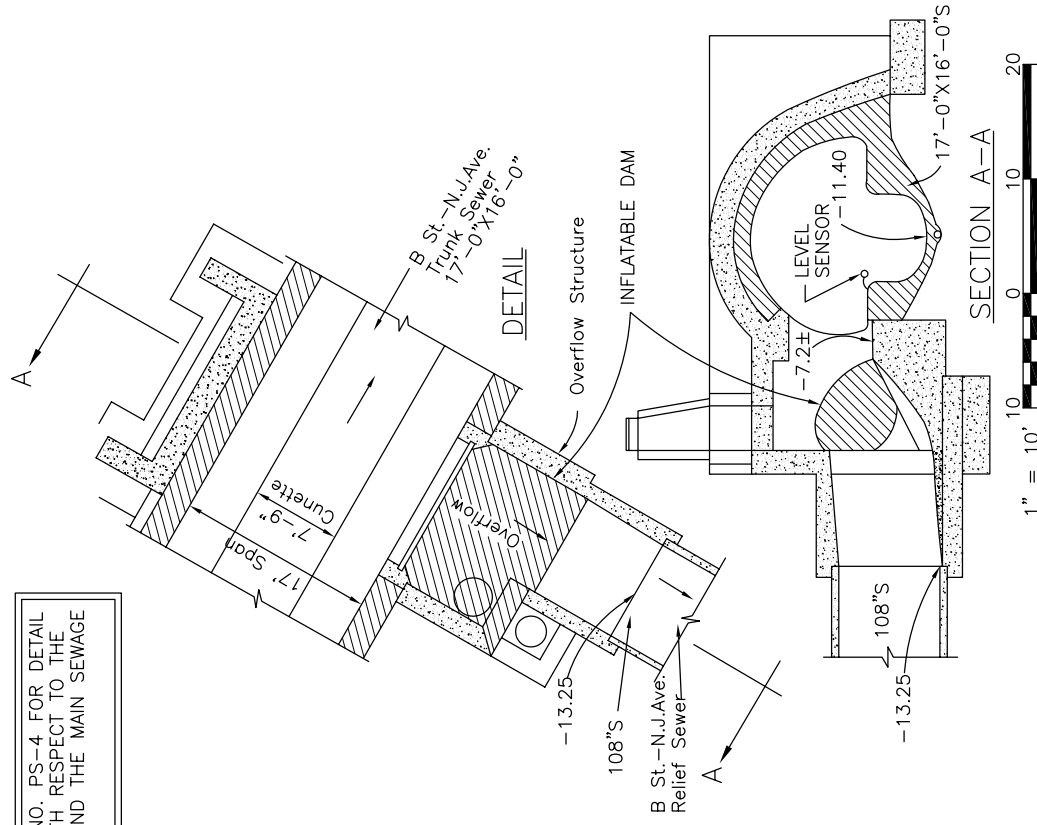
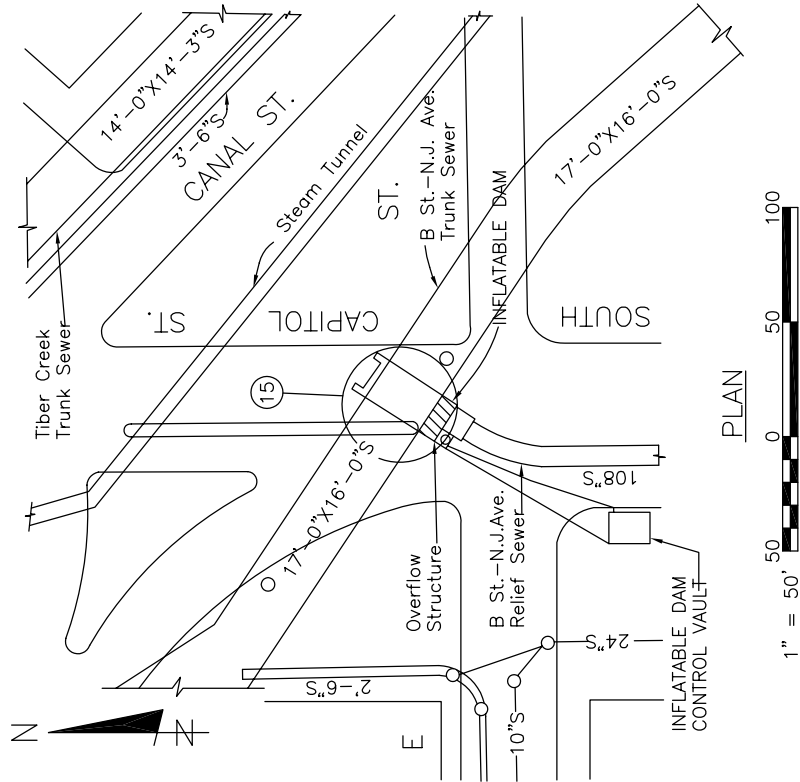
NOT TO SCALE

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.

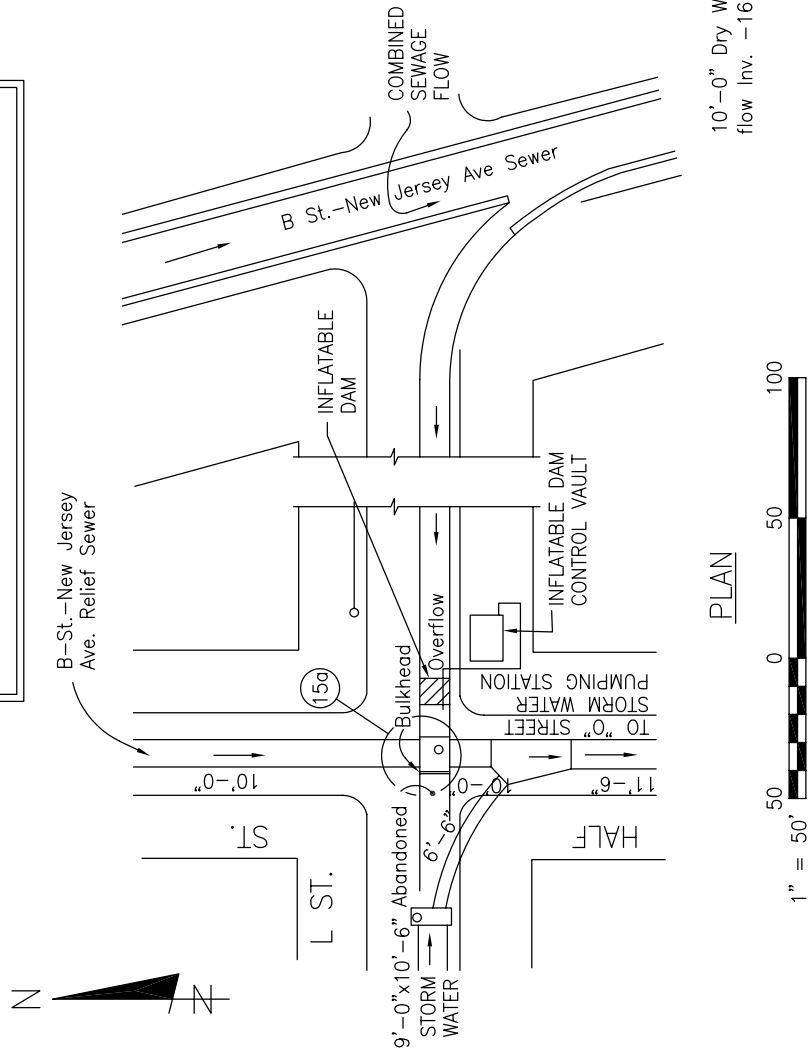


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 010

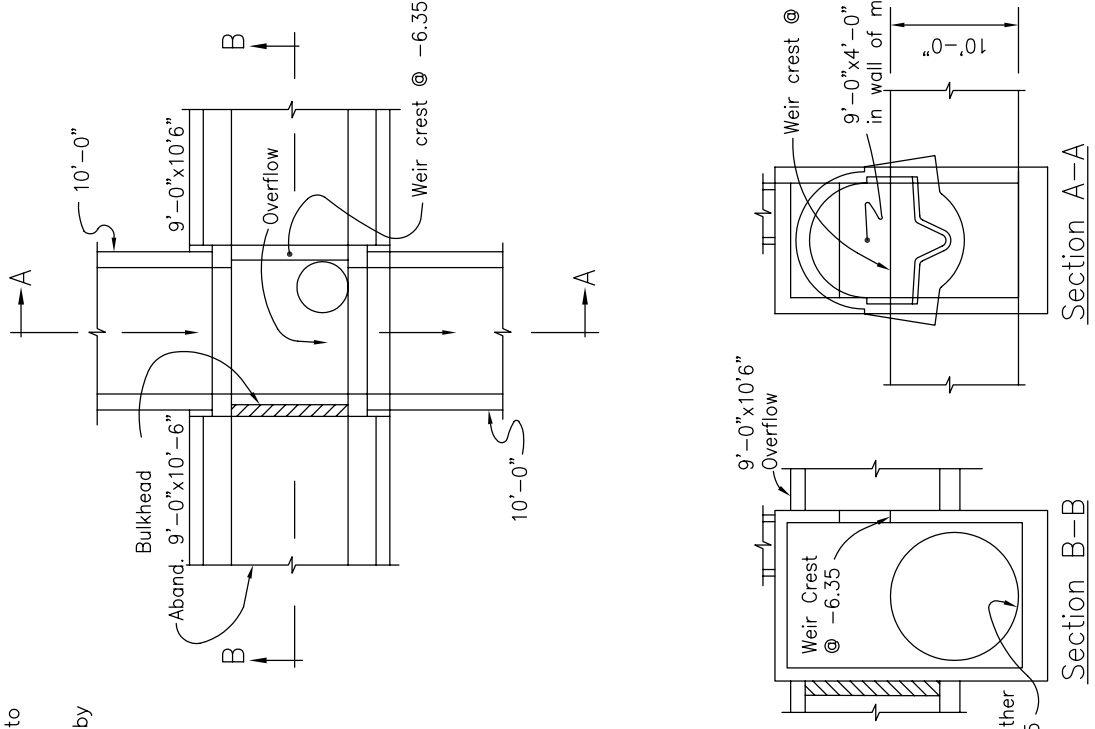
STRUCTURE NO.
 15

STRUCTURE NO. 15a - Half and 'L' Sts., S.E. Structure No. 15a is an Overflow for the B Street-New Jersey Avenue Trunk Sewer into a Relief Sewer which discharges into O Street Storm Water Pumping Station. The structure consists of a weir with crest elevation -6.35 over which excess flow discharges into a 9 ft. by 4 ft. opening in the top of the Relief Sewer. Overflow is further restricted by an Inflatable Dam which limits relief of the Trunk Sewer until it has reached its capacity.

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.



PLAN



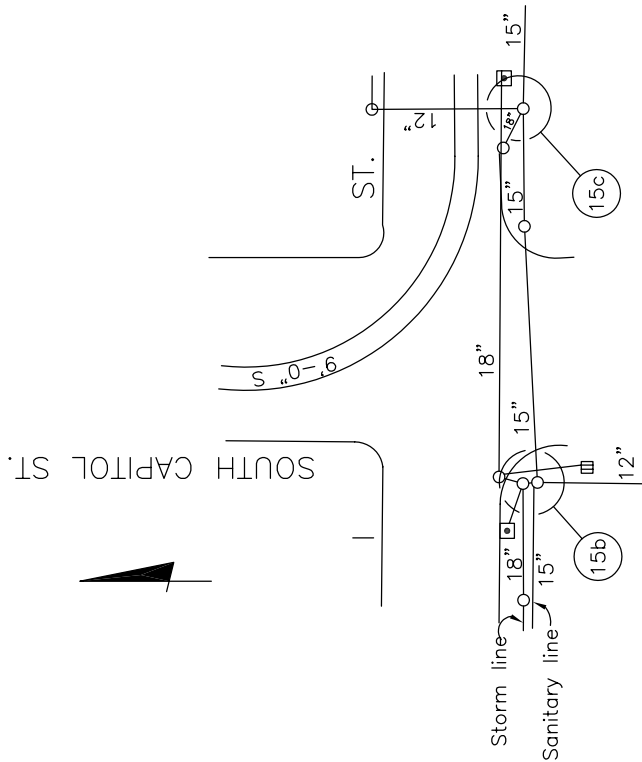
DETAIL

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

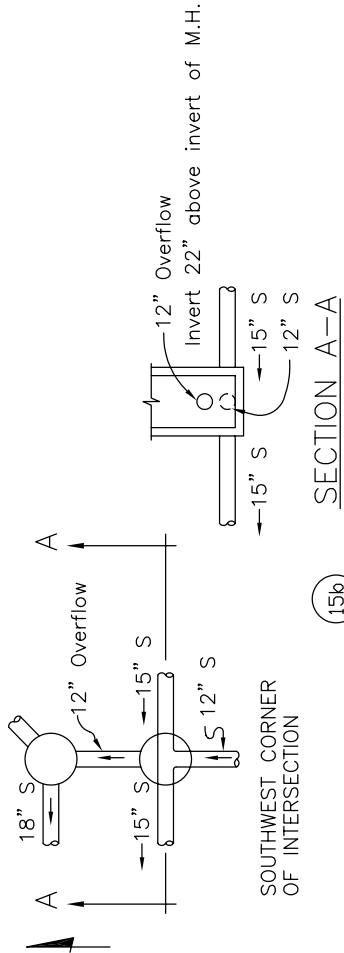
STRUCTURE NO.
 15a

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.

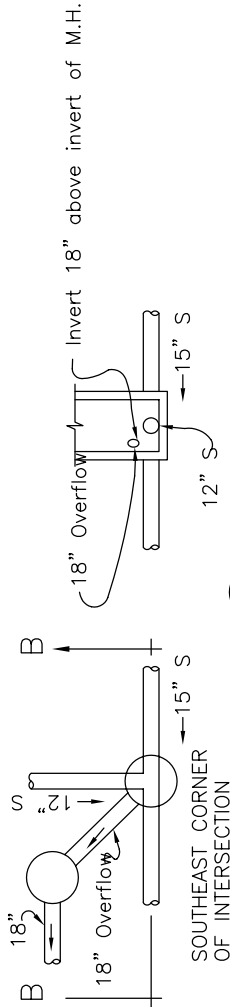


PLAN



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

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.

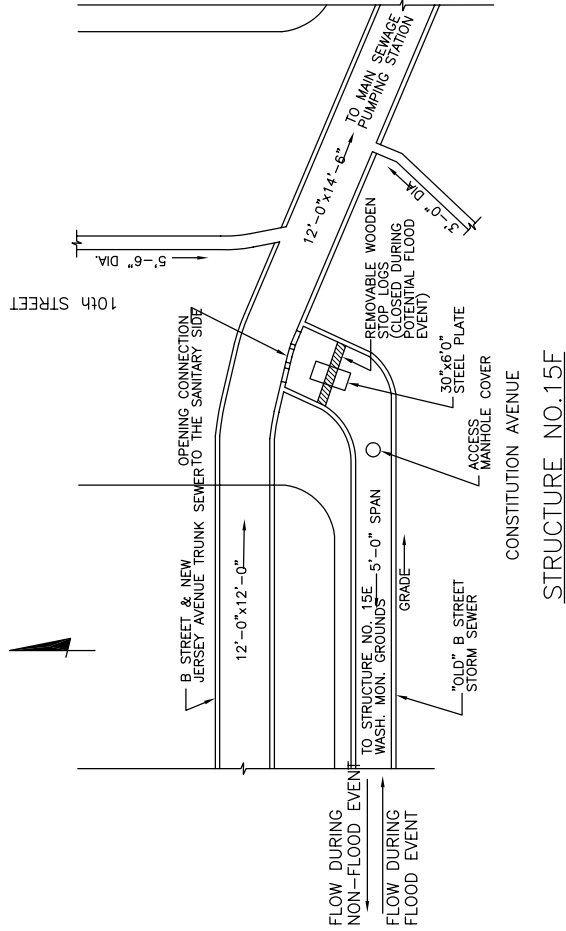
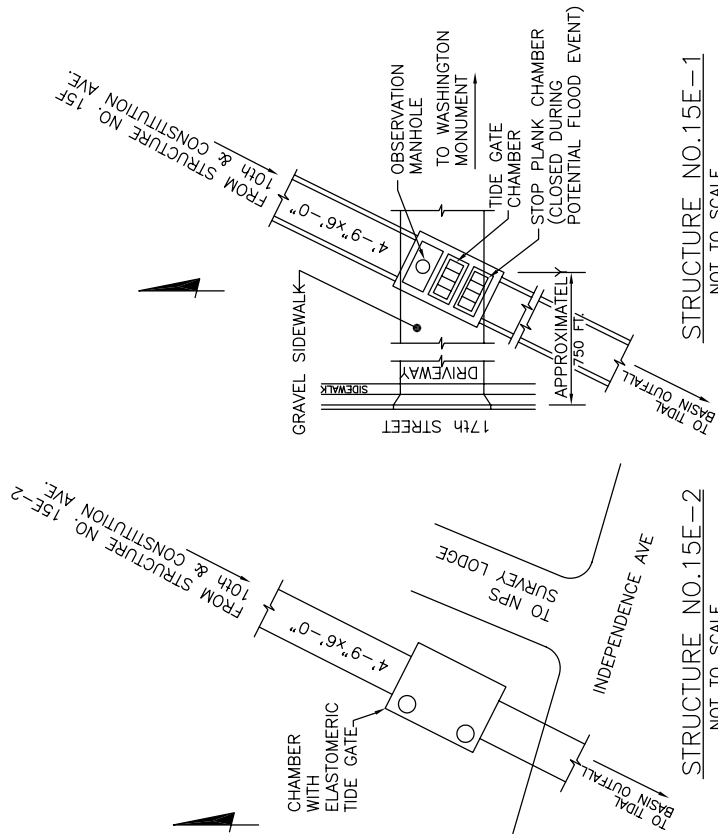
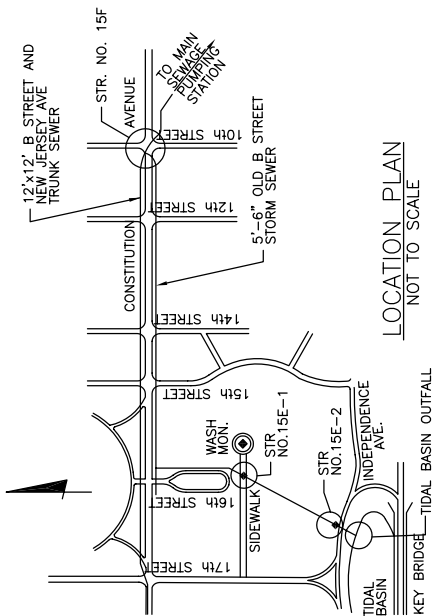
STRUCTURE NO. 15E-2 - INDEPENDENCE AVE EAST OF 17TH ST

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 Basin.

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 th flooding of Constitution Avenue.



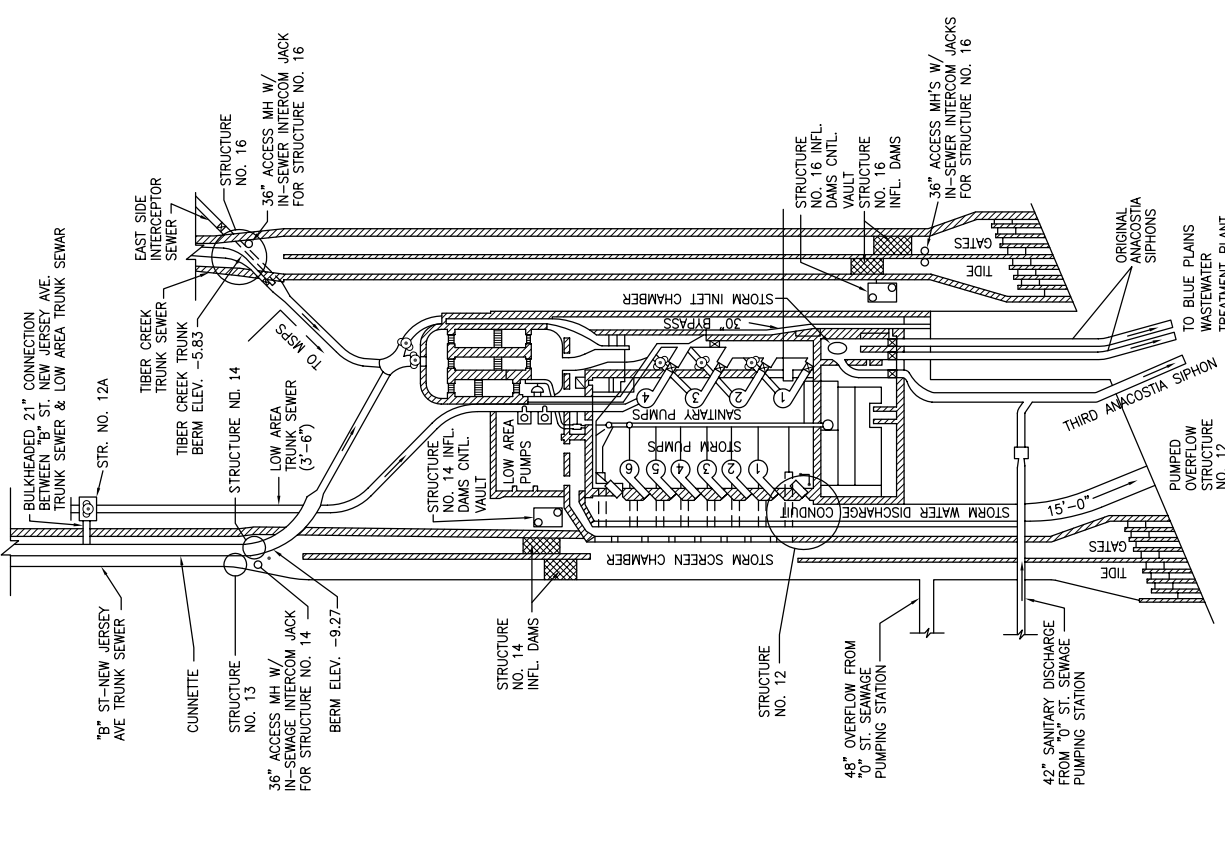
STRUCTURE NO. 15E-2
NOT TO SCALE

STRUCTURE NO. 15E-1
NOT TO SCALE

STRUCTURE NO. 15F
NOT TO SCALE

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

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



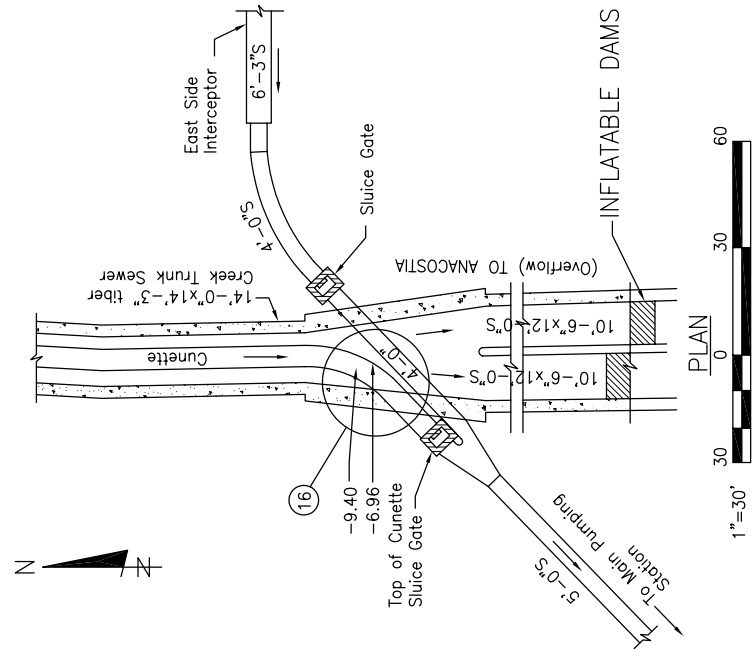
MAIN SEWAGE PUMPING STATION

NOT TO SCALE

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

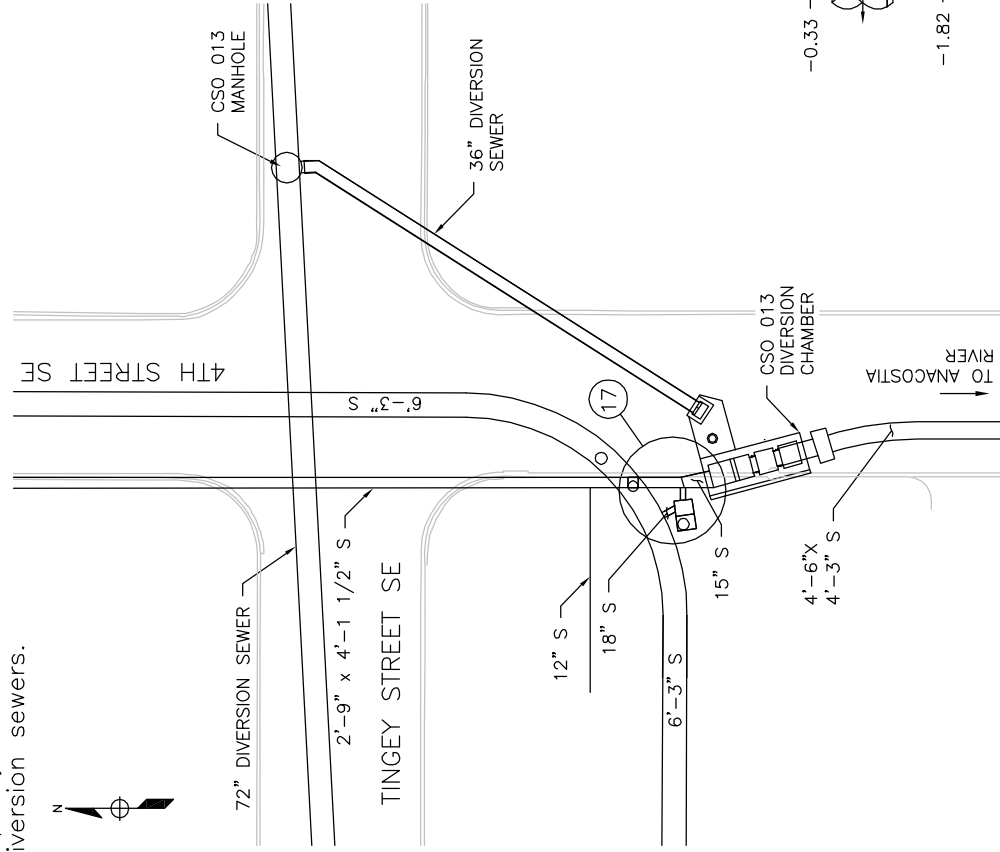
STRUCTURE NO. 16 - Tiber Creek Trunk Sewer at Main Sewage Pumping Station S.E. This structure has a cunette-type regulator. The storm overflow is formed by the crest of the cunette which is 2.44 feet above the invert of the Tiber Creek Trunk Combined Sewer. Dry Weather Flow is conveyed into the Combined 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



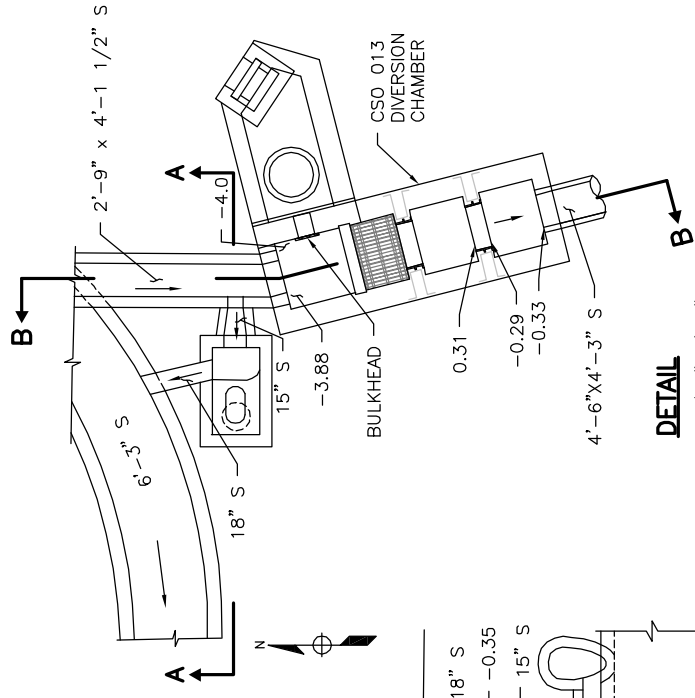
STRUCTURE NO.
 16

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.

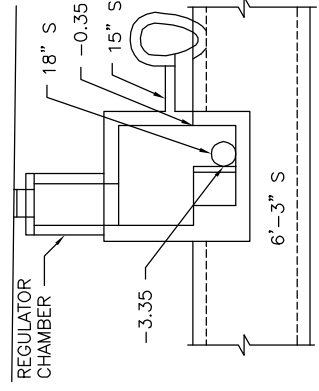


PLAN
SCALE: 1"=50'

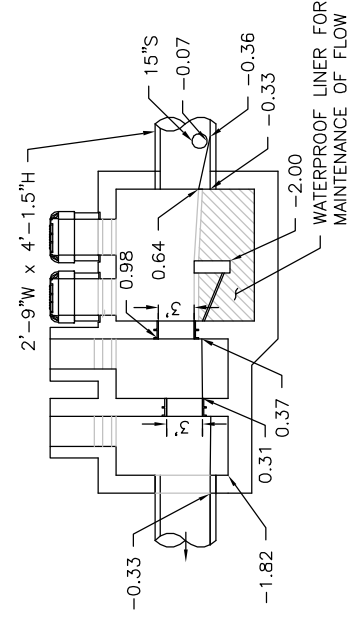
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: MARCH 2015
ASSOCIATED NPDES OUTFALL # 013



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



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

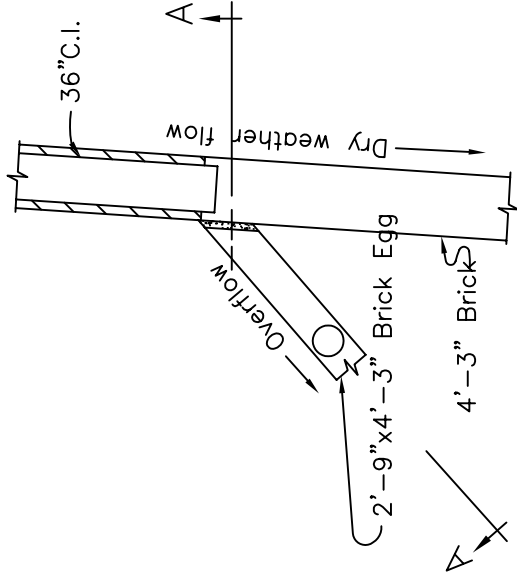
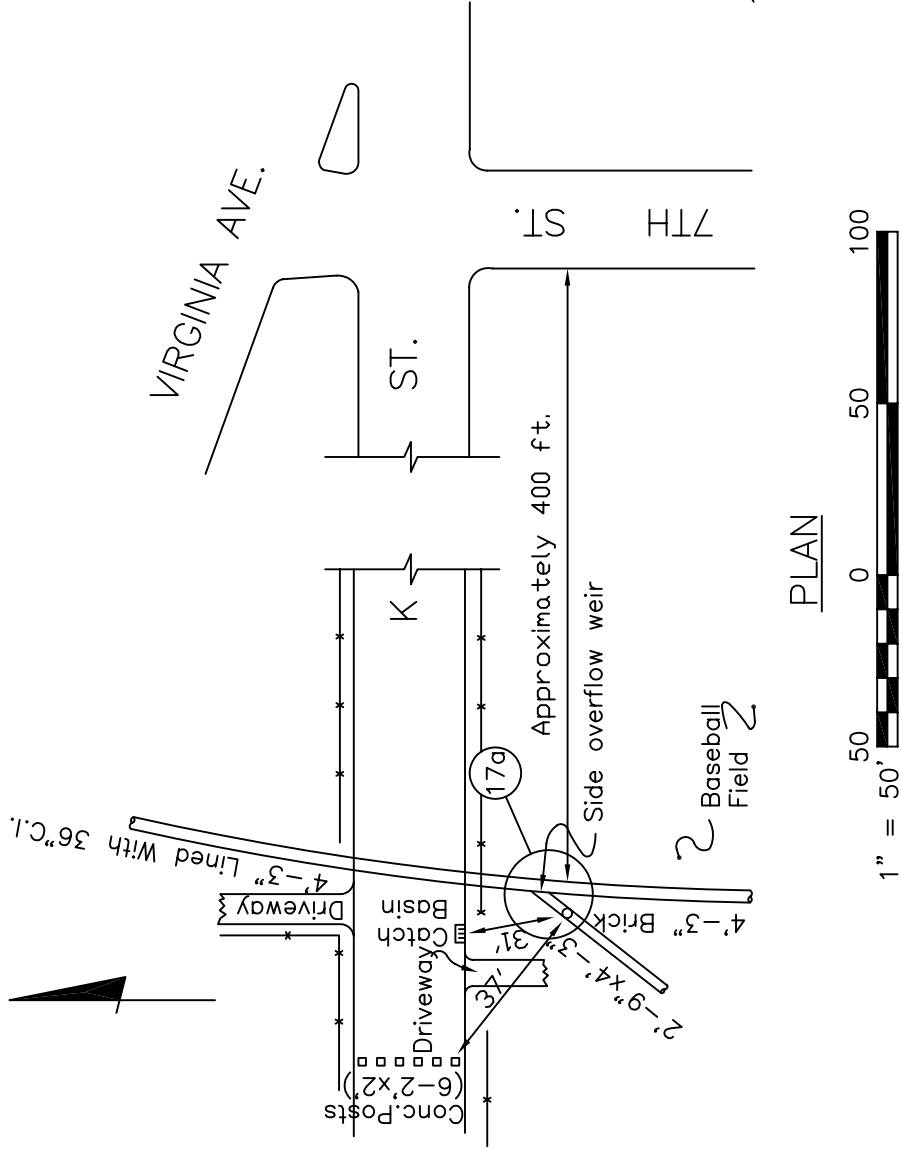


SECTION B-B
SCALE: 1/16"=1'-0"

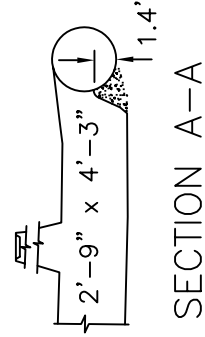


STRUCTURE NO.
17

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.



DETAIL



SECTION A-A



PLAN

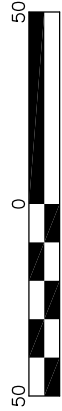
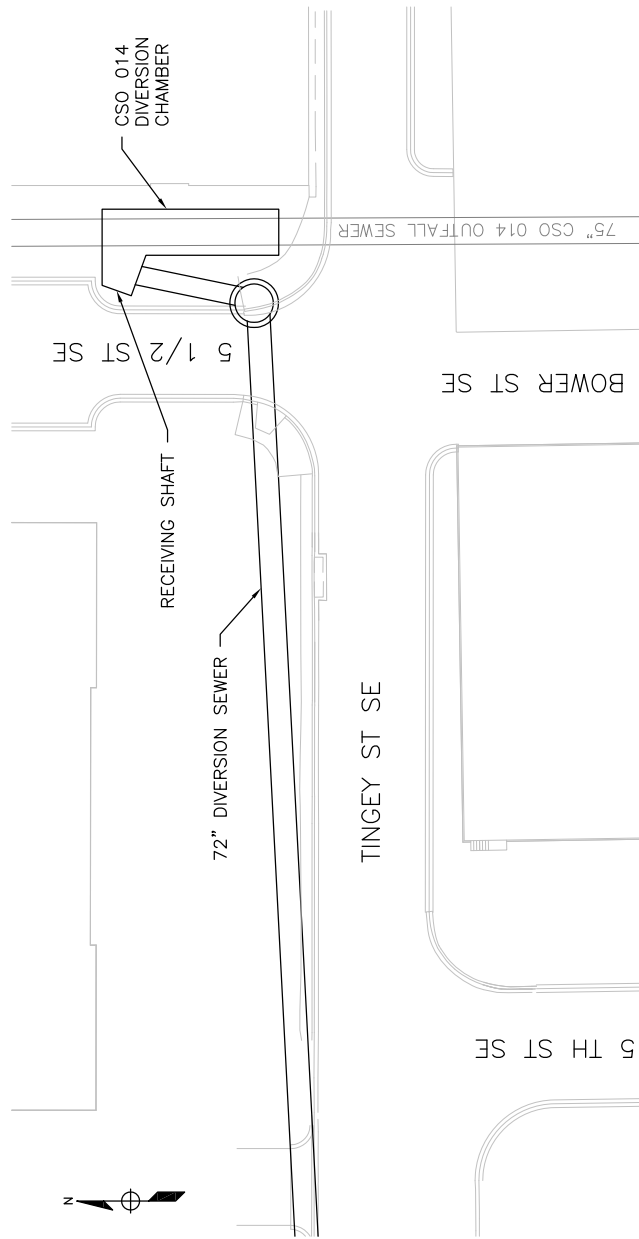


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 013

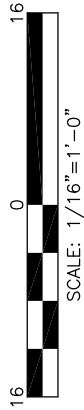
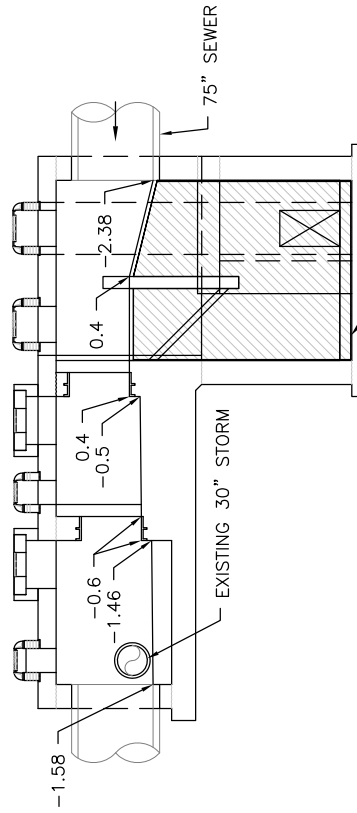
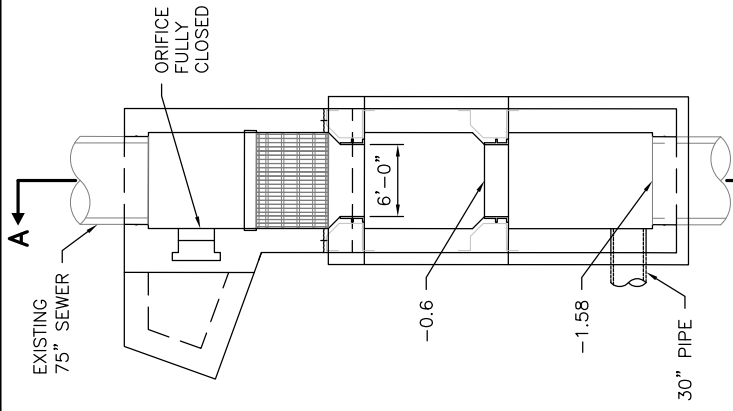
STRUCTURE NO.
 17a

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

The overflows from Structure 18 pass through the CSO 014 Diversion Chamber, via 75" Outfall Sewer, and continue 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.



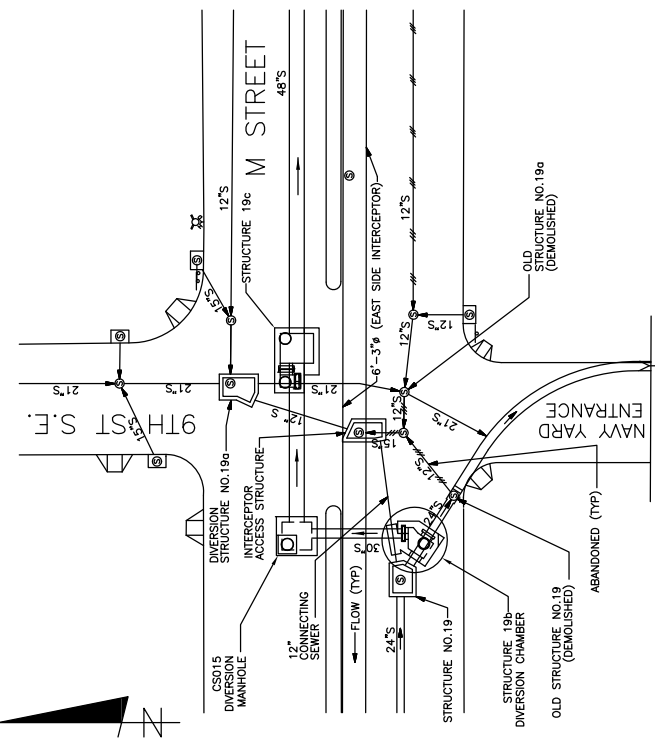
PLAN
SCALE: 1"=50'



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

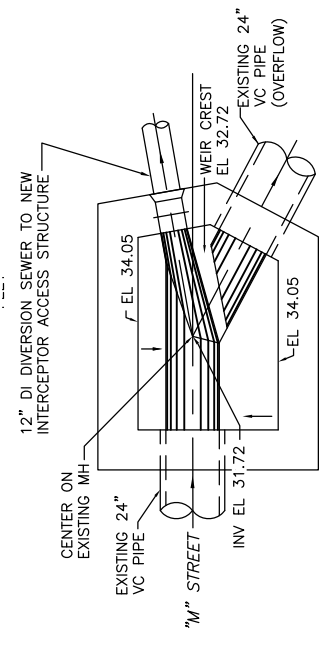
STRUCTURE NO.
18a

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2015
 ASSOCIATED NPDES OUTFALL # 014

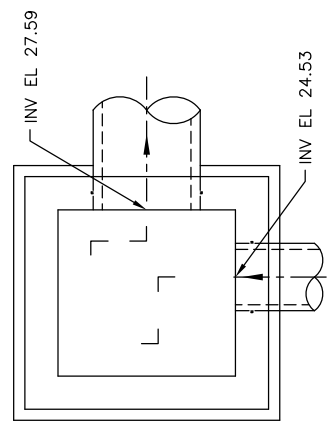


PLAN
NOT TO SCALE

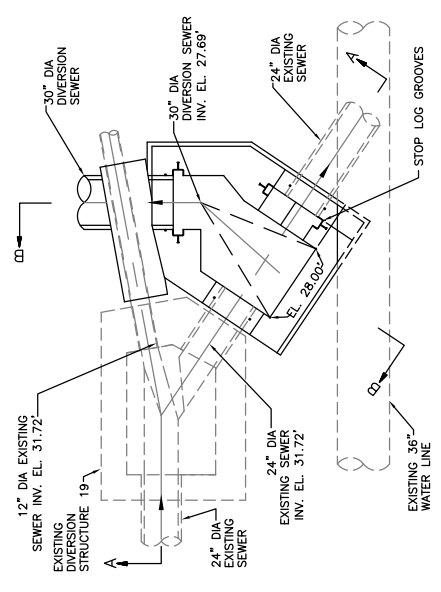
Structure No. 19 & 19b, 9th and M streets, S.E. Overflow from the 24" combined sewer spills over a weir at Structure No. 19 into a 24-inch pipe, flows through Structure No. 19b and continues to overflow into the Anacostia river. Once Anacostia River Tunnel is operational, overflows from Structure No. 19b 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.



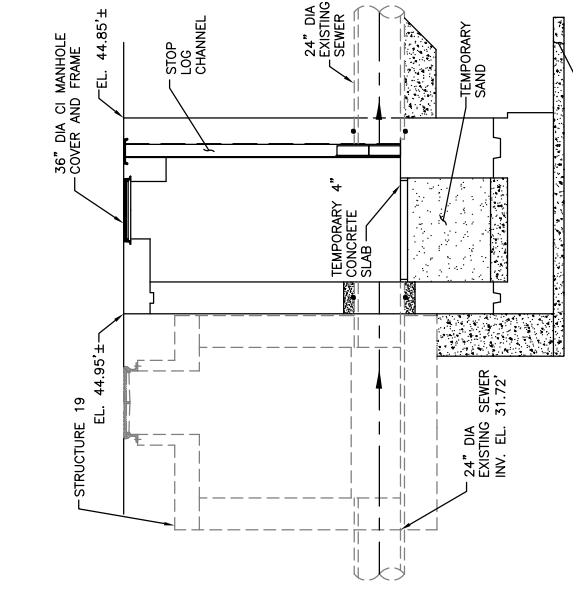
PLAN - STRUCTURE 19
NOT TO SCALE



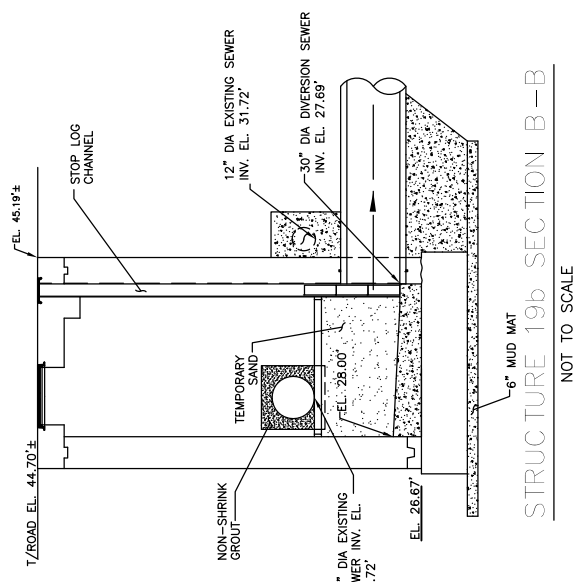
PLAN - CSO 015 DIVERSION MH
NOT TO SCALE



PLAN @ EL 40.80
PLAN - STRUCTURE 19b DIVERSION CHAMBER
NOT TO SCALE



STRUCTURE 19b SECTION A-A
NOT TO SCALE

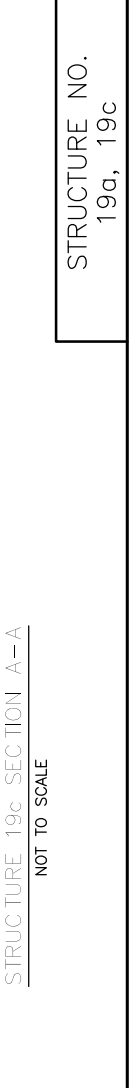
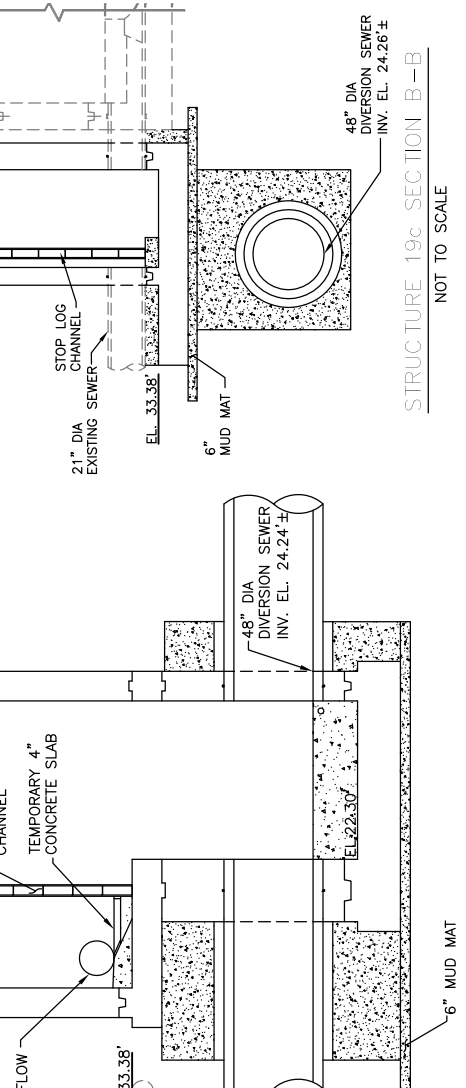
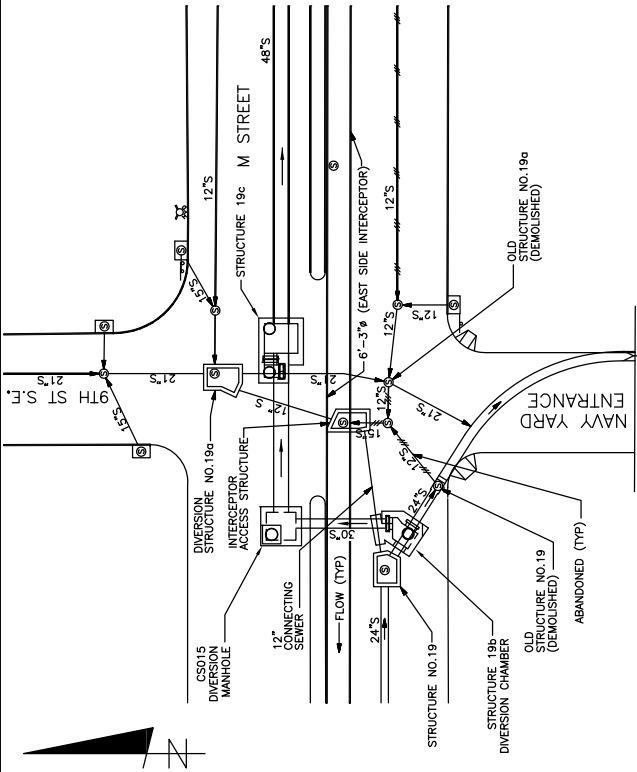


STRUCTURE 19b SECTION B-B
NOT TO SCALE

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

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 Tunnel. 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 dry weather flow from Structure No. 19a continues through a 12 inch diversion sewer to East Side Interceptor.

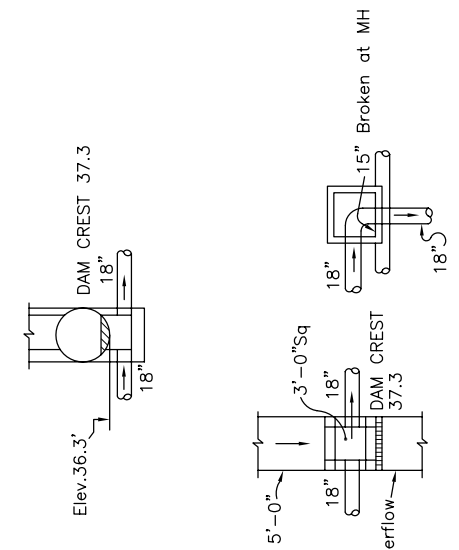
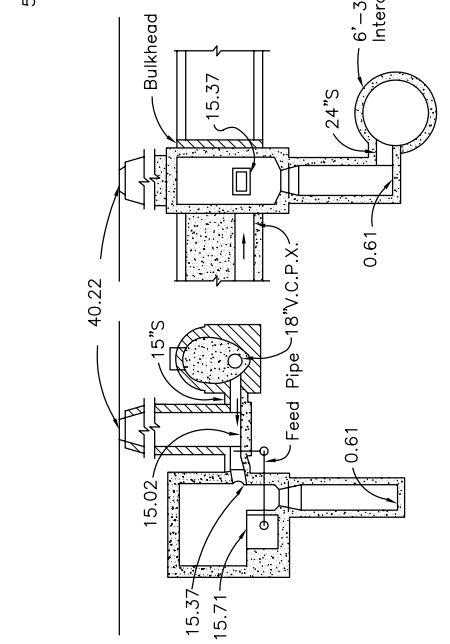
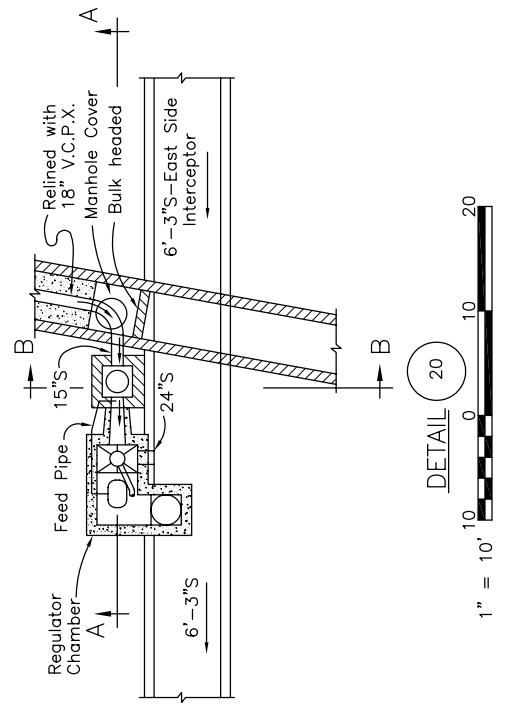
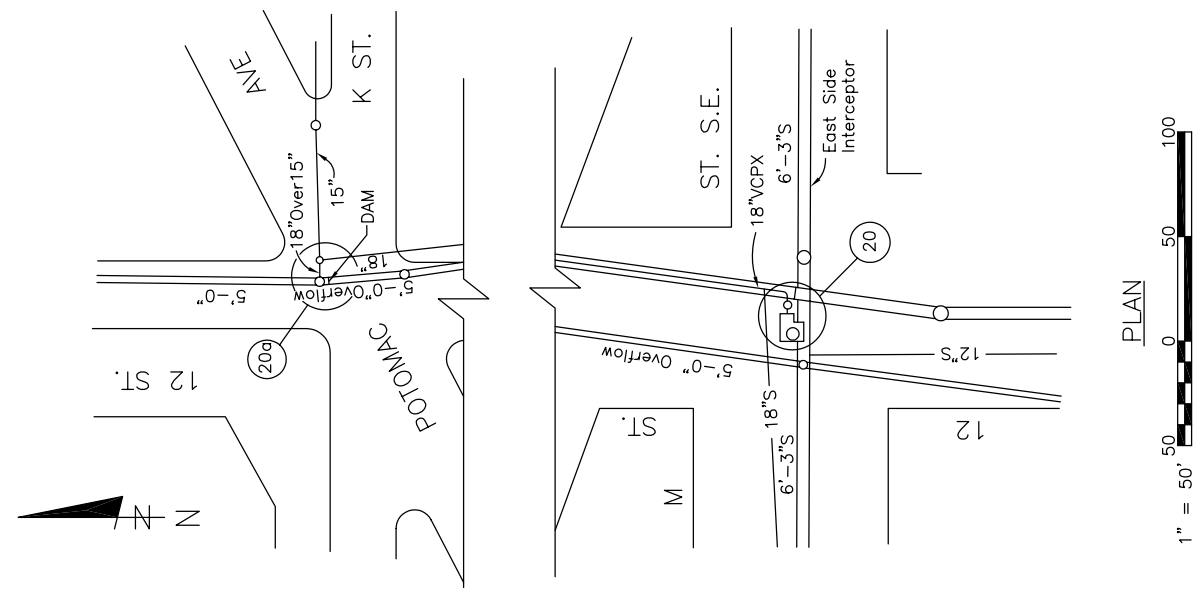


REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2016
 ASSOCIATED NPDES OUTFALL # 015

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 50" 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 50" 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.

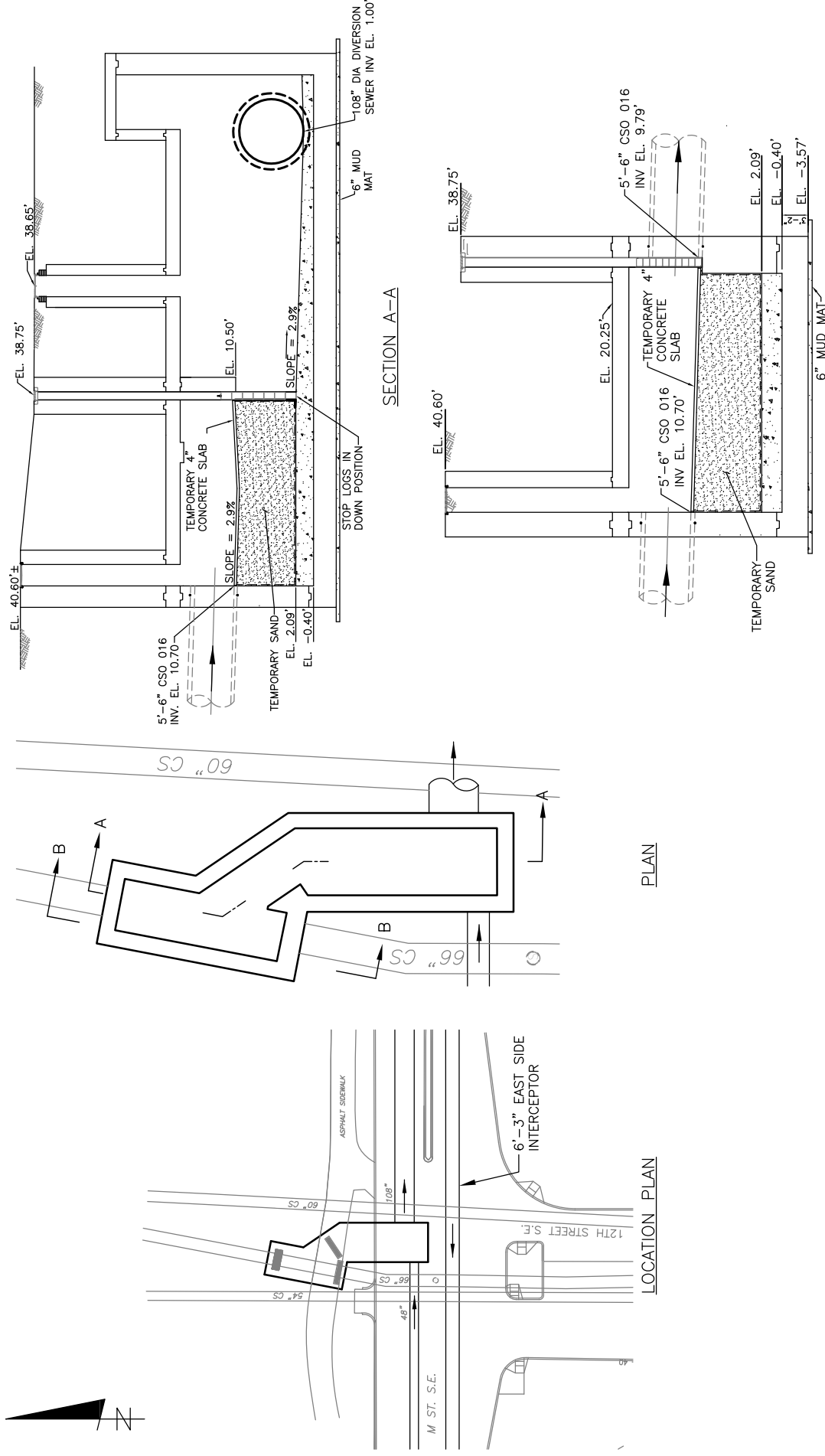


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 016

STRUCTURE NO.
 20, 20a

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

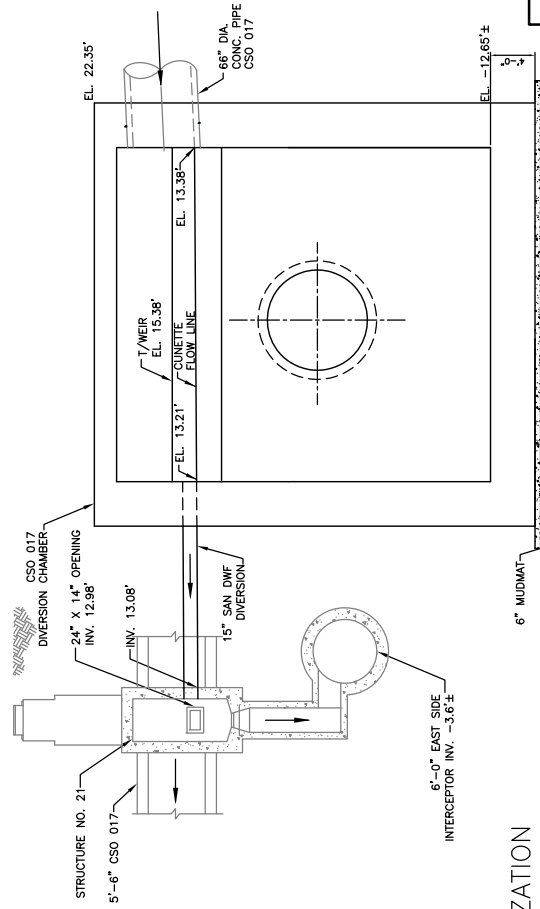
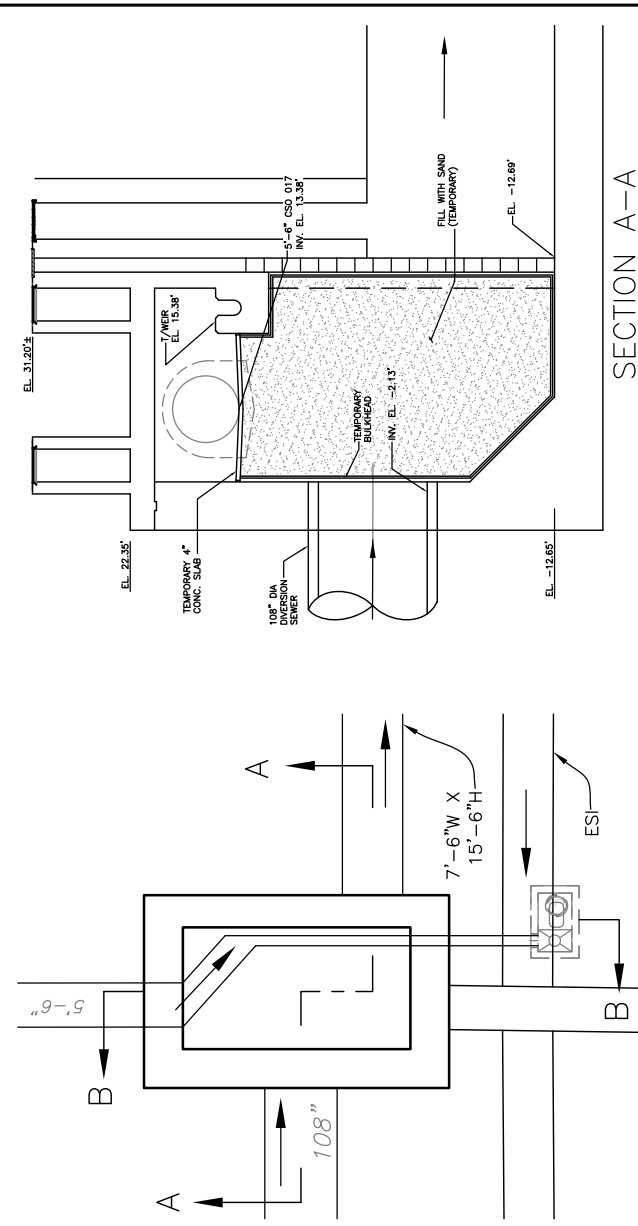
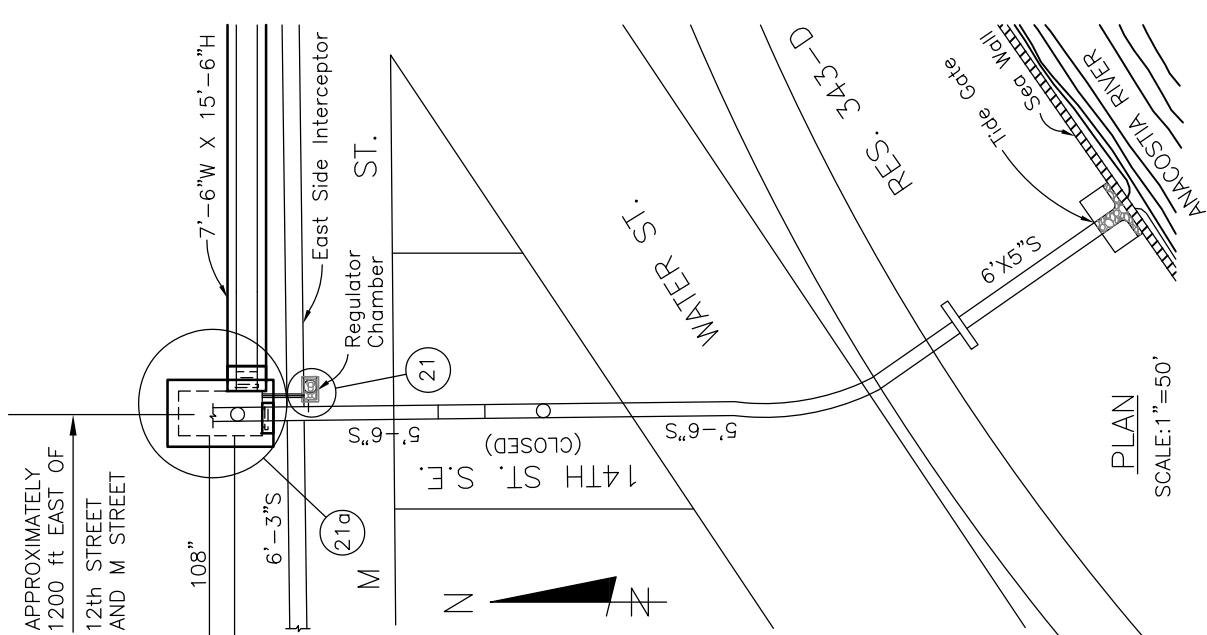
Once Anacostia River Tunnel is placed in service, overflows from Structure No. 20a will be diverted to the tunnel up to the diversion capacity of Structure No. 20b.



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

STRUCTURE NO.
20b

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.



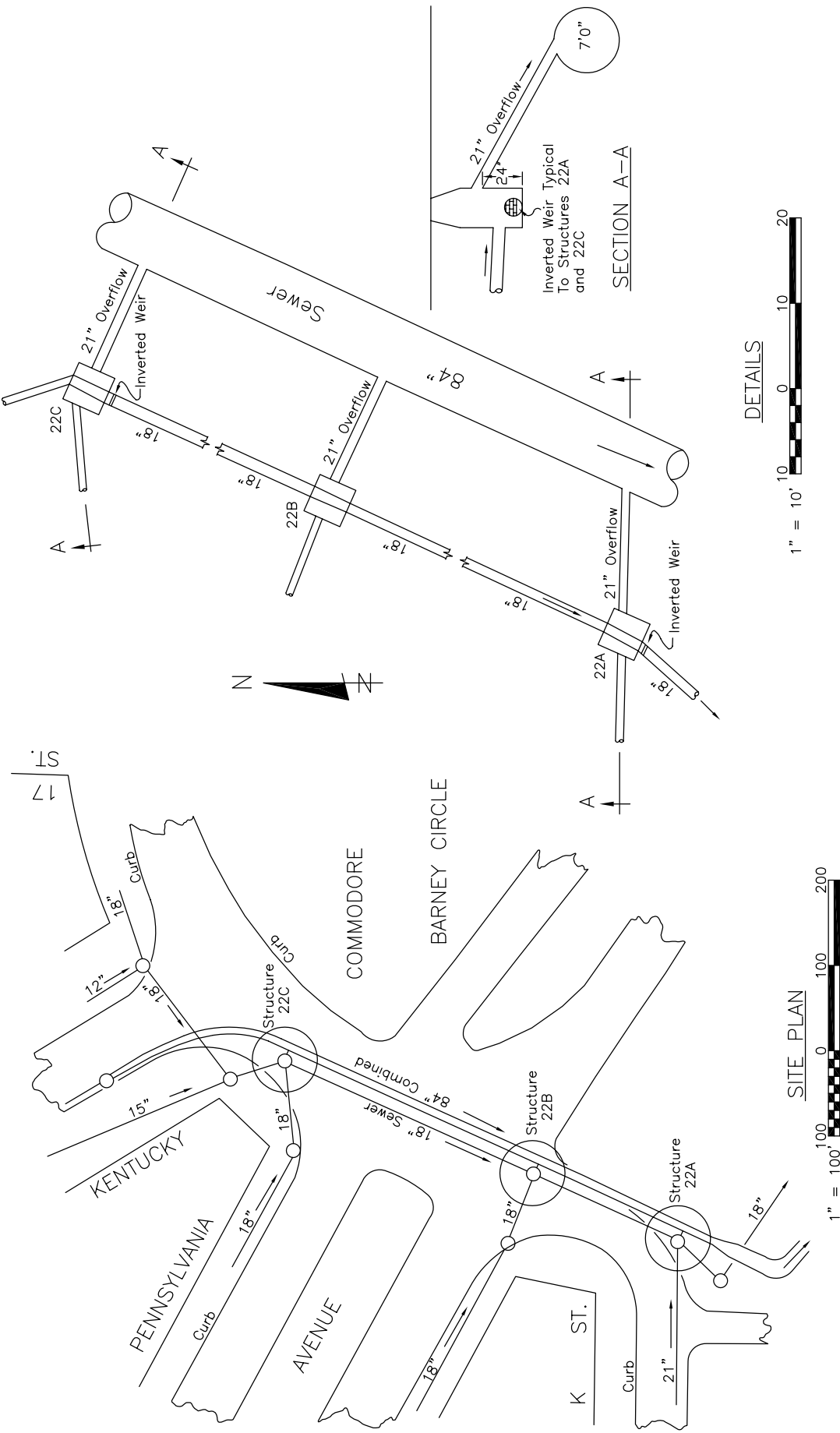
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2016
 ASSOCIATED NPDES OUTFALL # 017

STRUCTURE NO.
 21a

SECTION B-B

SECTION A-A

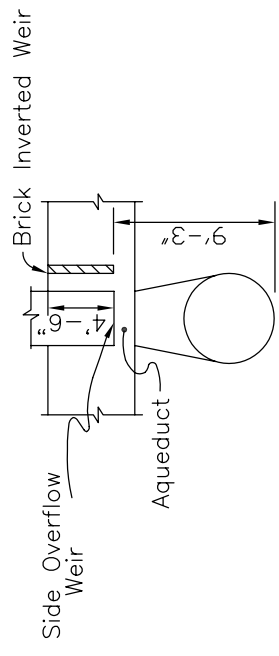
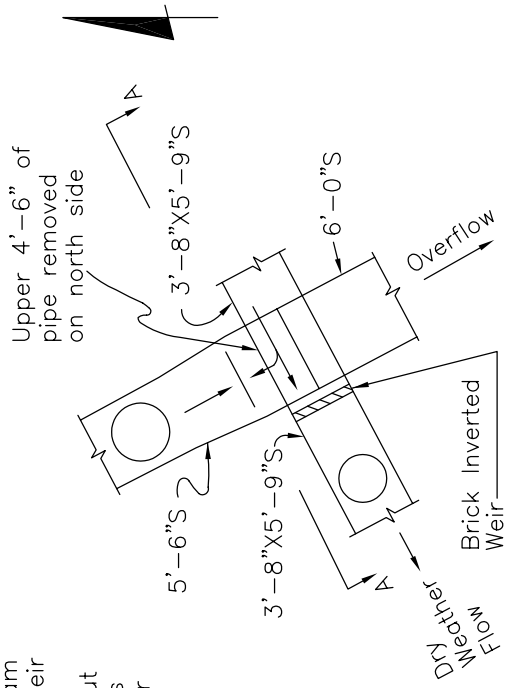
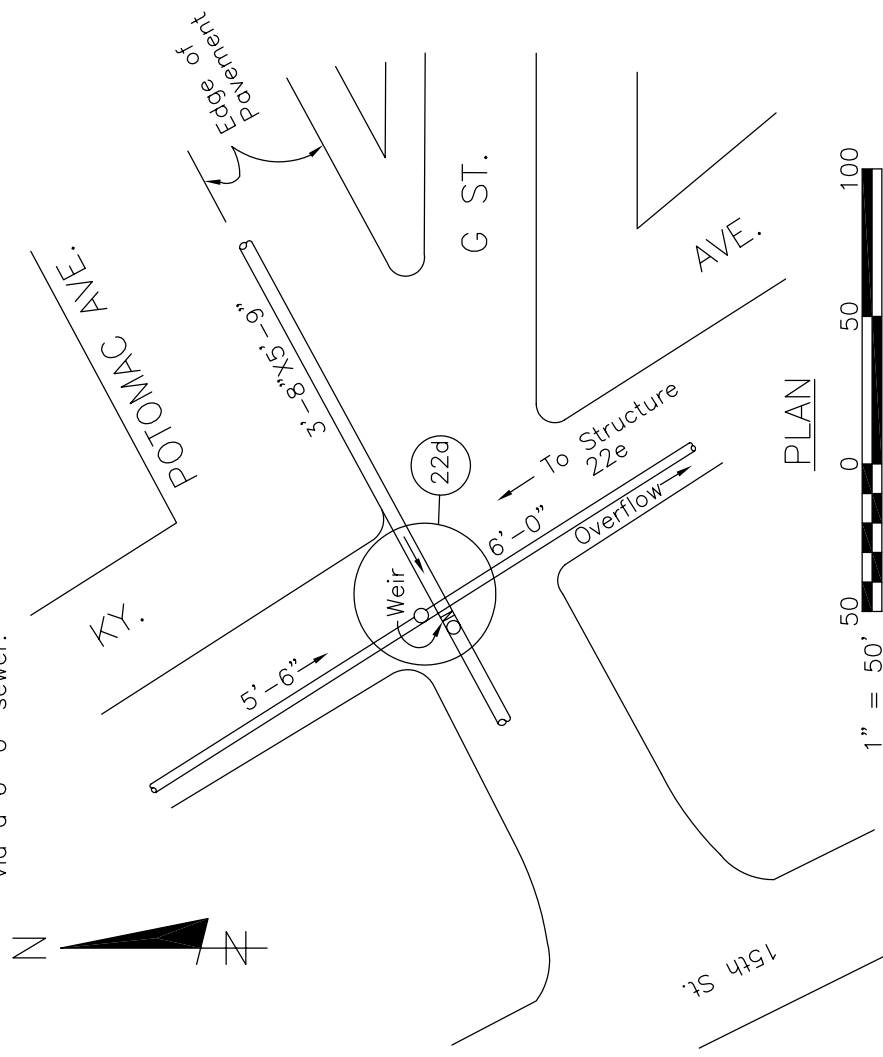
STRUCTURE NO. 22, Barney Circle and Pennsylvania Ave., S.E. Normal Dry Weather Flow enters one of a series of three manholes located on the western side of Barney Circle, and is conveyed out via an 18-inch Sewer excess flows may exit each manhole through a 21-inch Overflow Line located 24 inches above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



REVISD BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 018

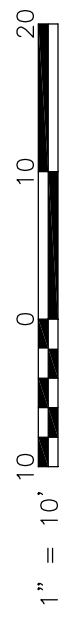
STRUCTURE NO.
 22A, 22B, 22C

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.



SECTION A-A

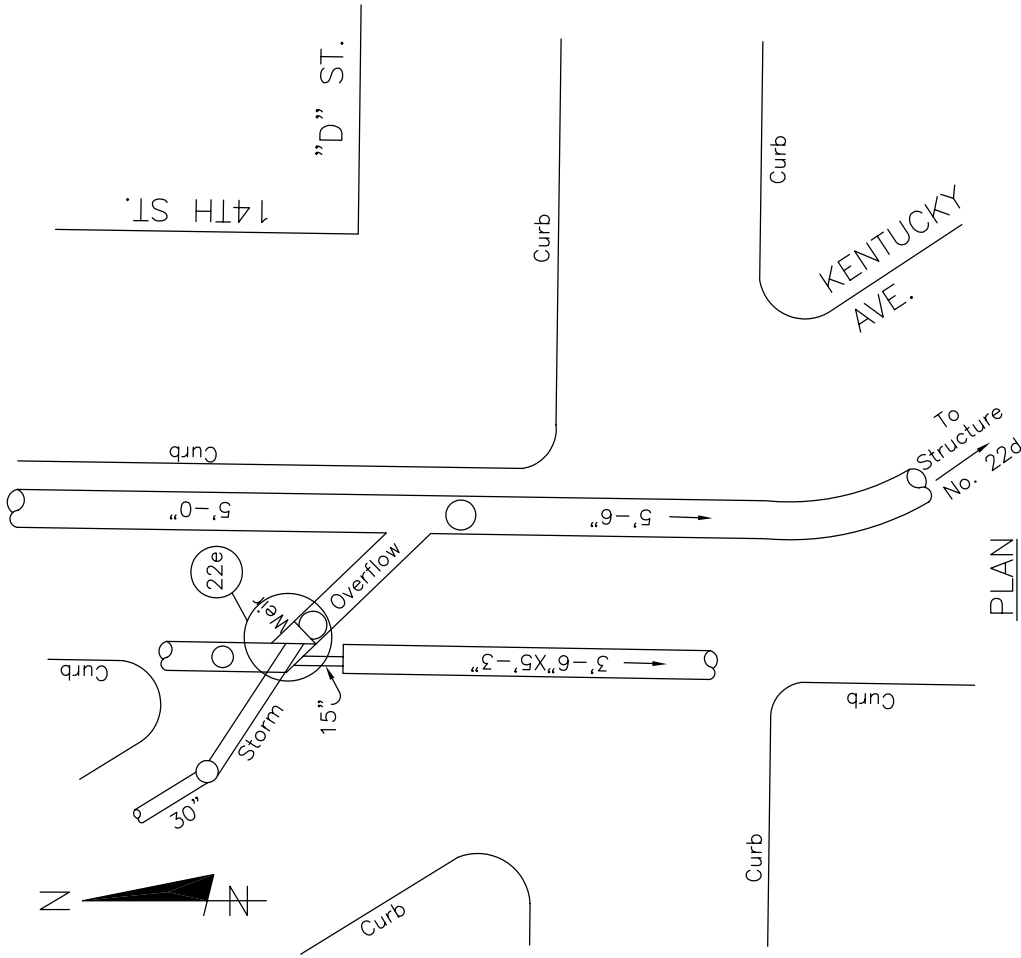
DETAIL



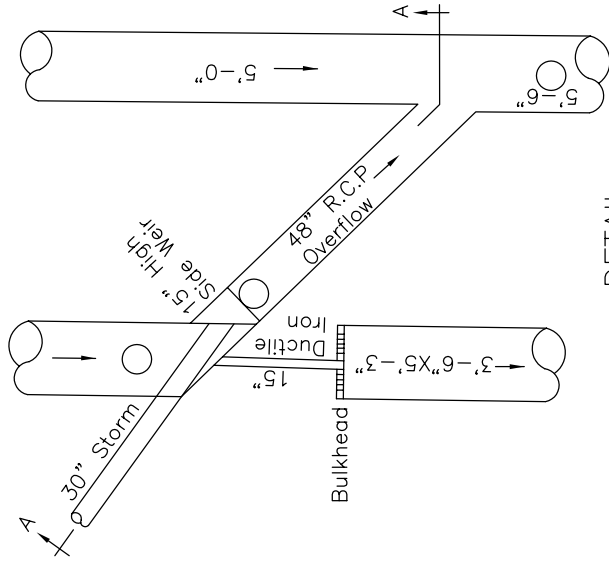
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 018

STRUCTURE NO.
 22d

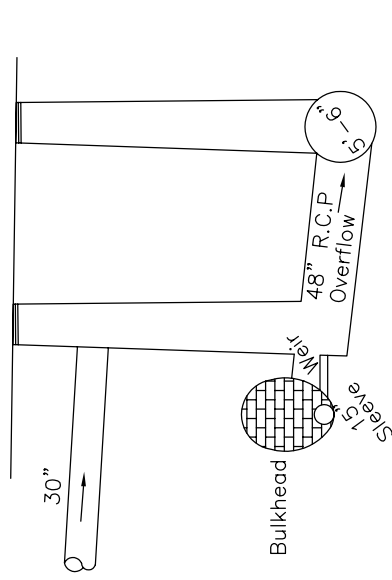
STRUCTURE NO. 22e, 14th Street and Kentucky Ave. S.E. Overflow from the 3'-6" by 5'-3" Combined Sewer spills over a 15-inch side Weir into a 48-inch Overflow pipe and ultimately to the Anacostia River. Normal Dry Weather Flow continues southward through a 15-inch constricting pipe.



PLAN
1" = 20' 0 20 40



DETAIL



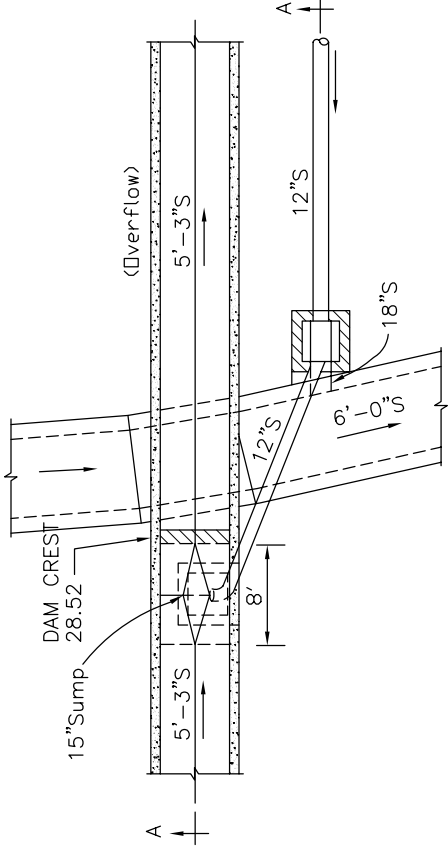
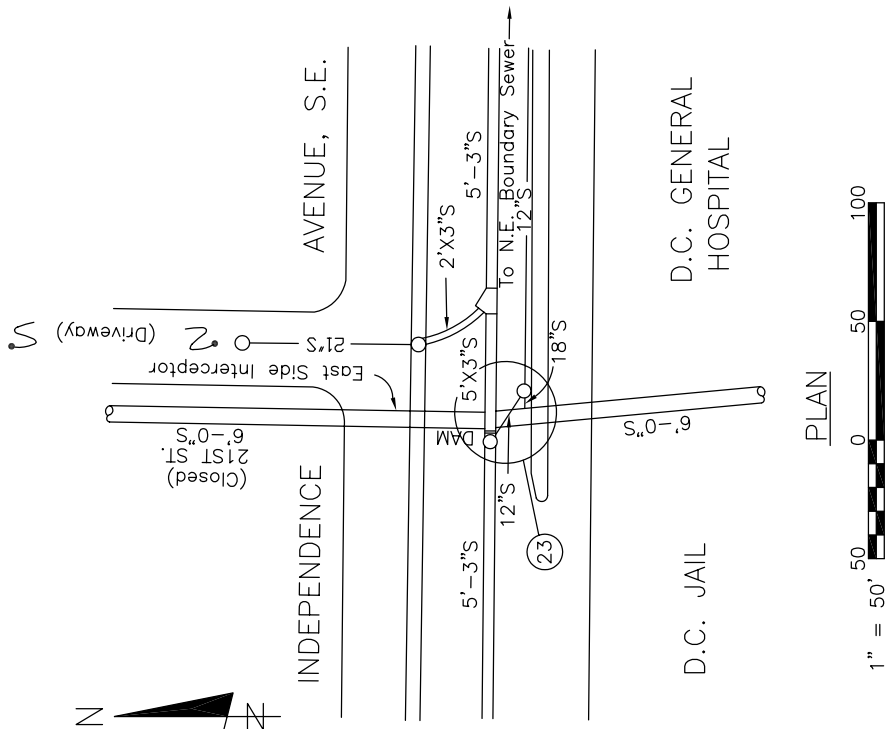
SECTION A-A
1" = 10' 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 018

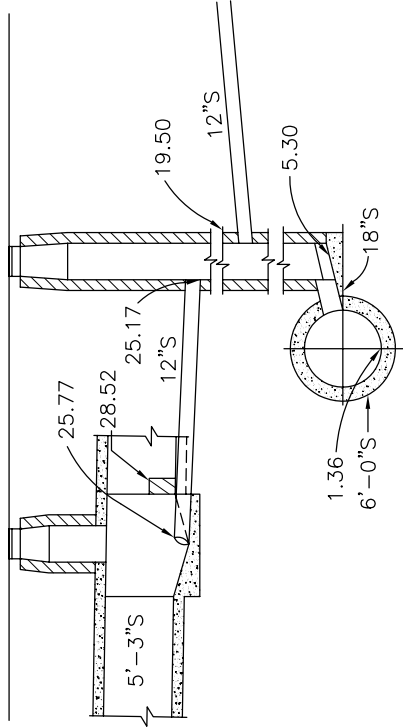
STRUCTURE NO.
22e

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.



DETAIL

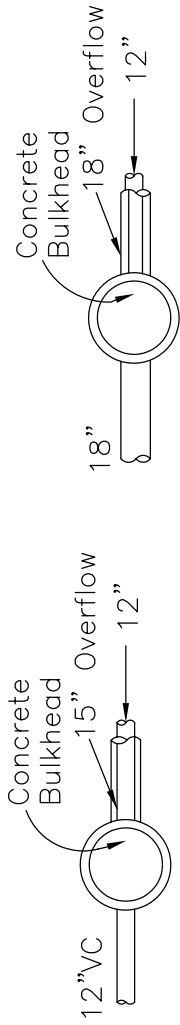


SECTION A-A

STRUCTURE NO.
23

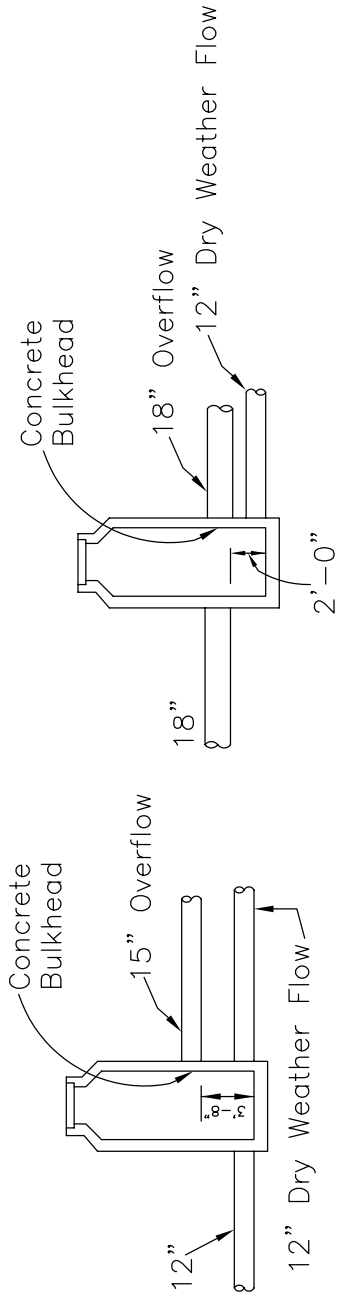
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 019

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



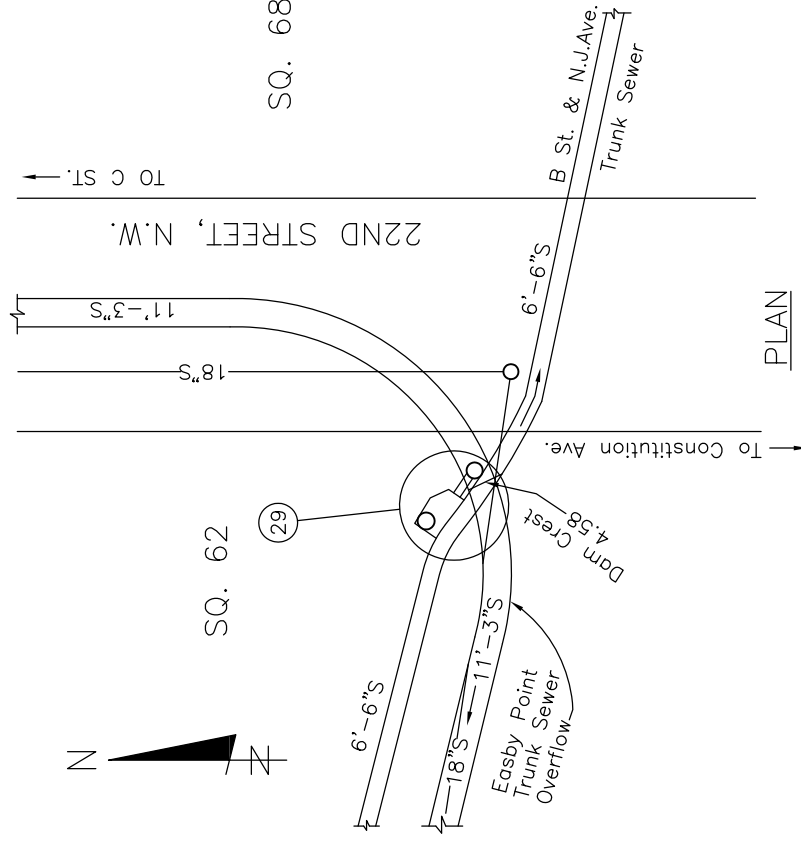
DETAILS



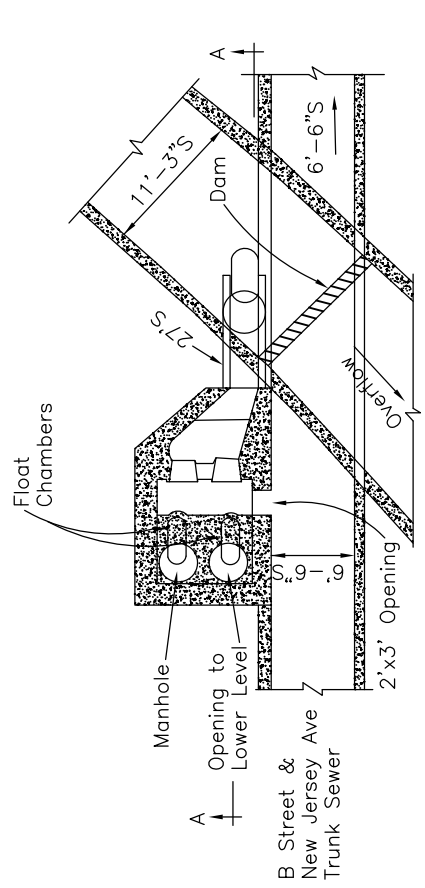
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
28a & 28b

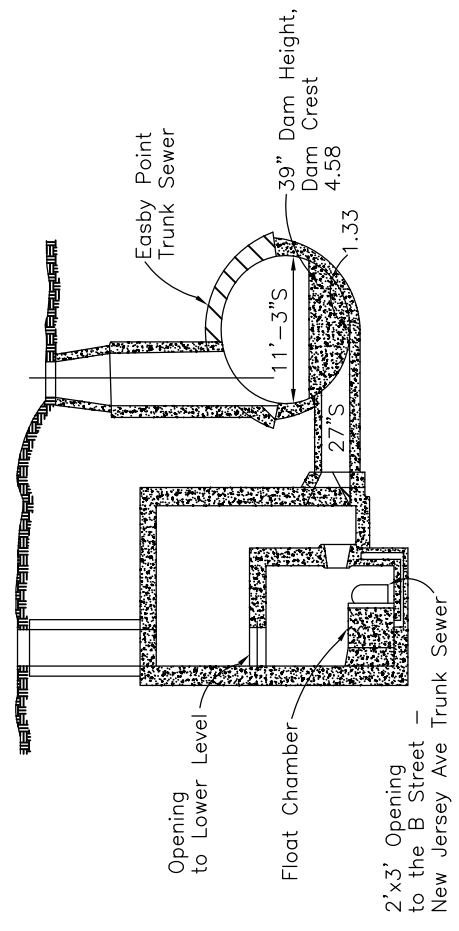
STRUCTURE NO. 29, 22nd Street, North of Constitution Avenue N.W. The 11'-3" Easy Point Trunk Sewer is restricted by a dam with crest elevation 4.58 so that normal Dry Weather Flows are directed into the 6'-6" B Street - New Jersey Avenue Trunk Sewer through a 27" dia. sewer connection. Overflow over the dam are discharged into the Potomac River. After downstream interception at Structure No. 34 (site of another inflatable dam) the Easy 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.



SQ. 62
SQ. 68



DETAIL



SECTION A-A

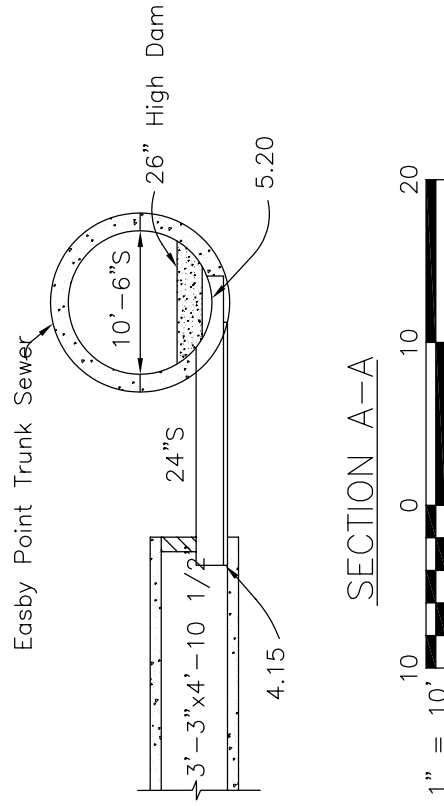
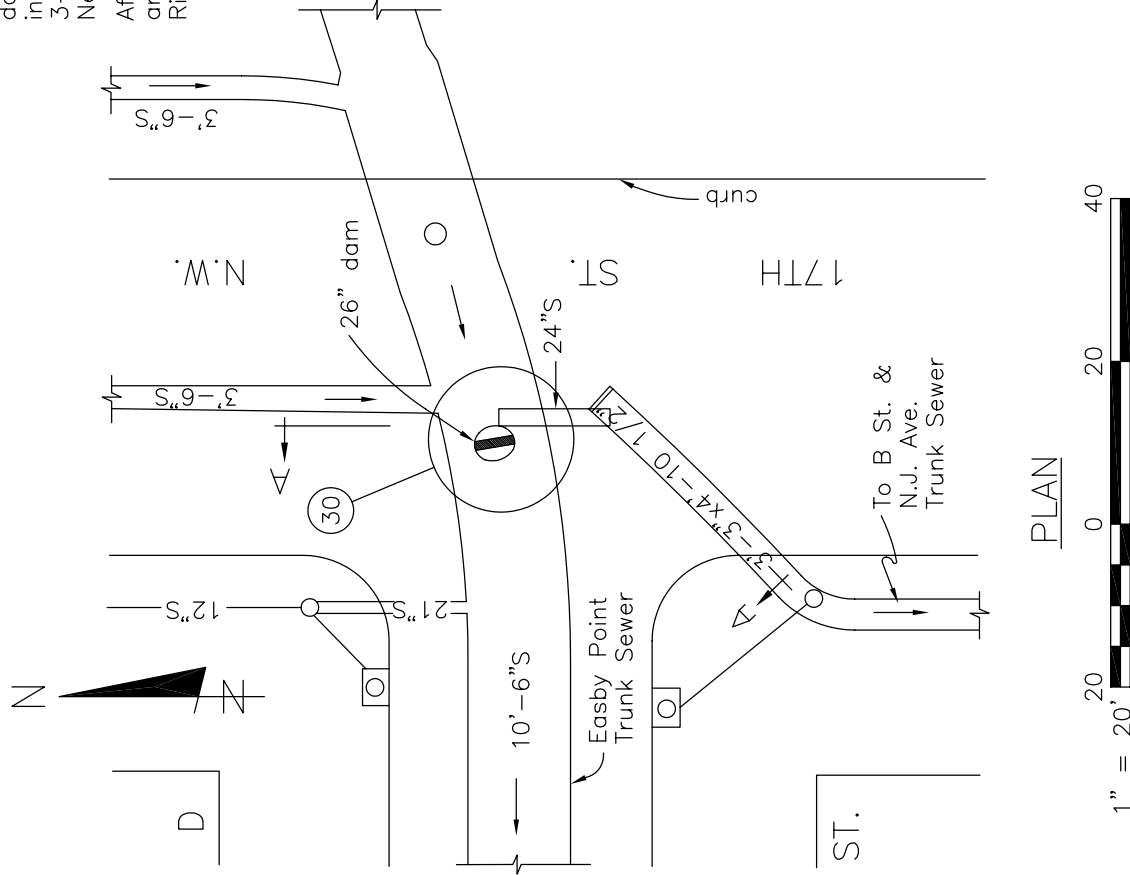


REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.
29

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. intercepting connection which conveys the Dry-Weather Flow to the 3-ft, 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.

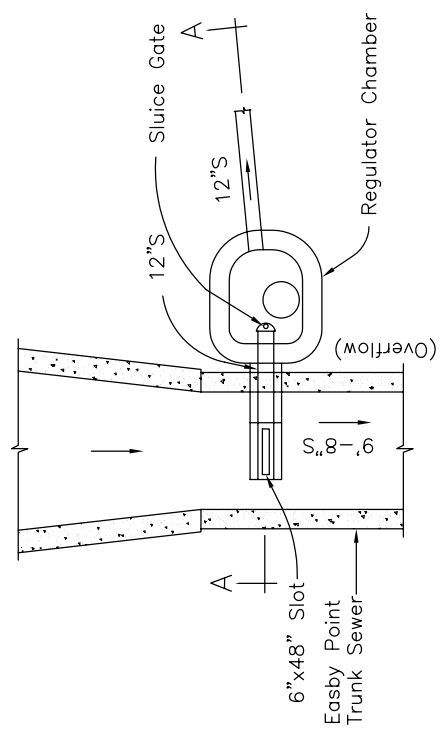
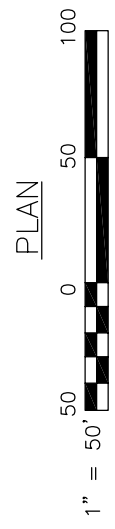
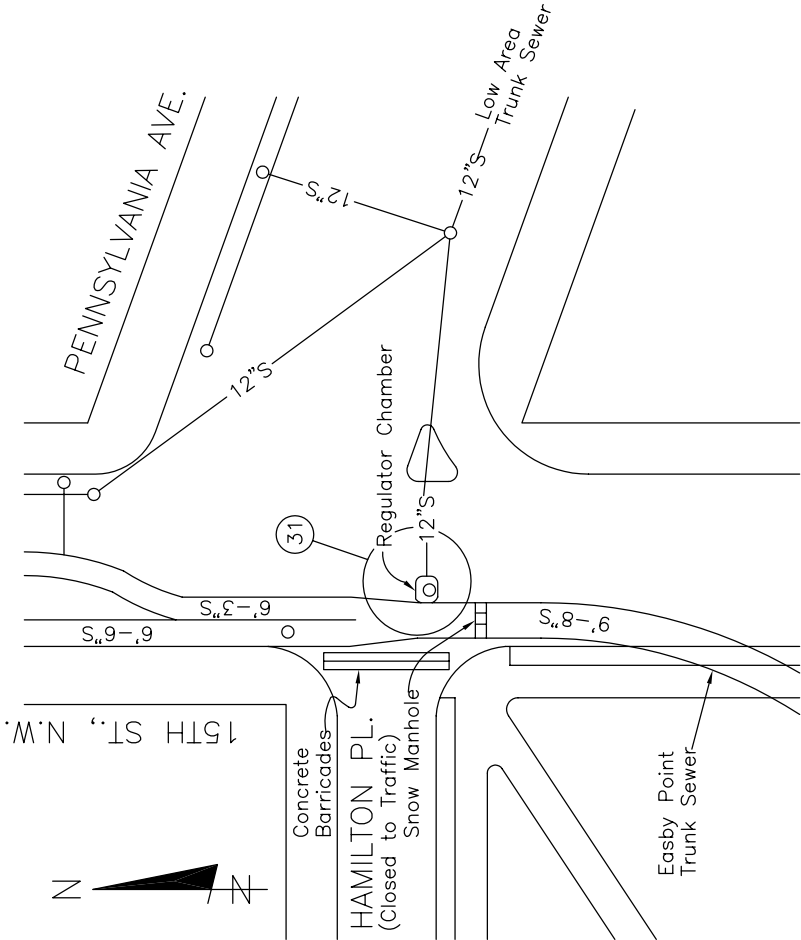


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 020

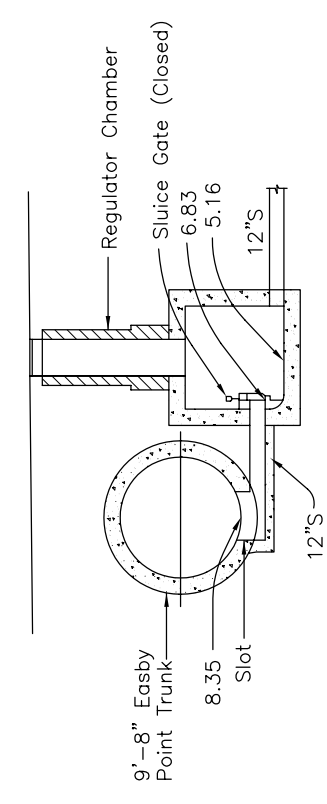
STRUCTURE NO.
 30

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.)



DETAIL



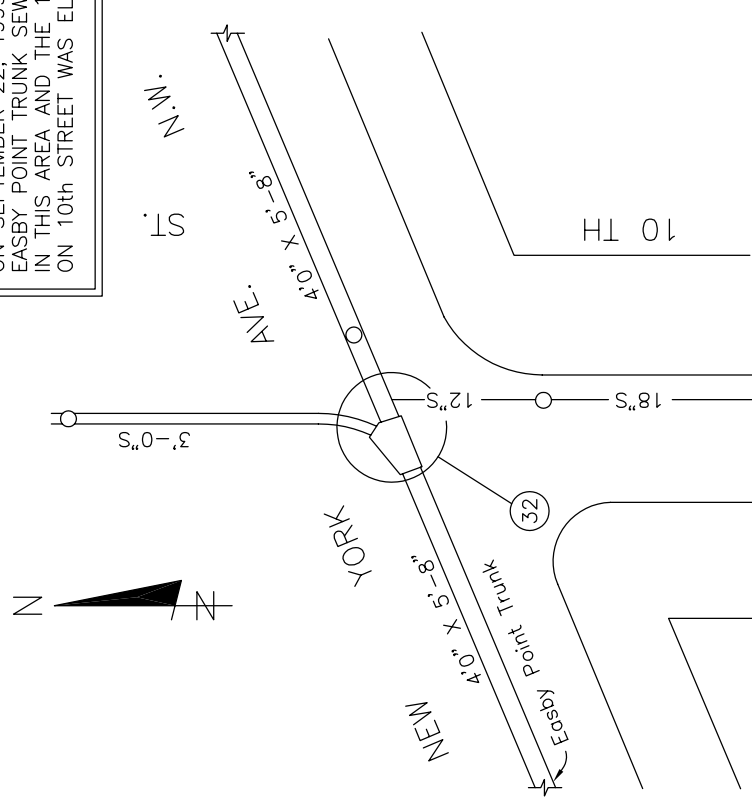
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NIPDES OUTFALL # 020

STRUCTURE NO.
 31

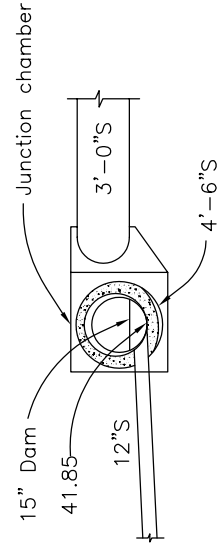
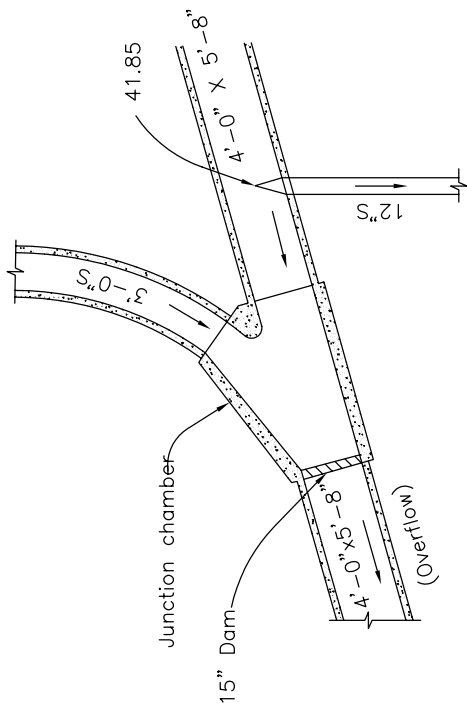
STRUCTURE NO.32, Tenth Street and New York Avenue, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam in the outlet end of a Junction Chamber. 4-ft. 6-in. and 3-ft. Combined Sewers enter the structure and a 12-in. intercepting connection conveys the Dry-Weather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

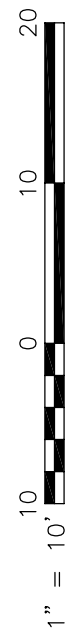
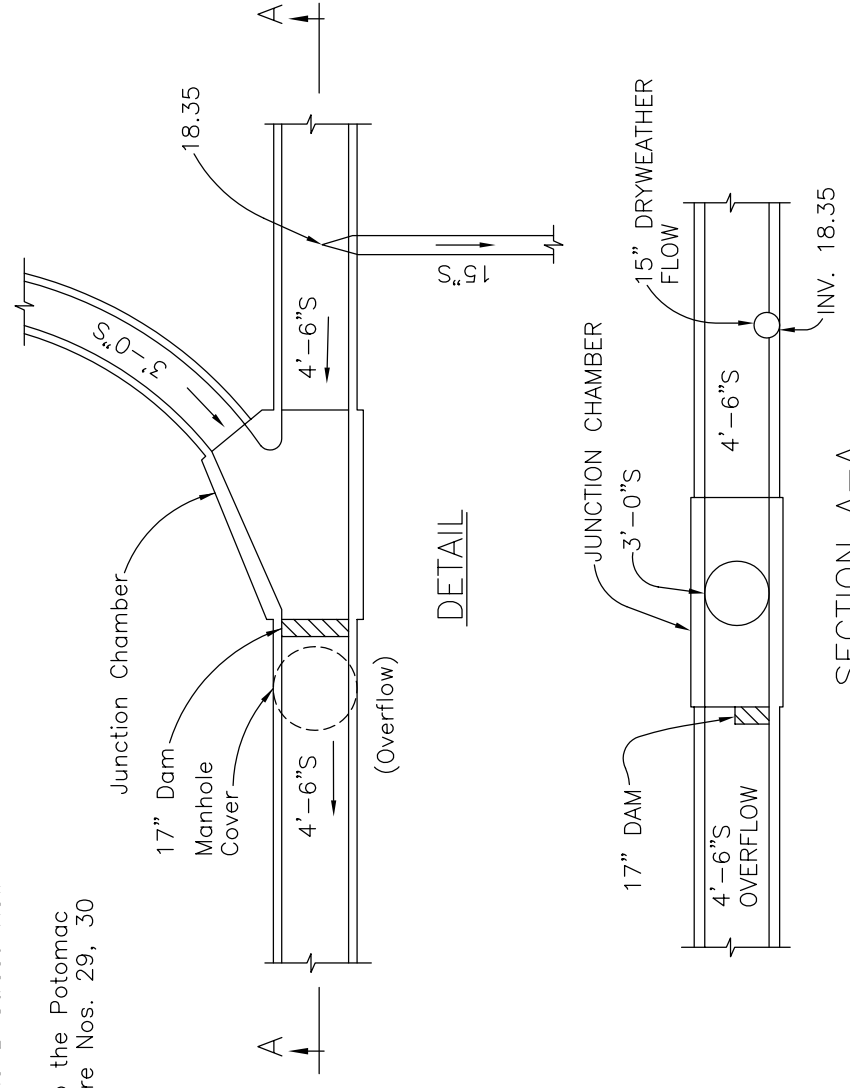
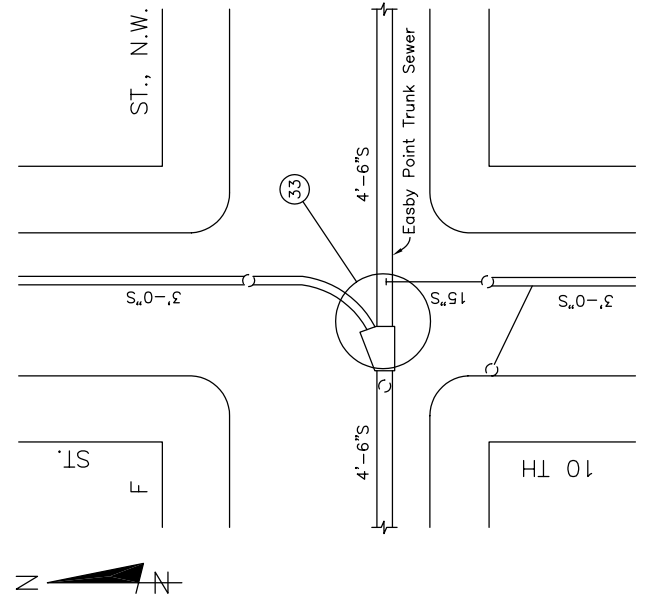


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # N/A

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.)

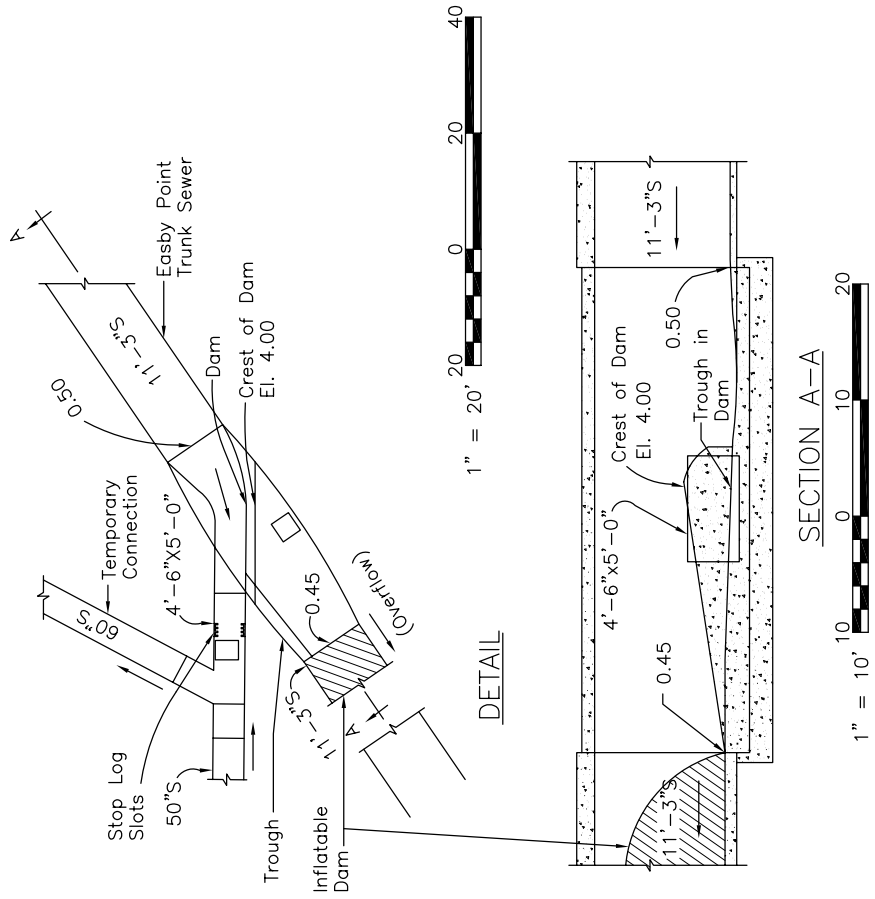
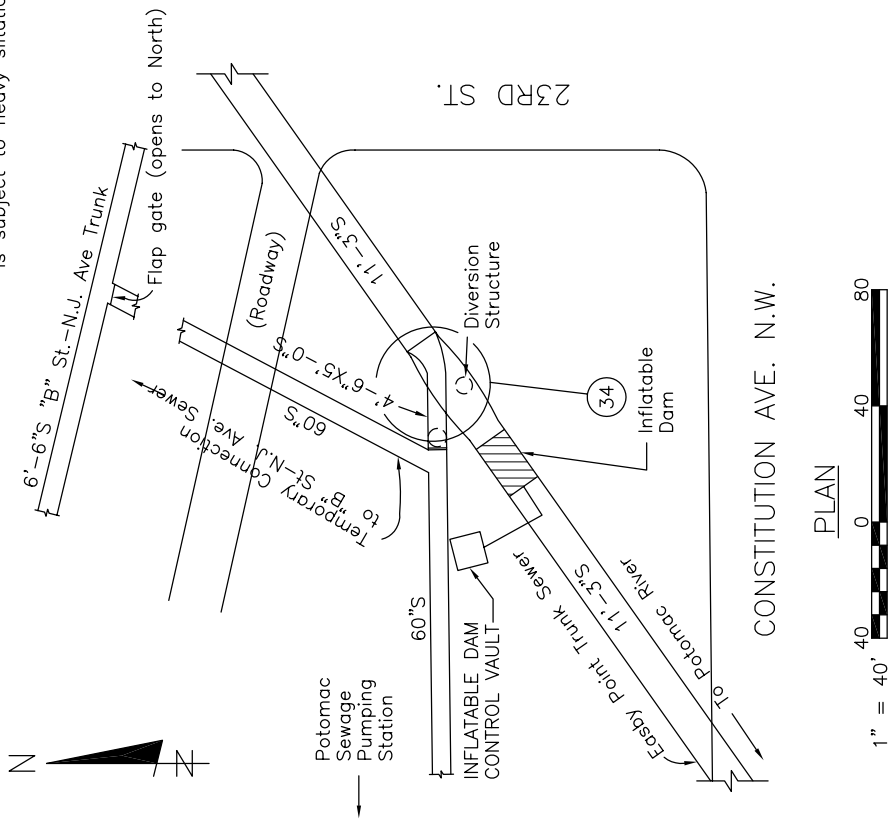


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.
 33

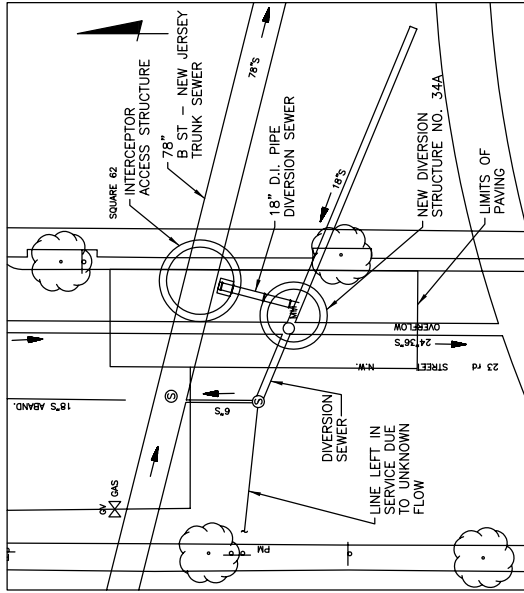
STRUCTURE NO. 34 - 23rd Street, North of Constitution Avenue, N.W. This structure has a cunette-type regulator and an inflatable dam which directs flow into a 4'-6" X 5'-0" Combined Sewer which discharges into the Wet Well of the Potomac Sewage Pumping Station. Flow up to the capacity of the down stream 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.

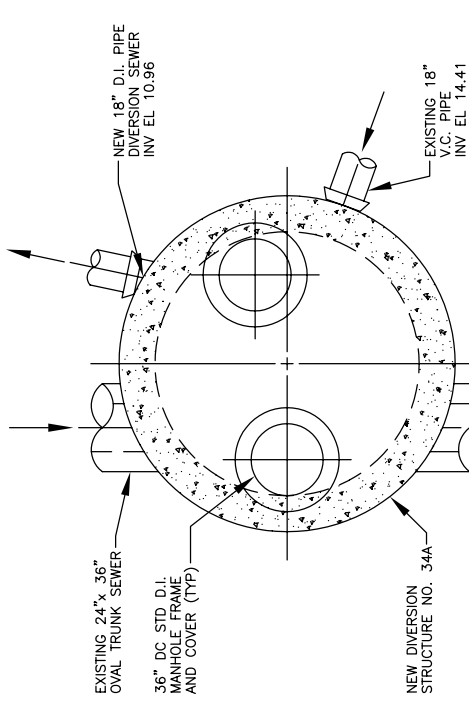


STRUCTURE NO. 34a, 23rd STREET NEAR C STREET NW

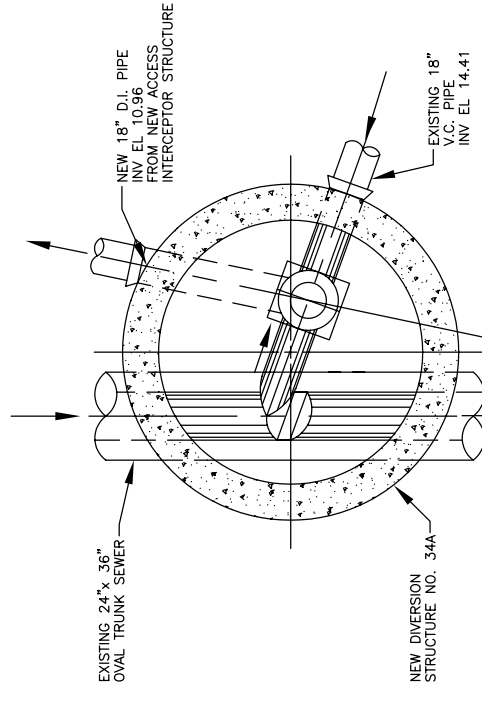
Dry Weather Flow enters the Structure through an 18-inch and 2-foot by 3-foot Sewer and is diverted to the B Street - New Jersey sewer. Overflow spills over a Weir to the Easby Point Trunk Sewer, which ultimately discharges to the Potomac River after one subsequent interception Point (Structure No. 34).



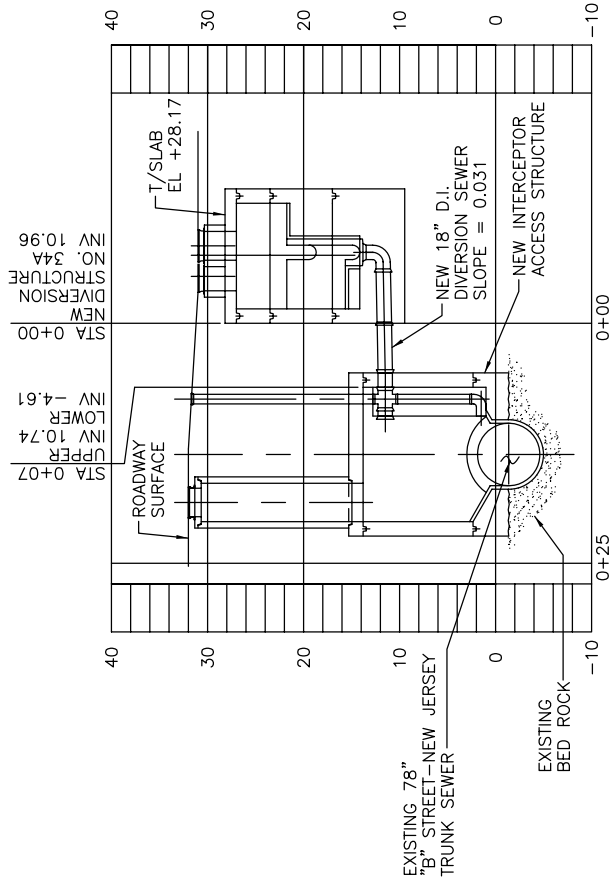
LOCATION PLAN



STR. 34A-PLAN
NTS



STR. 34A-SECTIONAL PLAN
NTS

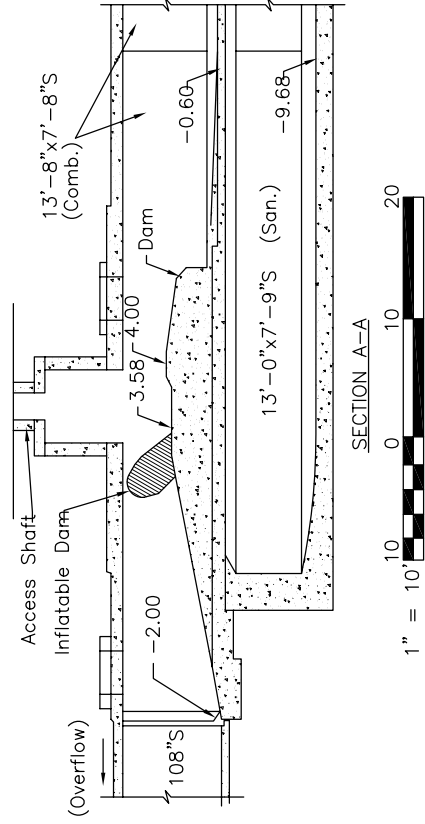
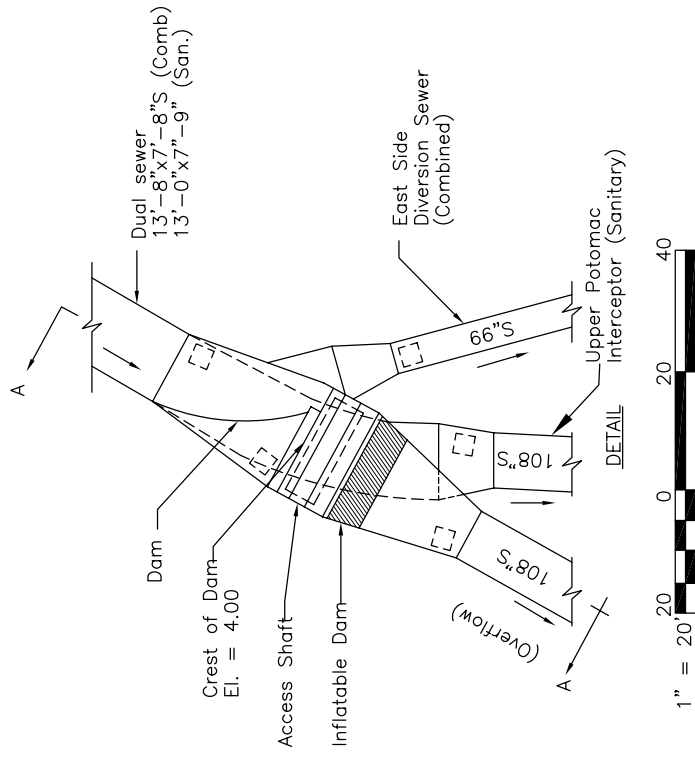
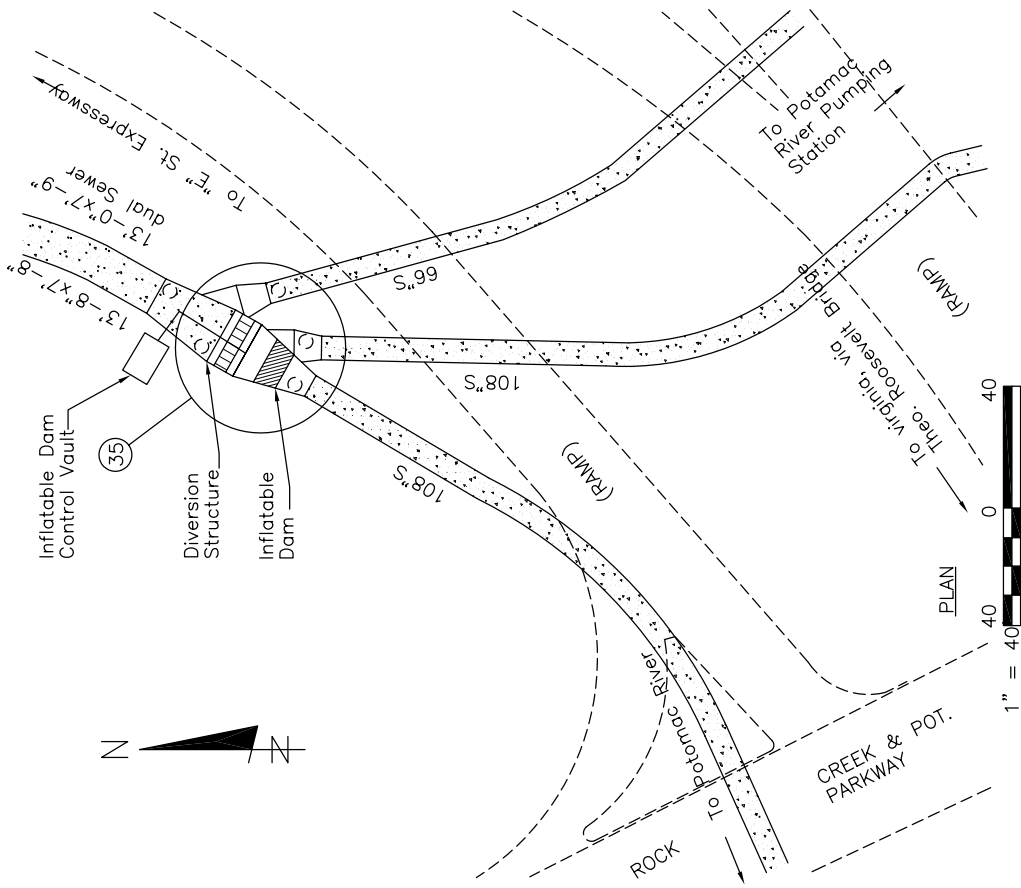


PROFILE
NTS

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)

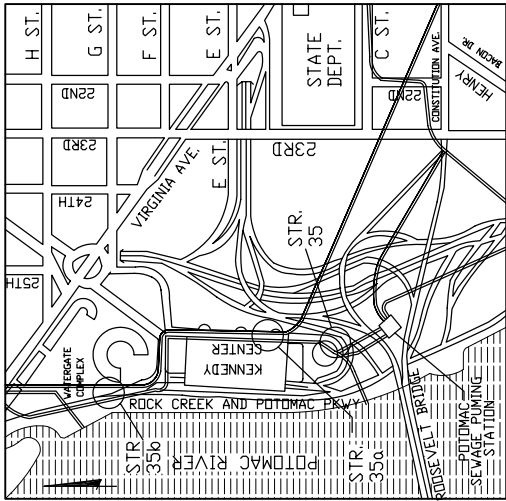


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 021

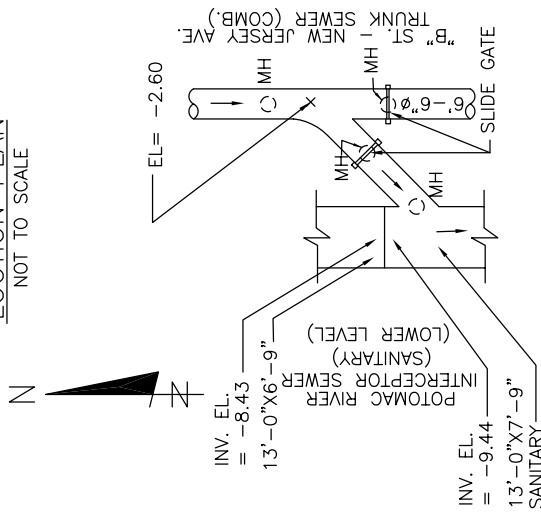
STRUCTURE NO.
 35

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

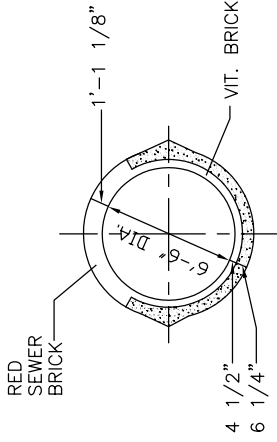
At this location there are two aluminum Slide Gates which enable control of flow in the "B" St. - New Jersey Avenue Trunk Sewer (which is a continuation of the Rock Creek Main Interceptor). Flow may continue in the Trunk Sewer or may be diverted to the Potomac River Interceptor Sewer (lower level of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



LOCATION PLAN
NOT TO SCALE



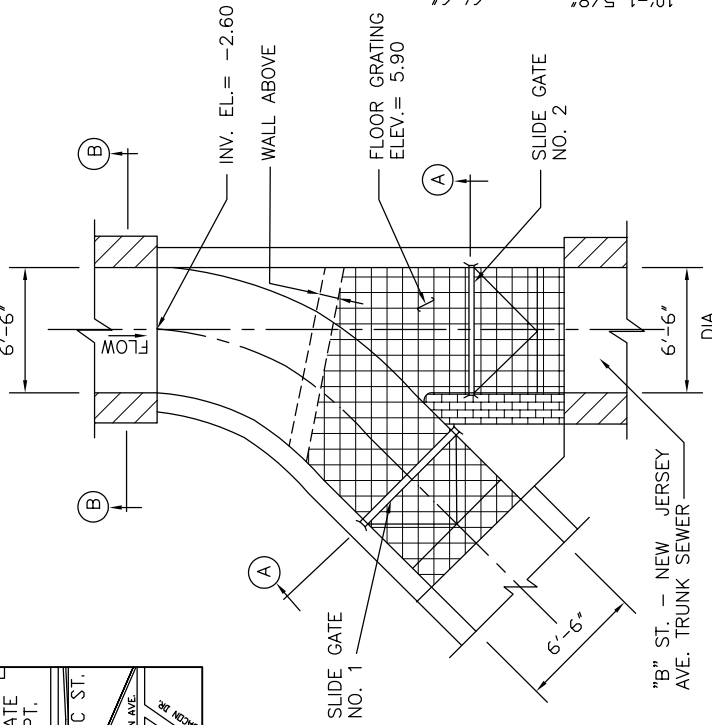
SCHEMATIC



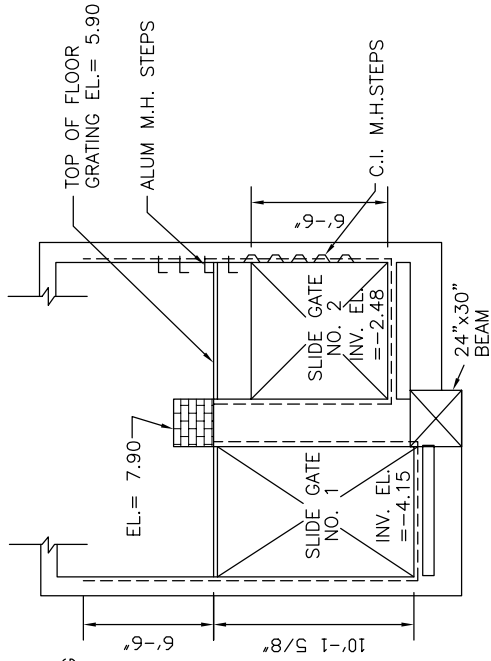
SECTION B-B

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.



SECTIONAL PLAN
NOT TO SCALE



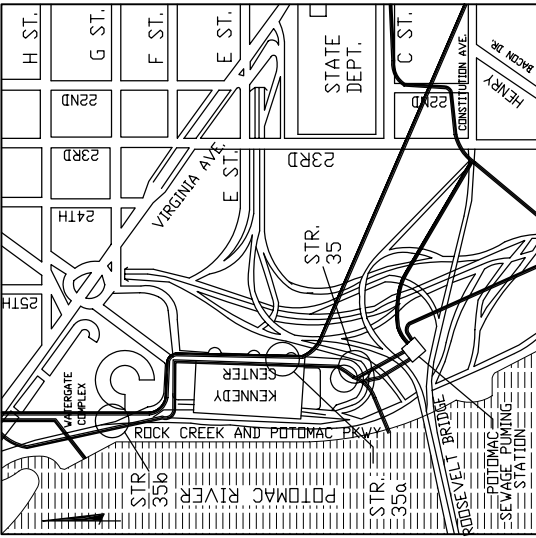
SECTION A-A

KENNEDY CENTER GARAGE

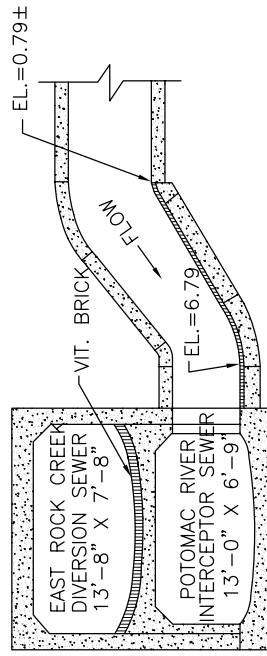
NOT TO SCALE

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

STRUCTURE NO.
35a



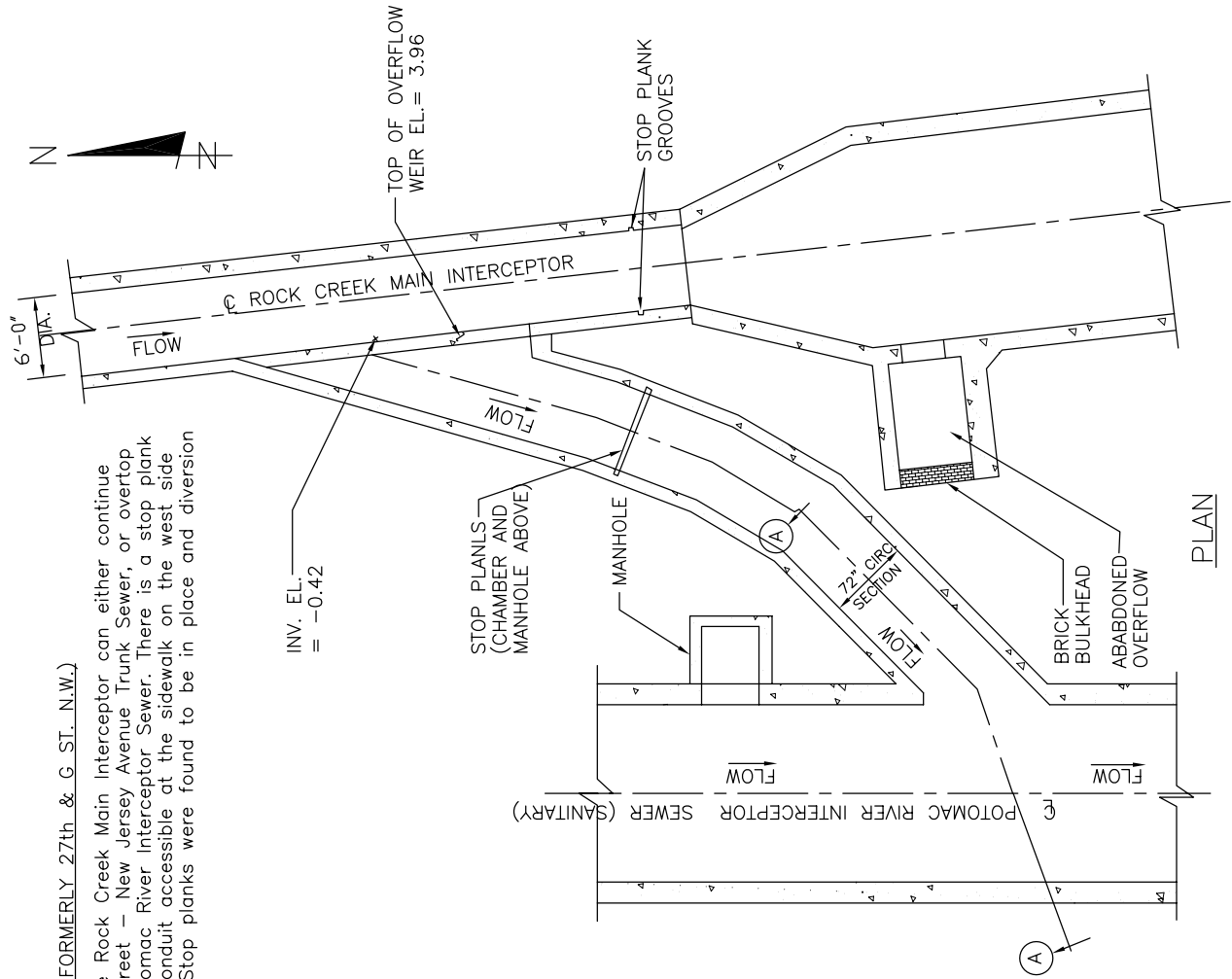
LOCATION PLAN
NOT TO SCALE



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.



PLAN

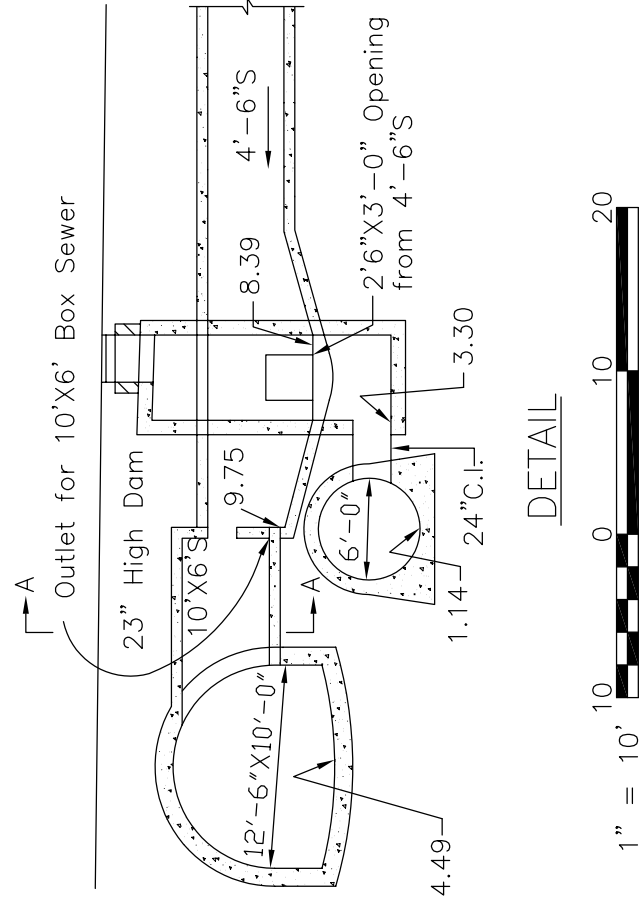
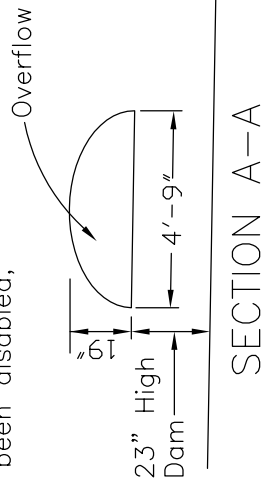
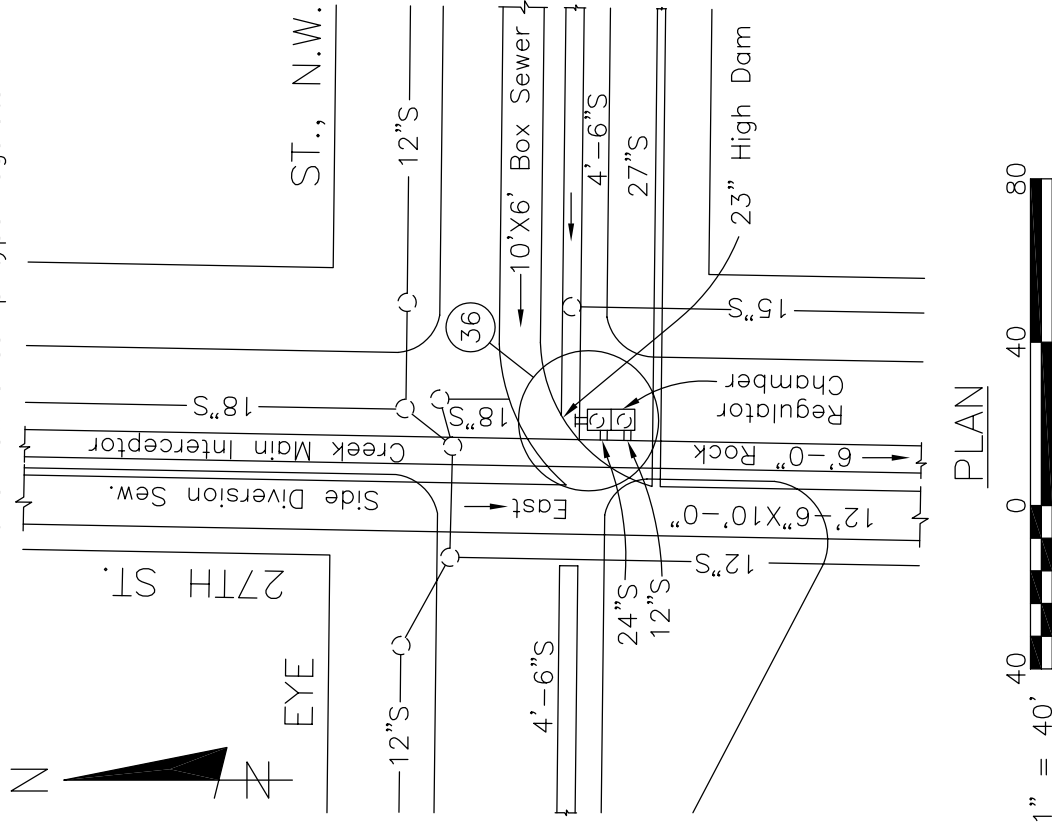
WATERGATE DIVERSION
NOT TO SCALE

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.

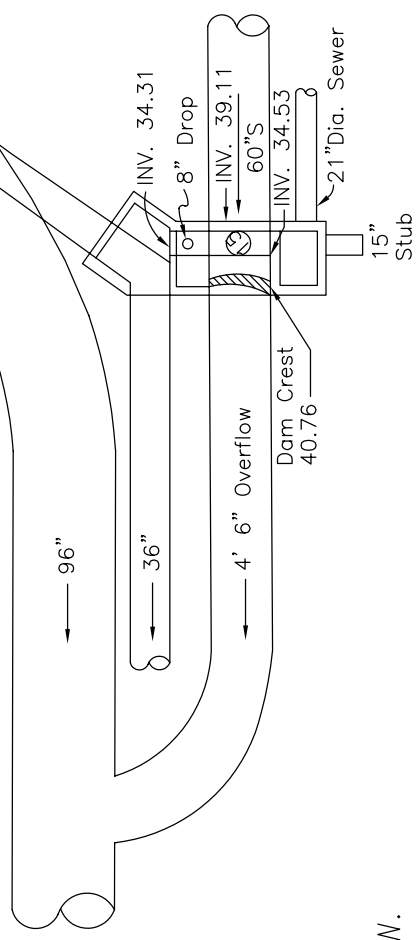
This was formerly a float type regulator. The float device has been disabled, it is now a sump type regulator.



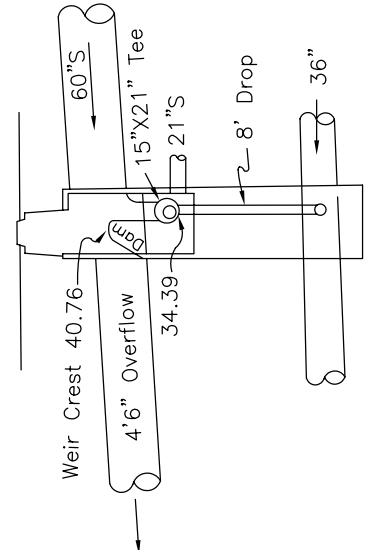
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 022

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.



DETAIL



PLAN



SECTION A-A

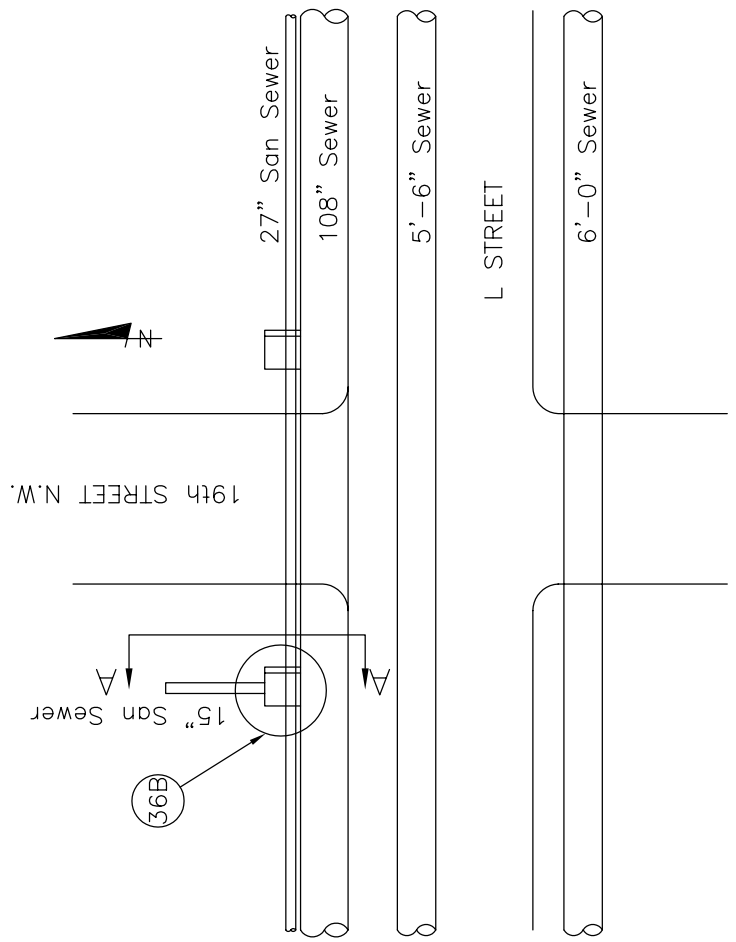


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 022

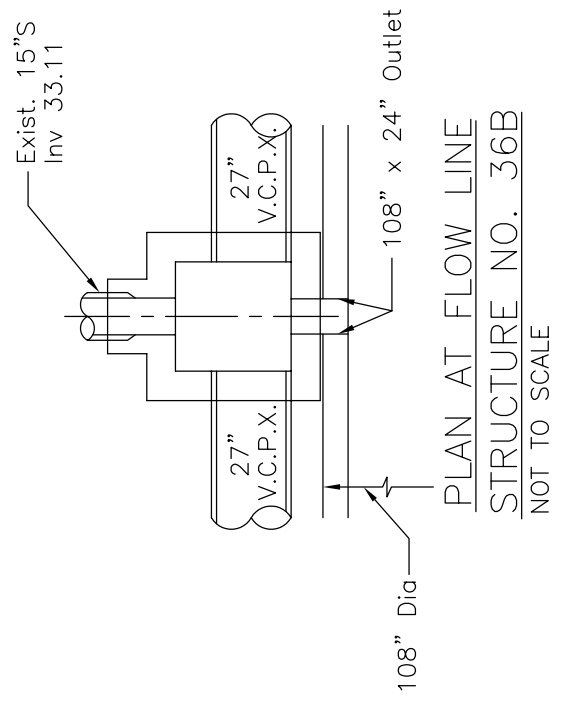
STRUCTURE NO.
 36a

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

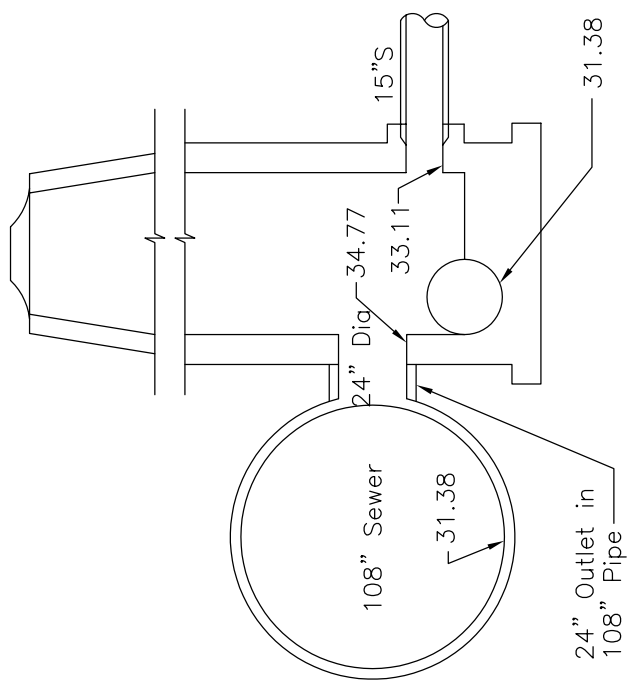
This structure is a relief for the 27-inch Sanitary Sewer just north of L Street. Relief is through a 24-inch pipe connecting to a tee in the 108-inch Slash Run Relief Sewer. The relief is 3.39 feet above the invert of the 27-inch sewer.



PLAN
NOT TO SCALE



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



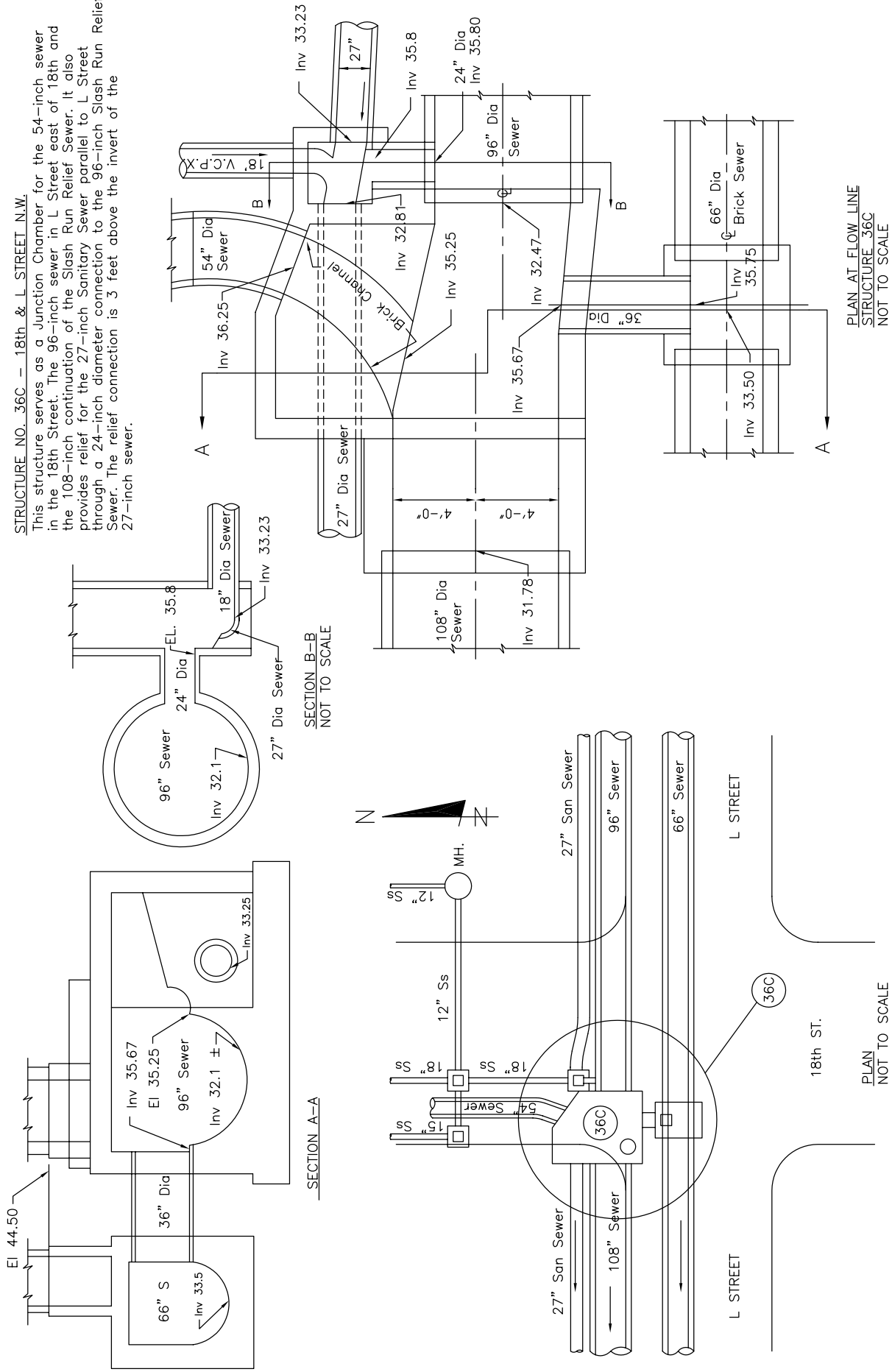
SECTION A-A
NOT TO SCALE

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

STRUCTURE NO.
36b

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

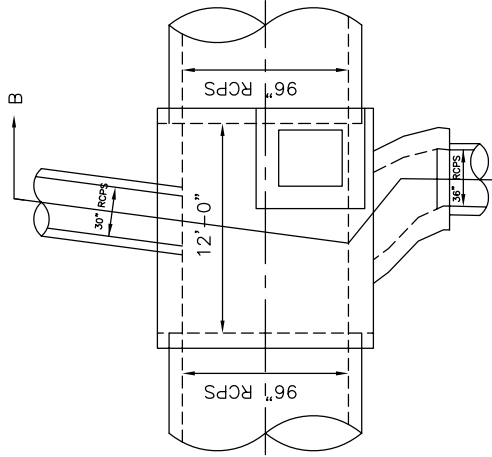
PLAN
NOT TO SCALE

STRUCTURE NO.
36c

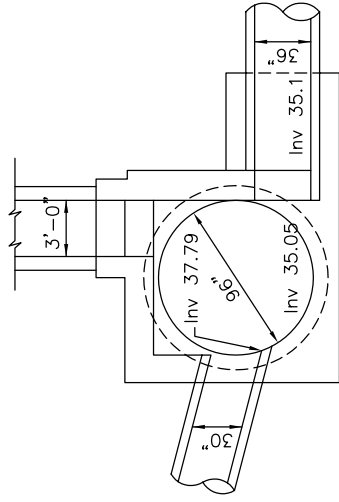
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

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.

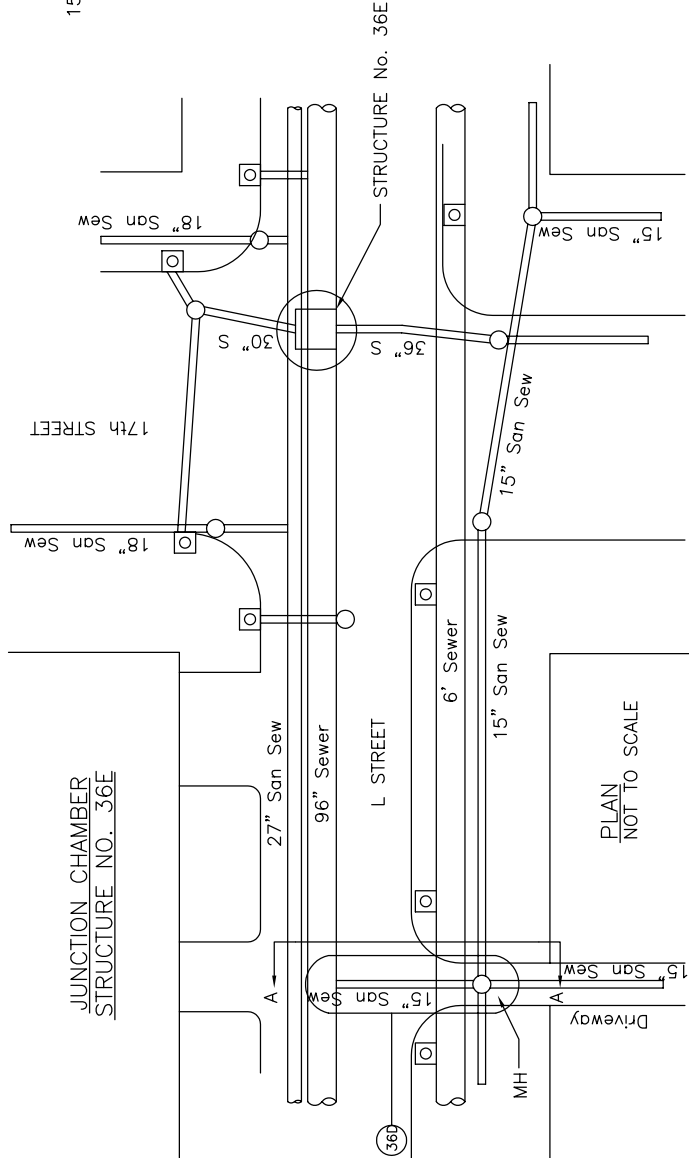
STRUCTURE NO. 36E
 Structure No. 36E is a Junction between the 96-inch Slash Run Relief Sewer in L Street, the 30-inch sewer from the north and the 36-inch sewer from the south in 17th Street.



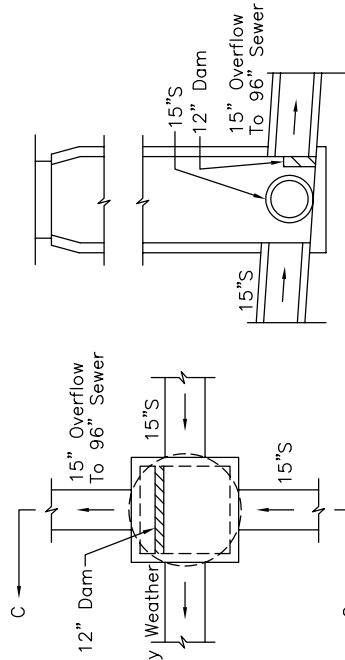
PLAN STRUCTURE 36E
 NOT TO SCALE



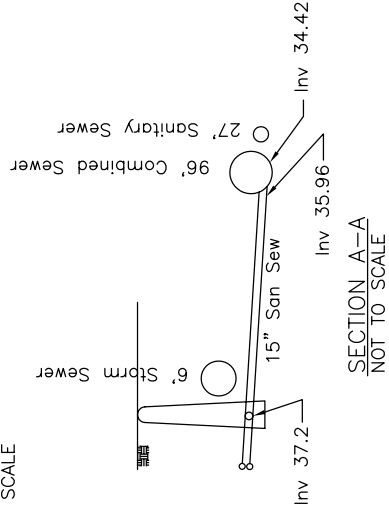
SECTION B-B
 NOT TO SCALE



PLAN STRUCTURE 36D
 NOT TO SCALE



PLAN STRUCTURE 36D
 NOT TO SCALE



SECTION A-A
 NOT TO SCALE

SECTION C-C
 NOT TO SCALE

REVISD 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

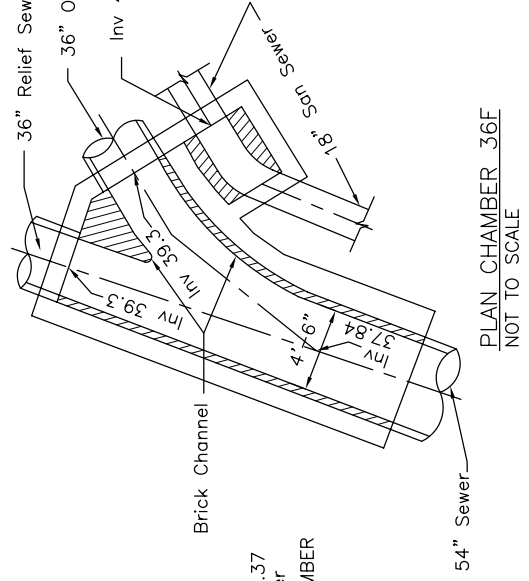
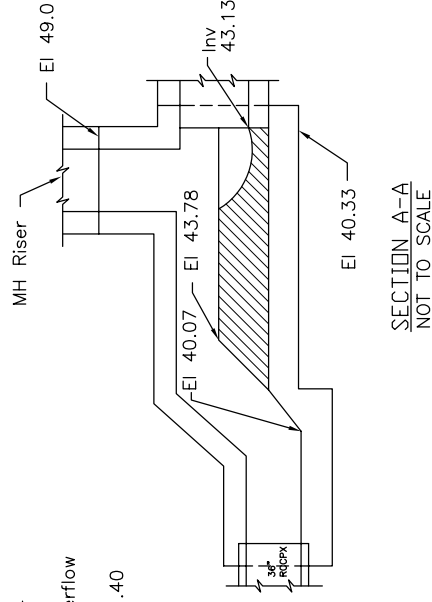
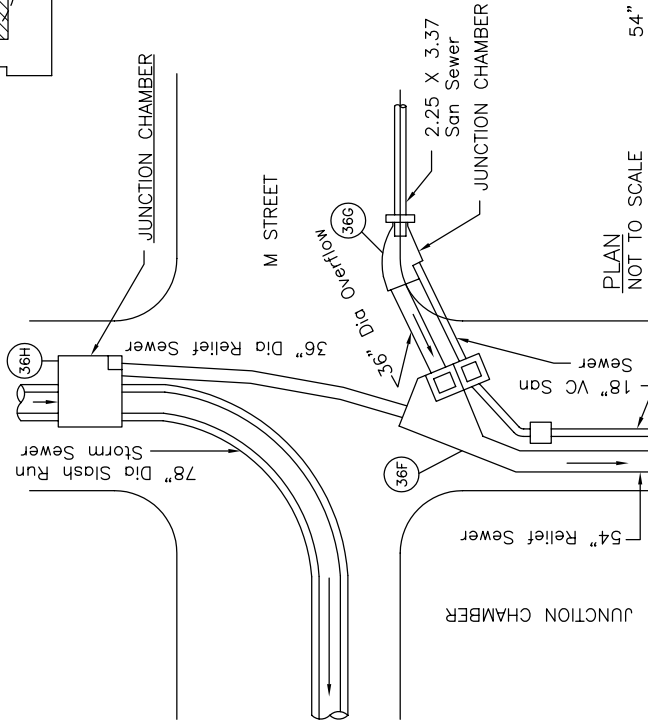
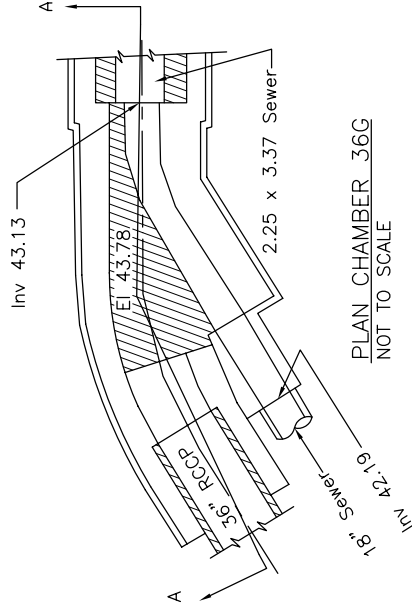
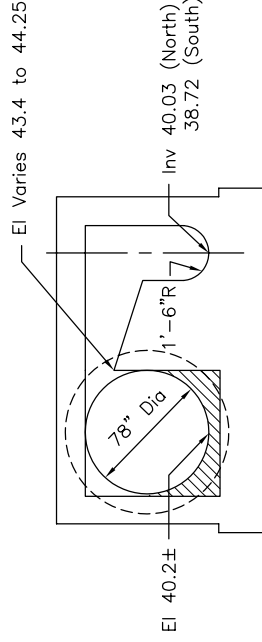
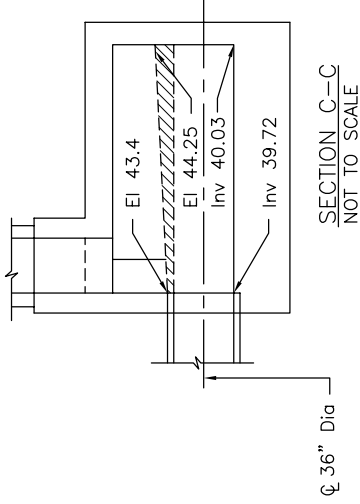
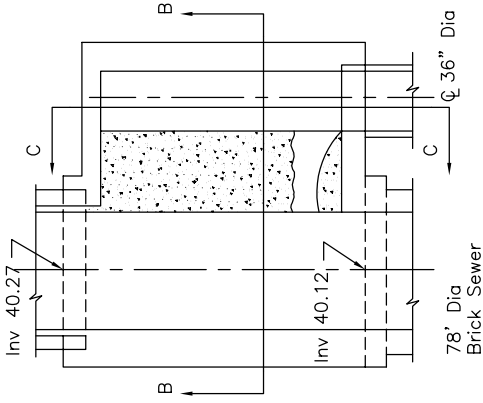
Is a Weir type structure which joins the 36-inch Storm Overflow from the Weir in Structure No. 36G and 36-inch Combined Overflow from the Weir in Structure No. 36H and discharges into the 54-inch Slash Run Relief Sewer.

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.



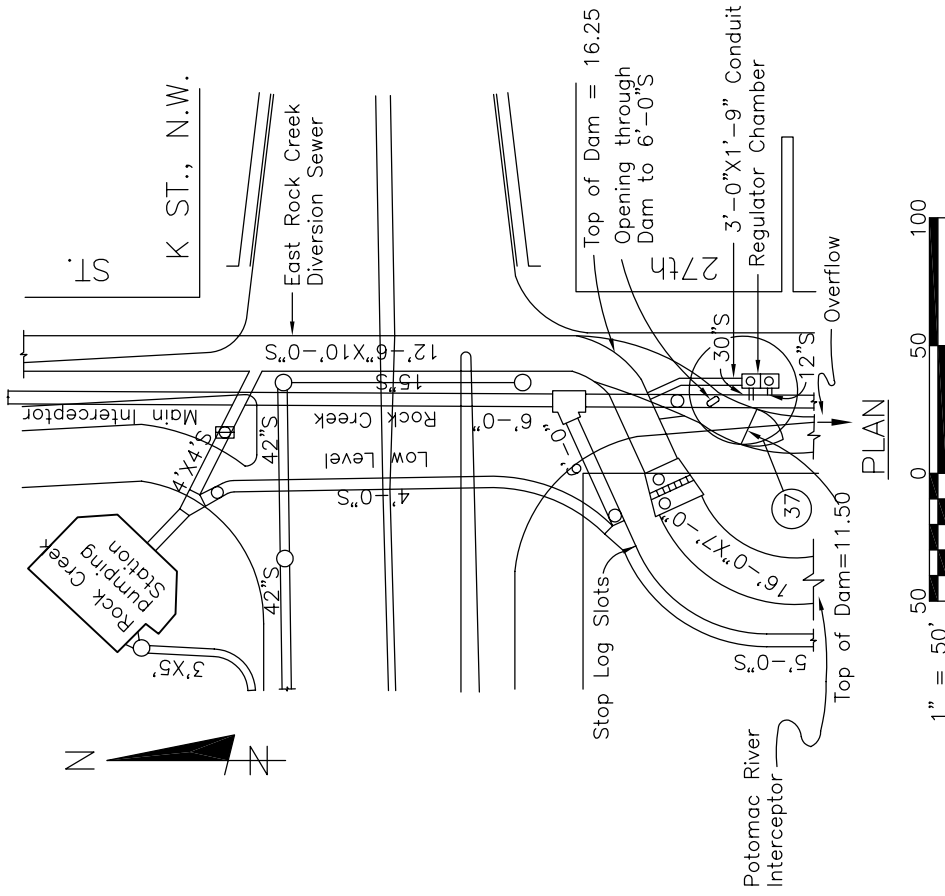
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.
 36f, 36g, 36h

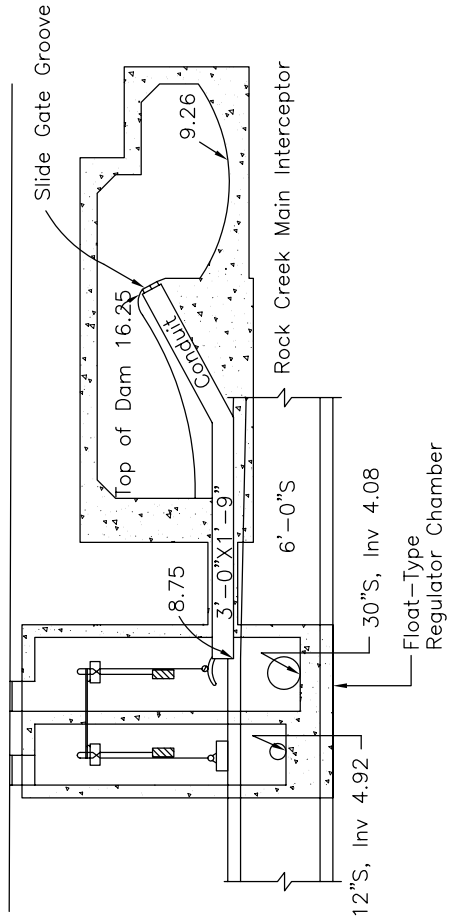
STRUCTURE NO. 37, 27th and K Streets, N.W. This structure consists of one intercepting connection and one diversion connection.

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.



THOUGH THE FLOAT MECHANISM IS STILL IN THE STRUCTURE, IT HAS BEEN DISABLED. THE GATE REMAINS IN THE OPEN POSITION AT ALL TIMES.



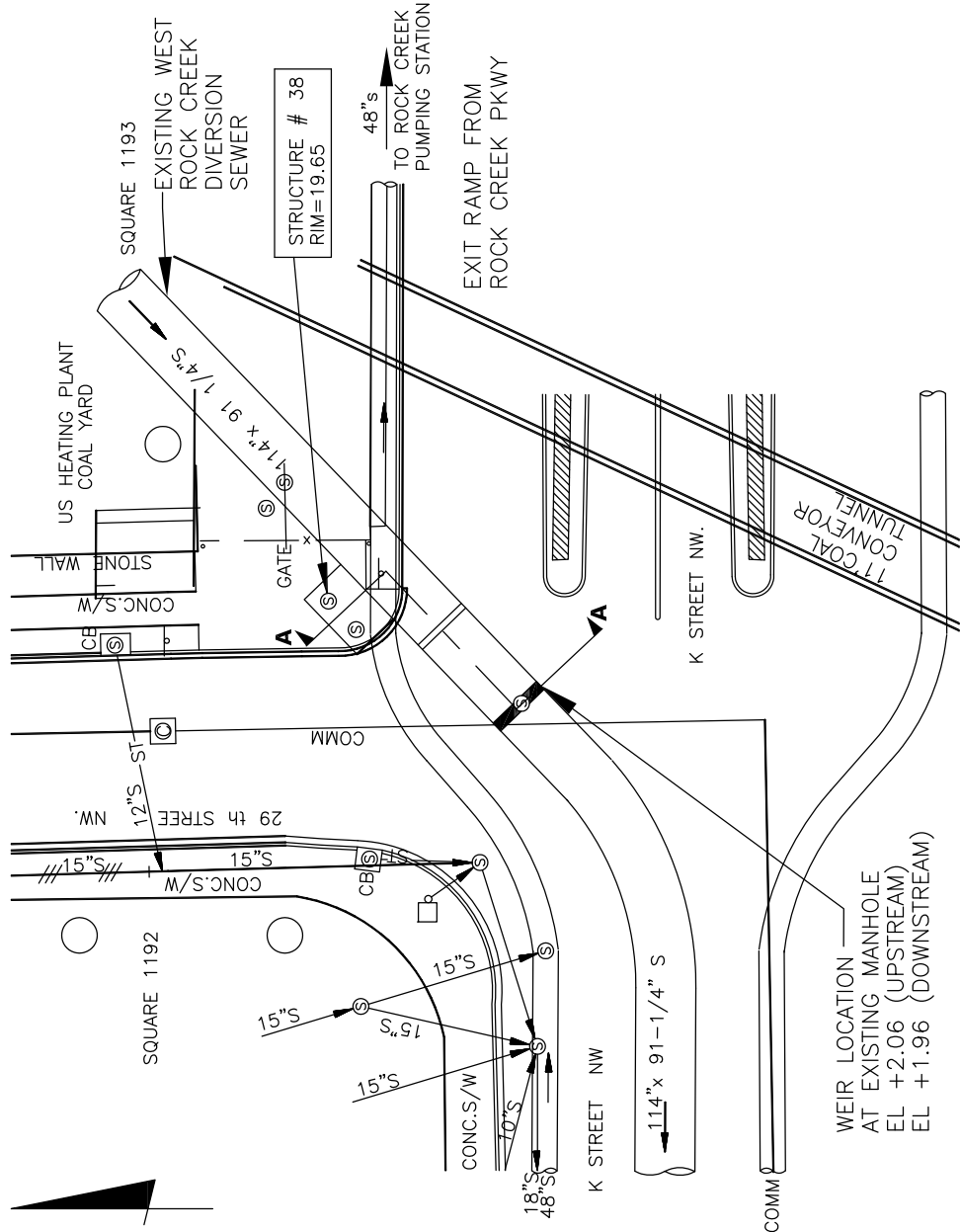
DETAIL



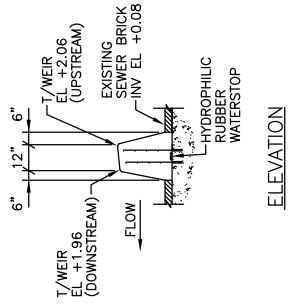
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO. 37

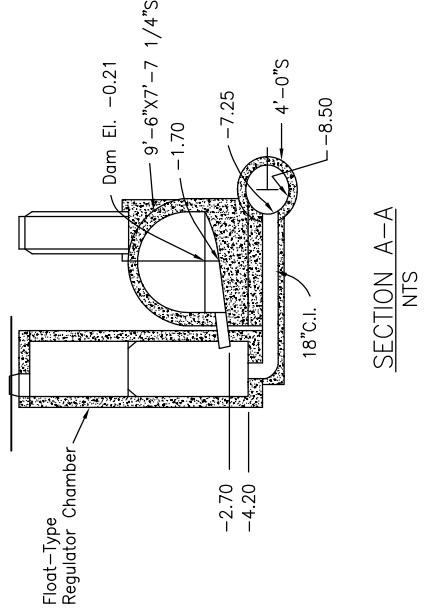
STRUCTURE NO. 38, 29th STREET AND K STREET NW
 This Structure was formerly a float type regulator. Now it is a Sump Type Regulator.
 The Storm Overflow is formed by the continuation of the Diversion Sewer downstream from a masonry Dam. The West Rock Creek Diversion Sewer enters the Structure, and an 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



ELEVATION
 NEW WEIR
 STRUCTURE NO. 38
 NTS



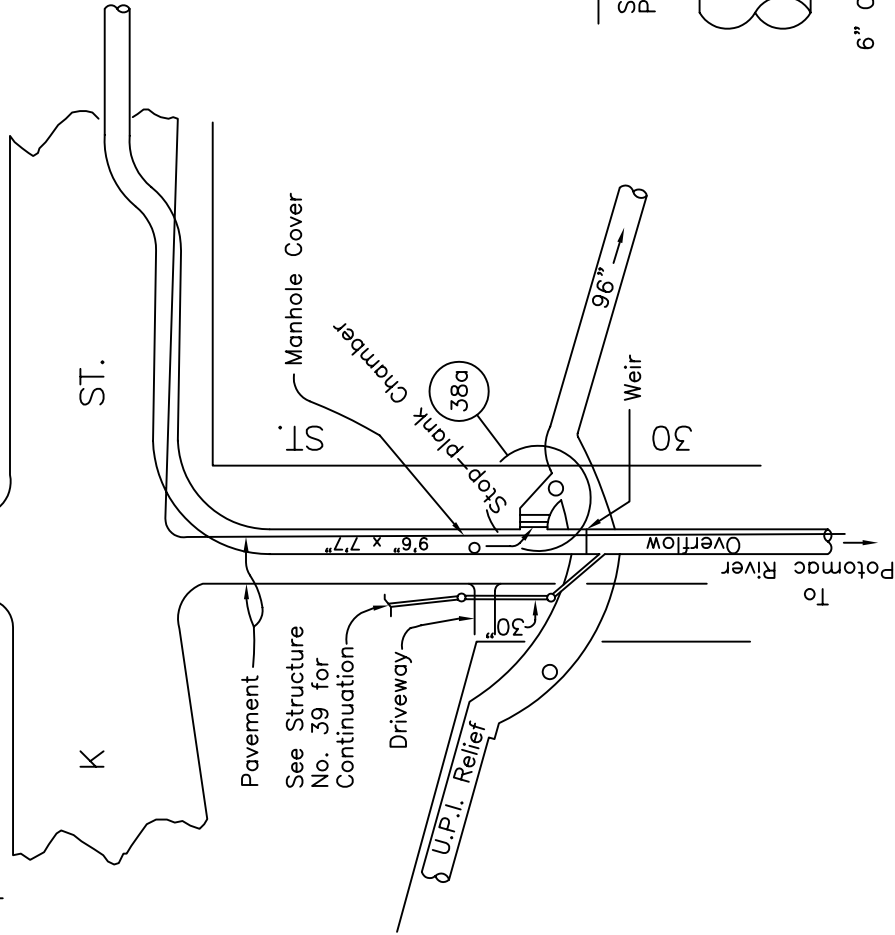
SECTION A-A
 NTS

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

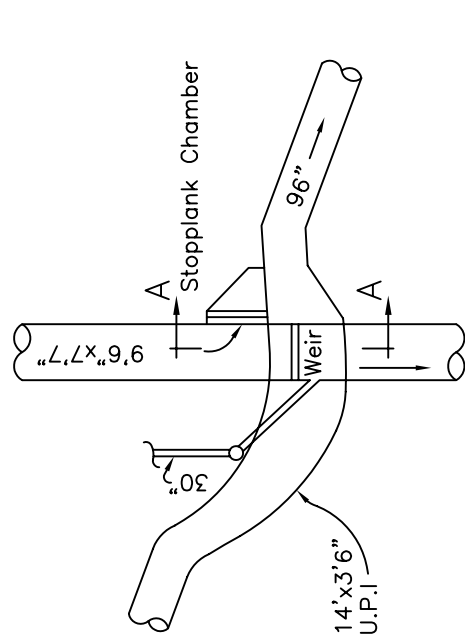
STRUCTURE NO.
 38

STRUCTURE NO. 38a, 30th St. South of K St., N.W. Flow in the 9'-6" by 7'-7" Combined Sewer discharges to Upper Potomac Interceptor Relief Sewer through a side stop-plank chamber (Presently, there is a 6" high opening in the base of the Stop-Plank Chamber to pass this flow.)

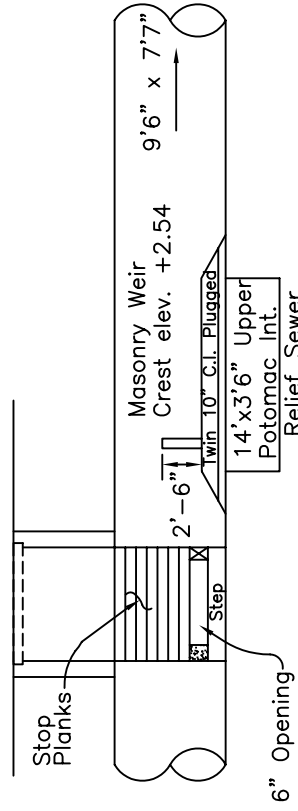
Overflow continues south to the Potomac River. (Downstream of the interception point on the Overflow is a 2'6" high masonry weir to prevent tidal backflow.)



PLAN



DETAIL



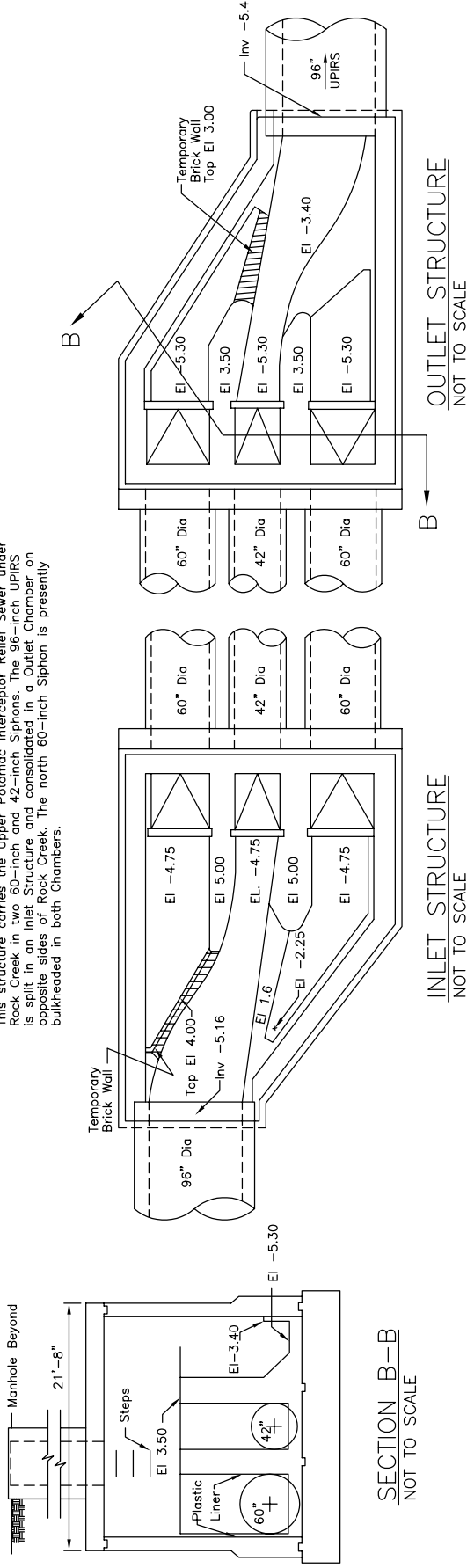
SECTION A-A



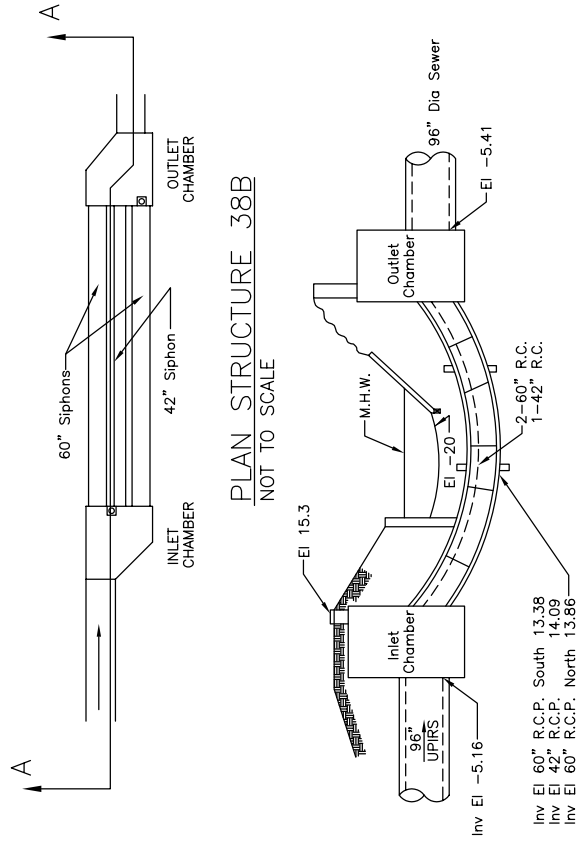
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 024

STRUCTURE NO.
 38a

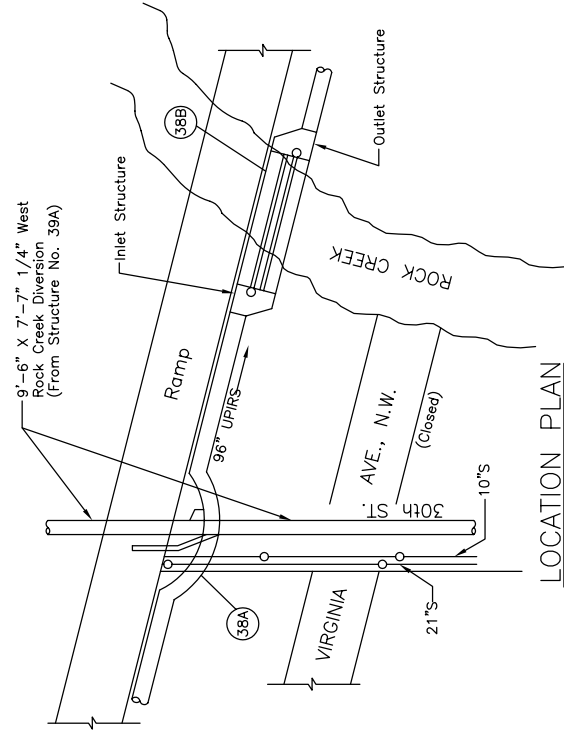
STRUCTURE NO. 38B - UPIRS SIPHON AT ROCK CREEK
 This structure carries the Upper Potomac Interceptor Relief Sewer under Rock Creek in two 60-inch and 42-inch Siphons. The 96-inch UPIRS is split in an Inlet Structure and consolidated in a Outlet Chamber on opposite sides of Rock Creek. The north 60-inch Siphon is presently bulkheaded in both Chambers.



SECTION B-B
NOT TO SCALE



SECTION A-A
NOT TO SCALE



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

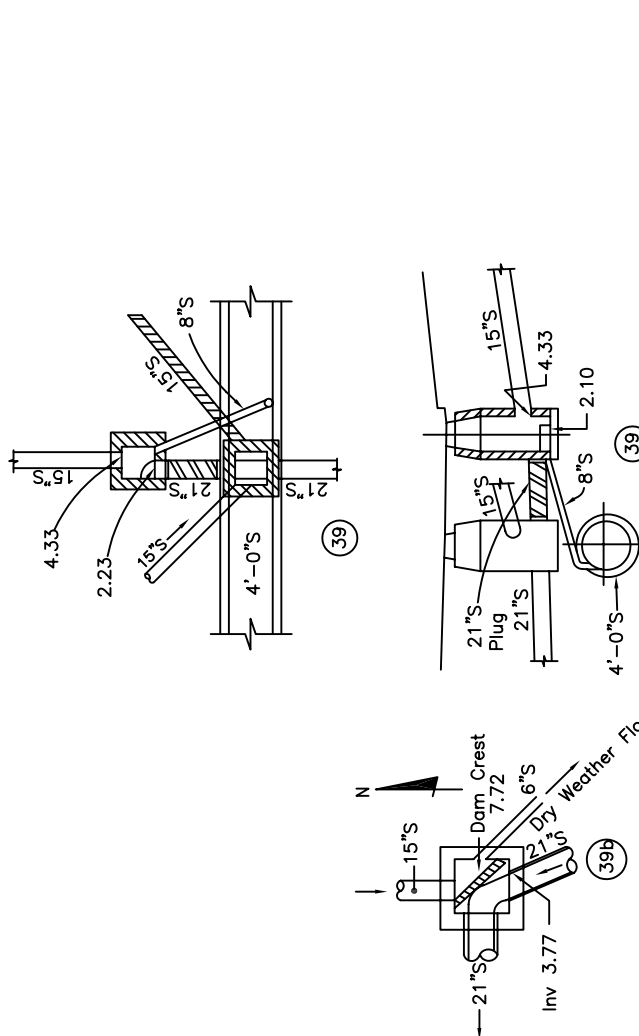
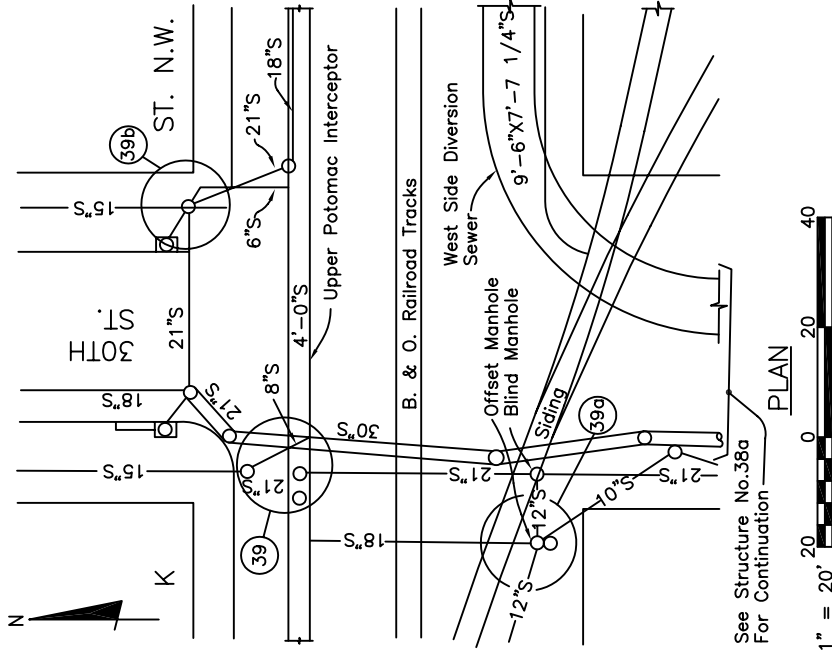
STRUCTURE NO.
38b

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.

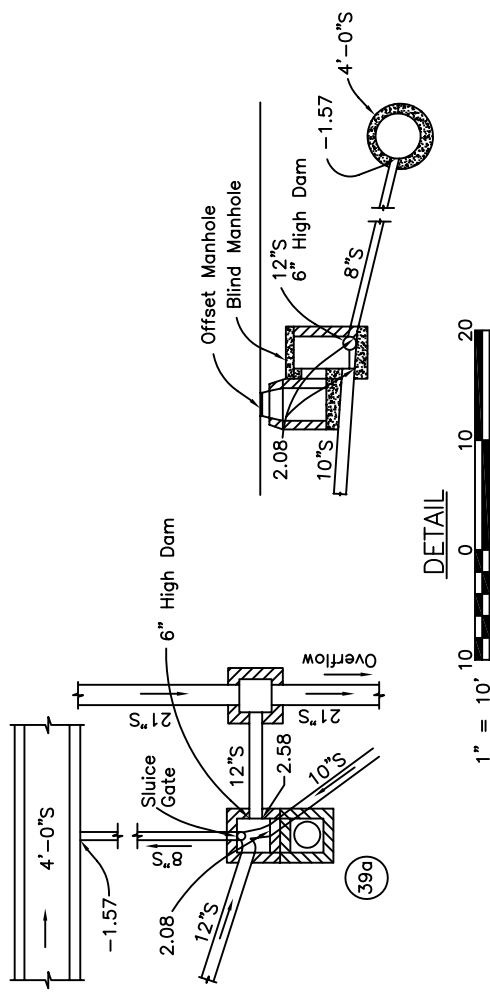
STRUCTURE NO. 39. A 15-inch Combined Sewer enters the Overflow Manhole and there is an 8-inch intercepting connection. The previously used 21-inch overflow connection has been bulkheaded.

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 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

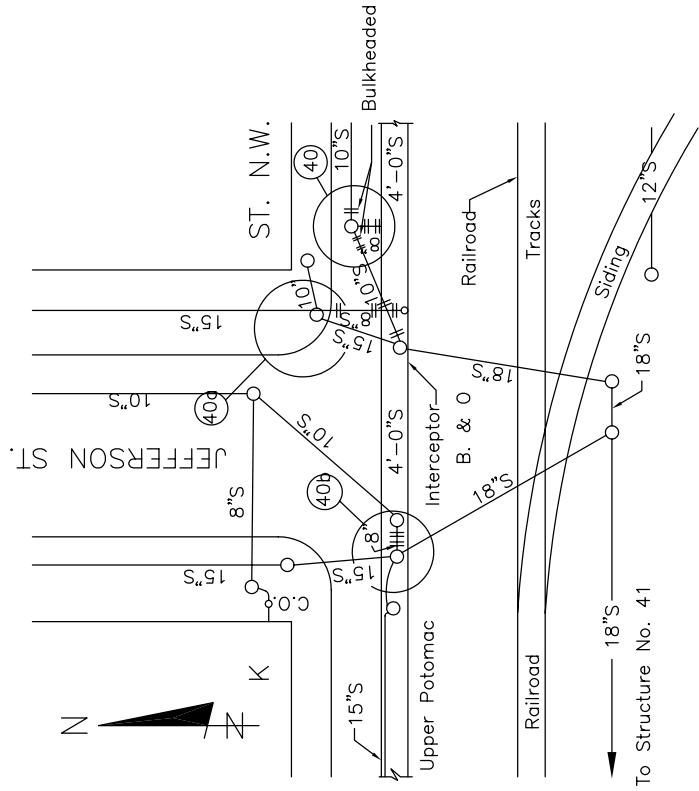
STRUCTURE NO.
 39, 39a, 39b

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

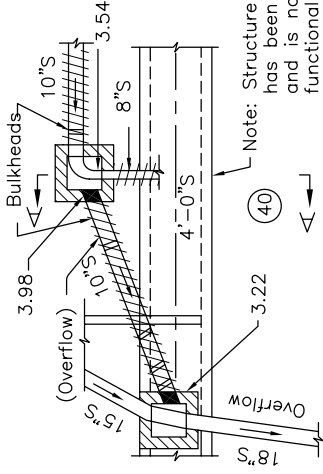
STRUCTURE NO. 40. The Incoming line and Overflow from this structure are now bulkheaded.

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

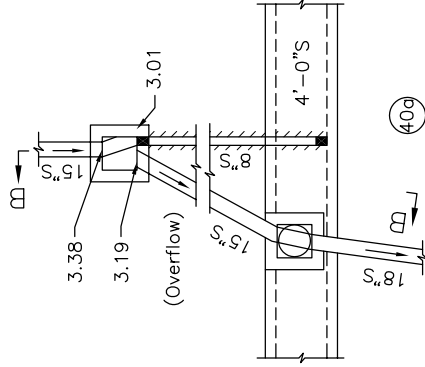
STRUCTURE NO. 40b. This Structure has been converted to a Storm Sewer Manhole.



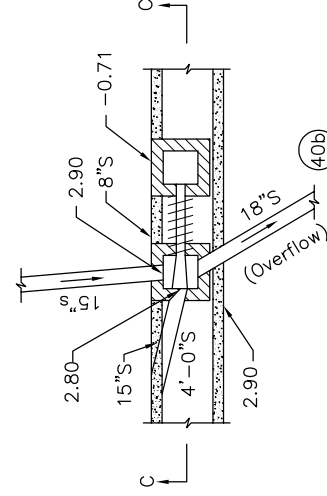
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

DETAIL

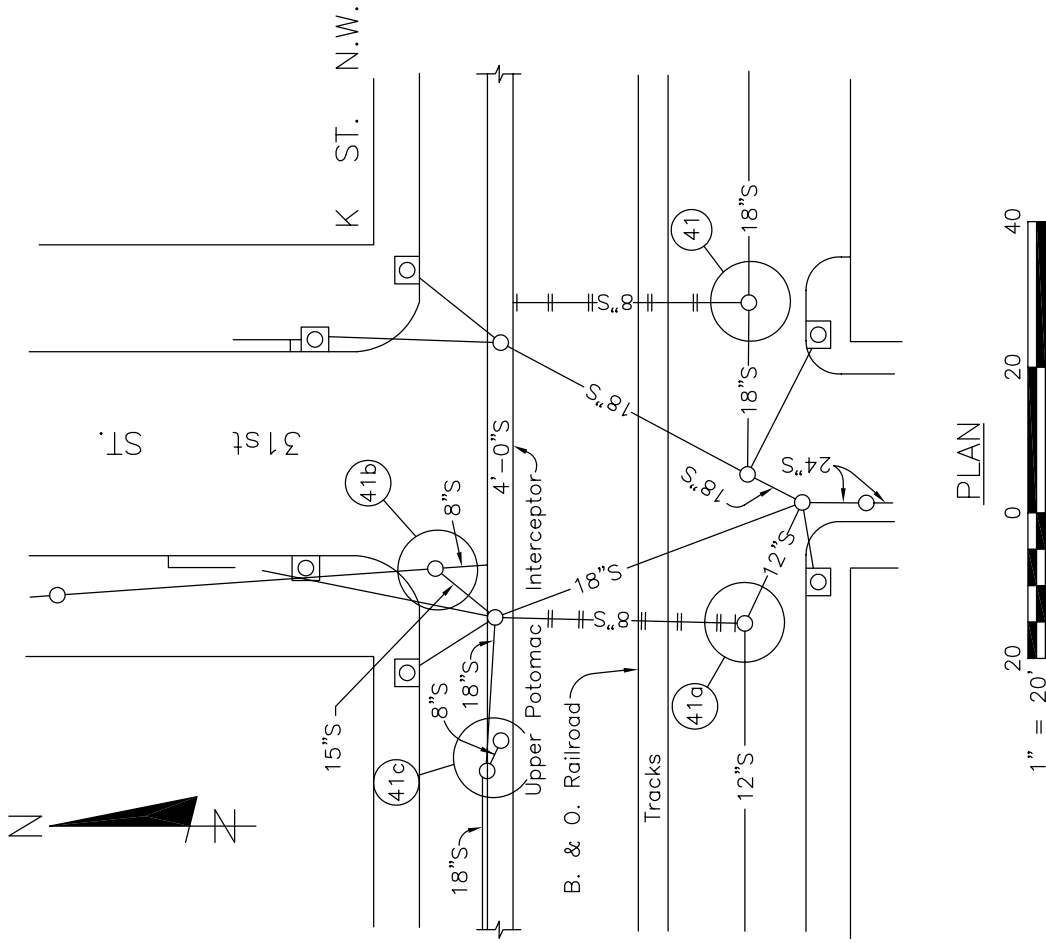


STRUCTURE NO.
40, 40A, 40B

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

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

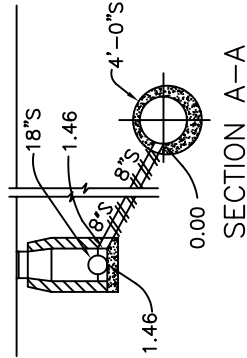
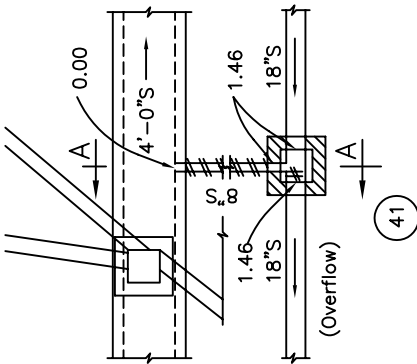
STRUCTURE NO.
 41

CONVERTED TO STORM

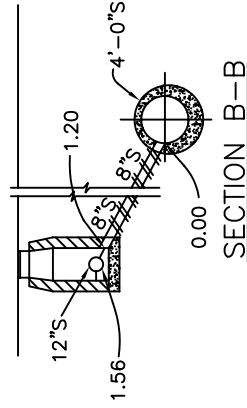
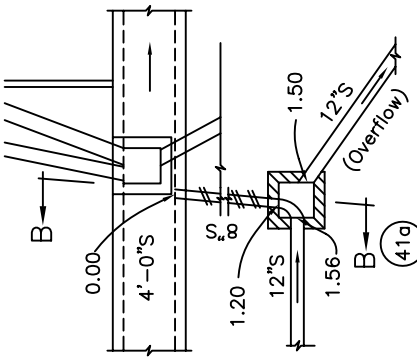
IN SERVICE

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.



SECTION A-A



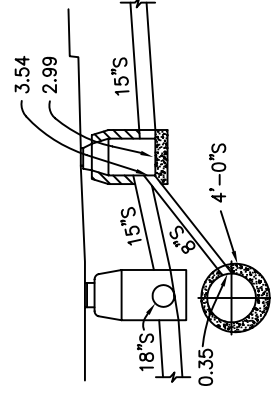
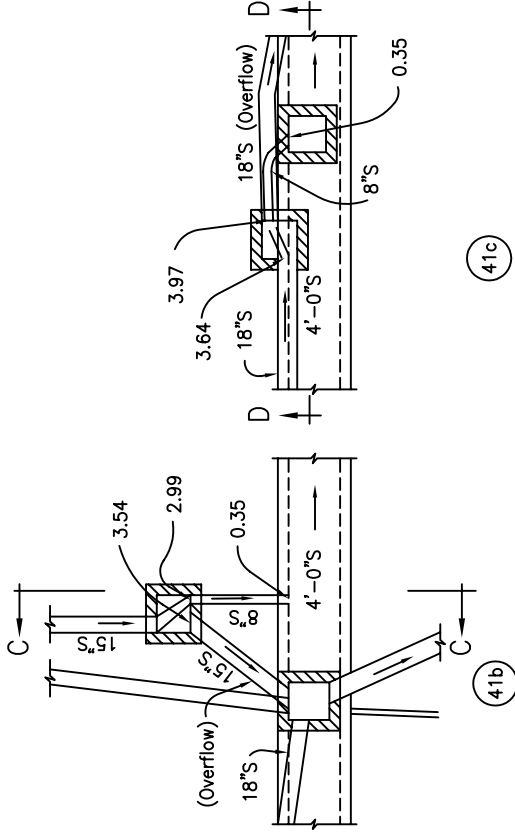
SECTION B-B

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

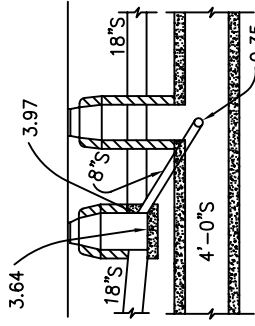
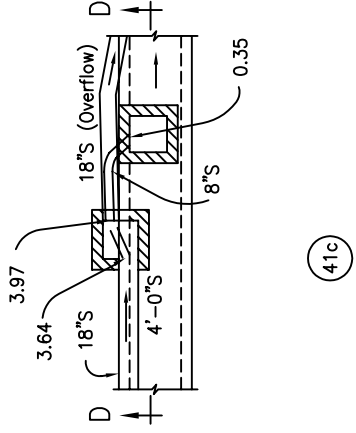
The Overflow line is 15-in. diameter.

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.



SECTION C-C



SECTION D-D



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

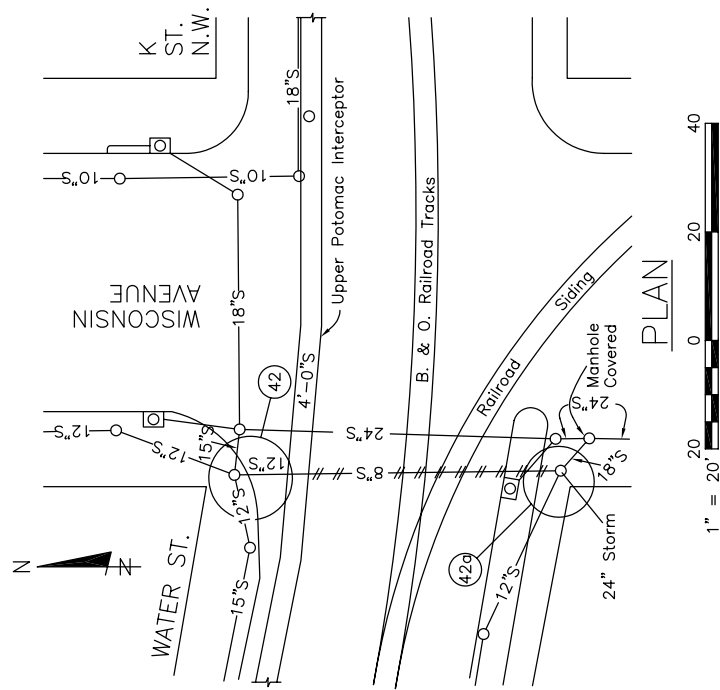
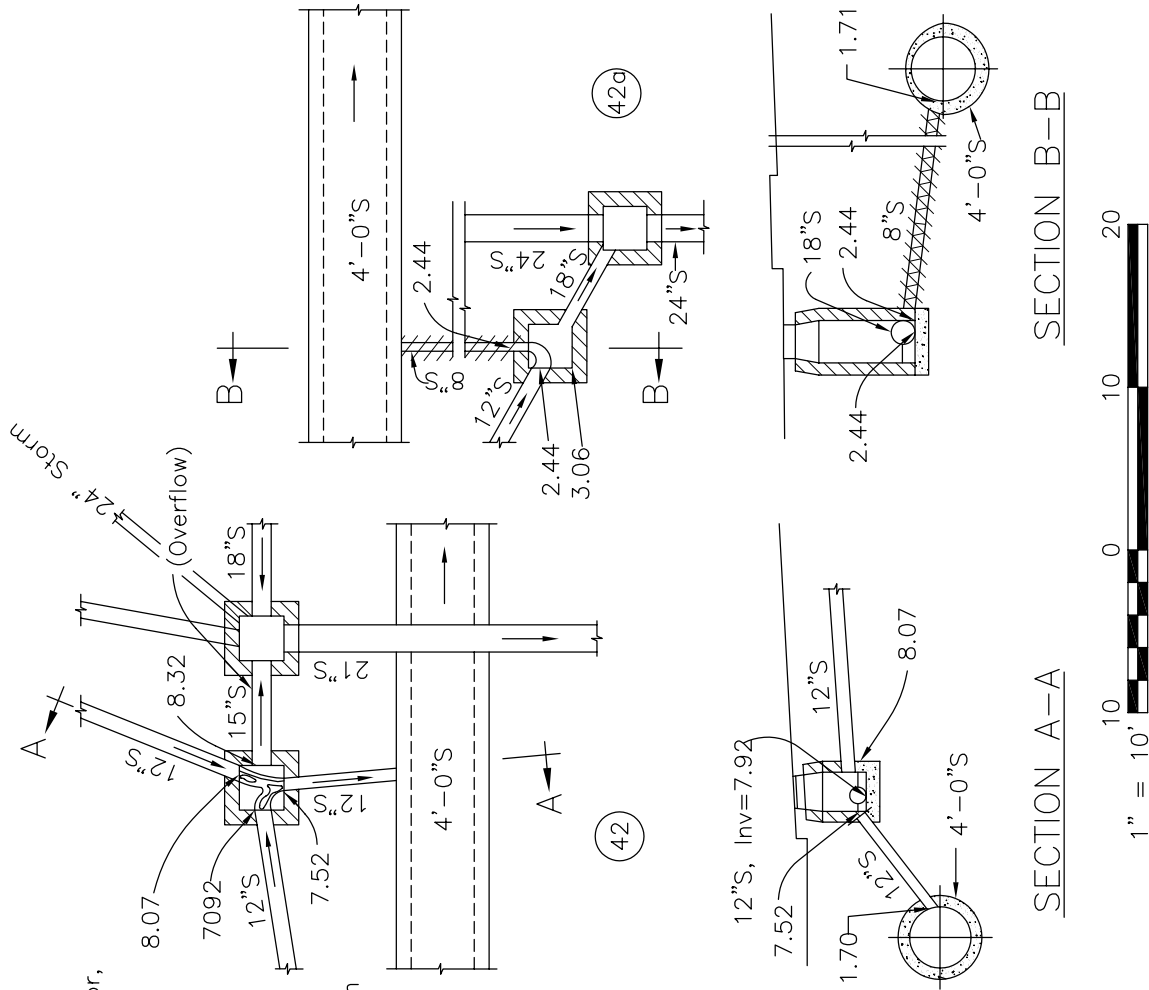
STRUCTURE NO.
 41a, 41b, 41c

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.

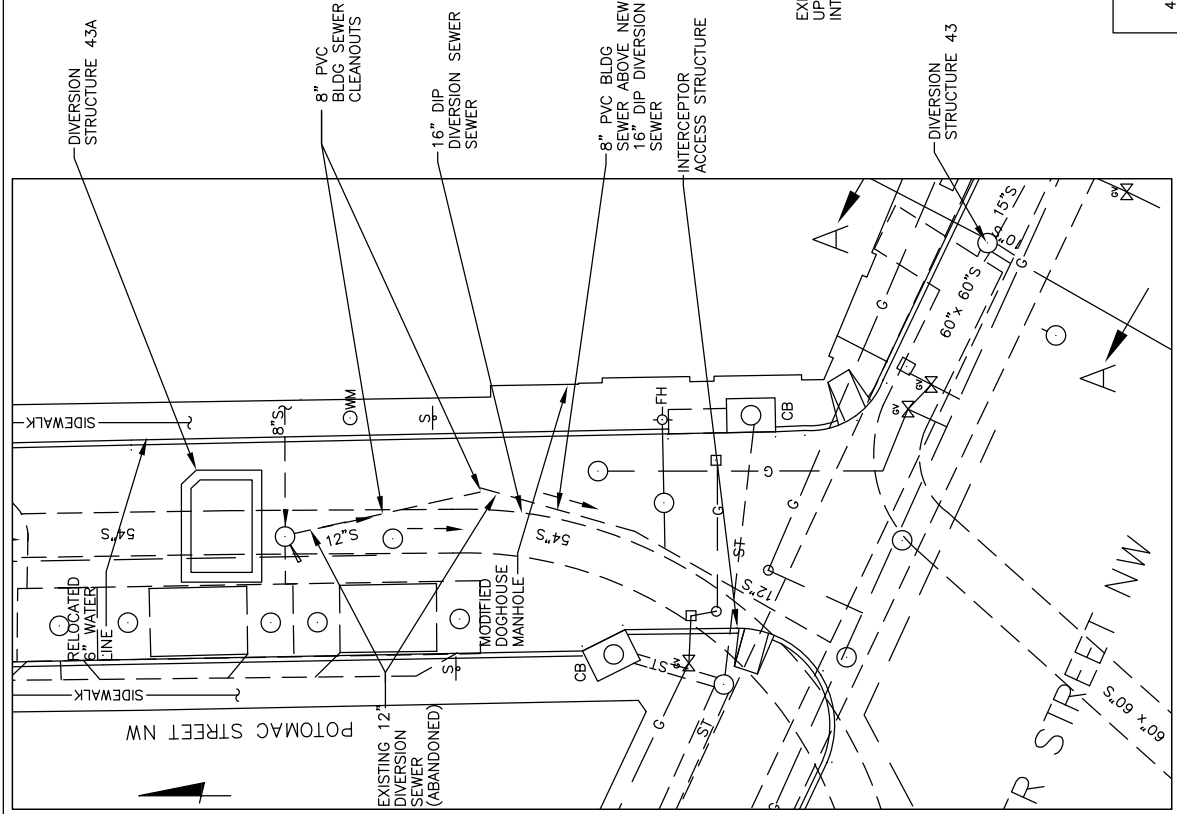
The Overflow line is 15-in. in diameter.

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



REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 026

STRUCTURE NO.
 42, 42a



STRUCTURE NO. 43A
SITE PLAN
1"=20'

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

STRUCTURE NO.
43 & 43a

POTOMAC STREET NW AND WATER STREET NW
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.

STRUCTURE NO. 43

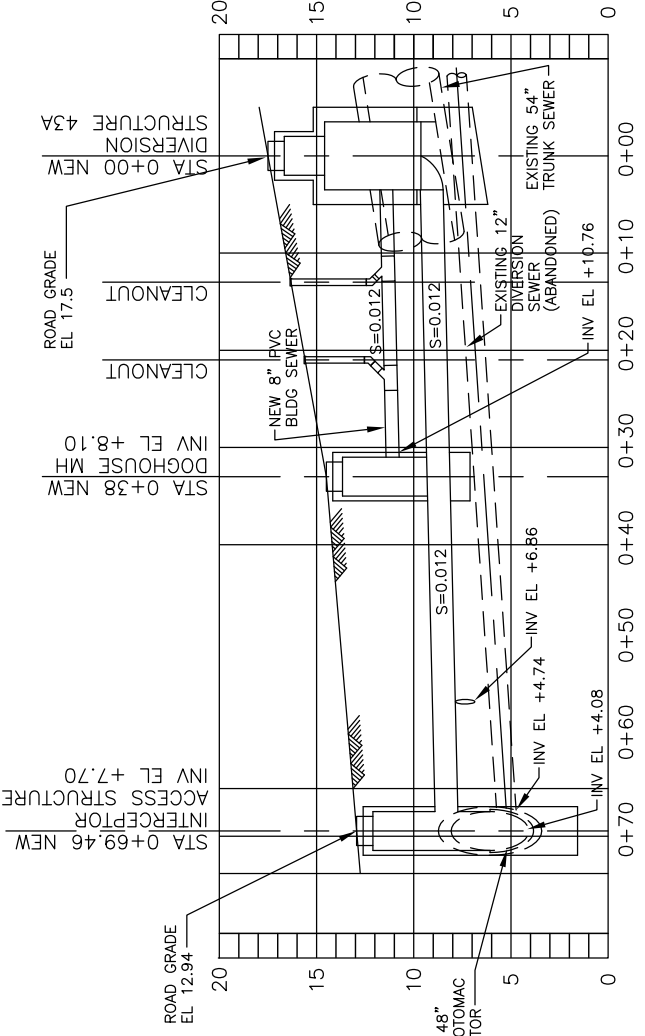
A 15-inch Combined Sewer enters the Overflow Manhole, and there is an 10-inch
intercepting connection.

The Overflow Line is 15-inch in diameter.

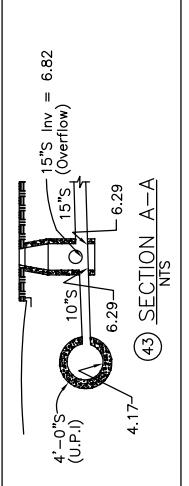
STRUCTURE NO. 43a

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.

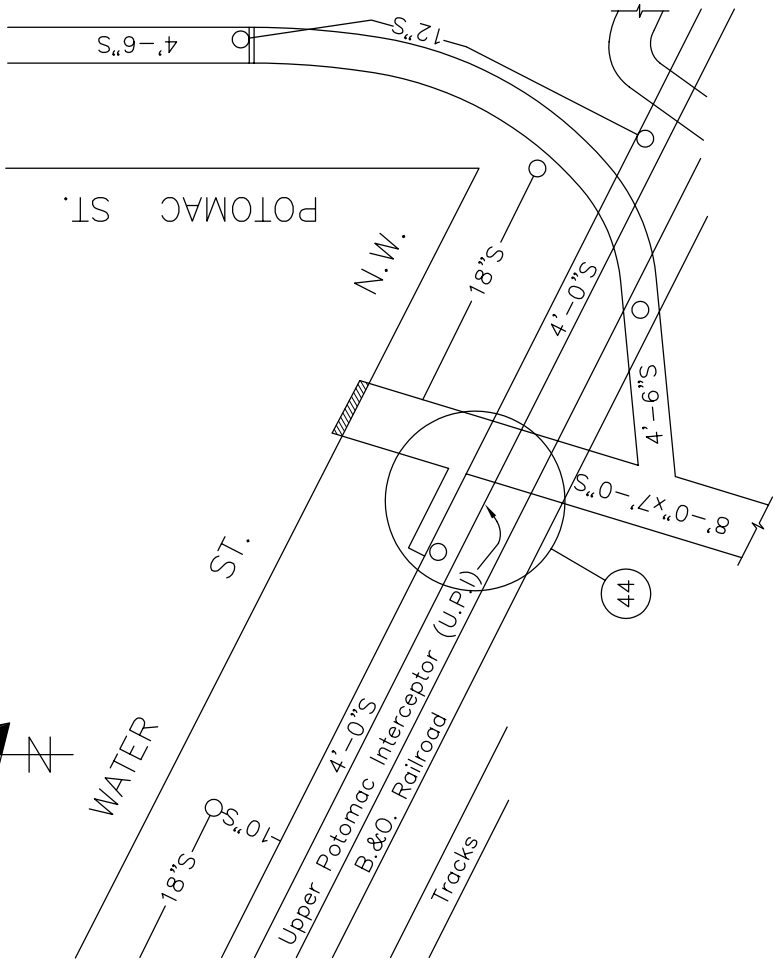


16" DIVERSION SEWER PROFILE 1C-5
SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL

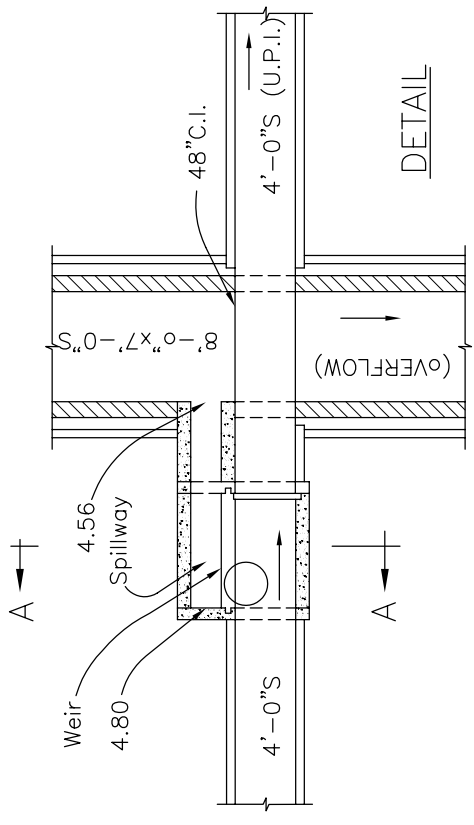


STRUCTURE NO. 43A
SECTION A-A
1"=20'

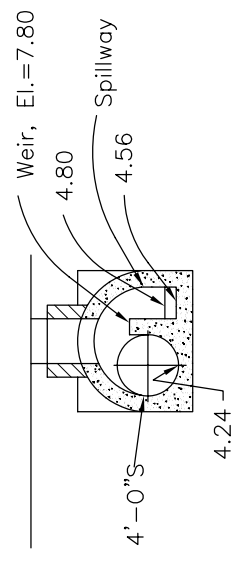
STRUCTURE NO. 44, Water Street, West of Potomac Street, N.W.
 This is a side-overflow weir-type of structure. The overflow is formed by a masonry weir in a special Overflow Chamber. The 4-ft. Upper Potomac Interceptor enters the chamber and does not overflow until the depth of flow in the interceptor 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.



PLAN



DETAIL



SECTION A-A

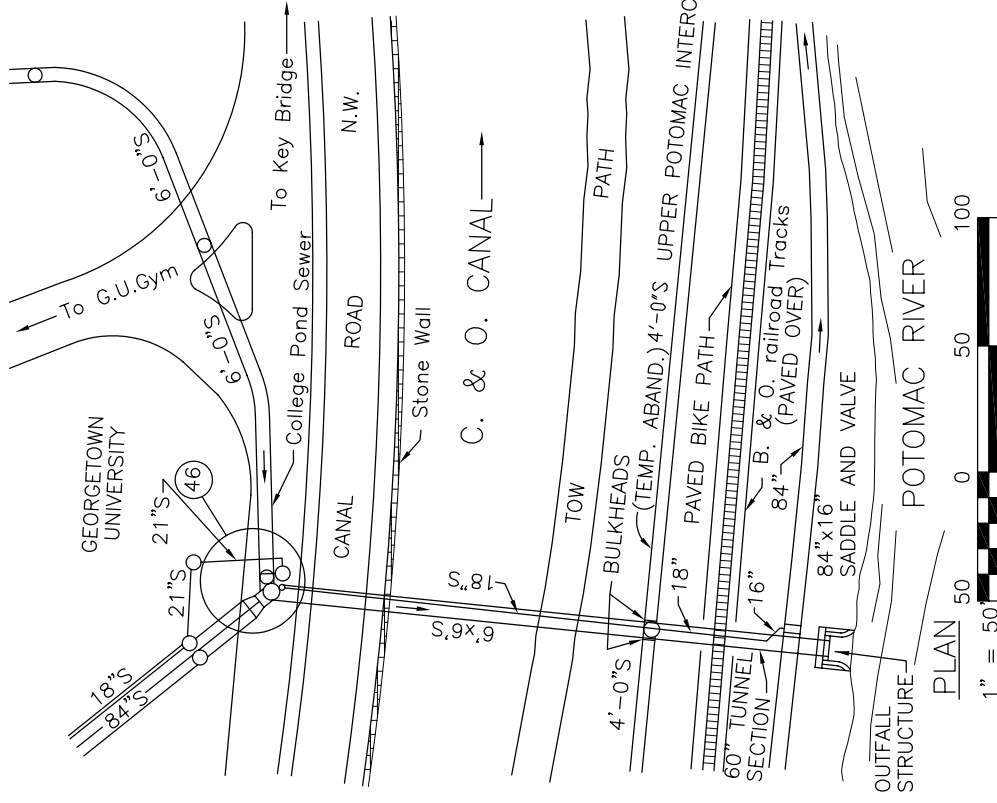


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 027

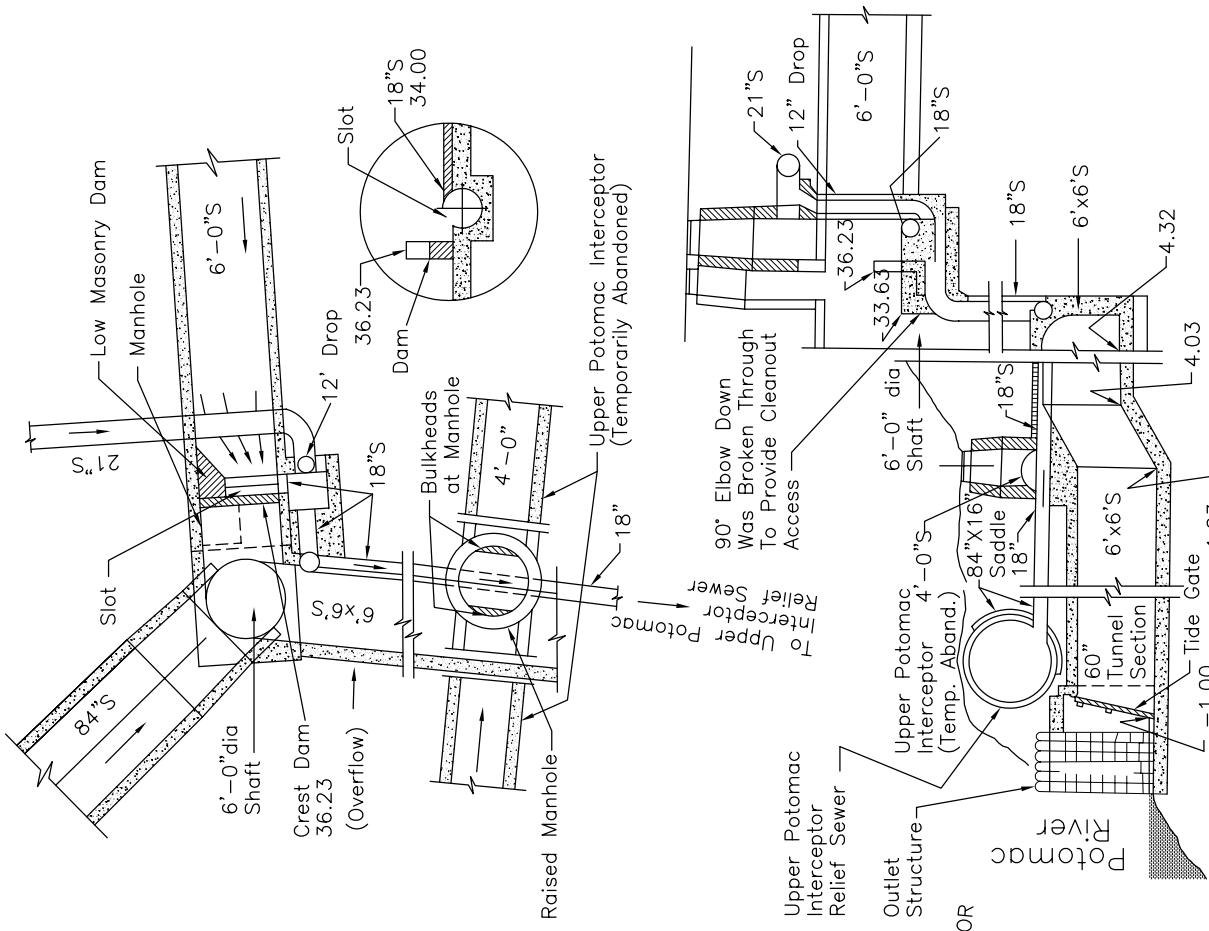
STRUCTURE NO.
 44

STRUCTURE NO. 46, College Pond Sewer, Canal Road about 1,000 ft. East of Foxhall Road, N.W. This structure has a slot-type regulator. The Storm Overflow is formed by a depressed slot and a masonry dam. A 6-ft. Combined Sewer enters the Diversion Chamber, and there is a slot in the invert which collects the Dry-Weather Flow into a sump-like structure, and the flow is then conveyed through an 18-in. intercepting connection to the Upper Potomac Interceptor Relief Sewer. The Upper Potomac Interceptor is temporarily abandoned. The 6-ft. by 6-ft. Overflow line discharges to the Potomac River.

There is an Outlet Structure and Gate at the outlet.



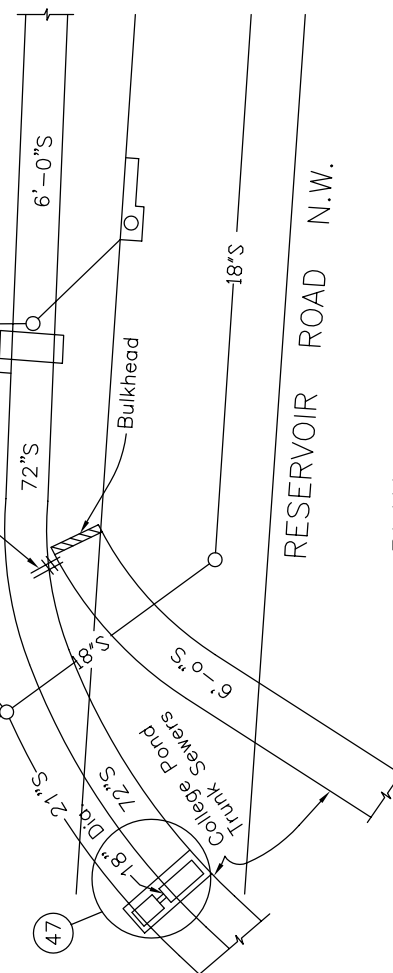
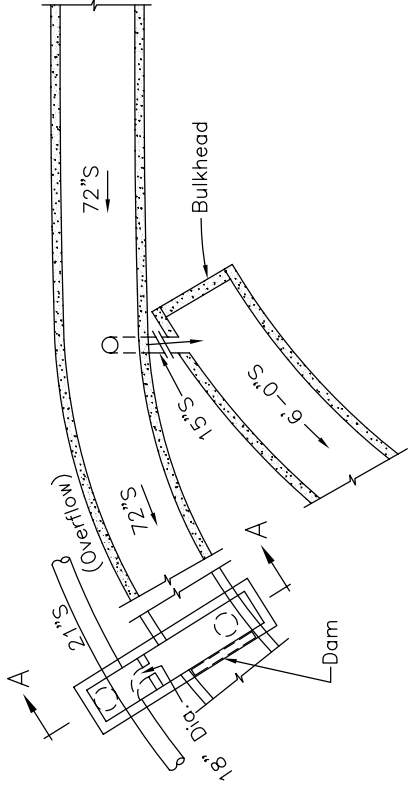
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 029



DETAIL

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.



SECTION A-A

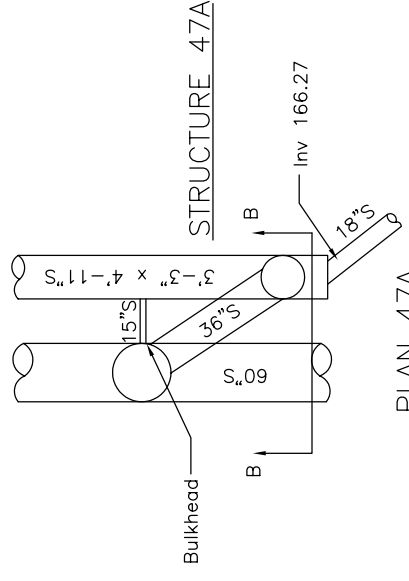


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 029

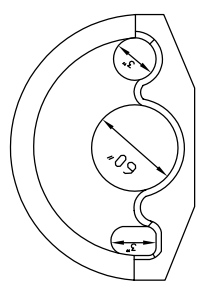
STRUCTURE NO.
 47

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.

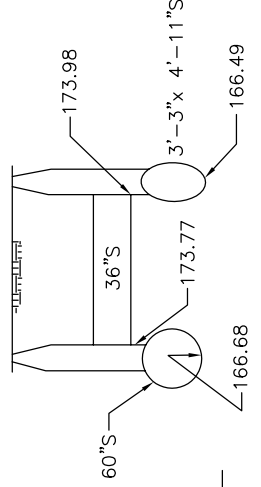
STRUCTURE NO. 47B
 Is a Junction Chamber which joins the 60-inch Storm Sewer with the 2'x 3' Combined (abandoned) 3' Storm Sewers and discharges as a 72-inch Sewer. Normal Dry Weather Flow in the 2'x 3' Combined Sewer into the 12-inch Sanitary Sewer.



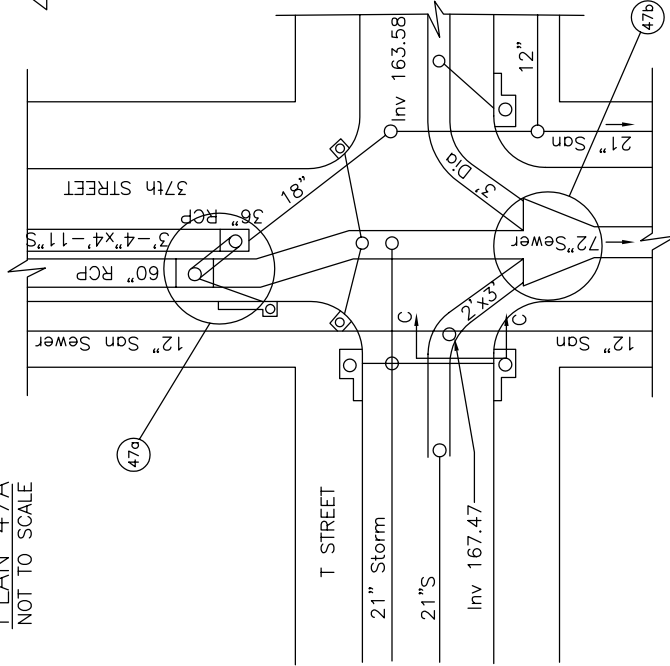
STRUCTURE 47A
 NOT TO SCALE



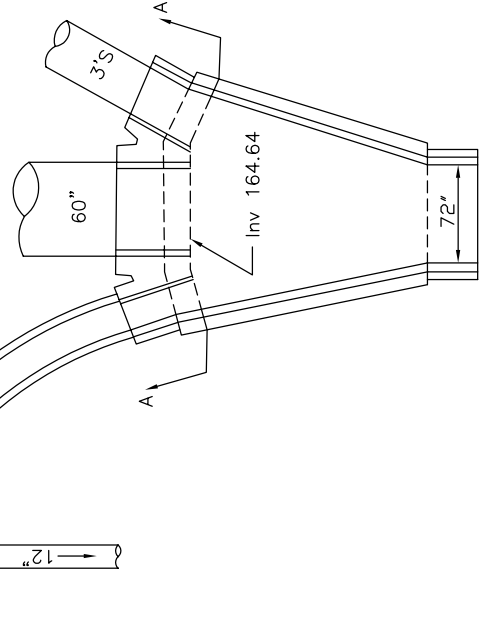
SECTION A-A-47B
 NOT TO SCALE



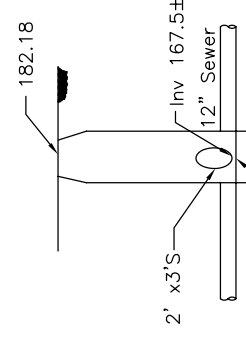
SECTION B-B-47A
 NOT TO SCALE



PLAN 47A AND 47B
 NOT TO SCALE



STRUCTURE 47B
 NOT TO SCALE

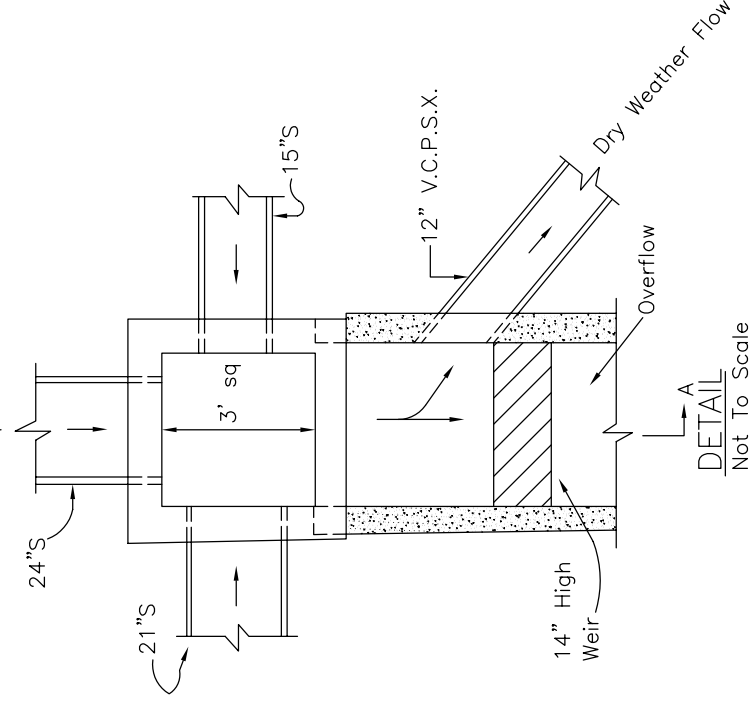
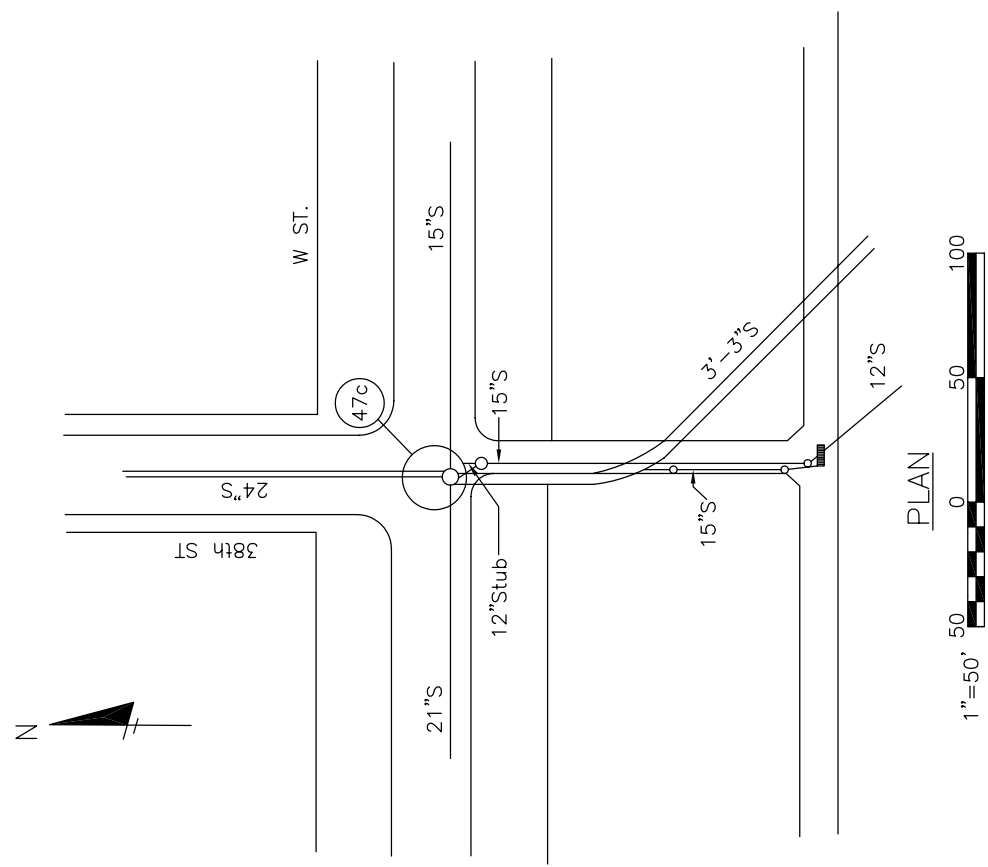


SECTION C-C
 NOT TO SCALE

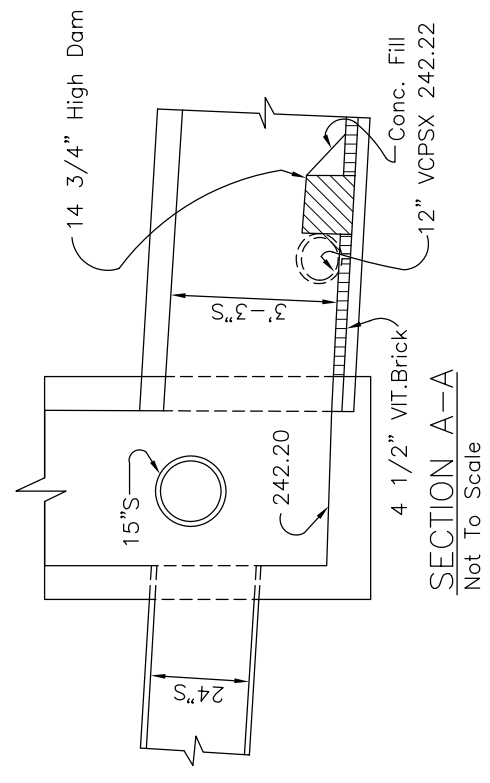
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 029

STRUCTURE NO.
 47a, 47b

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)



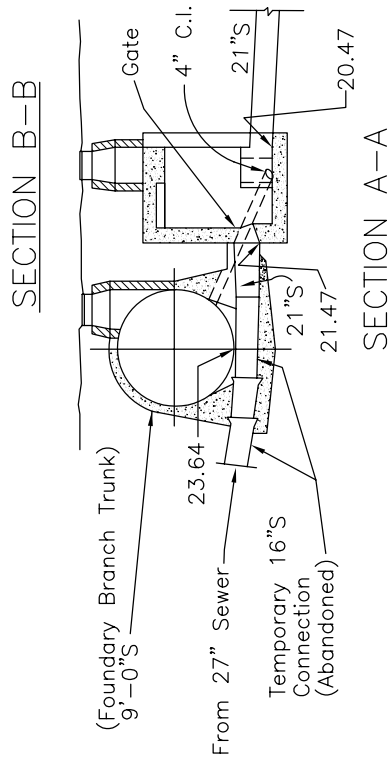
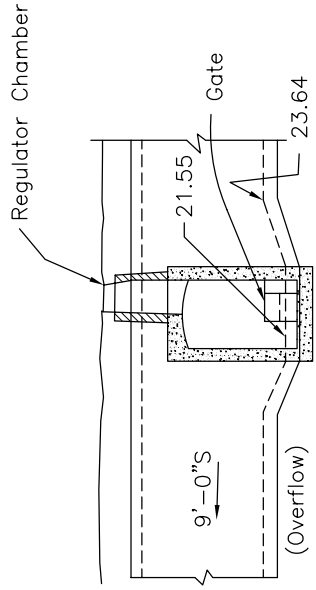
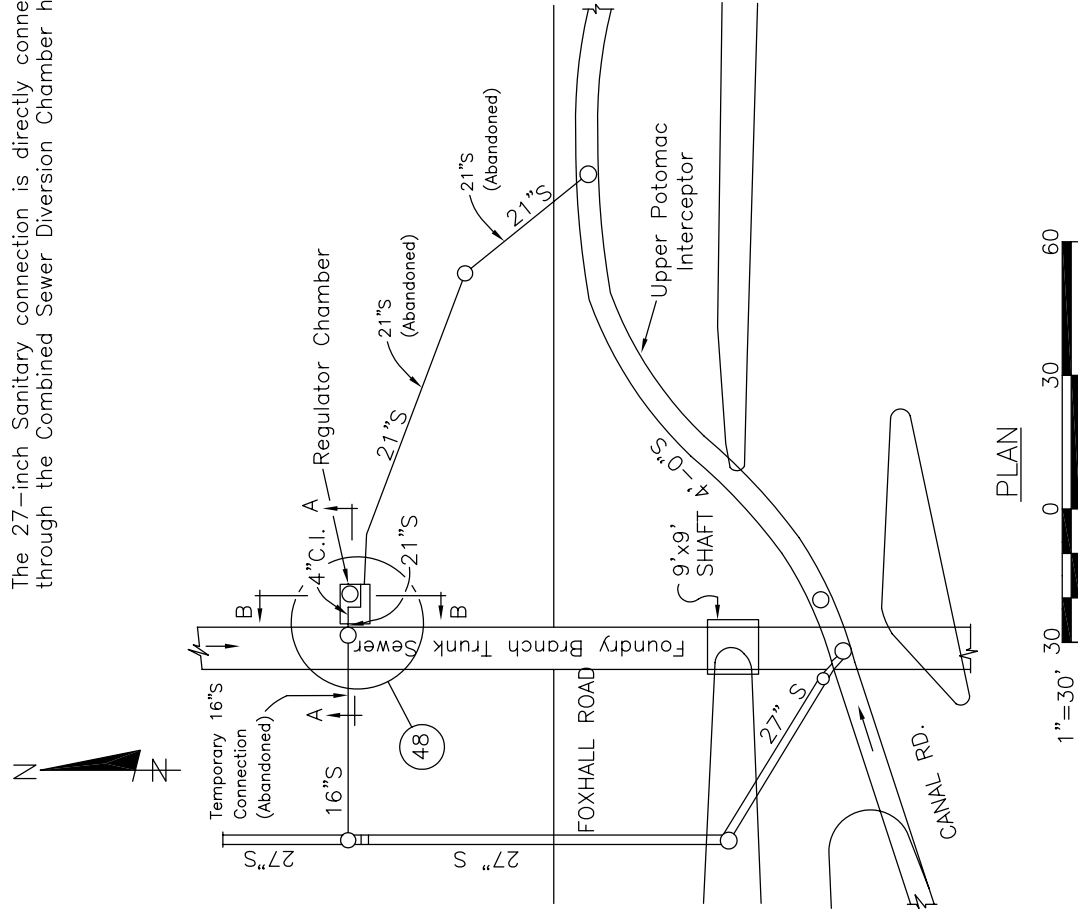
DETAIL A
Not To Scale



STRUCTURE NO.
47c

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

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



DETAIL

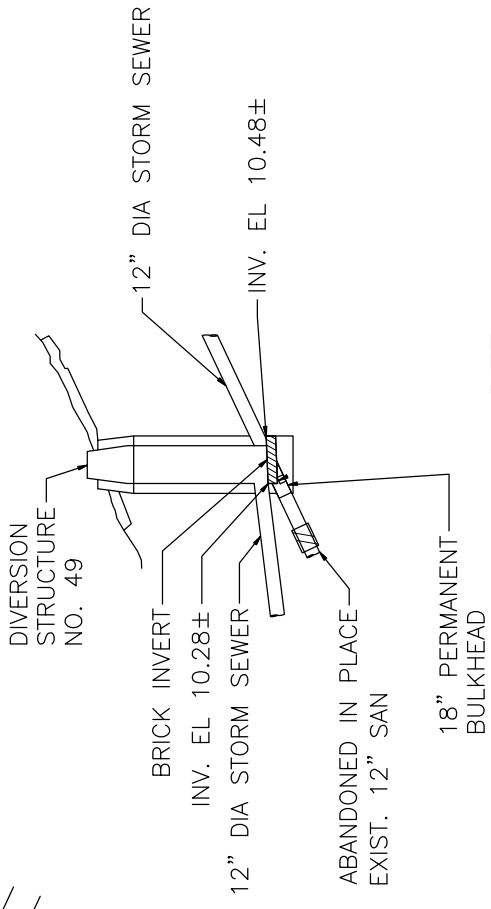
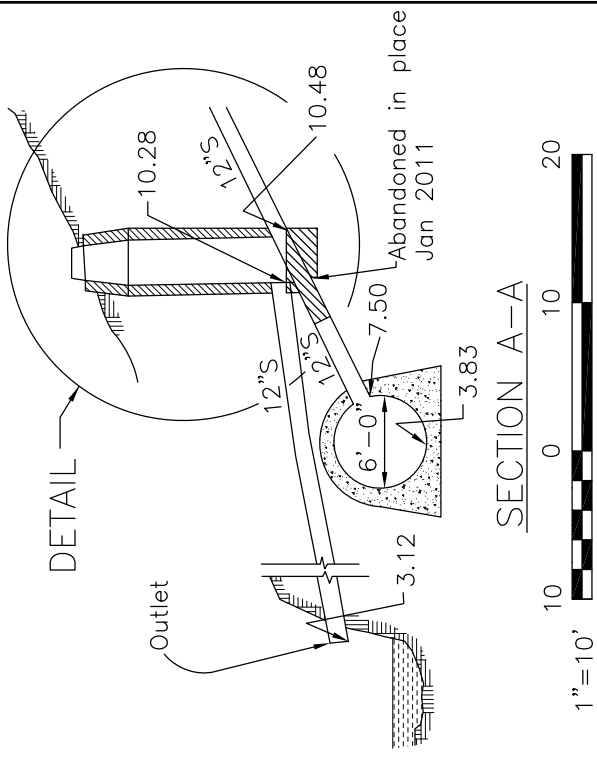
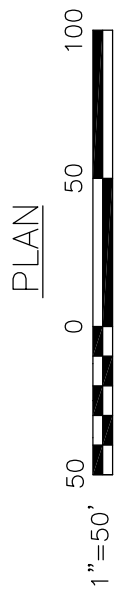
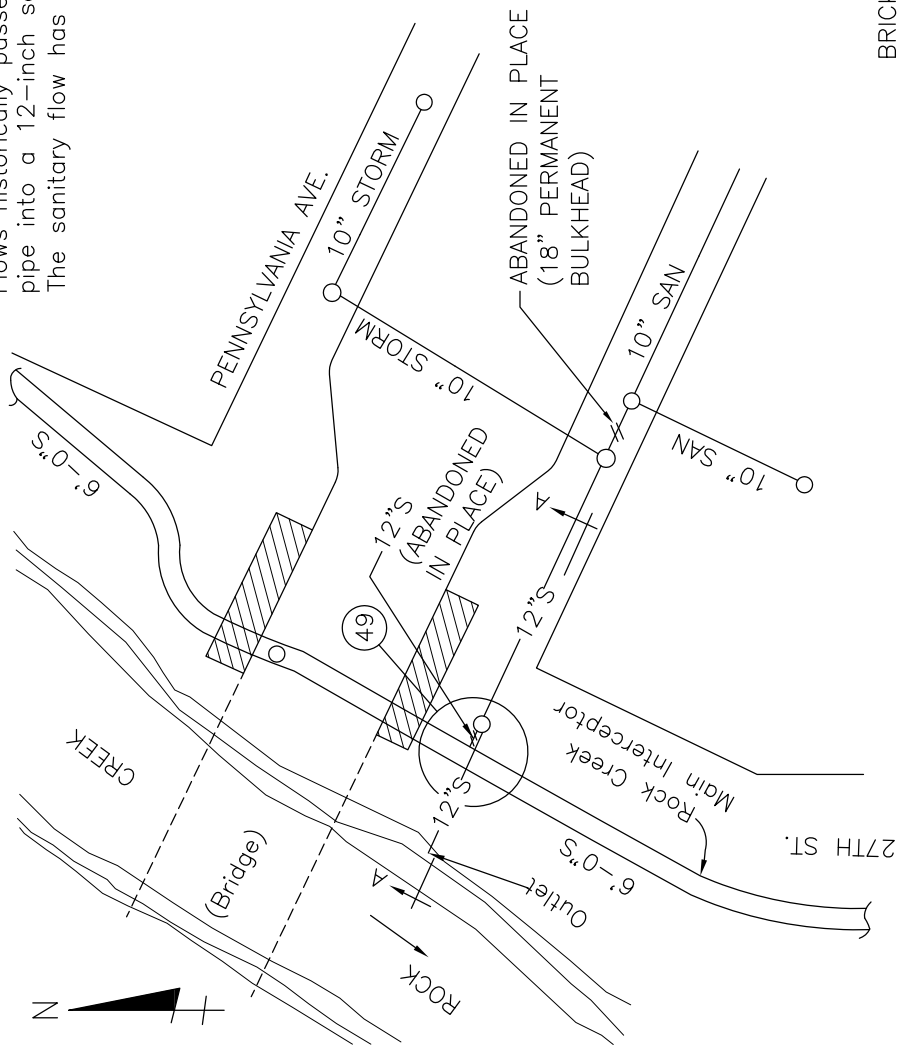


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # N/A

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 reaching structure #49.

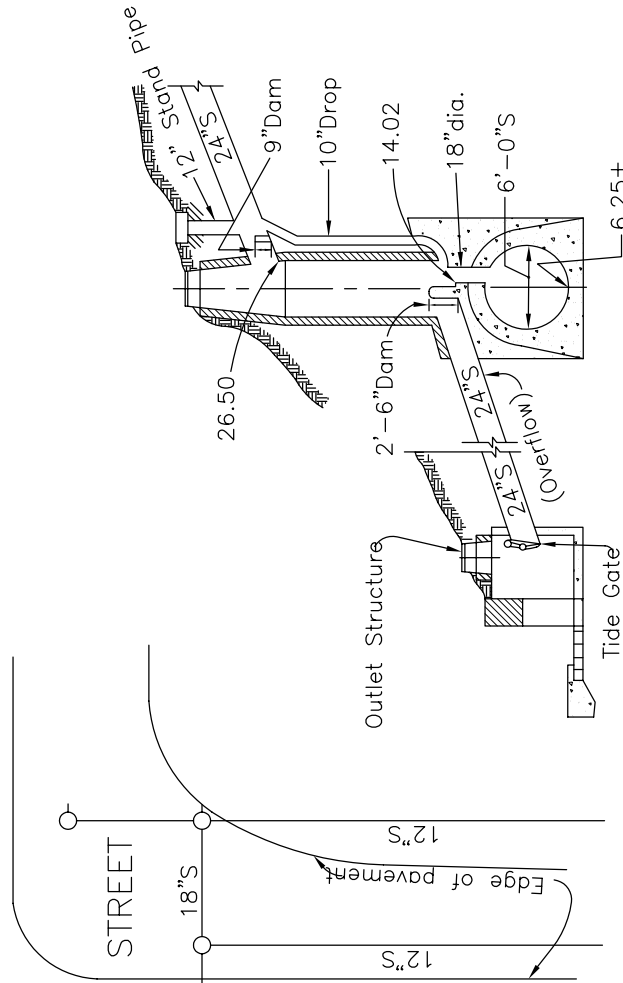
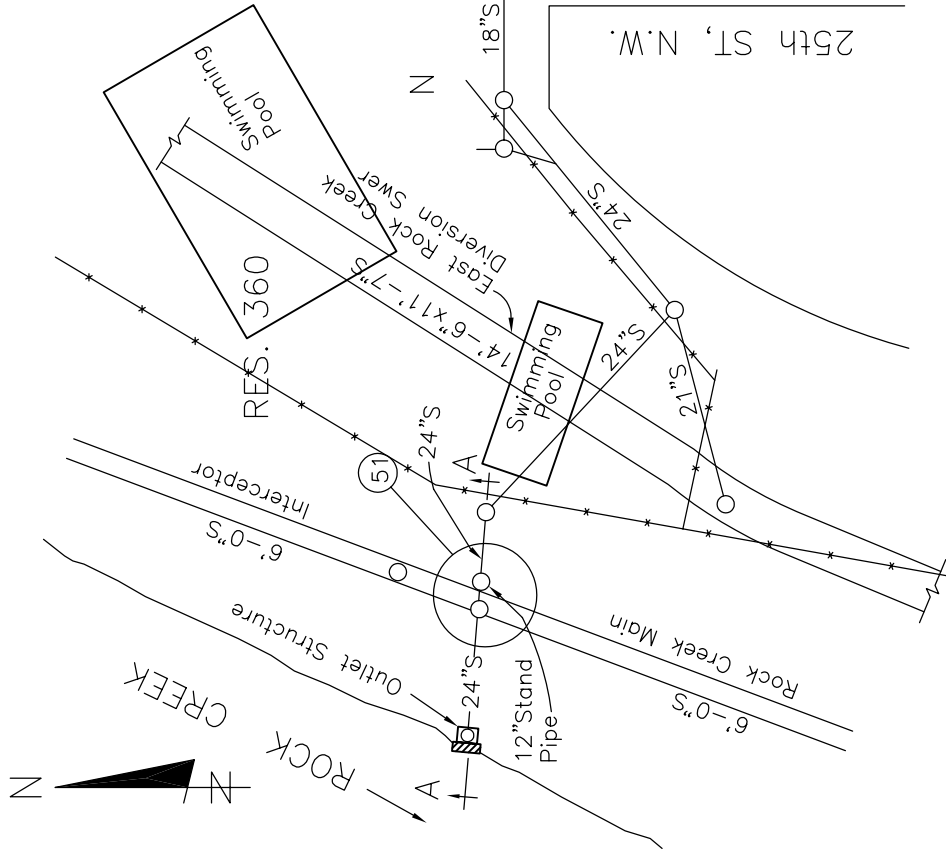


DETAIL
(CSO 031 – DIVERSION STRUCTURE MODIFICATIONS)

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

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.



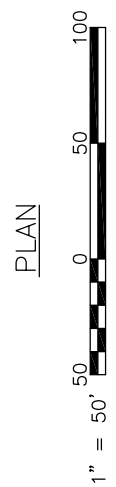
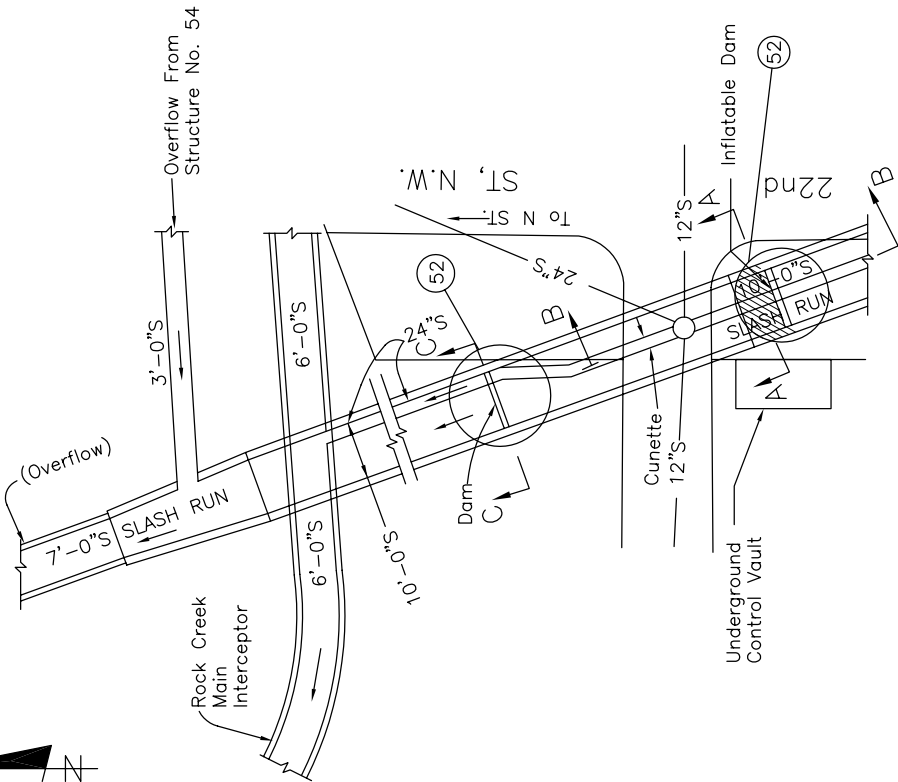
SECTION A-A



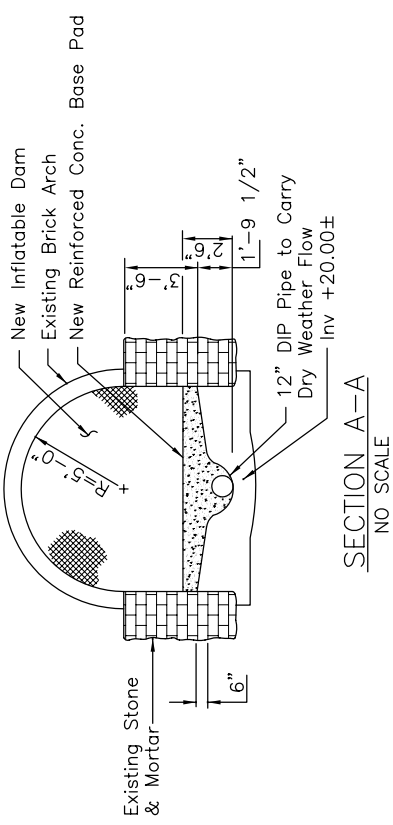
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 033

STRUCTURE NO.
 51

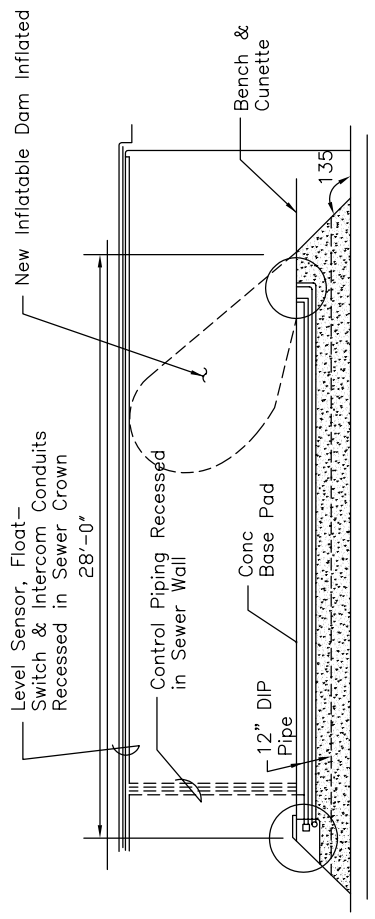
STRUCTURE NO. 52 - Slash Run Trunk Sewer, Northwest of 22nd and M Streets N.W. This sewer serves as a Storm Overflow for Combined Sewage Flow from Structures No. 53 and No. 53a. There is a masonry dam on which is constructed an inflatable dam in the 10 ft. Slash Run Sewer. A 12-inch pipe is cast in the 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.



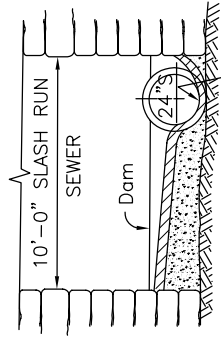
PLAN



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

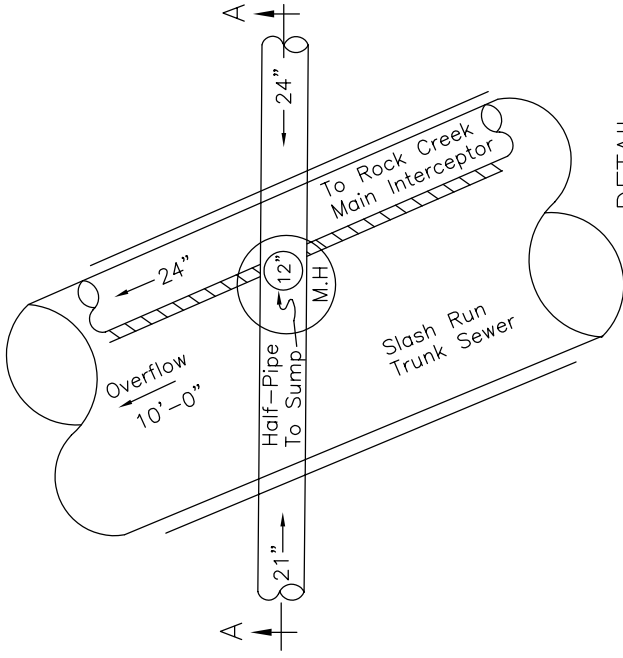
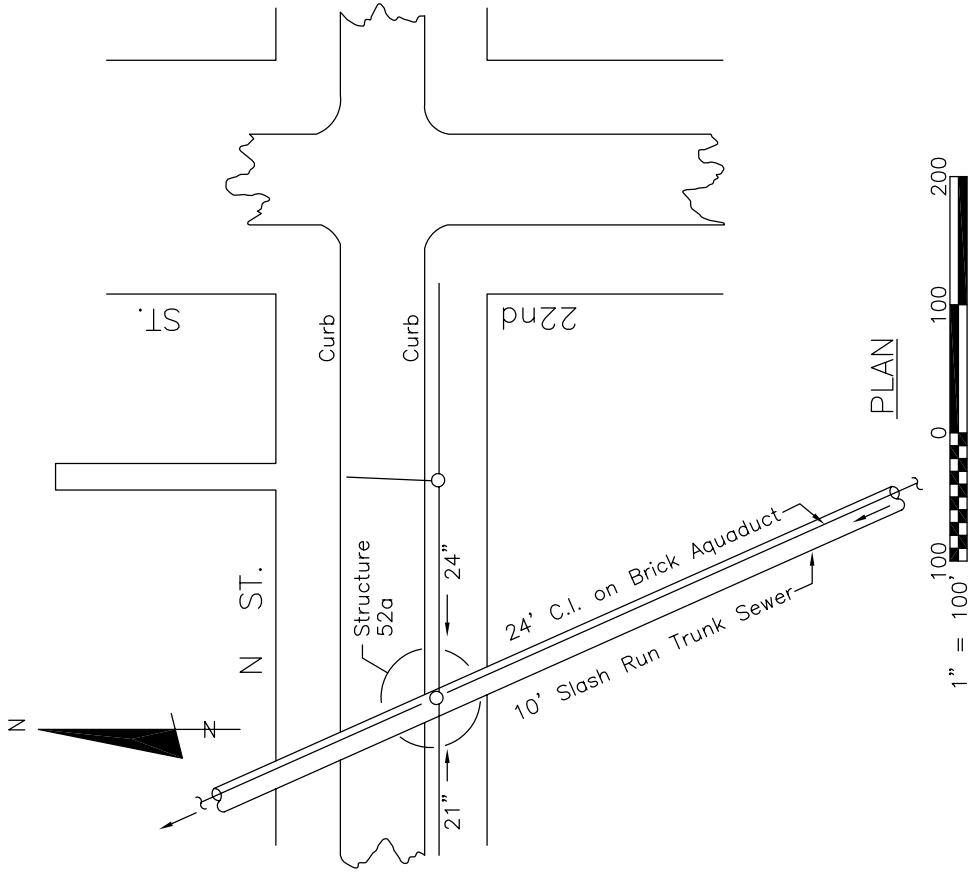


SECTION C-C
NO SCALE

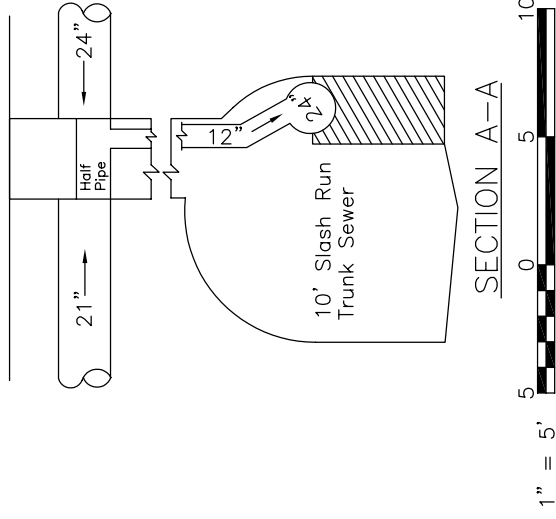
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 034

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.



DETAIL

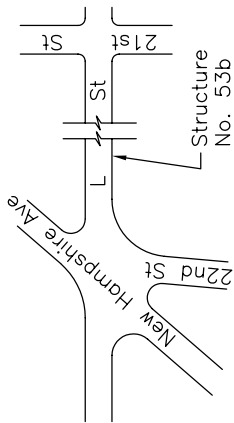


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 034

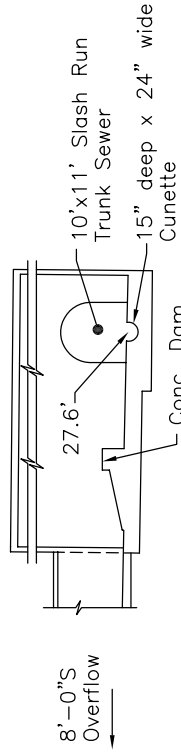
STRUCTURE NO.
 52a

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 cunnette 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.

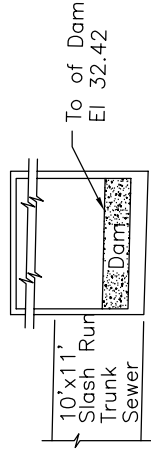
Overflows spill over a masonry weir and continue westerly in an 8' diameter sewer, ultimately to the Potomac River.



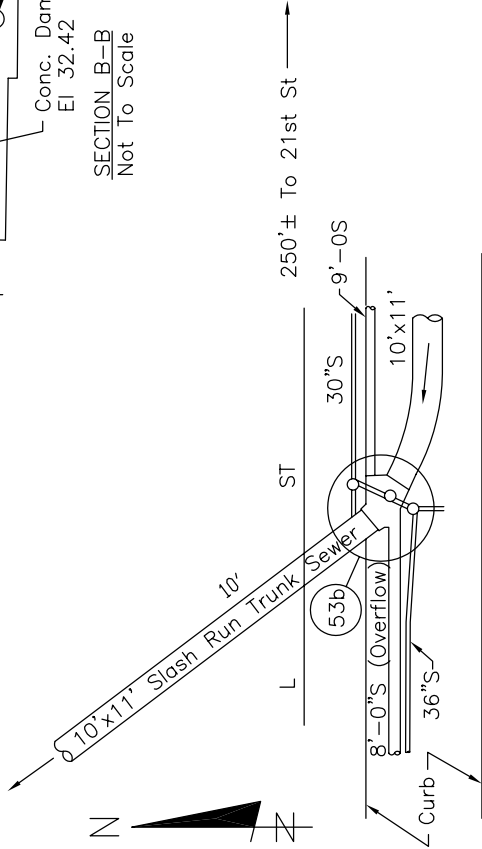
LOCATION PLAN



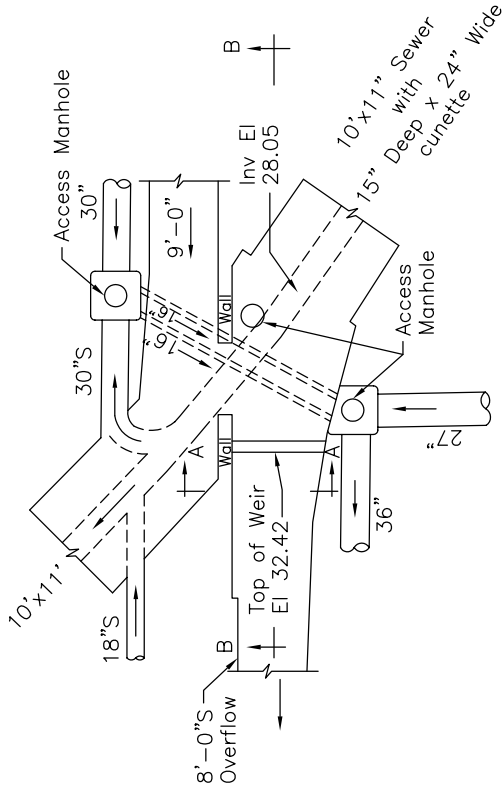
SECTION B-B
Not To Scale



SECTION A-A
Not To Scale



PLAN

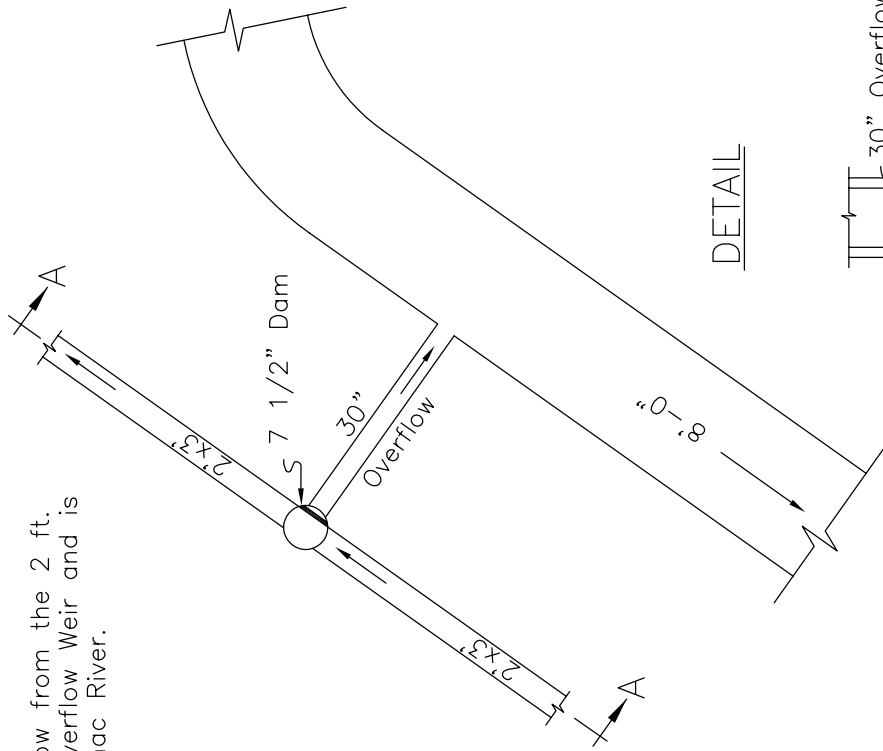
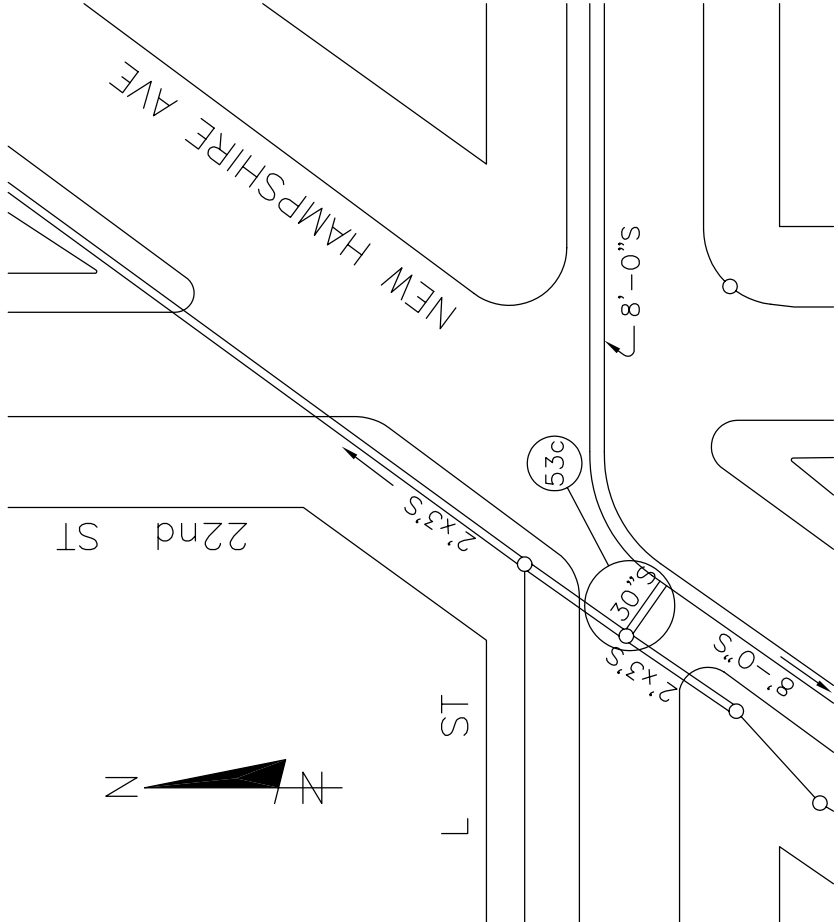


DETAIL
Not To Scale

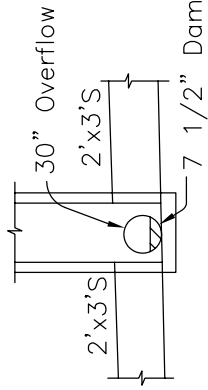
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 022, 034

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.



DETAIL



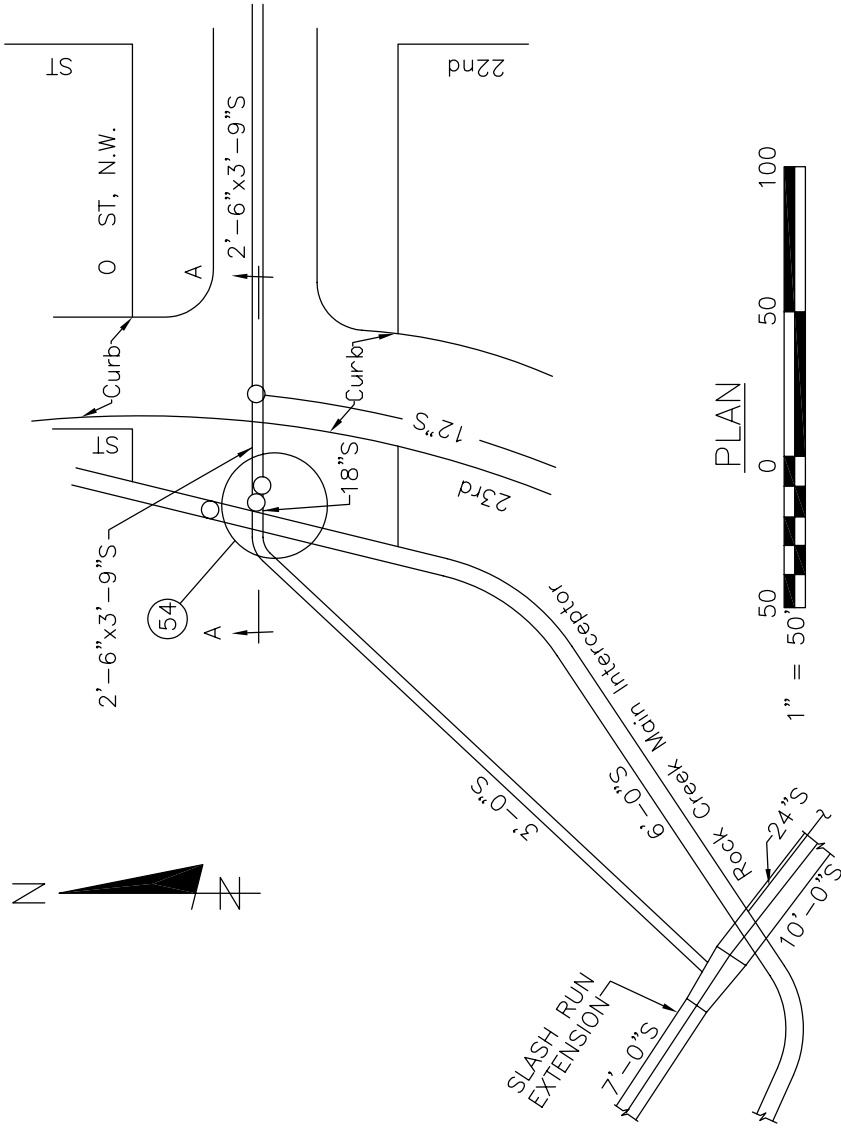
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO.
53c

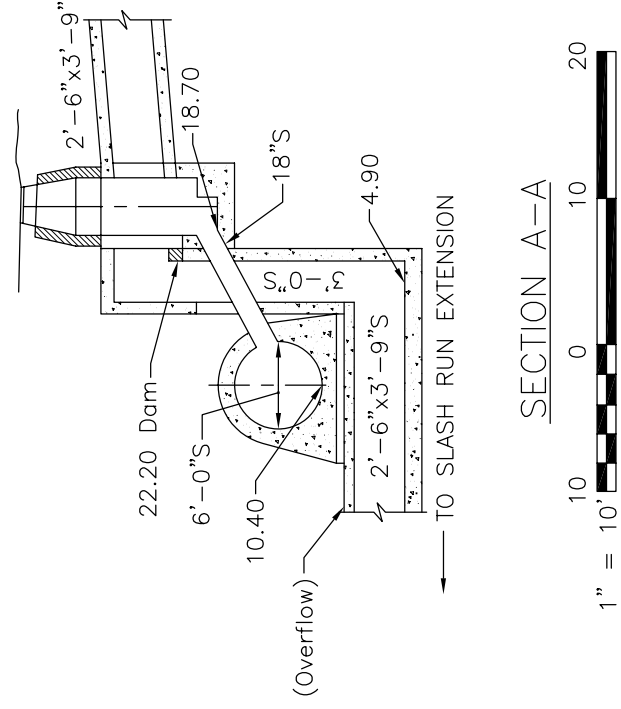
STRUCTURE NO. 54. O Street, West of 23rd Street, N.W.

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.



PLAN



SECTION A-A



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

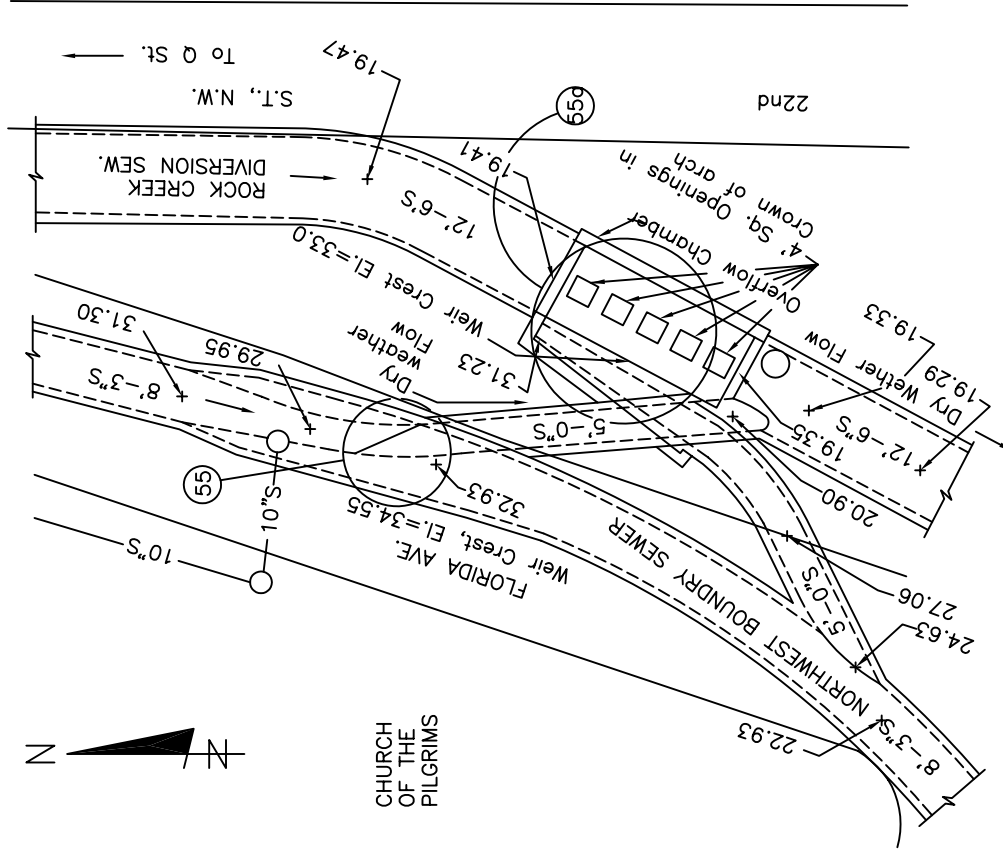
STRUCTURE NO.
 54

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

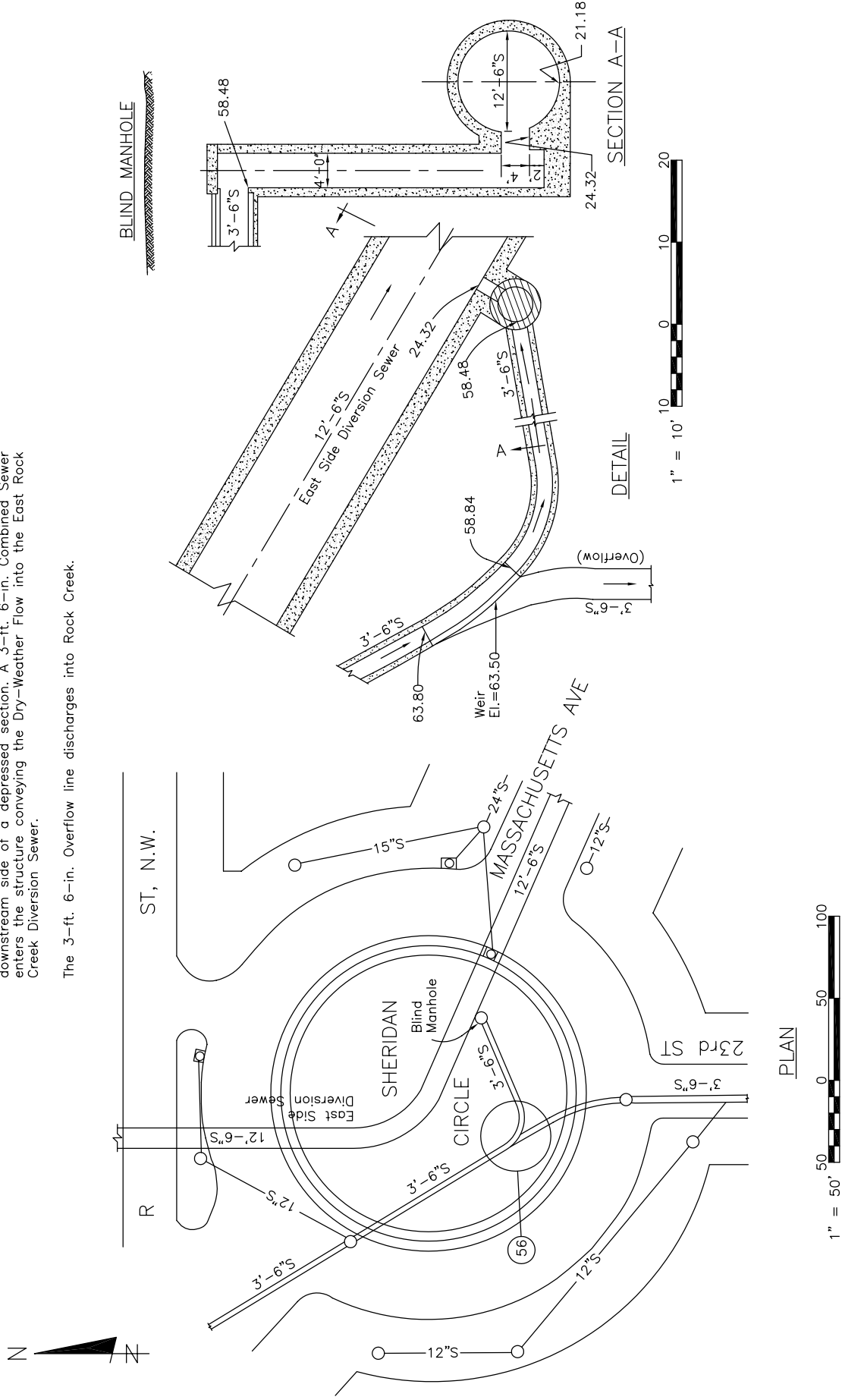


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 035

STRUCTURE NO.
 55, 55a

STRUCTURE NO. 56, Sheridan Circle, 23rd Street and Massachusetts Avenue, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a continuation of the invert of the downstream side of a depressed section. A 3-ft. 6-in. Combined Sewer enters the structure conveying the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

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

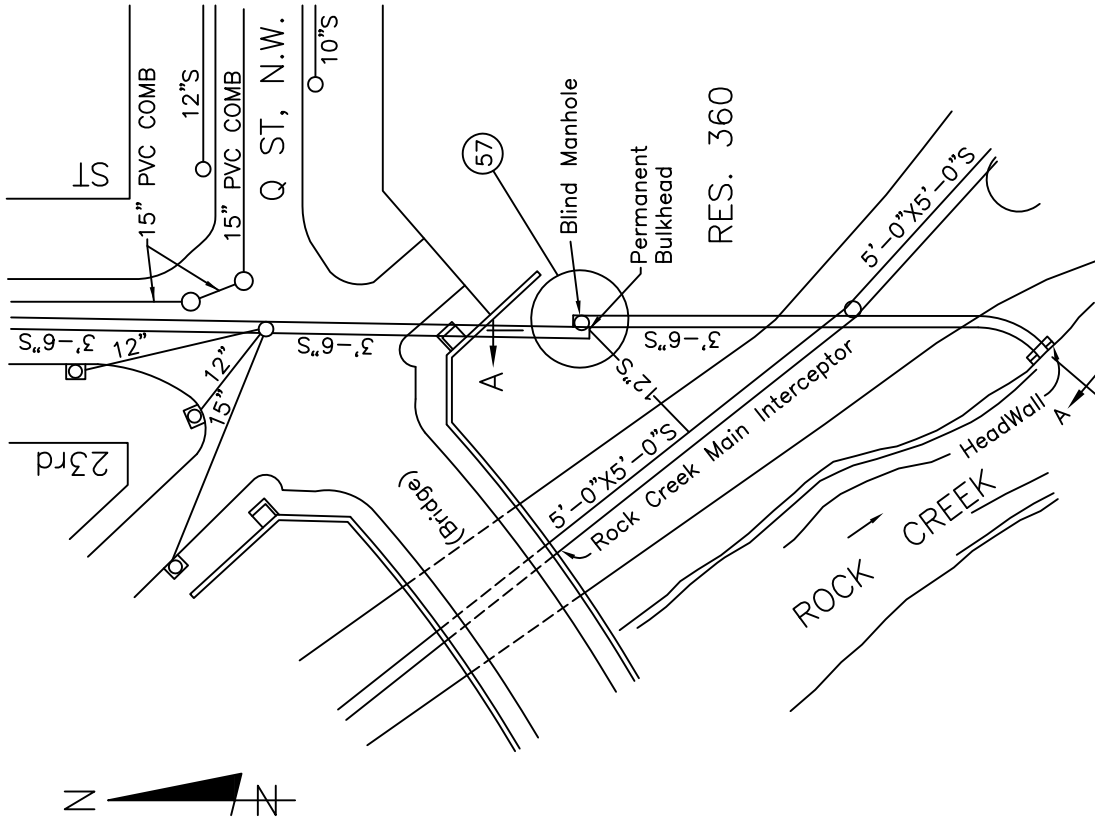


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 036

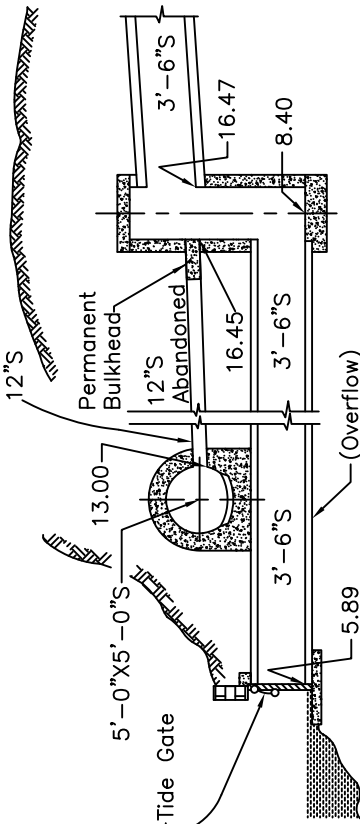
STRUCTURE NO.
 56

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.



PLAN



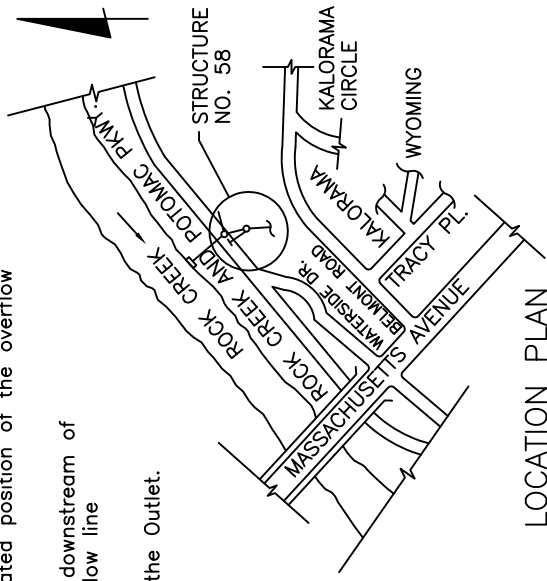
SECTION A-A

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

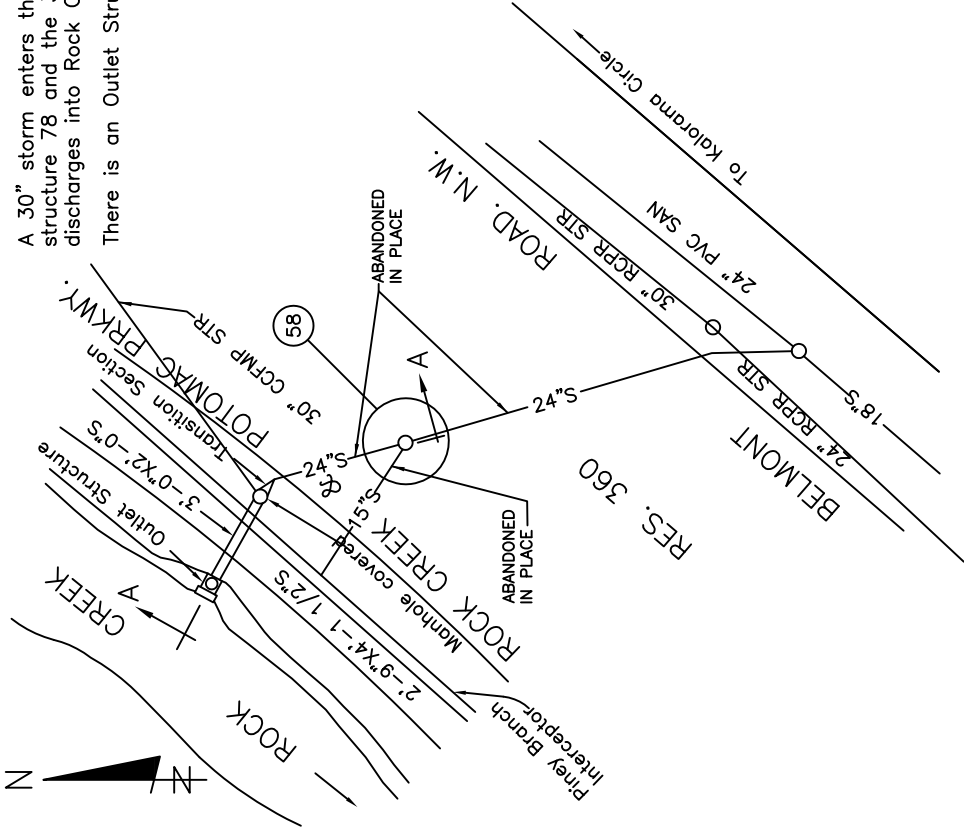
STRUCTURE NO. 58, Northwest of Belmont Road and Rock Creek Potomac Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the overflow pipe.

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

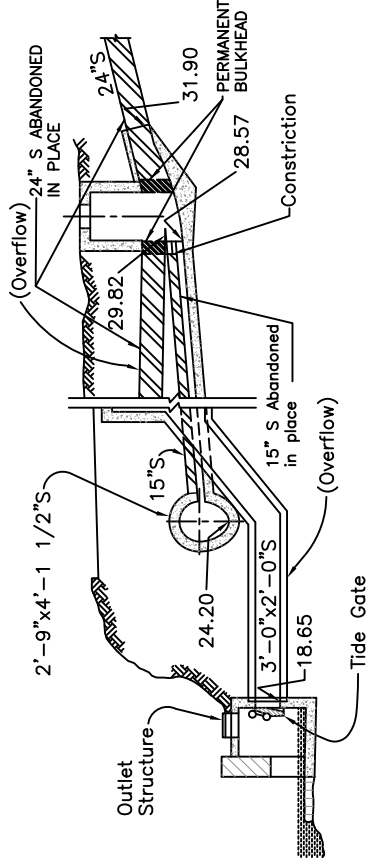
There is an Outlet Structure and Gate at the Outlet.



LOCATION PLAN
NOT TO SCALE



PLAN



SECTION A-A



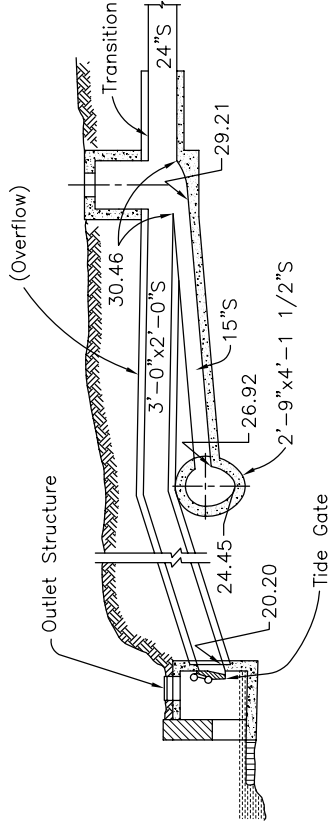
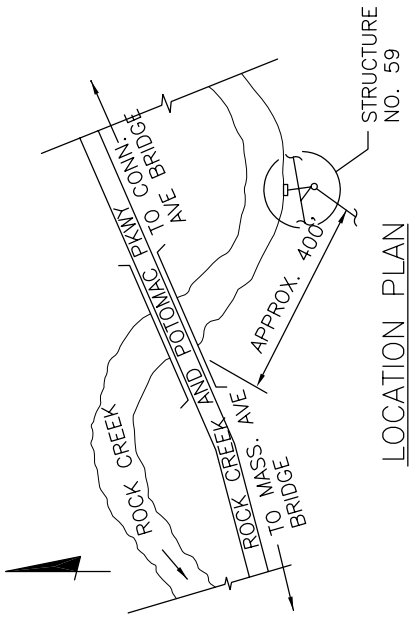
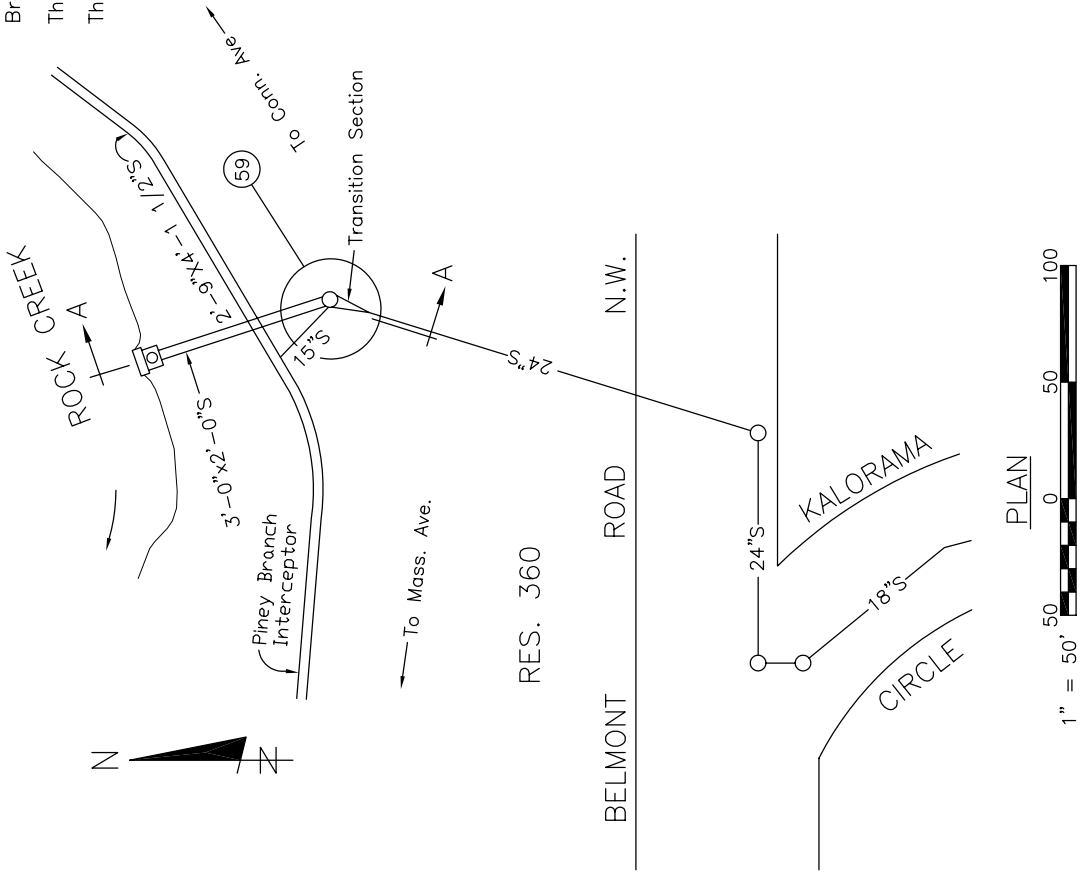
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: FEBRUARY 2012
 ASSOCIATED NPDES OUTFALL # 037

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.



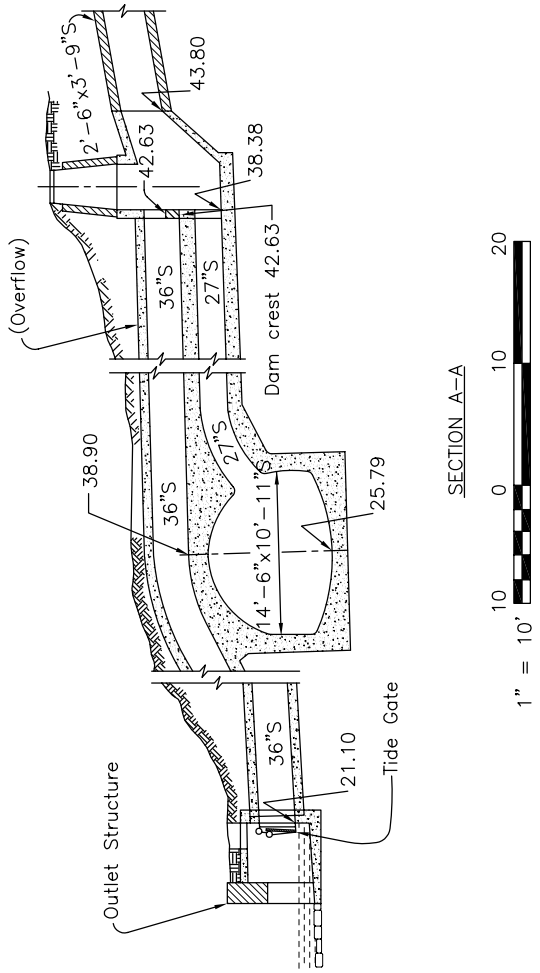
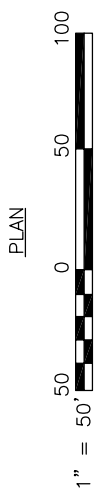
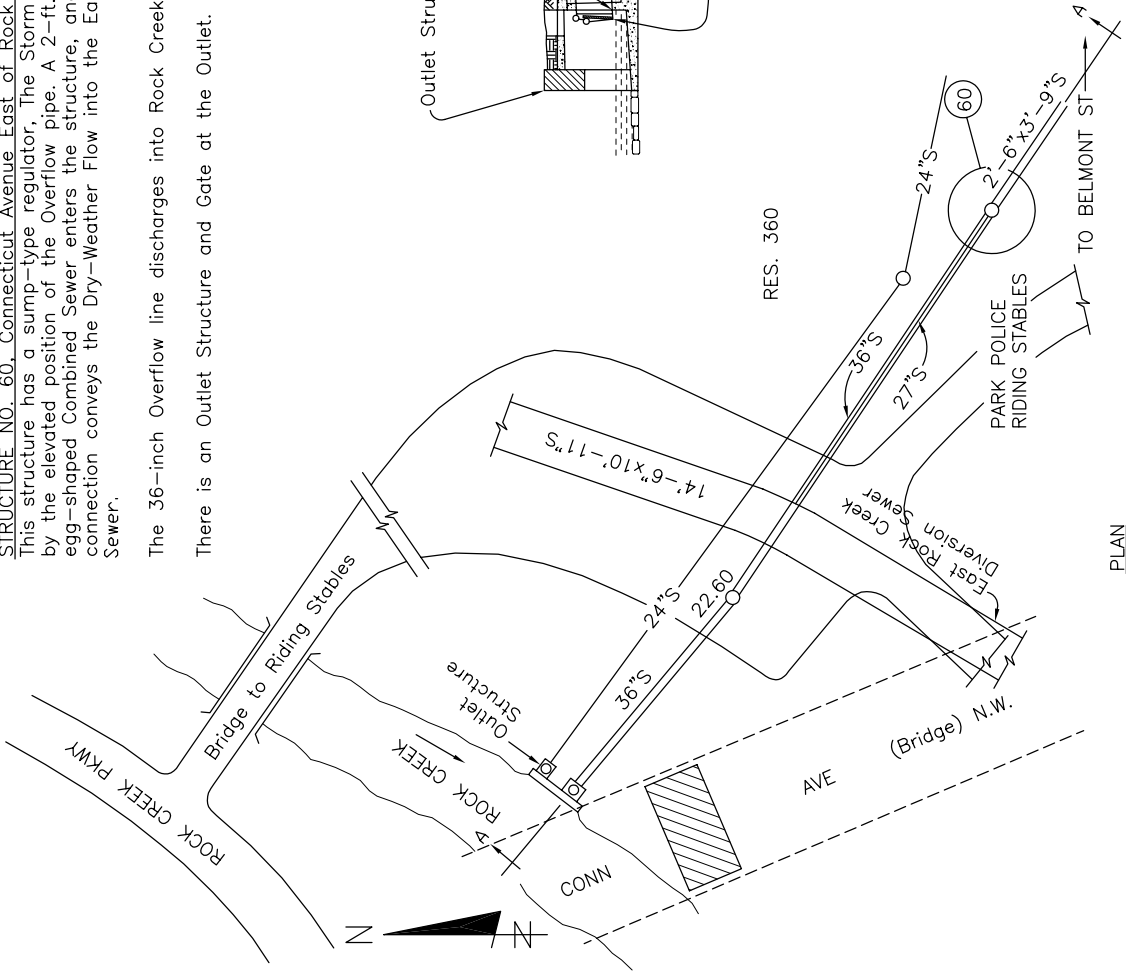
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 038

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.

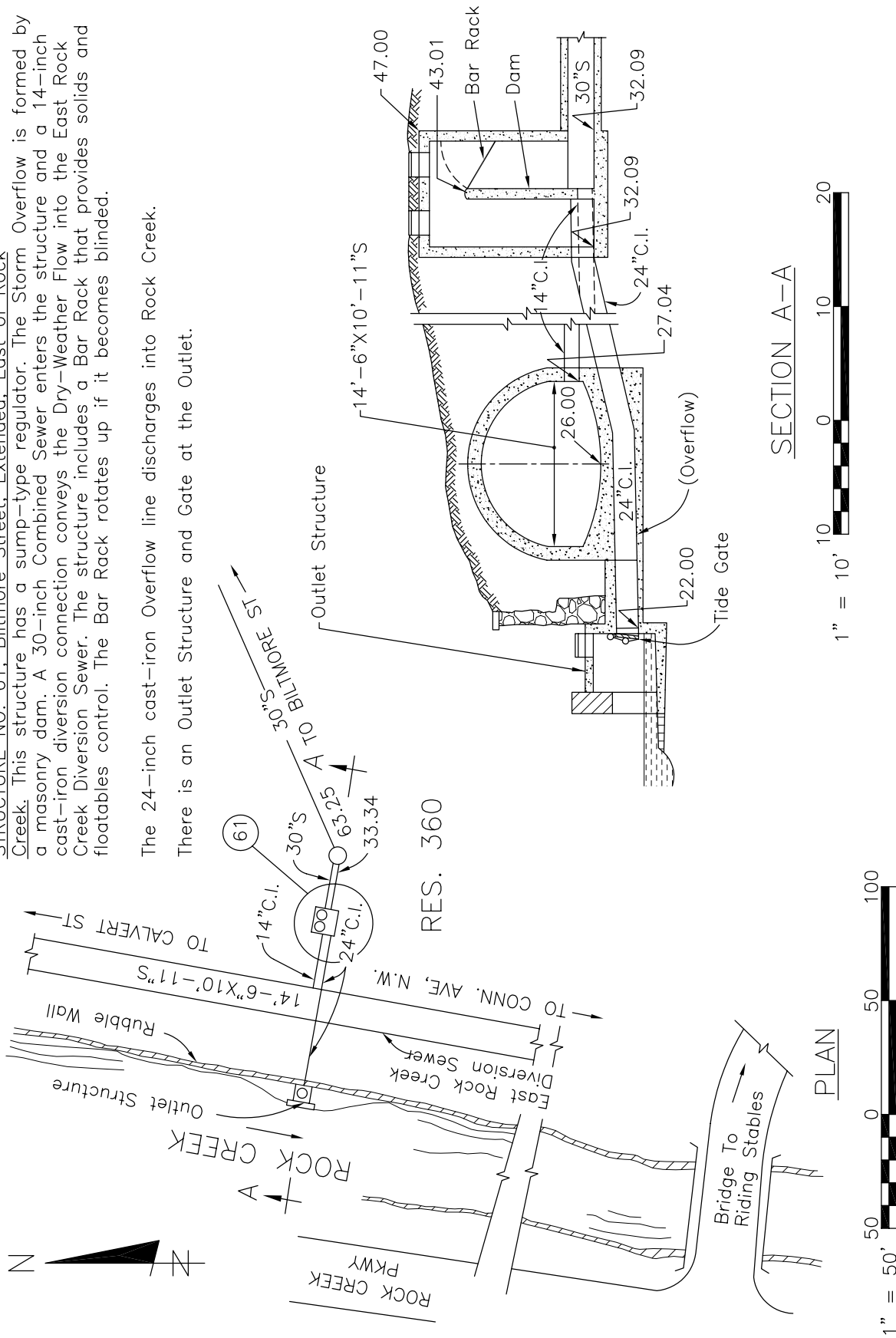


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 039

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.



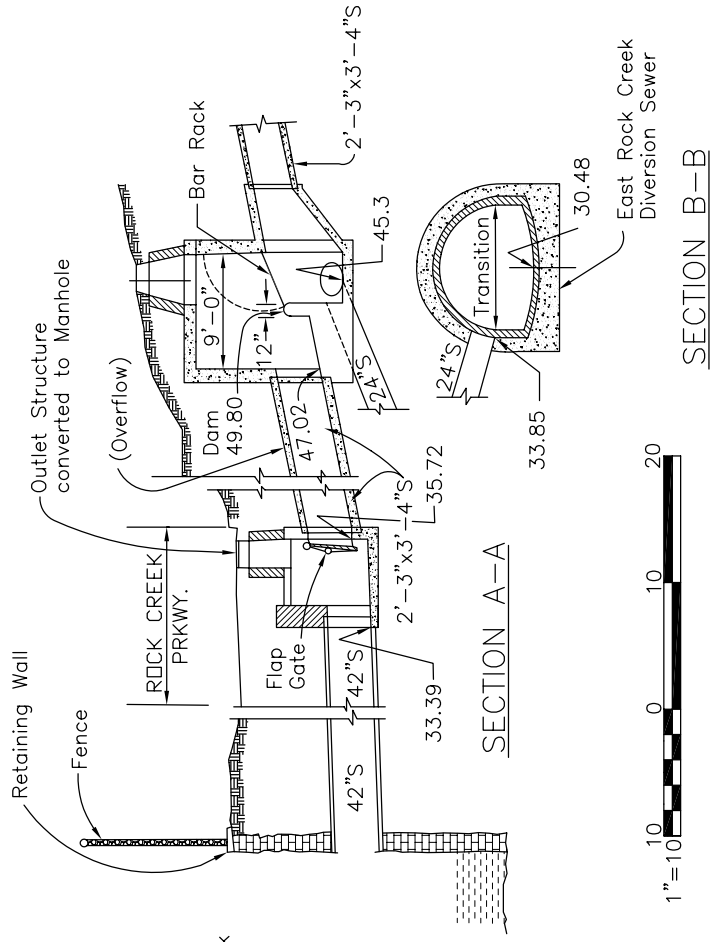
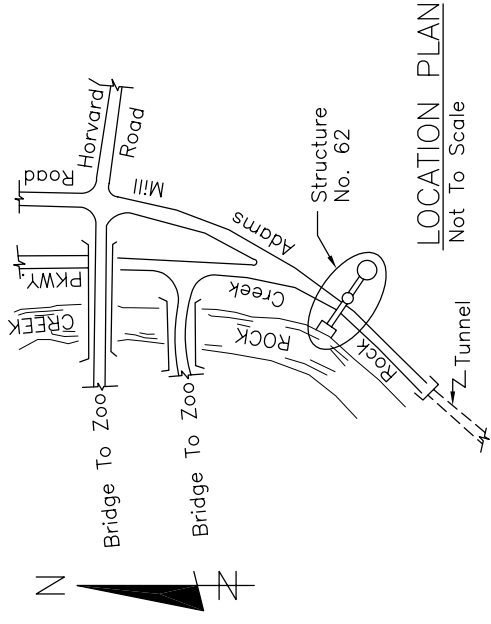
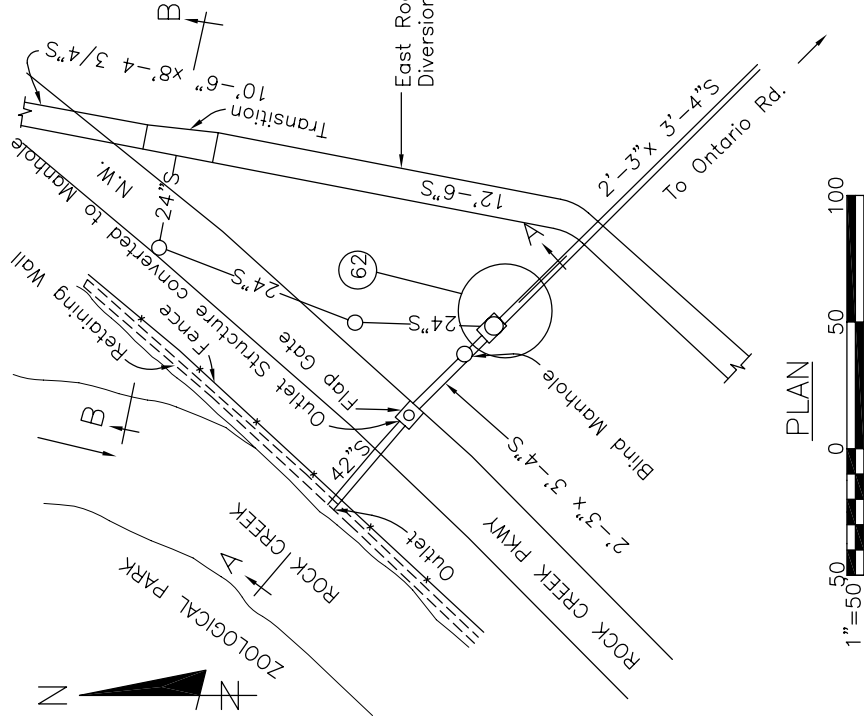
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 040

STRUCTURE NO.
61

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.

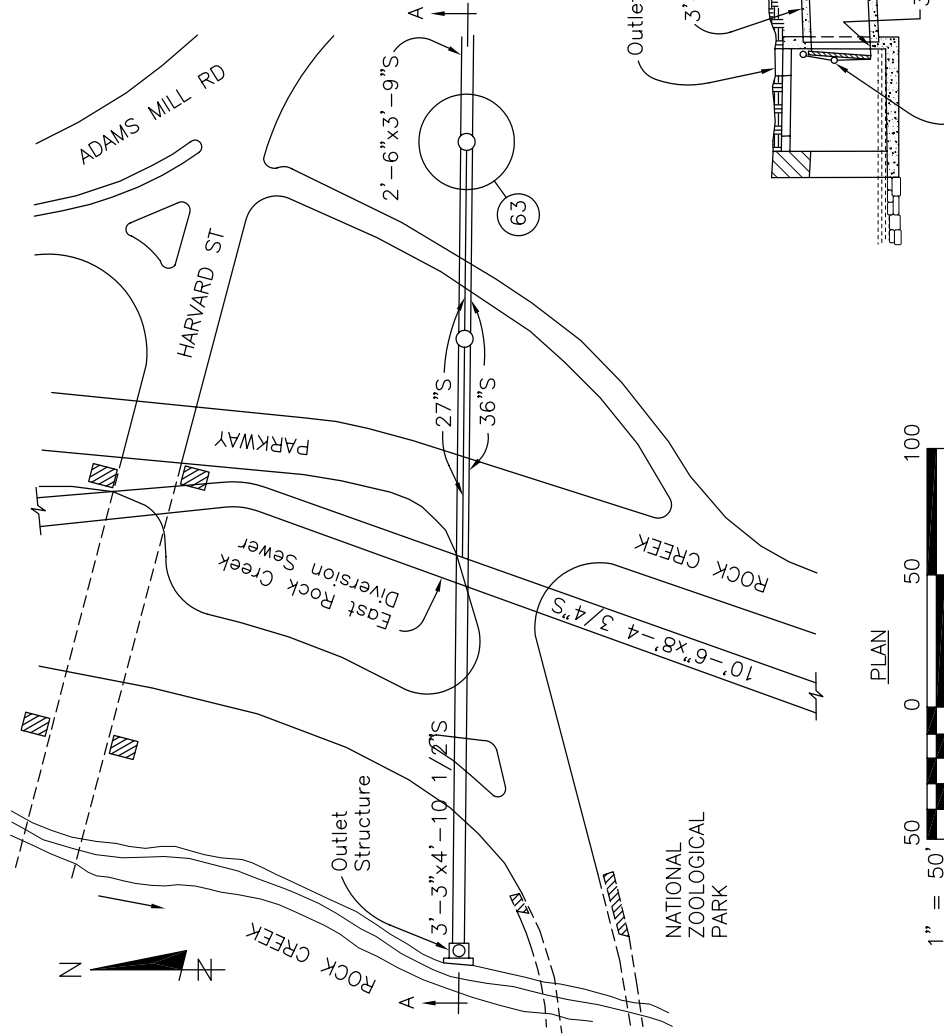


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 041

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.



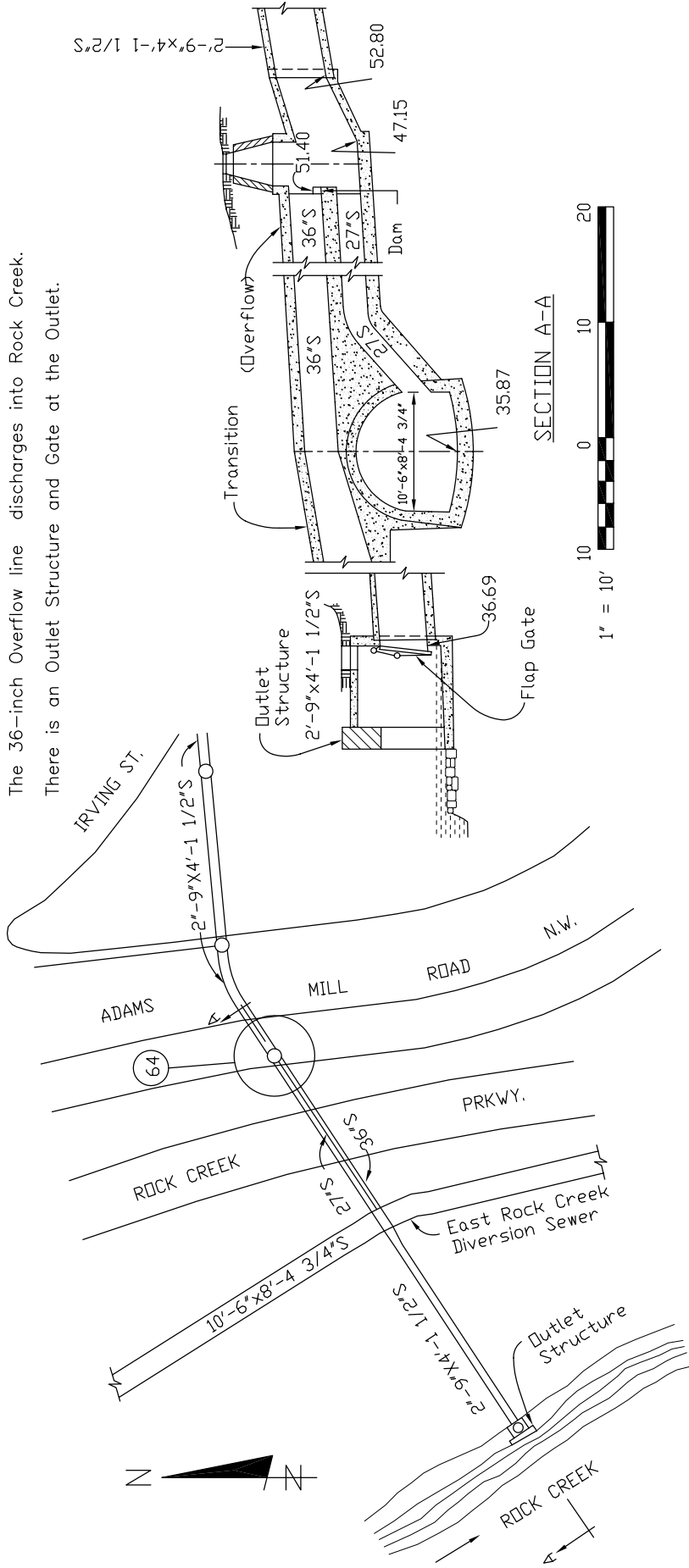
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 042

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'-in. by 4'-in. 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.

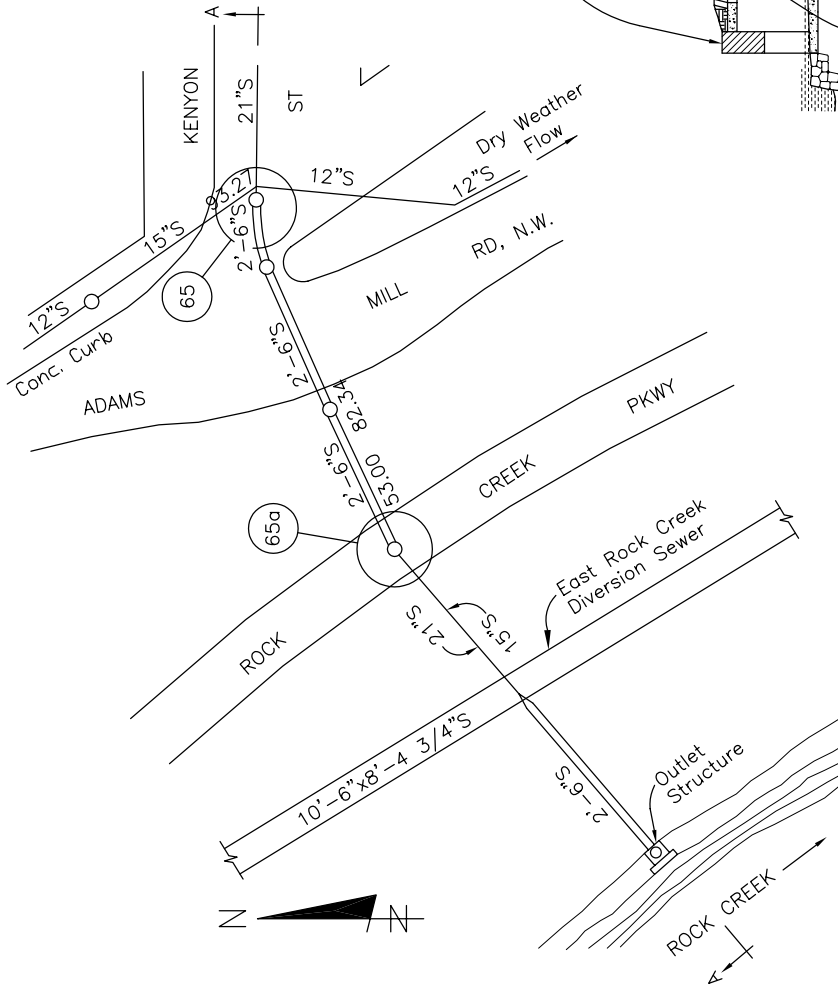


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 043

STRUCTURE NO.
64

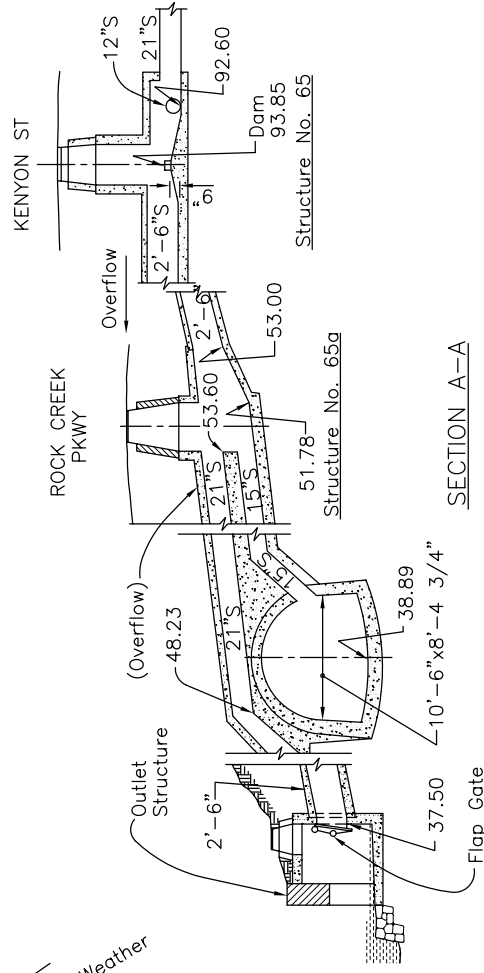
STRUCTURE NO. 65, Kenyon Street and Adams Mill Road, N.W.
 This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 21-inch Combined Sewer and a 15-inch Combined Sewer enters the overflow manhole, and a 12-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion 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.



SECTION A-A



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

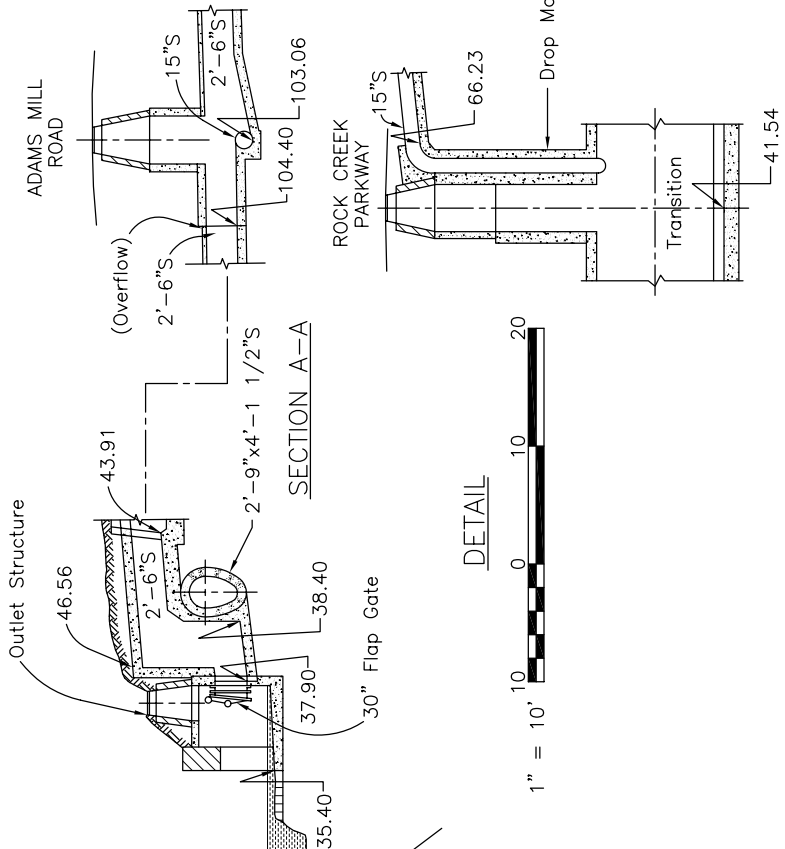
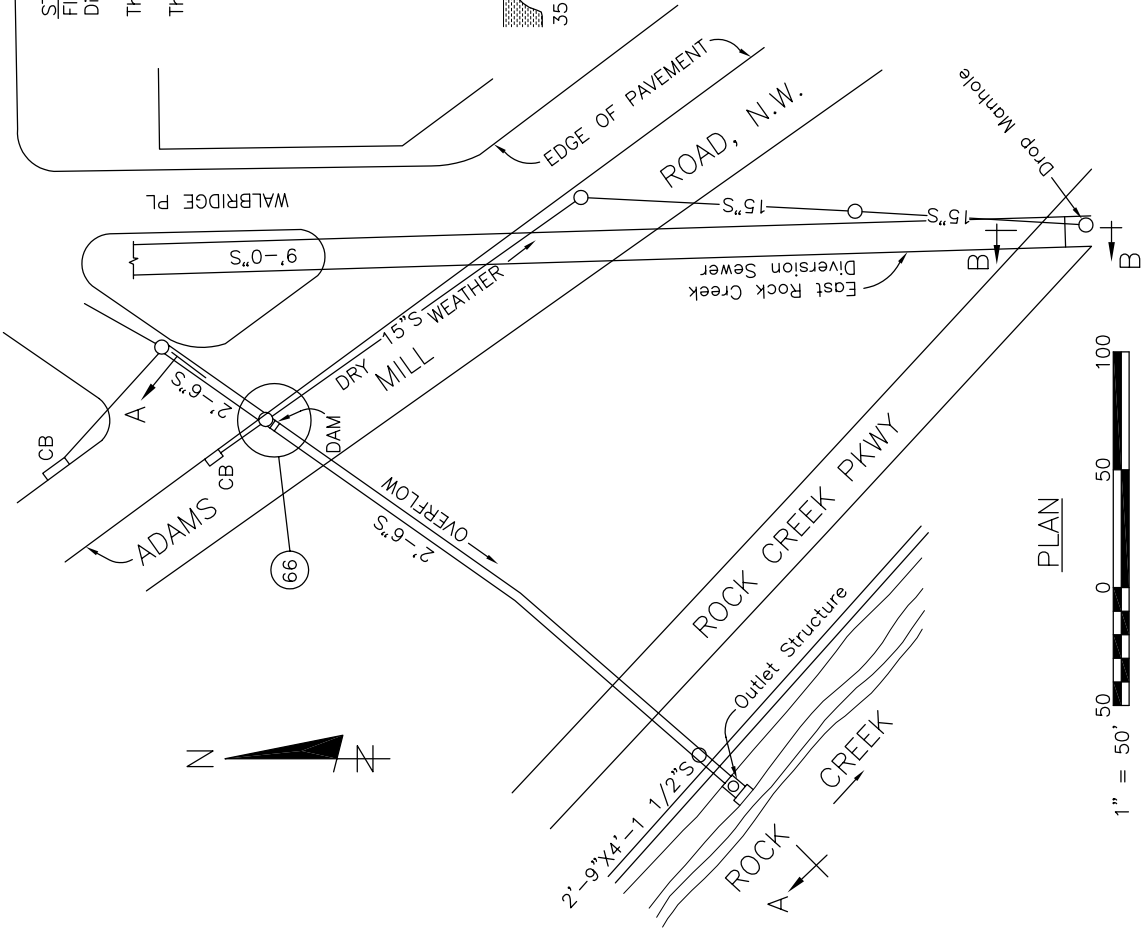
STRUCTURE NO.
 65, 65a

LAMONT ST

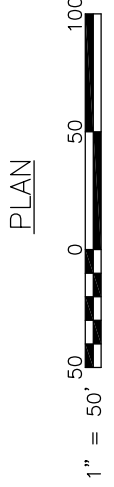
STRUCTURE NO. 66. A 2-ft. 6-in. Combined Sewer enters the structure. Dry Weather Flows are diverted by a dam into a 15-in. sewer and into the East Rock Creek Diversion Sewer. Overflow is into a 2-ft. 6-in. sewer.

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

There is an Outlet Structure and Gate at the Outlet.

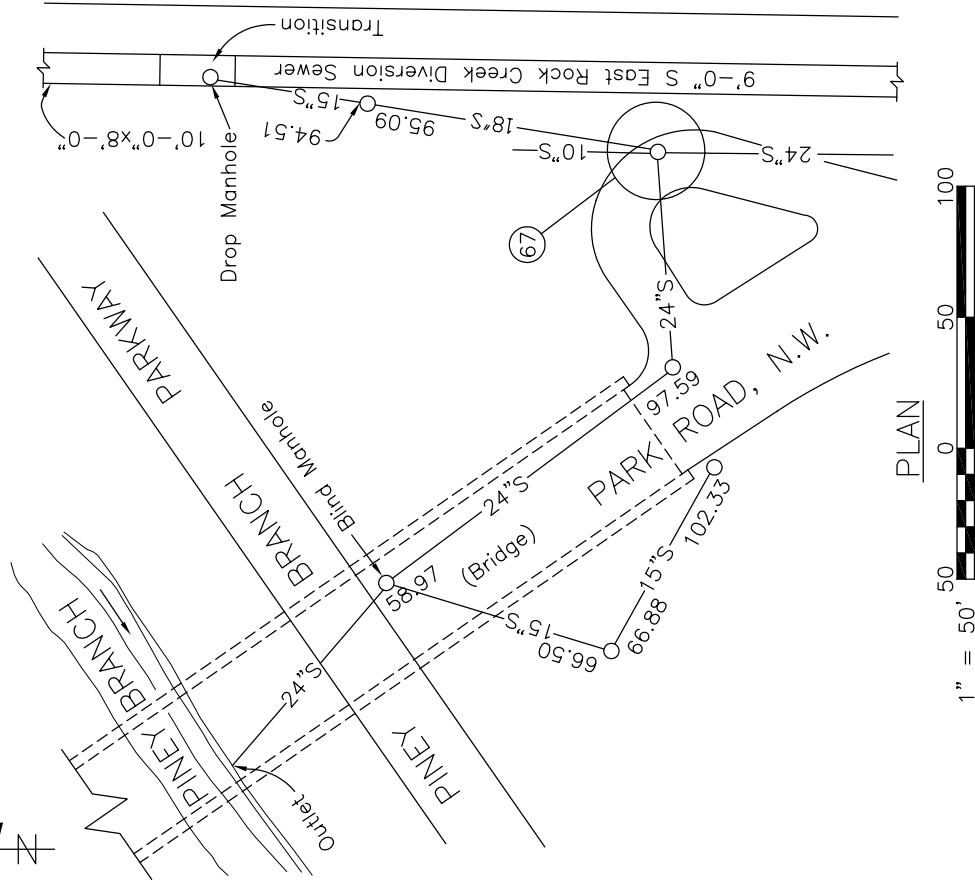


SECTION B-B



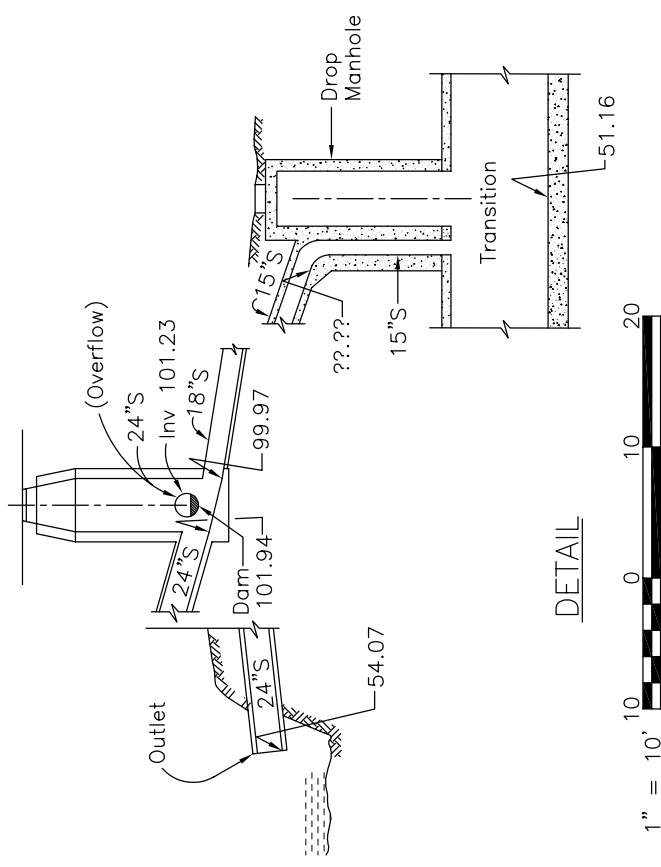
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 045

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, later a 15-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.

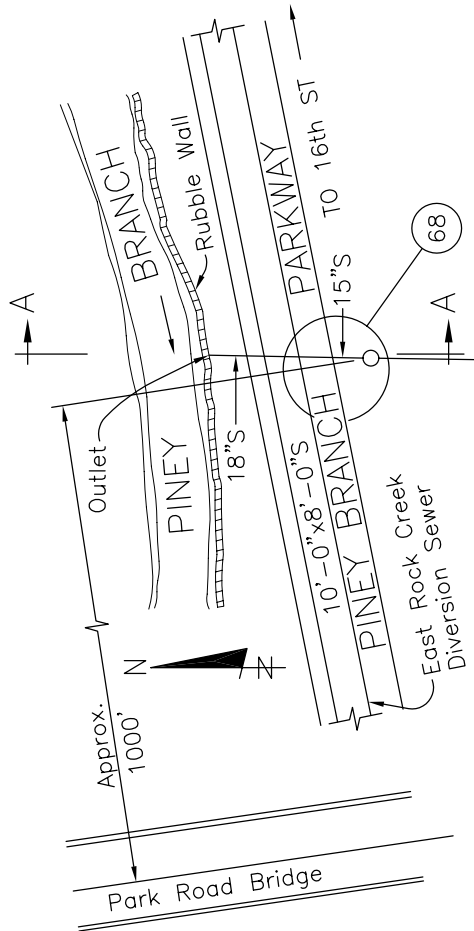


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 046

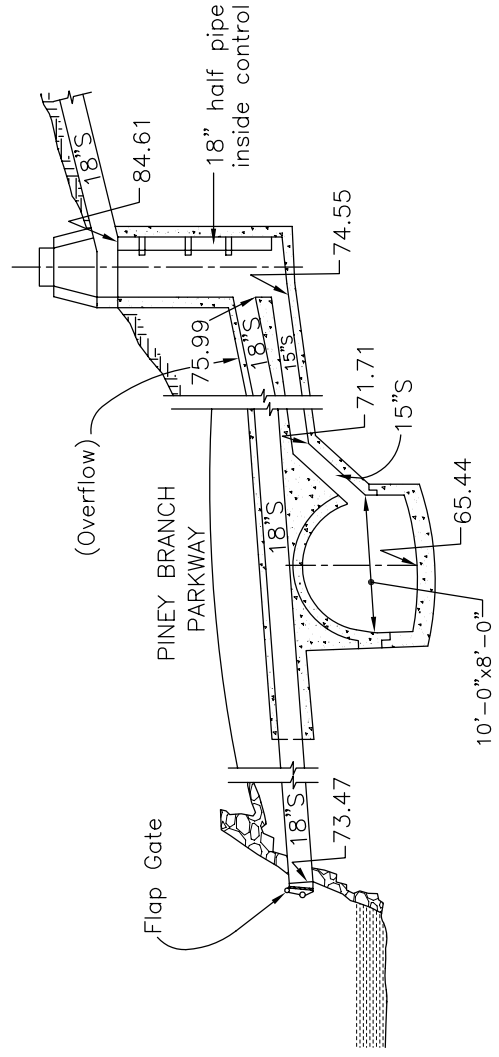
STRUCTURE NO.
 67

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.



RES. 339



SECTION A-A



PLAN



SQ. 2617

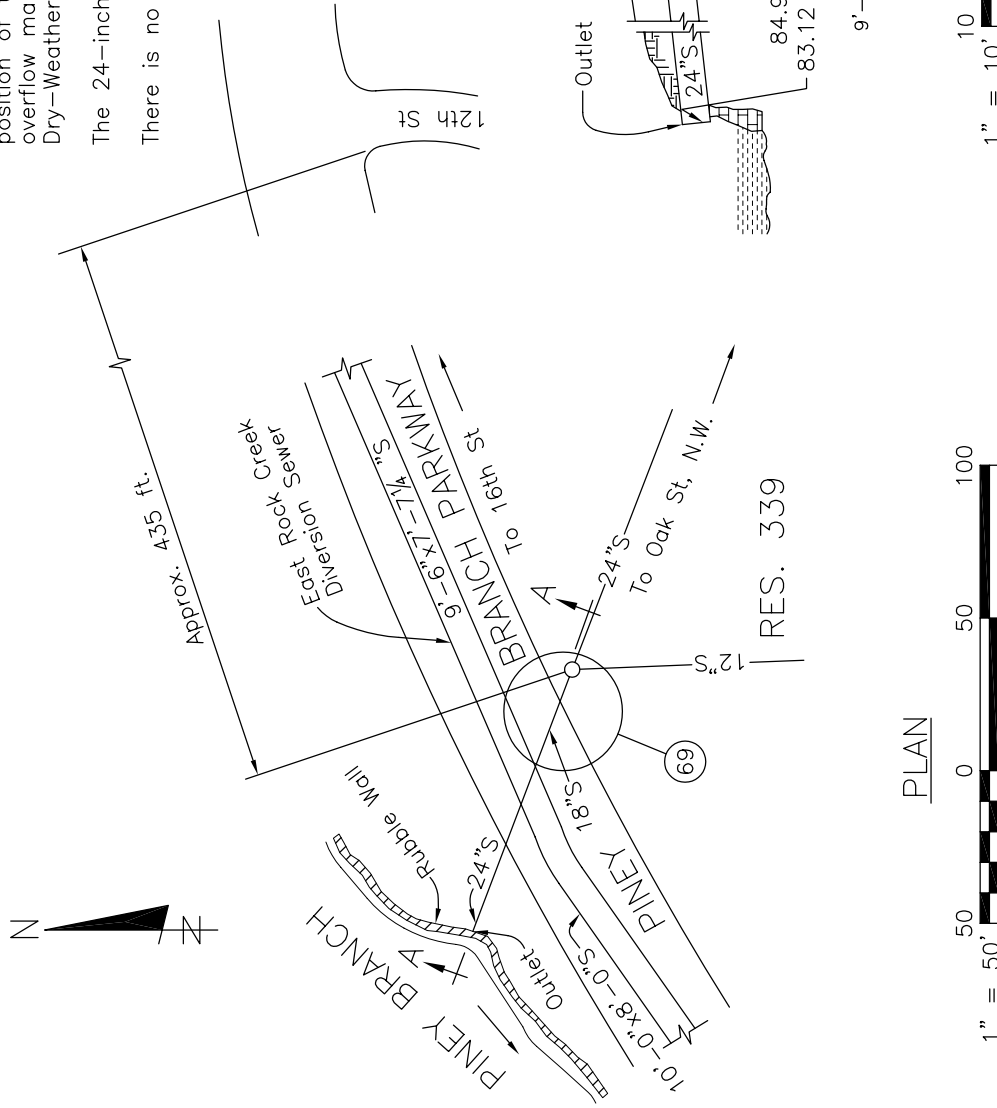
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 047

STRUCTURE NO.
68

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 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 Outlet Structure or Gate at the Outlet.



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

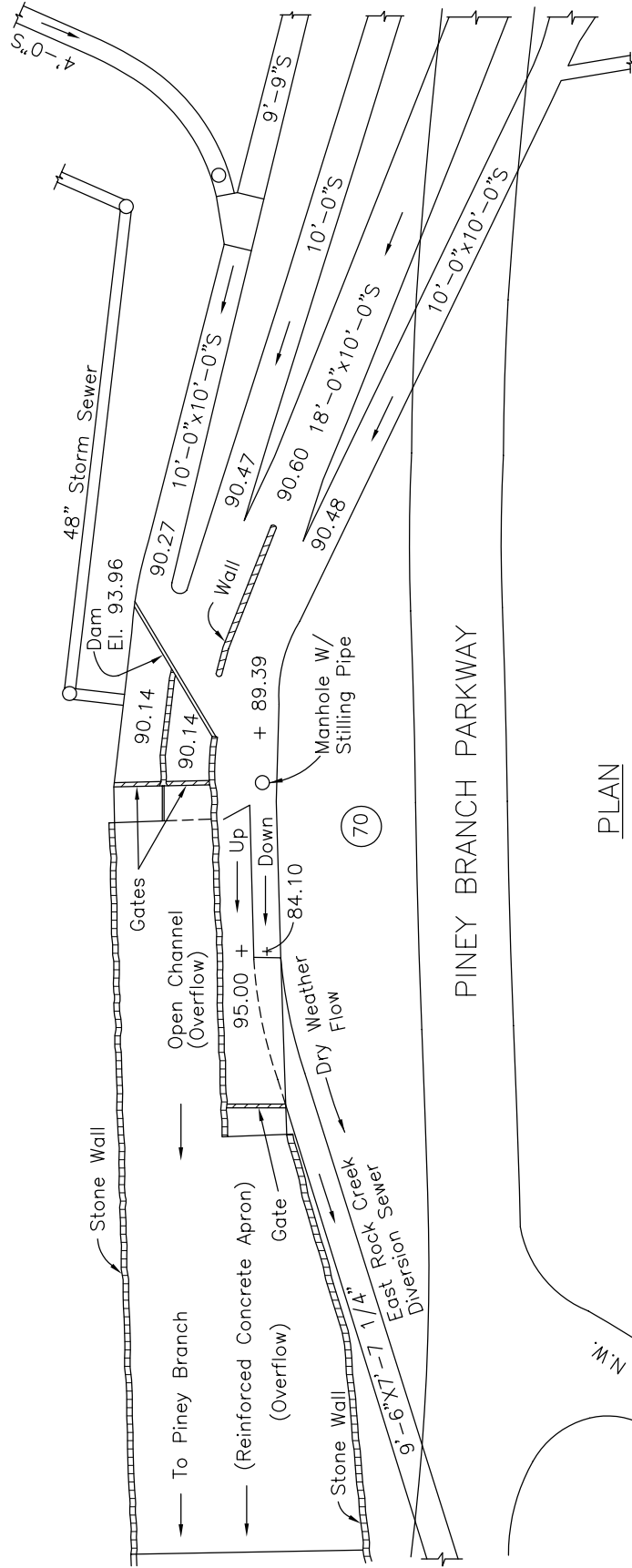
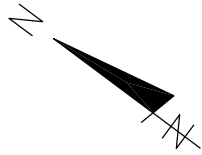
STRUCTURE NO.
 69

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



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

STRUCTURE NO.
70

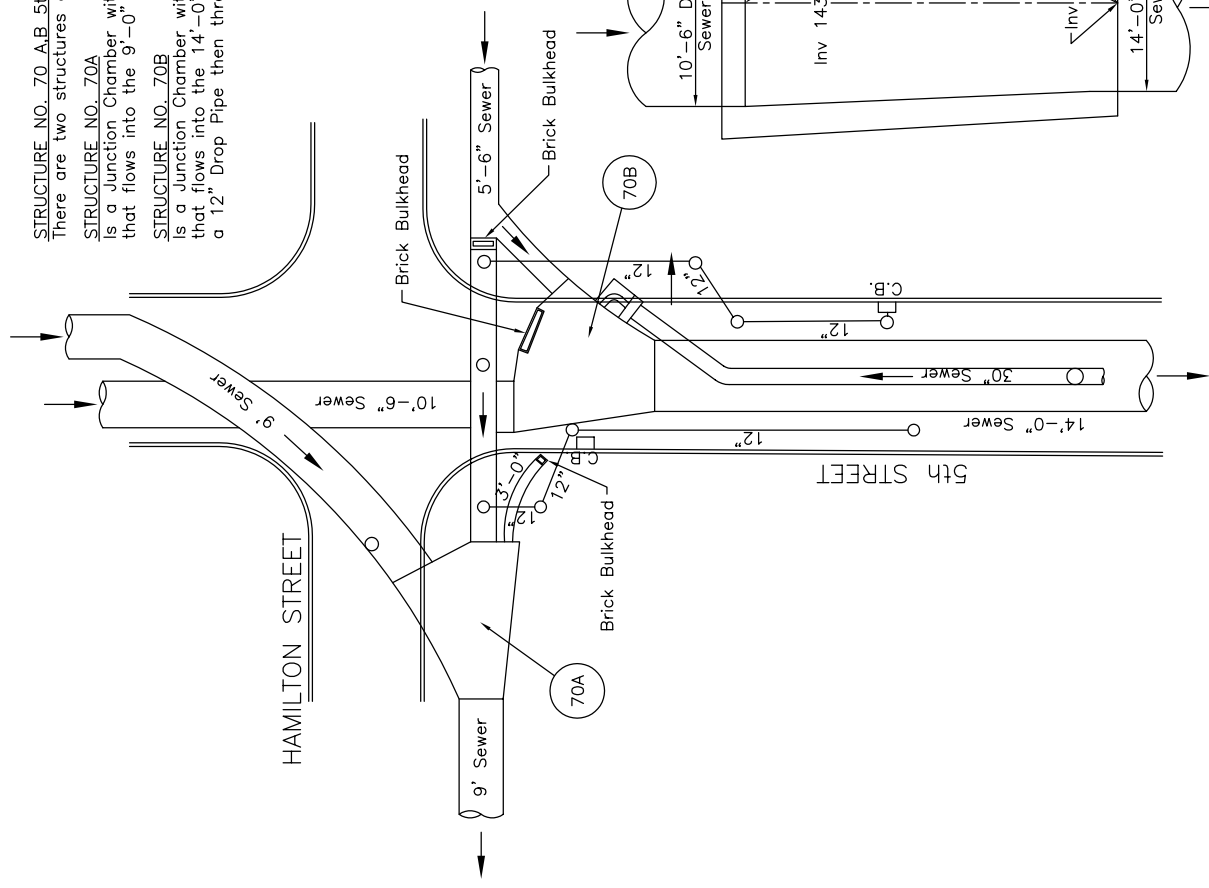
STRUCTURE NO. 70 A.B. 5th & HAMILTON STREET
 There are two structures at this location.

STRUCTURE NO. 70A

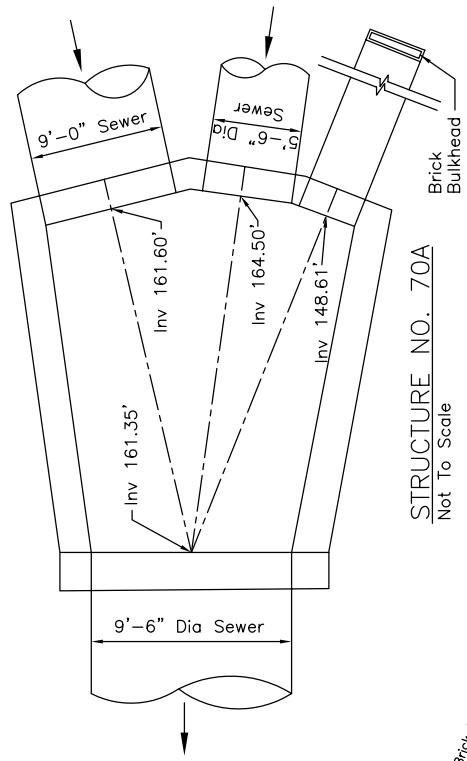
is a Junction Chamber with a 5'-6" dia, 3'-0" dia ports bulkheaded closed and a 9'-0" dia sewer that flows into the 9'-0" Piney Branch Trunk Sewer.

STRUCTURE NO. 70B

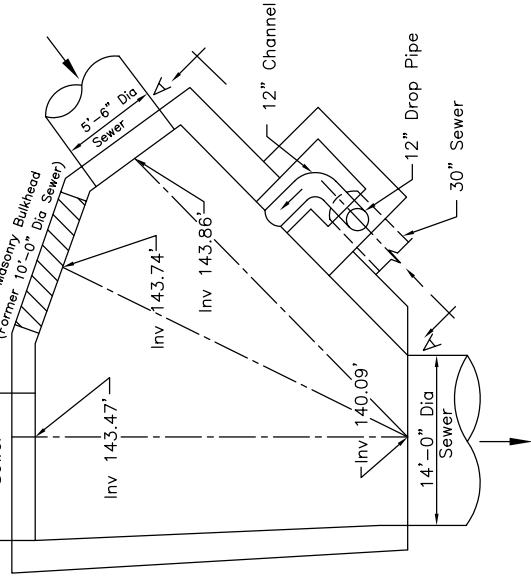
is a Junction Chamber with a 14'-0" dia, 5'-6" dia and 10'-6" dia ports and 10'-0" dia bulkheaded sewer that flows into the 14'-0" Piney Branch Trunk Sewer. Sewer from the 30" dia flows into Structure No. 70b via a 12" Drop Pipe then through a 36" opening into the 14'-0" sewer.



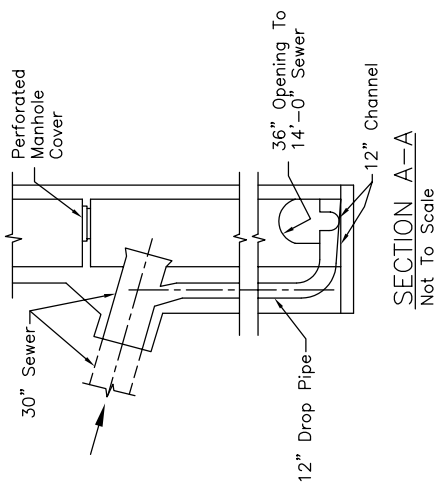
PLAN
 Not To Scale



STRUCTURE NO. 70A
 Not To Scale



STRUCTURE NO. 70B
 Not To Scale



SECTION A-A
 Not To Scale

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

STRUCTURE NO.
 70a, 70b

STRUCTURE NO. 70C,D,E 5th & INGRAHAM STREET N.W.

There are three structures at this location.

STRUCTURE NO. 70C

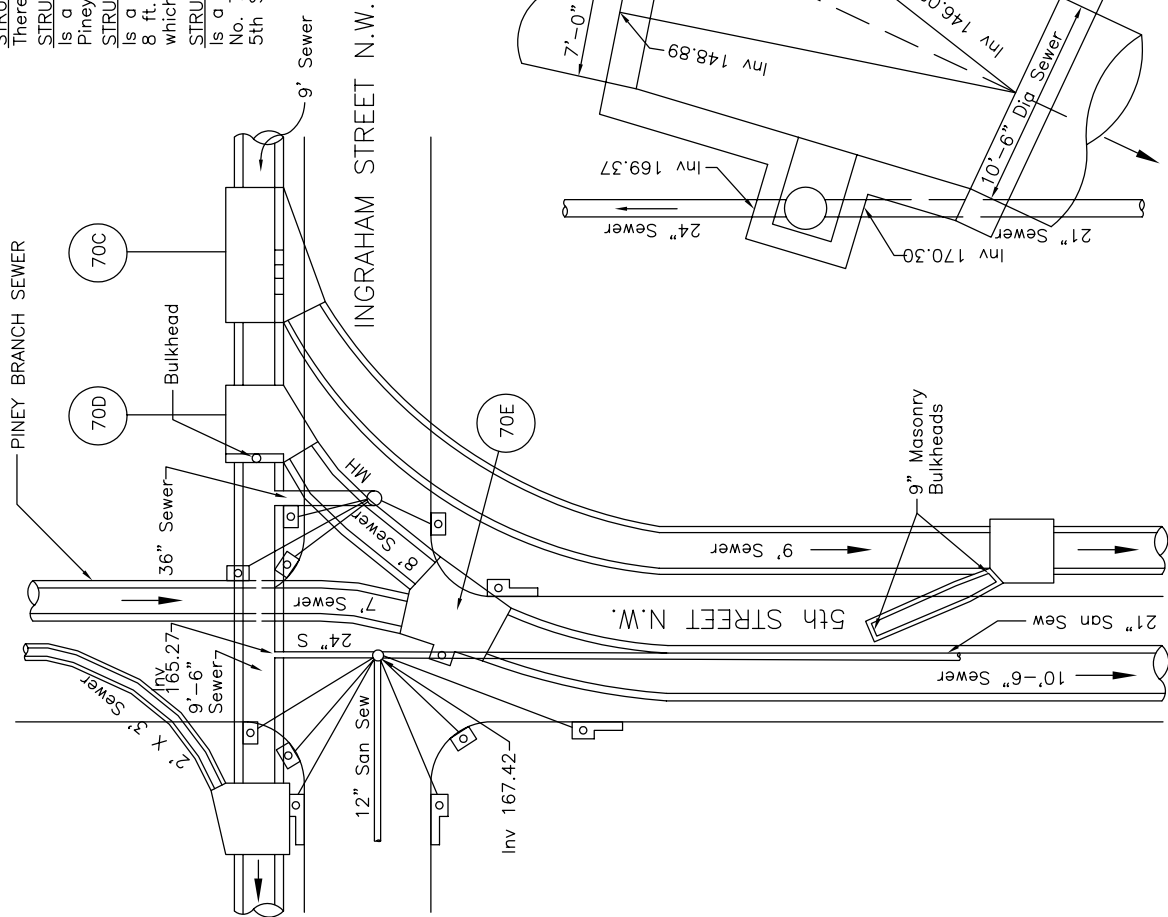
Is a Junction Chamber with two 2'-6"x 2'-0" ports to release flow into the 9 ft. diameter Piney Branch Trunk Sewer.

STRUCTURE NO. 70D

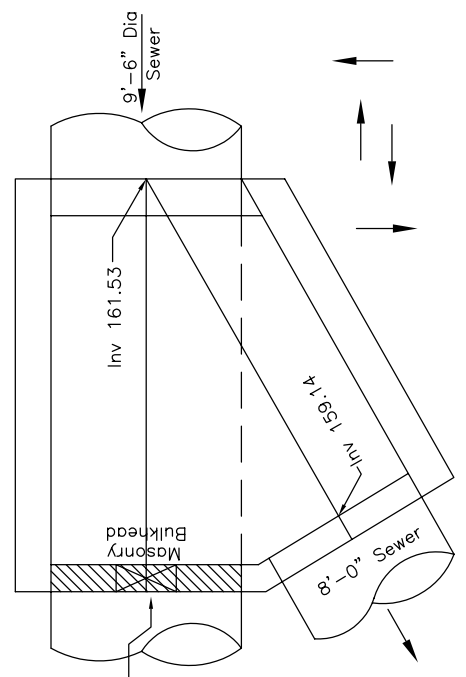
Is a Junction Chamber which diverts the flow from the 9'-6" diameter Piney Branch Sewer into the 8 ft. branch of the Piney Branch Trunk Sewer. There is a 36" arched opening in the west bulkhead which diverts the 9'-6" sewer to relieve flow into the Piney Branch Sewer.

STRUCTURE NO. 70E

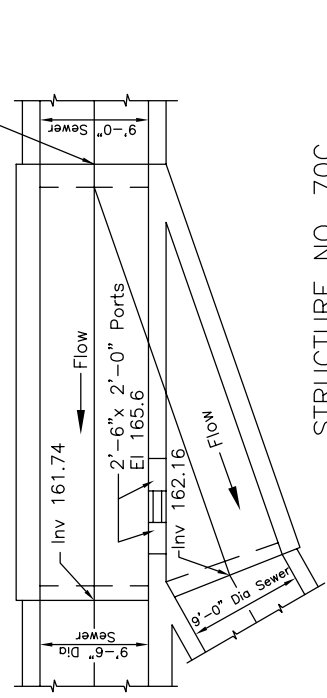
Is a Junction Chamber connecting the 7 ft. sewer in 5th Street and the 8 ft. sewer from Structure No. 70d with the 10'-6" Piney Branch Trunk sewer and the Sanitary Flow from a 21-inch sewer in 5th Street and a 12-inch sewer in Ingraham Street.



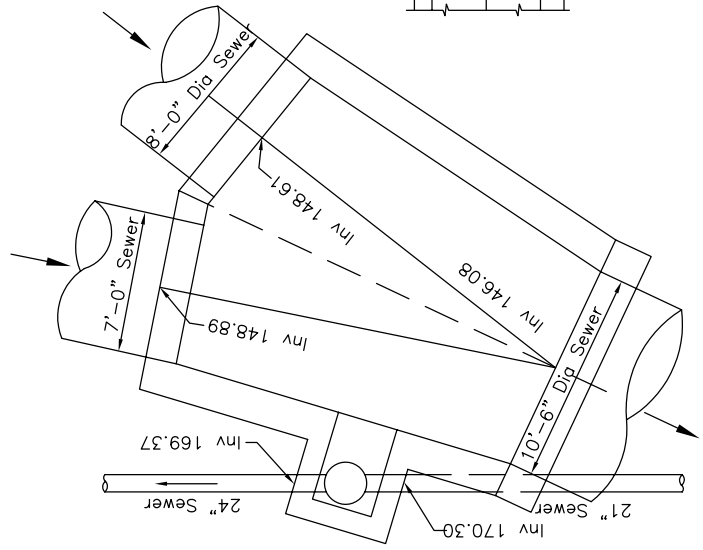
STRUCTURE NO. 70D
Not To Scale



STRUCTURE NO. 70C
Not To Scale



STRUCTURE NO. 70E
Not To Scale



PLAN
Not To Scale

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

STRUCTURE NO.
70c, 70d, 70e

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

STRUCTURE NO. 70F

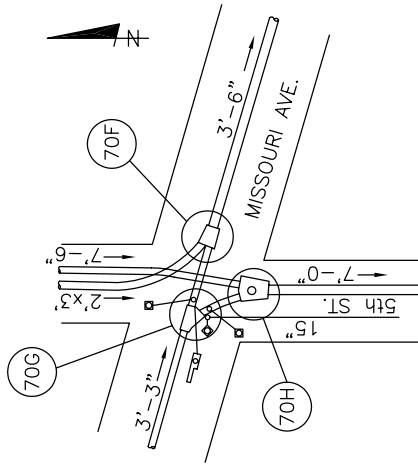
Is a Junction Chamber between the 2'x 3' Piney Branch Combined Sewer in 5th Street and the 3'x 6' sewer in Missouri Avenue.

STRUCTURE NO. 70G

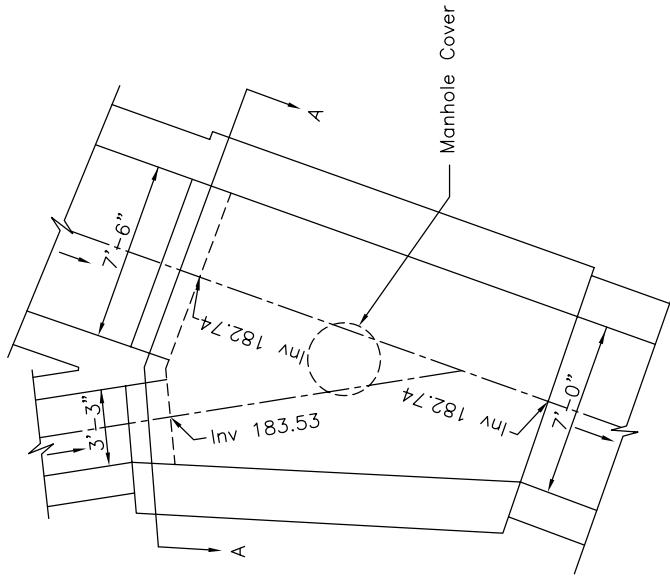
Is a Junction Chamber between the 3'-3" Combined Sewer in Missouri Avenue, the Piney Branch Sewer and the Rock Creek Diversion Sewer.

STRUCTURE NO. 70H

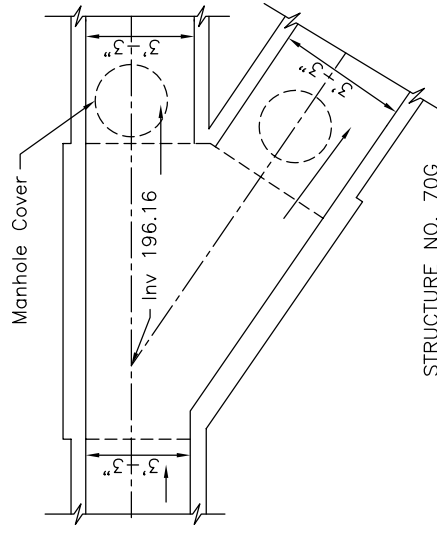
Is a Junction Chamber between the 3'-3" Combined Leg from Structure No. 70G the 7-ft. Rock Creek Diversion Sewer and the 7'-6" Rock Creek Diversion.



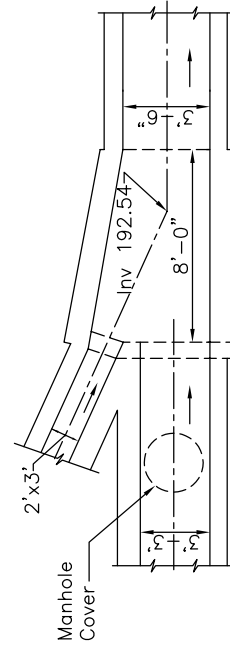
LOCATION PLAN
 Not To Scale



SECTION A-A (70H)
 Not To Scale



STRUCTURE NO. 70G
 Not To Scale



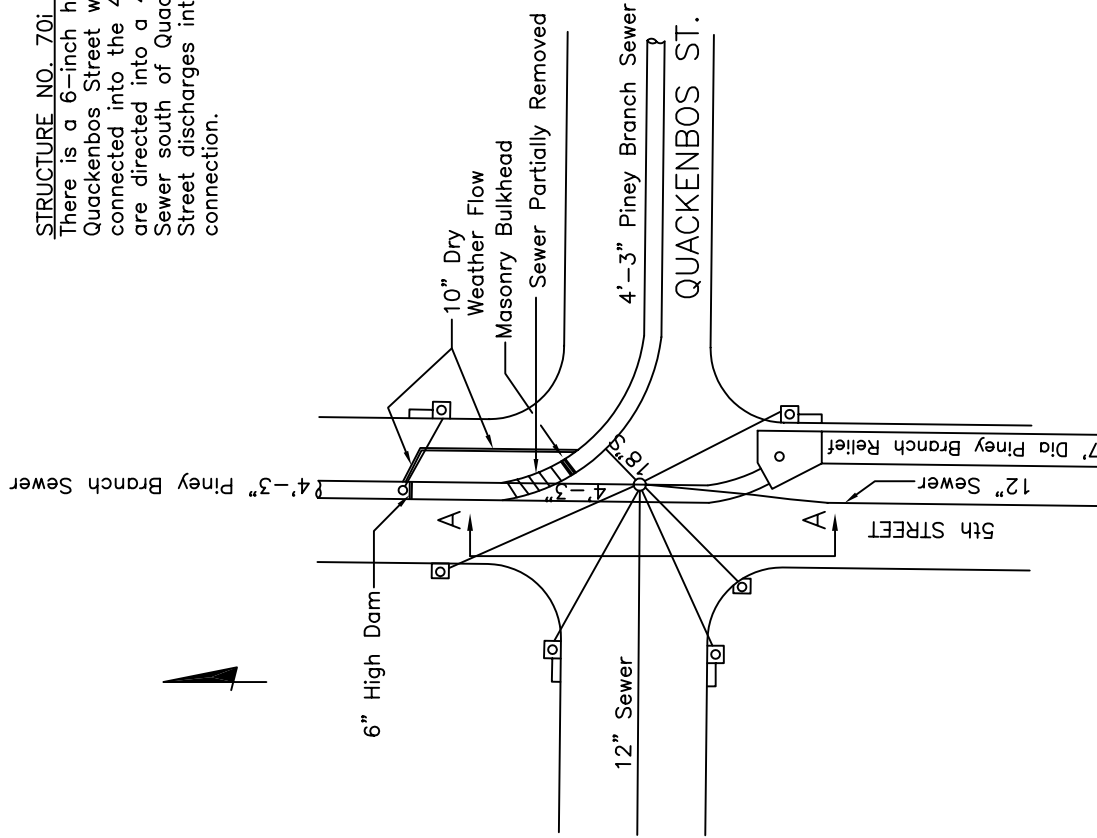
STRUCTURE NO. 70F
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STRUCTURE NO. 70H
 Not To Scale

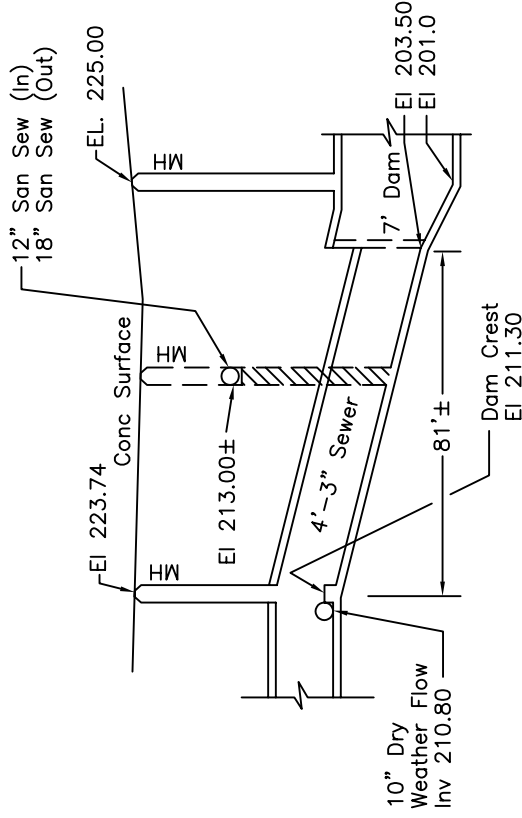
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
 70f, 70g, 70h

STRUCTURE NO. 701 - 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.



LOCATION PLAN
 Not To Scale



SECTION A-A
 SECTION PINEY BRANCH RELIEF
 Not To Scale

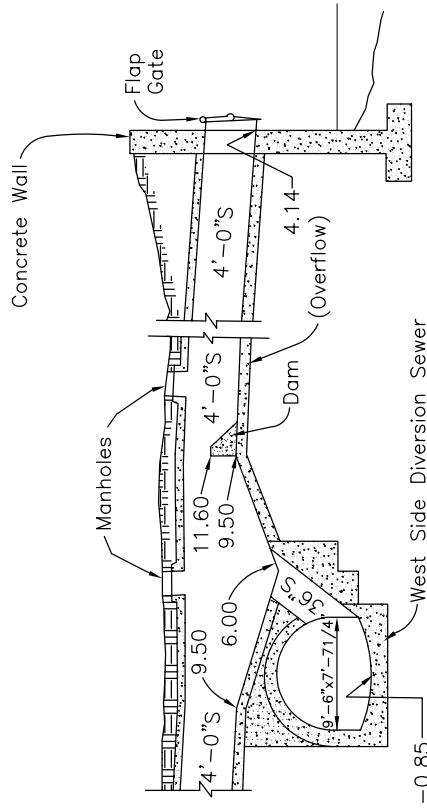
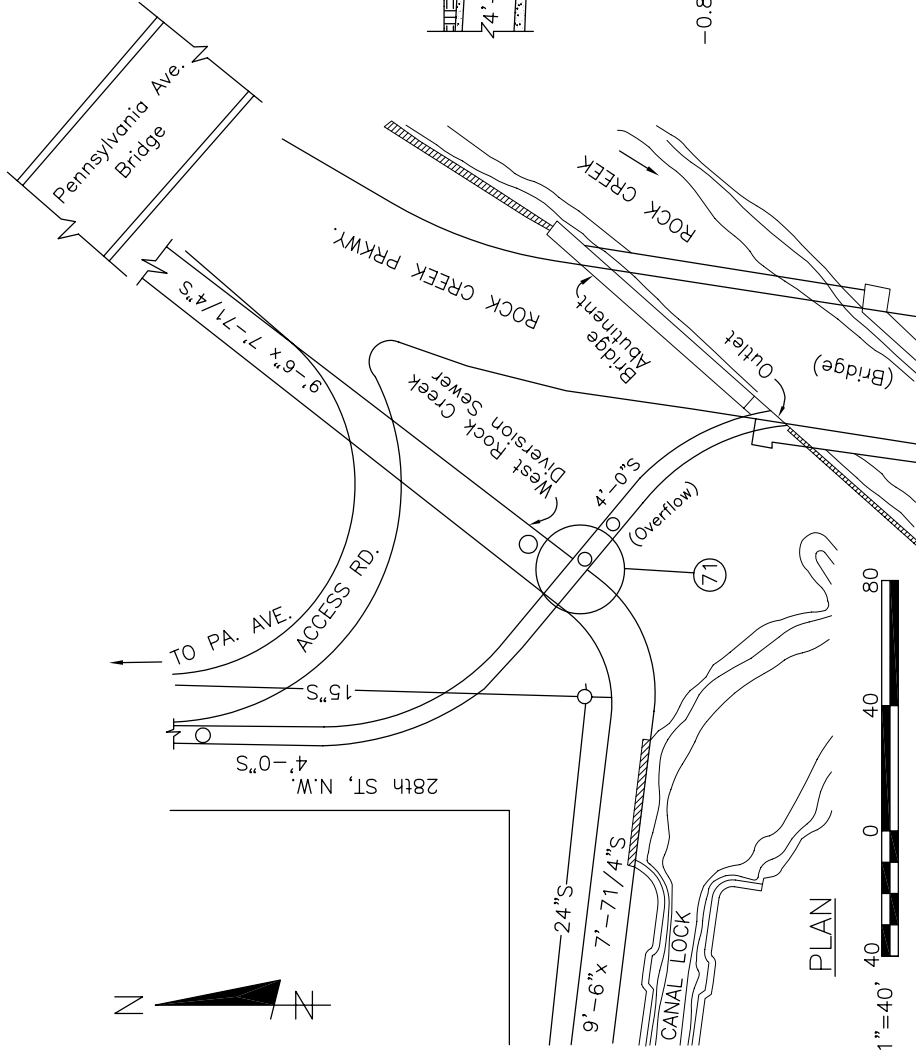
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 049

STRUCTURE NO.
 701

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.



DETAIL



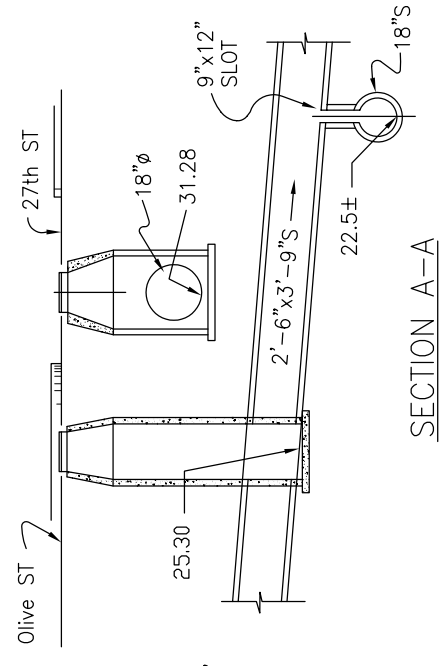
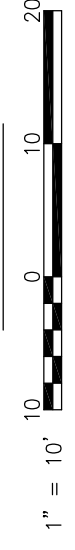
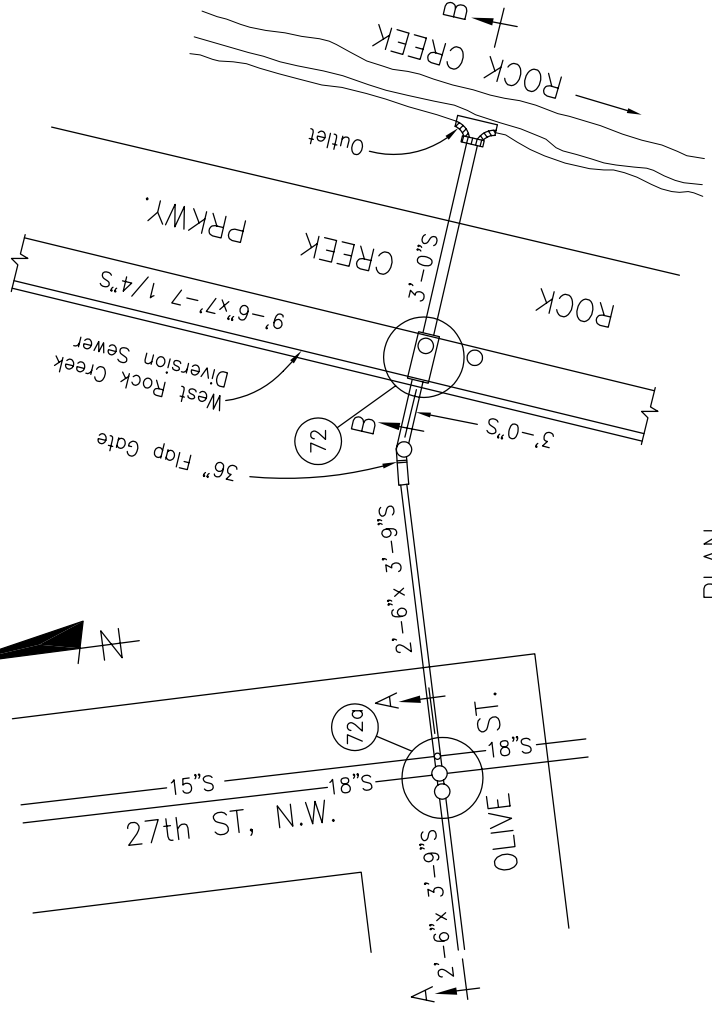
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 050

STRUCTURE NO.
 71

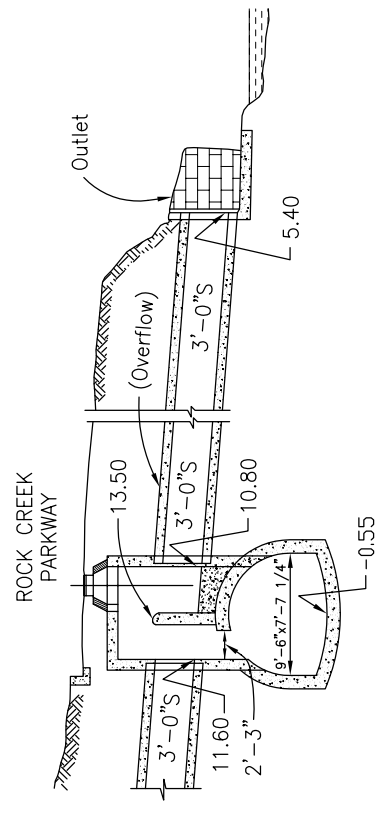
STRUCTURE NO. 72, Olive Street, Extended and Rock Creek Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 3-ft. Combined Sewer enters the structure and a 2-ft. 3-in. vertical diversion connection conveys the Dry-Weather Flow to the West Rock Creek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

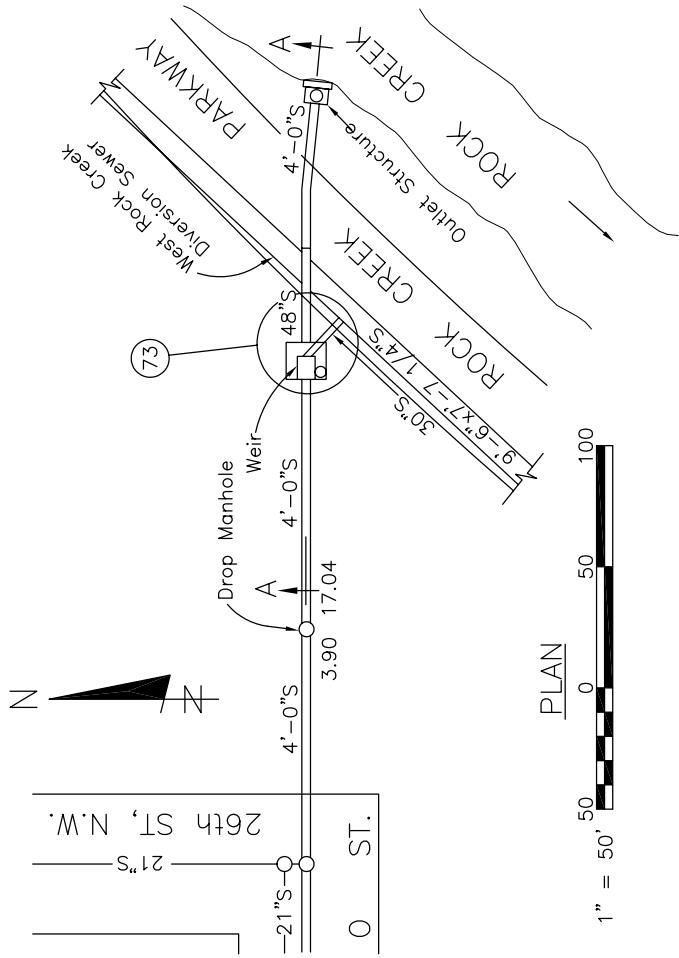
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 051

STRUCTURE NO.
 72 & 72a

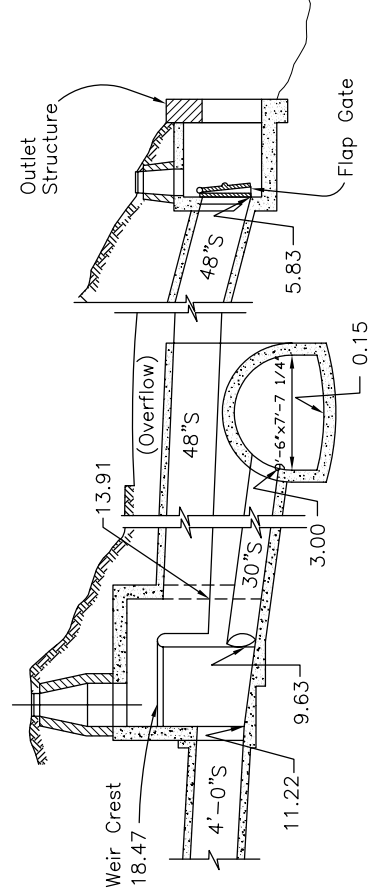
STRUCTURE NO. 73, O Street, Extended, and Rock Creek Parkway, N.W.
 This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 4-ft. Combined Sewer enters the structure and a 30-inch diversion connection conveys the Dry-Weather Flow into West Rock Creek Diversion Sewer.

The 48-inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

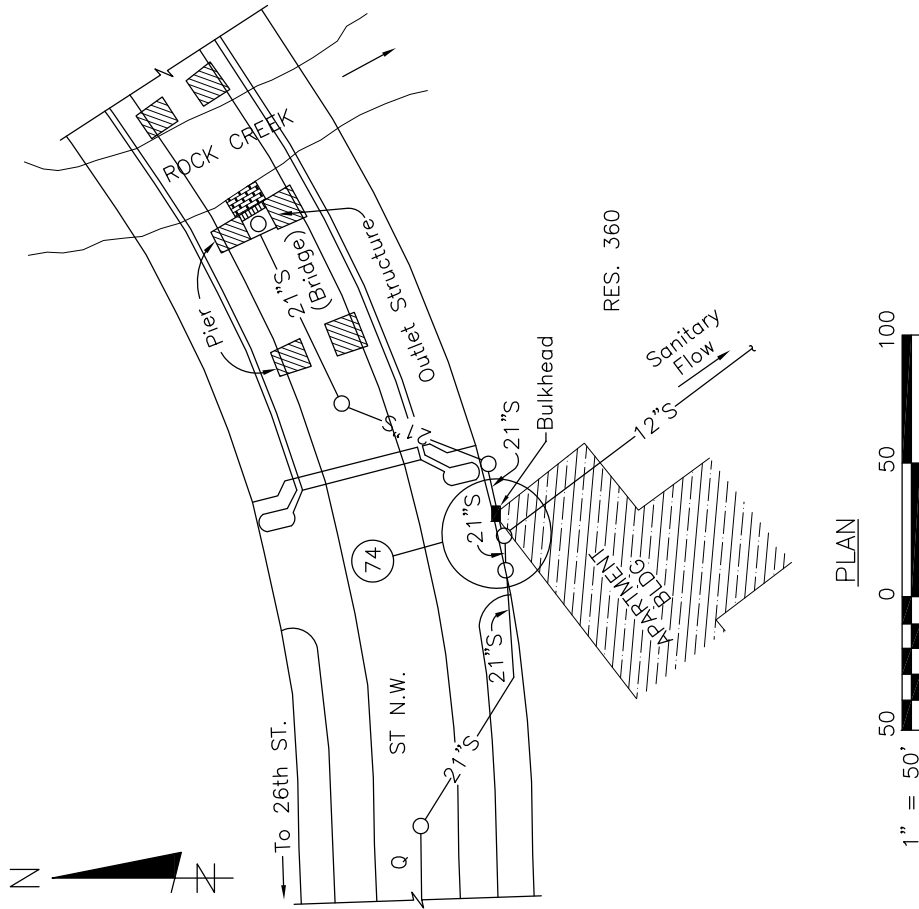


SECTION A-A



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

STRUCTURE NO.
 73



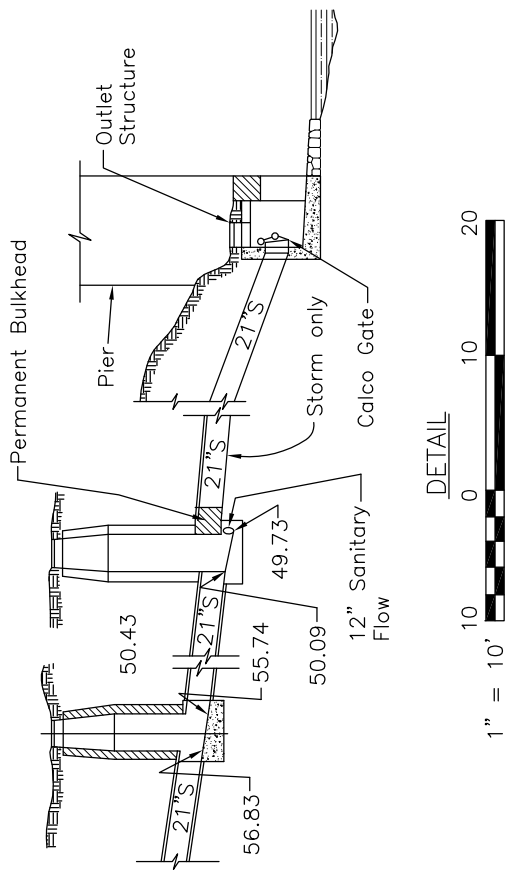
PLAN



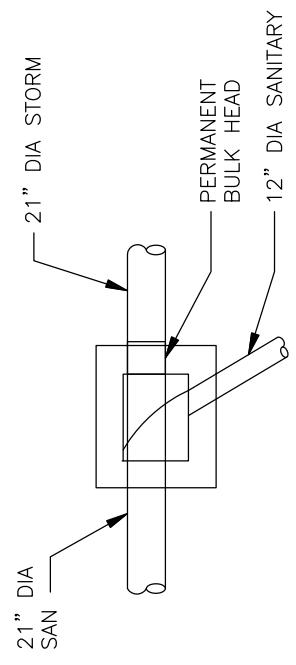
STRUCTURE NO. 74, Q Street, West of Rock Creek, N.W.
 This structure had a sump-type regulator. A 21-inch Sanitary Sewer enters the structure and a 12-inch connection conveys the Sanitary Flow into West Rock Creek Diversion Sewer. The overflow has been eliminated by the permanent bulkhead.

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

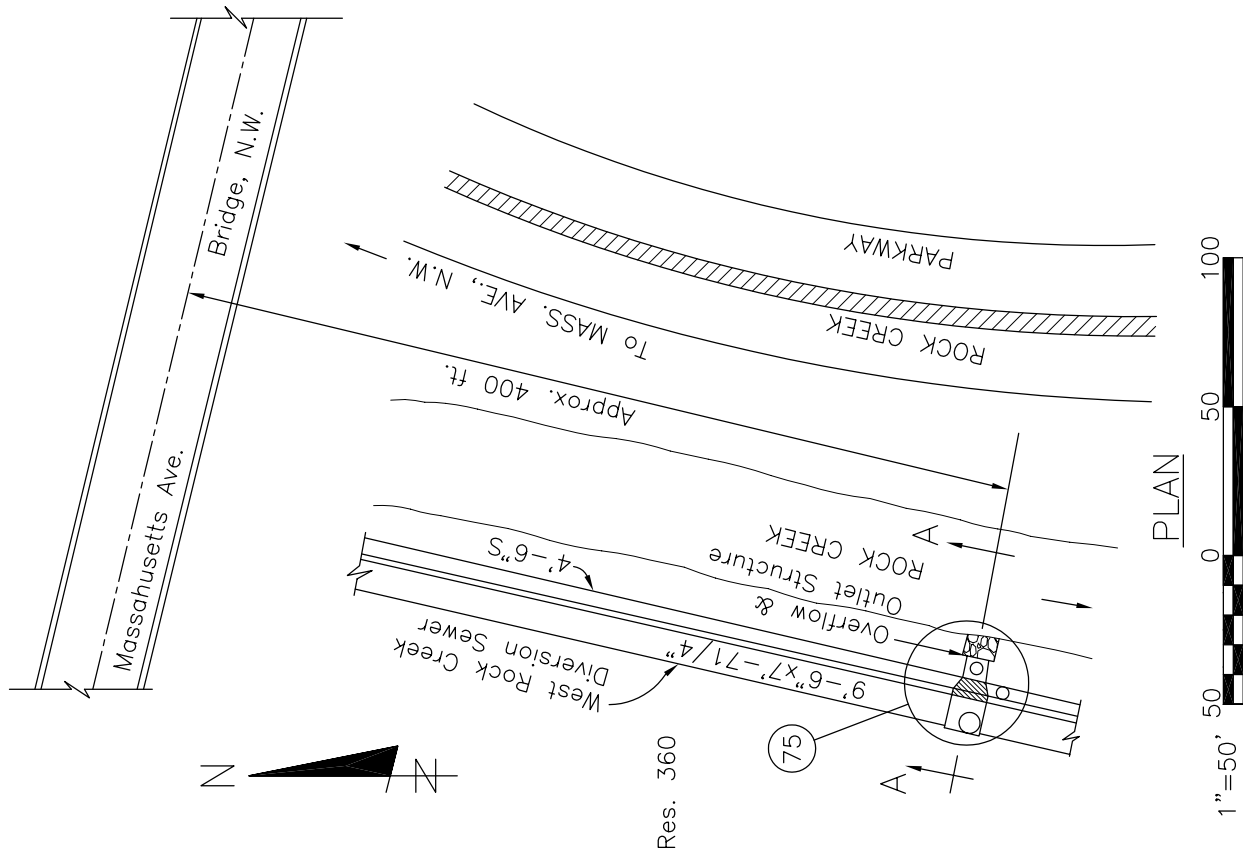


DETAIL



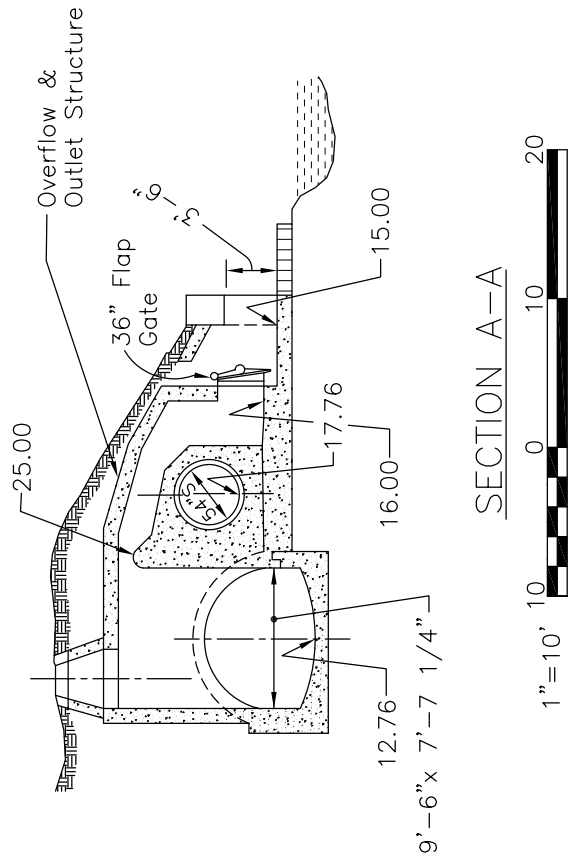
SECTIONAL PLAN

THIS OVERFLOW HAS BEEN ELIMINATED
 BASED ON UPSTREAM SEPARATION



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.

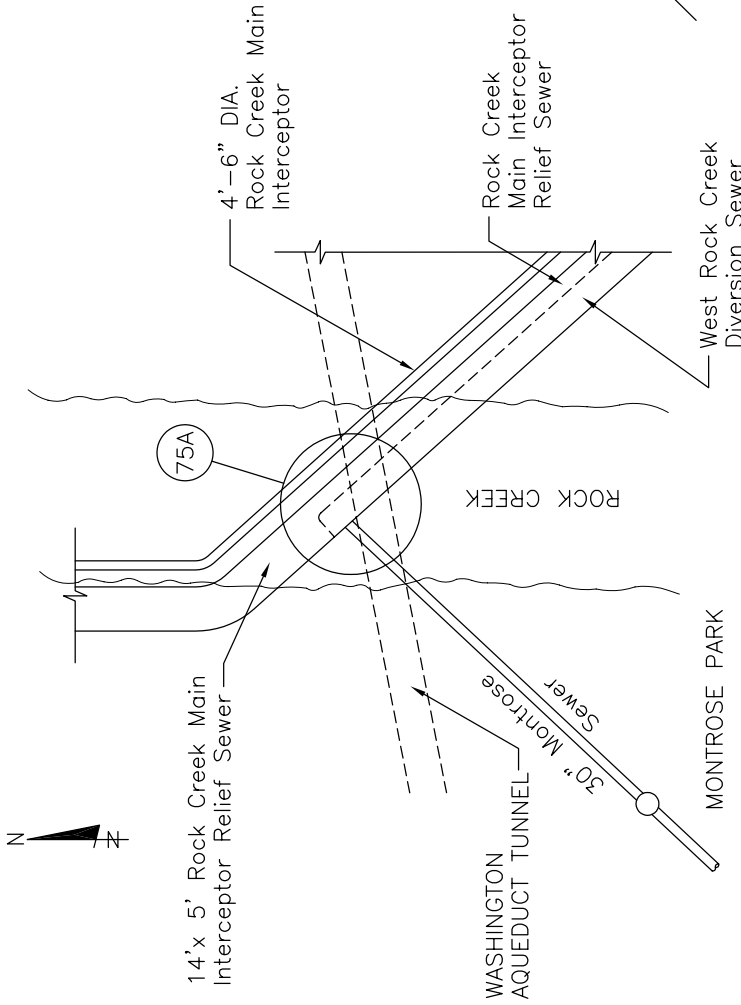


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 054

STRUCTURE NO.
 75

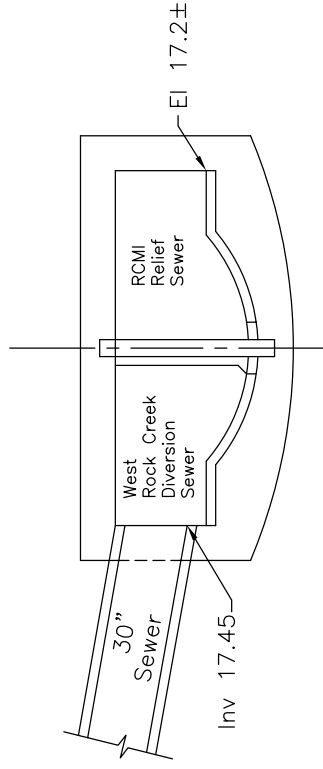
STRUCTURE NO. 75A — MONTROSE PARK SEWER

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.



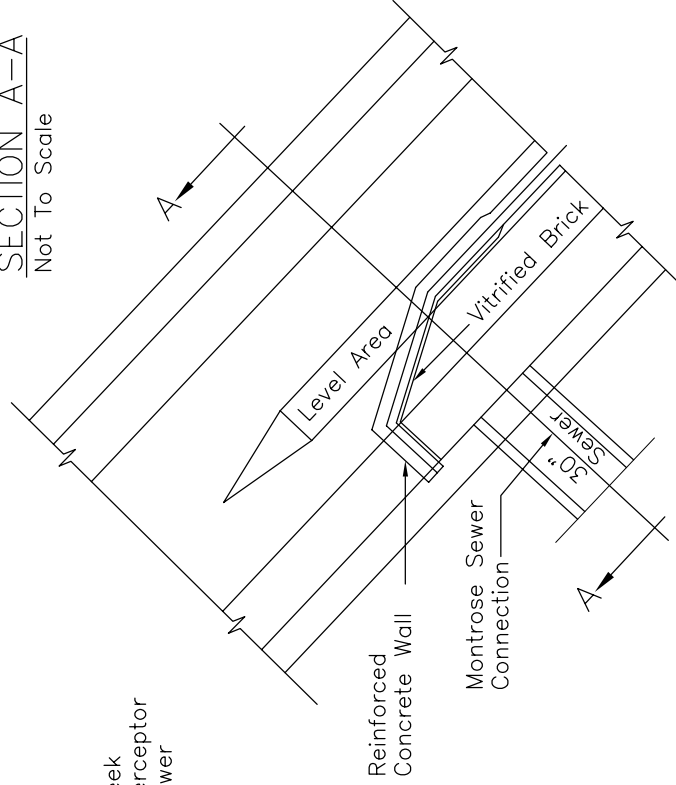
LOCATION PLAN

Not To Scale



SECTION A-A

Not To Scale



PLAN

STRUCTURE NO. 75A

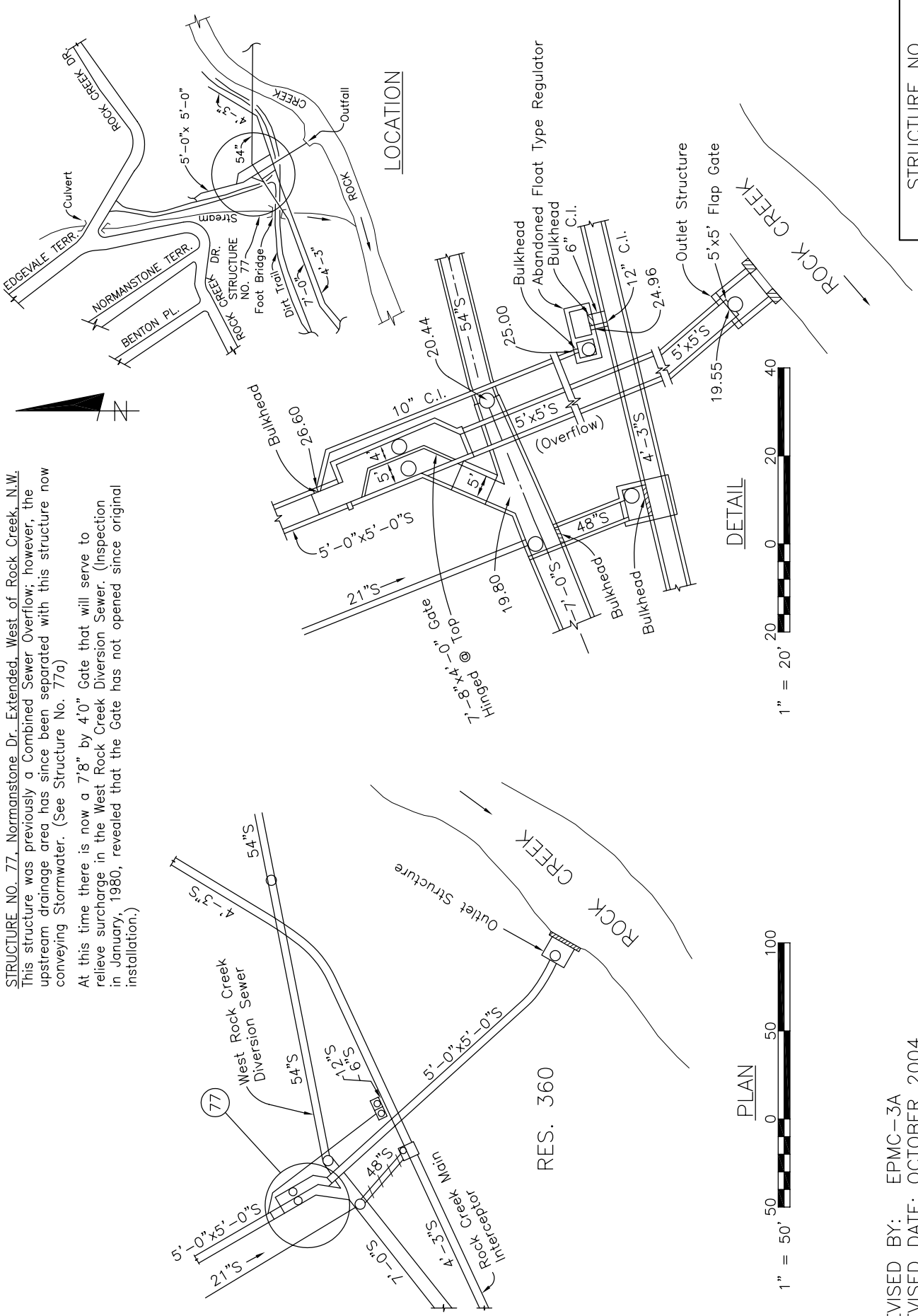
Not To Scale

STRUCTURE NO.
75a

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

STRUCTURE NO. 77, Normanstone Dr. Extended, West of Rock Creek, N.W.
 This structure was previously a Combined Sewer Overflow; however, the upstream drainage area has since been separated with this structure now conveying Stormwater. (See Structure No. 77a)

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.)



STRUCTURE NO.
77

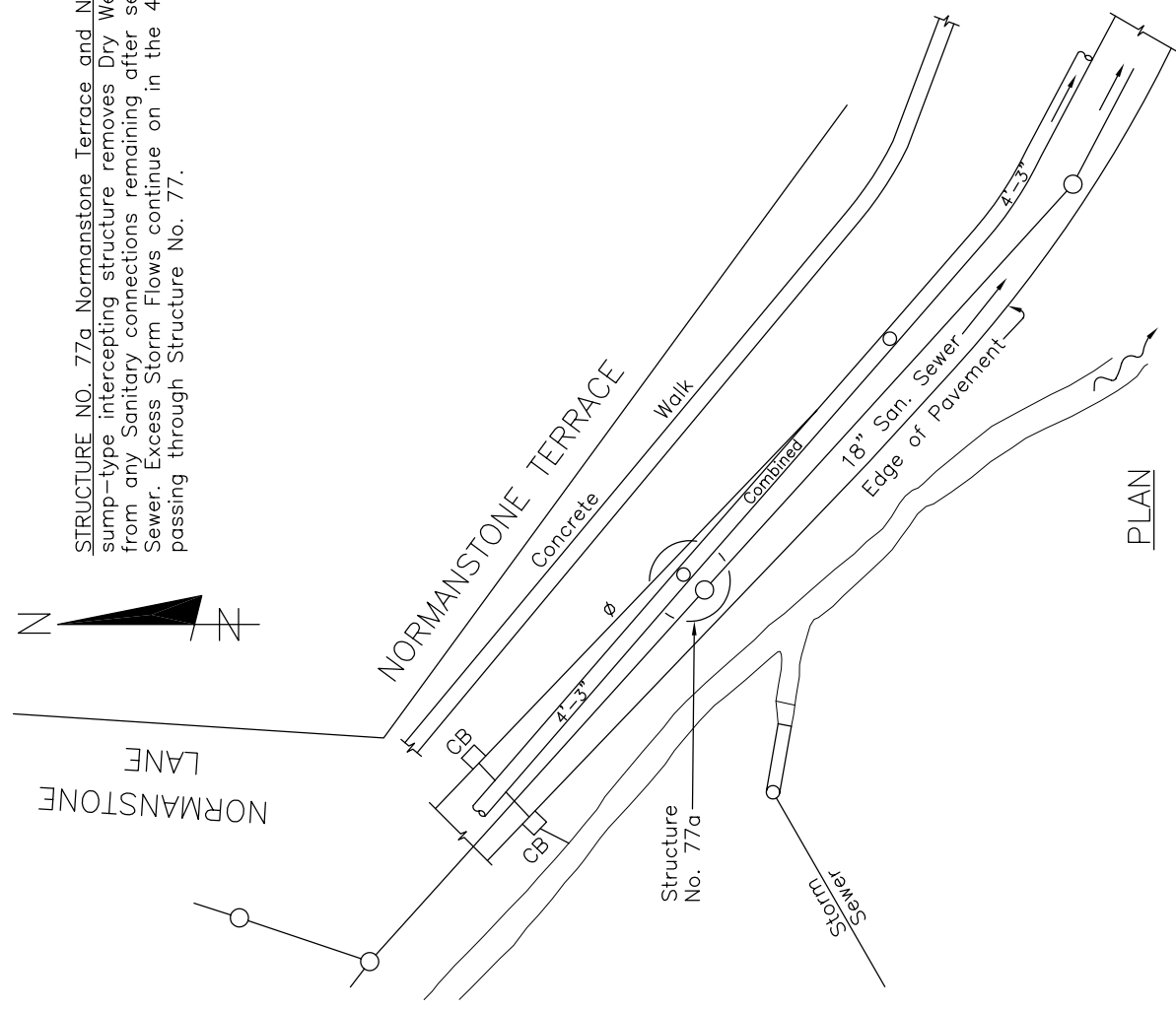
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # 056

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.

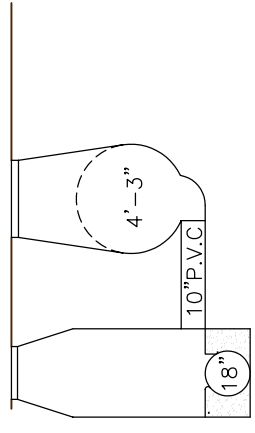


NORMANSTONE LANE

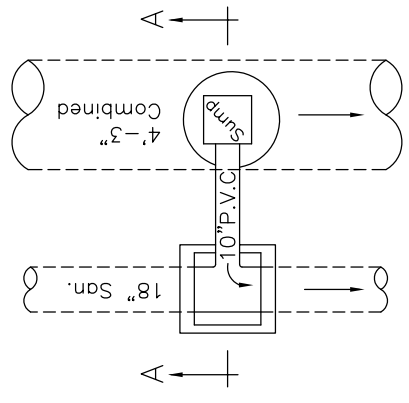
NORMANSTONE TERRACE



PLAN



SECTION A-A



DETAILS



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

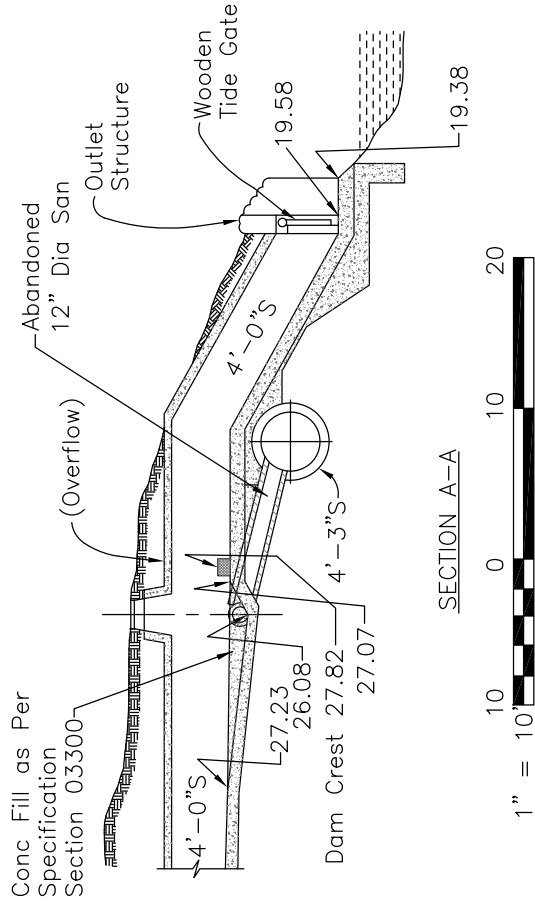
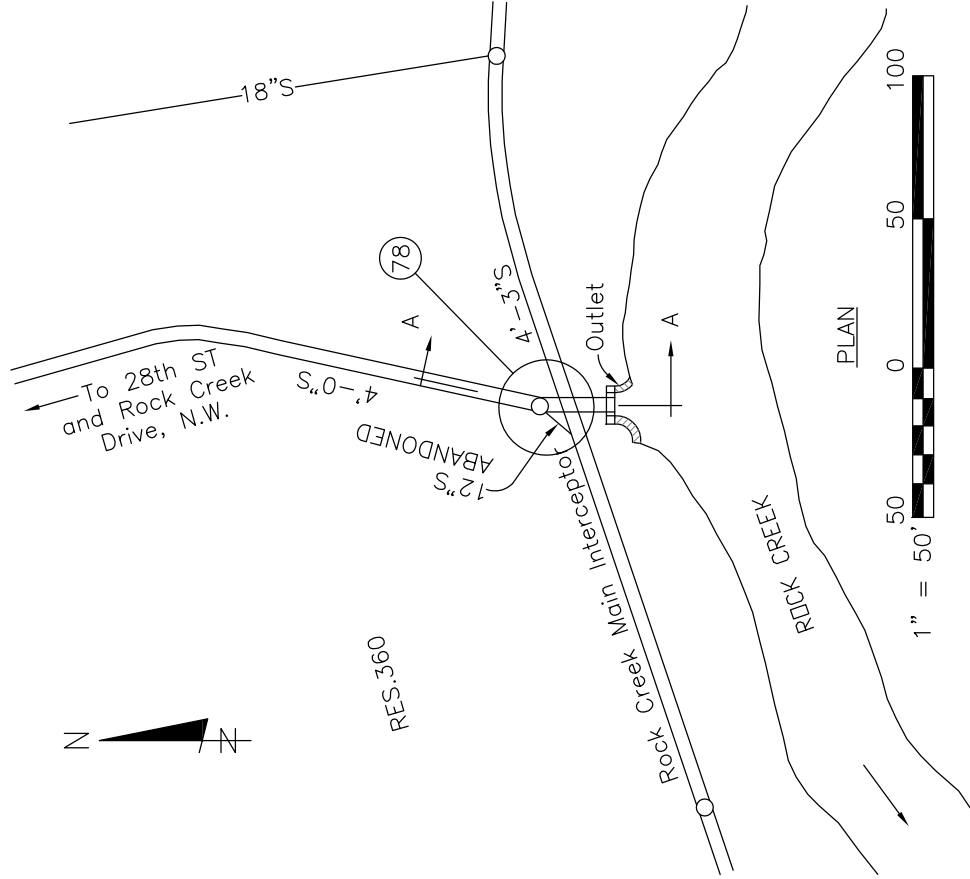
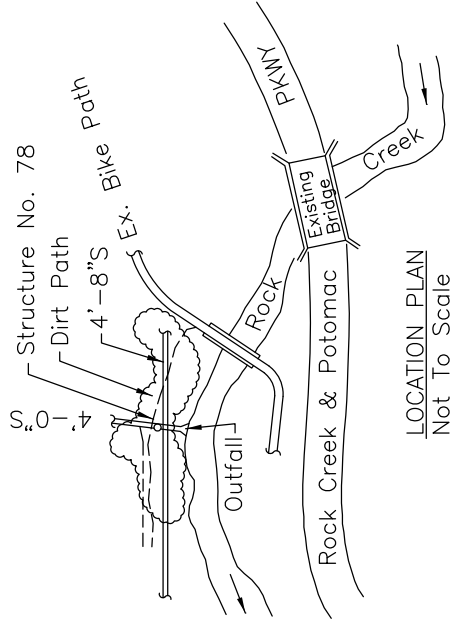
STRUCTURE NO.
77a

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.



REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2015
 ASSOCIATED NPDES OUTFALL # 057

THIS OVERFLOW HAS BEEN ELIMINATED
 BASED ON UPSTREAM SEPARATION

STRUCTURE NO.
78

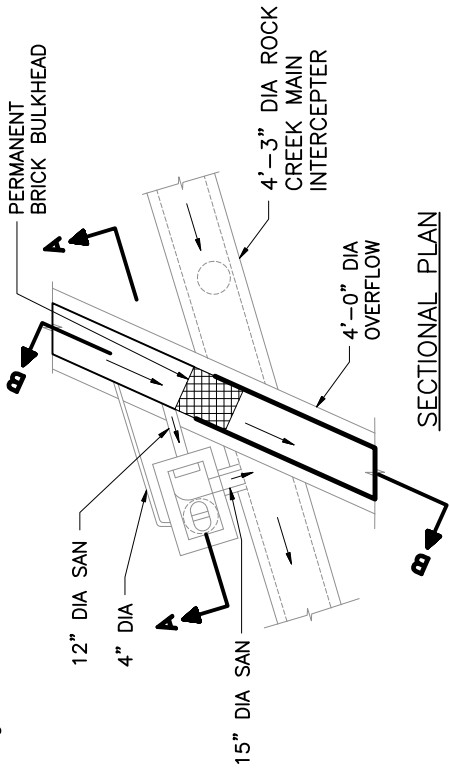
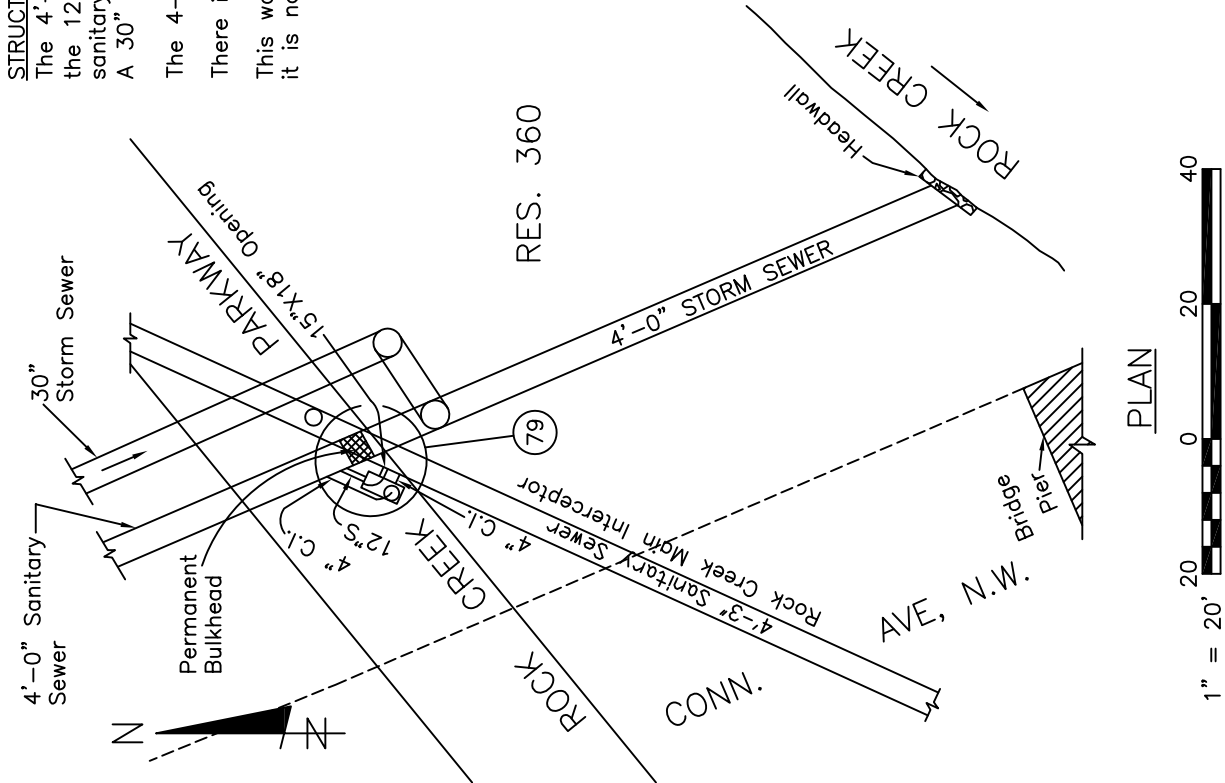
STRUCTURE NO. 79, Connecticut Avenue and Rock Creek Parkway, N.W.

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.

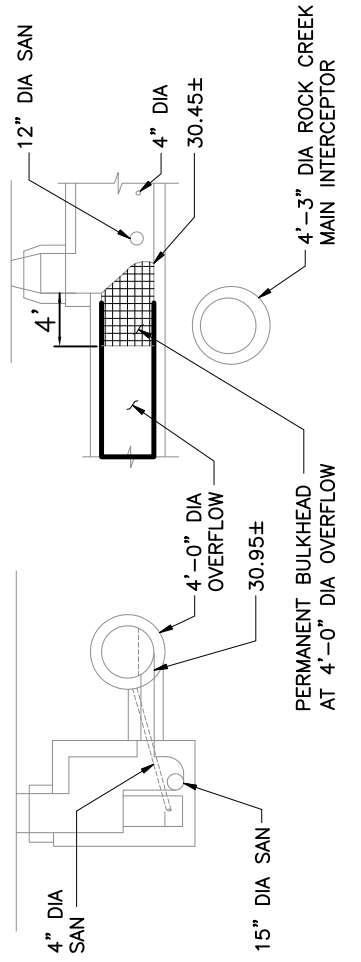
The 4-ft. Storm Sewer line discharges into Rock Creek.

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.



SECTIONAL PLAN



SECTION B-B

SECTION A-A

DETAIL

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

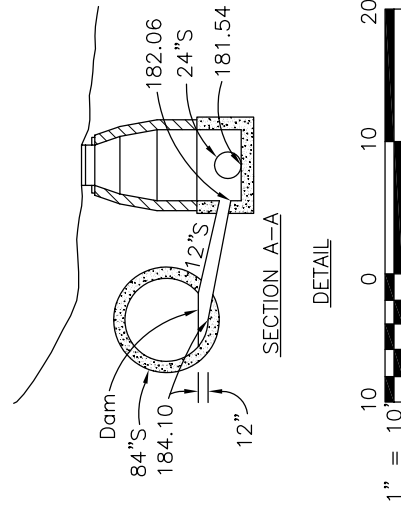
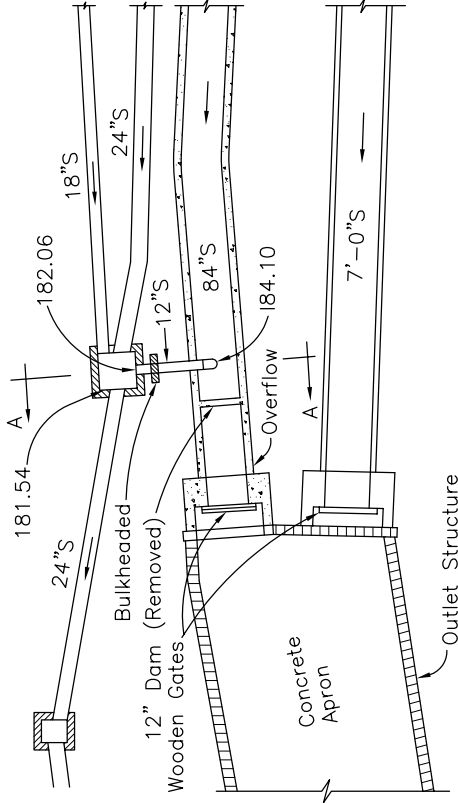
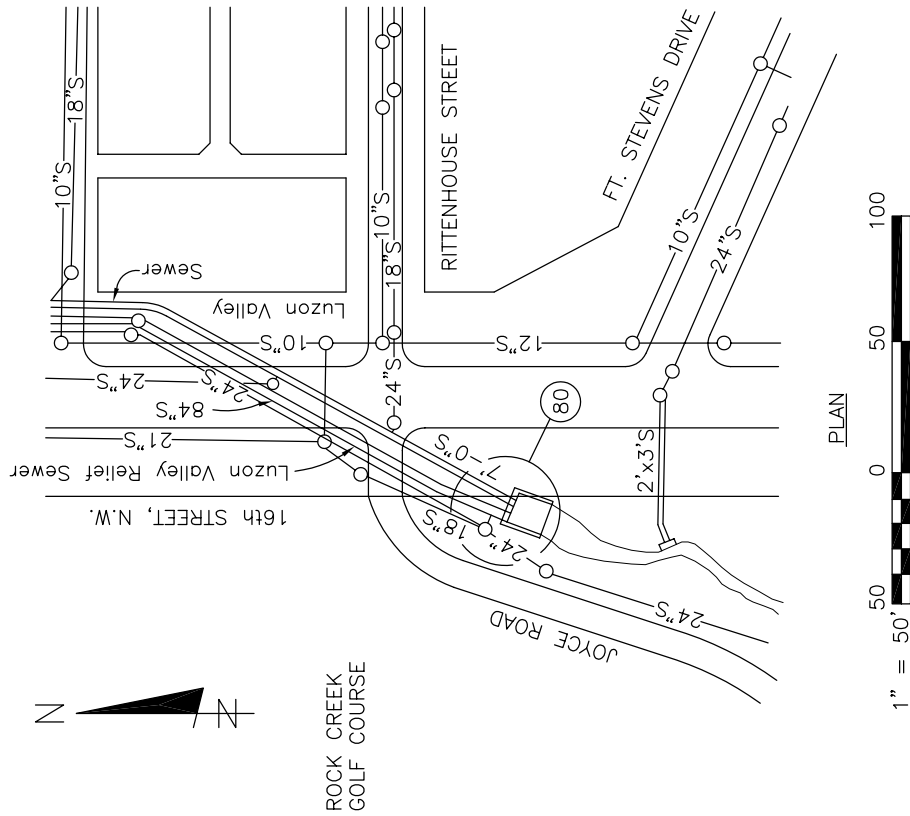
THIS OVERFLOW HAS BEEN ELIMINATED
 BASED ON UPSTREAM SEPARATION

STRUCTURE NO.
79

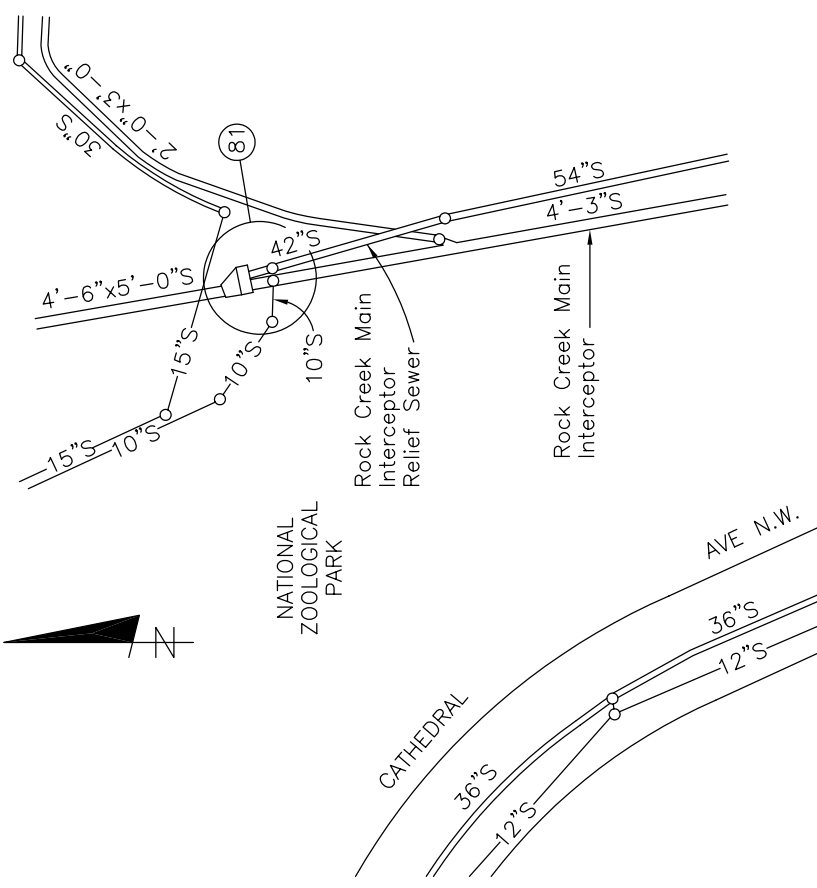
STRUCTURE NO. 80, Lozon Valley Relief Sewer, 16th and Rittenhouse Streets, N.W. This structure has a sump-type Regulator. The Storm Overflow is formed by a masonry dam. The 84-inch Combined Sewer enters the Overflow Chamber and a 12-inch intercepting connection conveys the Dry-Weather Flow into the 24-inch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

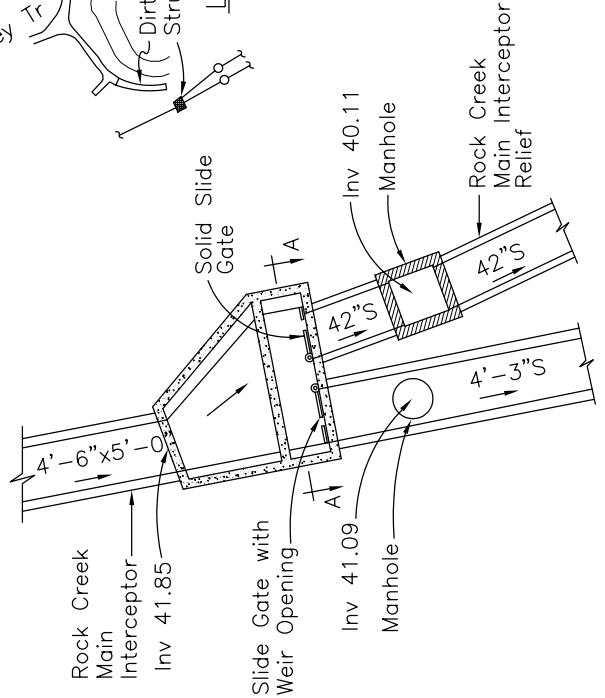
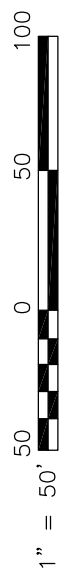
THIS OVERFLOW HAS BEEN ELIMINATED
BASED ON UPSTREAM SEPARATION.



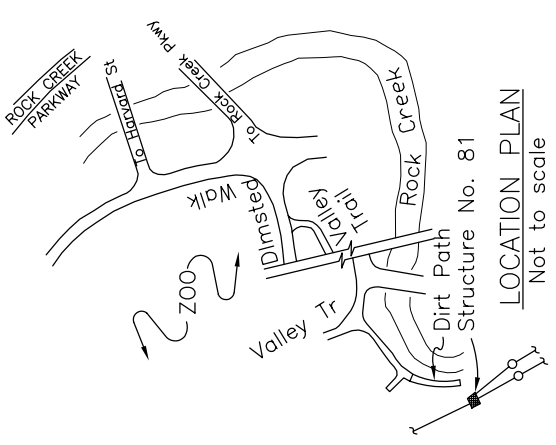
STRUCTURE NO. 81, Rock Creek Main Interceptor Relief Sewer, National Zoological Park, Northeast of Cathedral Avenue, N.W. At this Diversion Structure, the flow carried by the Rock Creek Main Interceptor can be split between the continuation of the Interceptor and the beginning of the Rock Creek Main Interceptor Relief Sewer. The exit to both sewers are equipped with Sluice Gates to control the flow. The Gate on the 42-inch Relief Interceptor is solid, however, the Gate on the 4-ft. 3-in. Interceptor has a V-notch orifice cut out so that when the Gate is closed the low point in the opening is 1.25 feet above the invert. (As of January, 1980 both Gates are normally in an open position.)



PLAN



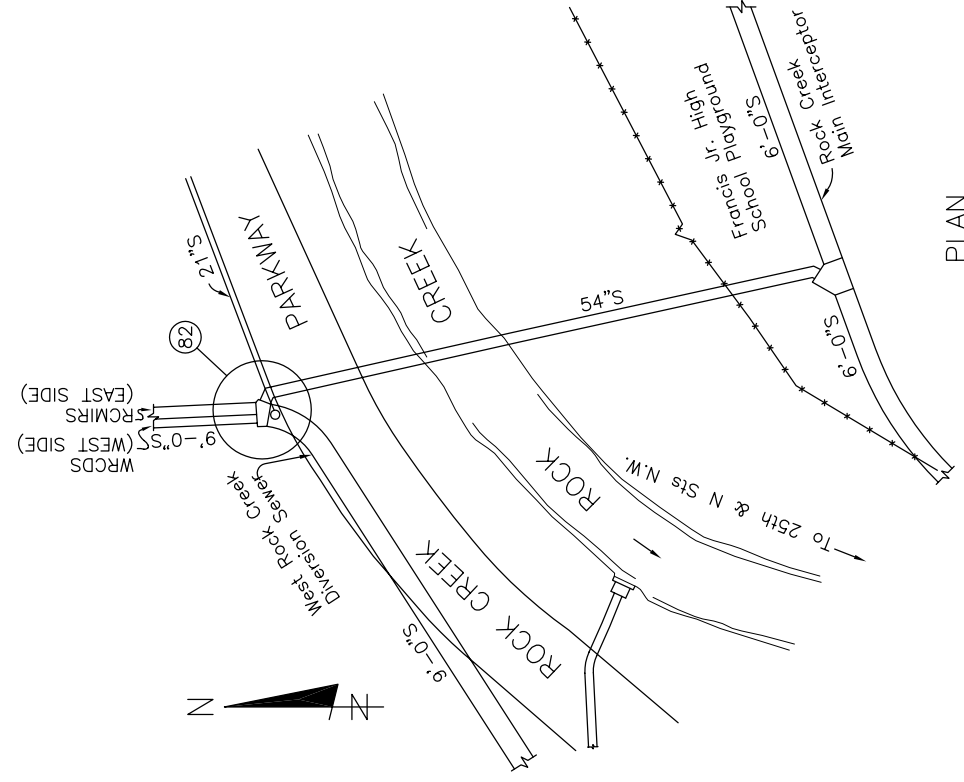
SECTION A-A



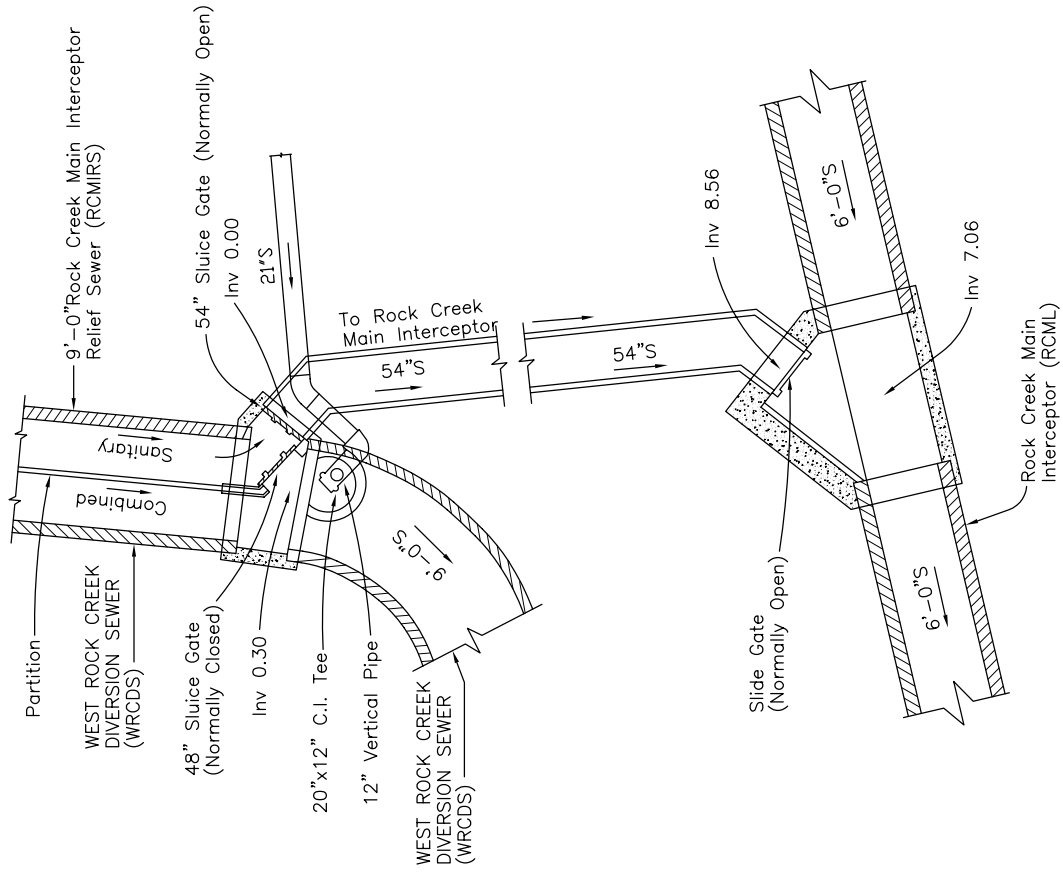
LOCATION PLAN
Not to scale

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

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.



PLAN



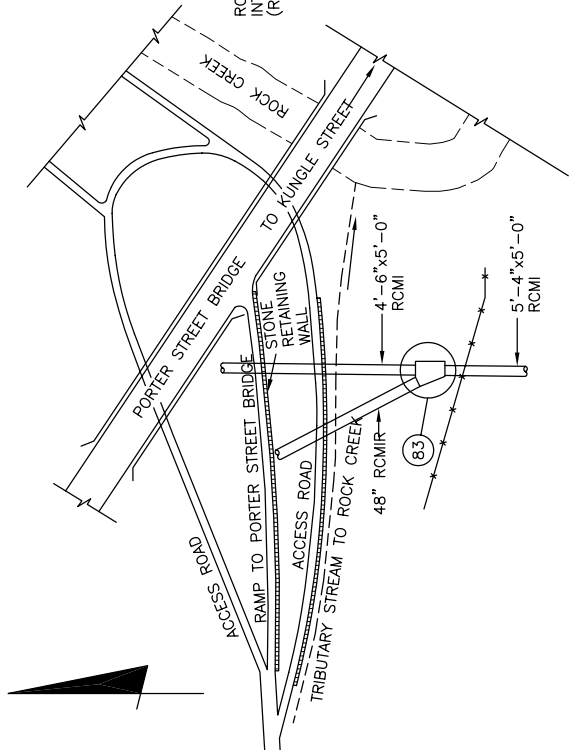
DETAIL

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

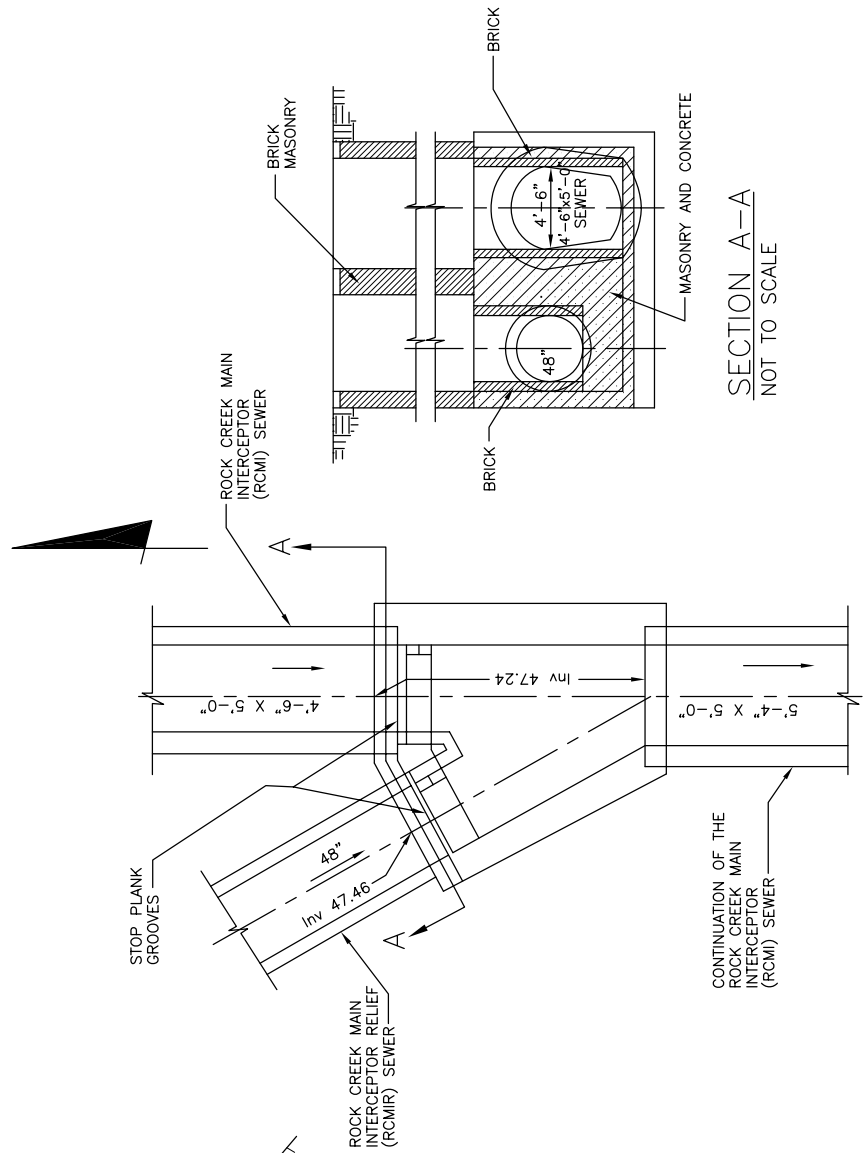
STRUCTURE NO.
 82

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 (RCM) with the 5'-4" x 5'-0" continuation of the RCM. (See Structure No. 83A & 83B for location on upstream initiation of Relief Sewer).



LOCATION PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE

PLAN - STRUCTURE 83
NOT TO SCALE

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

STRUCTURE NO.
83

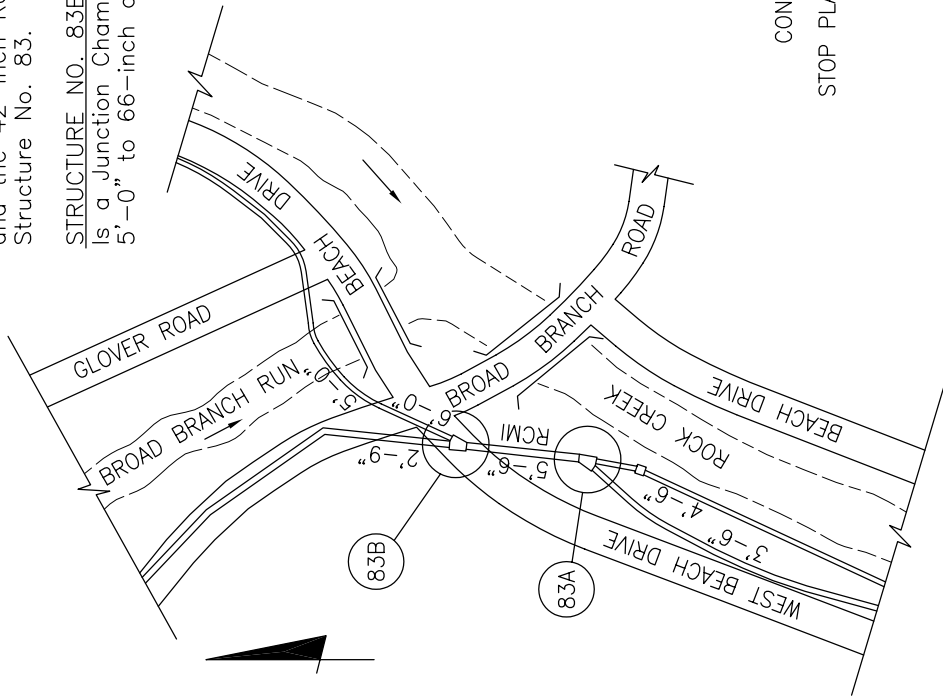
STRUCTURES NO. 83A AND 83B – ROCK CREEK MAIN INTERCEPTOR SPLIT

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.

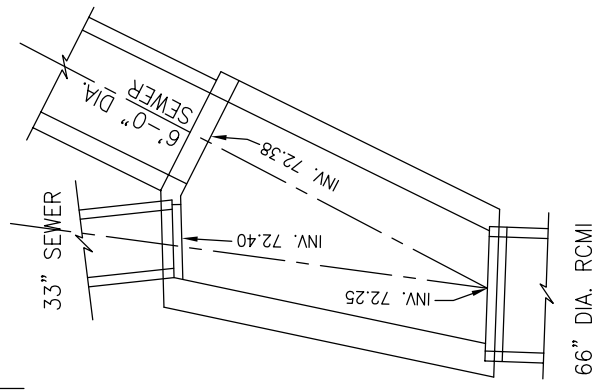
STRUCTURE NO. 83B

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

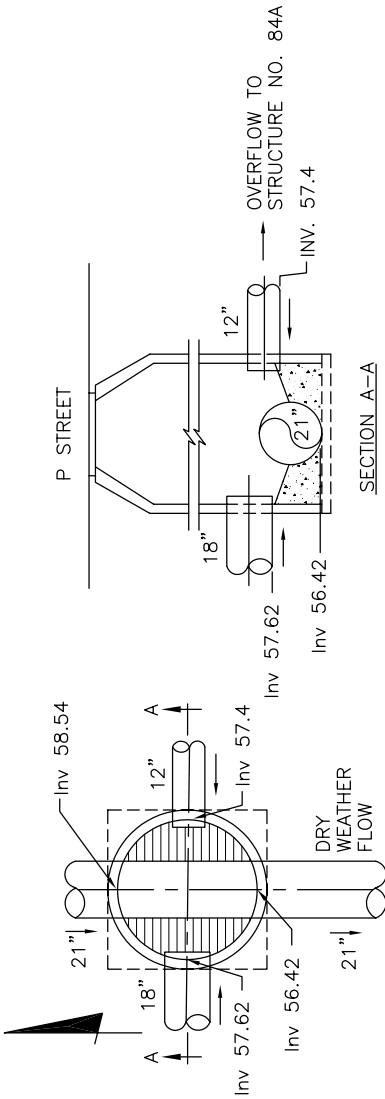
STRUCTURE NO. 84 & 84A

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

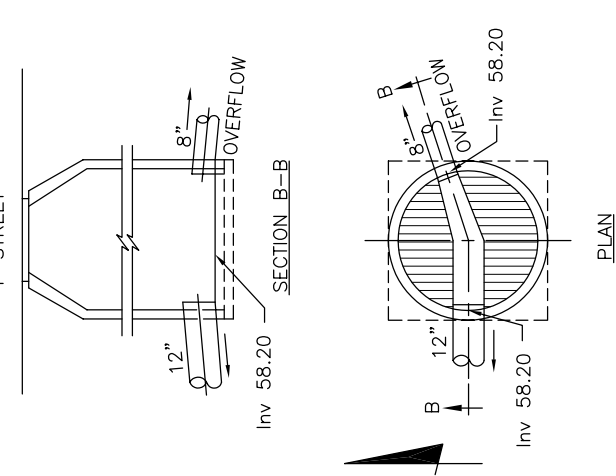
This structure consist of the 21-inch 26th Street Sewer which intercepts the P Street Sewer at the intersection of 26th and P Street. During low flow conditions, the 21-inch 26th Street Sewer intercepts the 18-inch and 12-inch P Street Sewer at this structure. Dry Weather Flow continues down 26th Street 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.

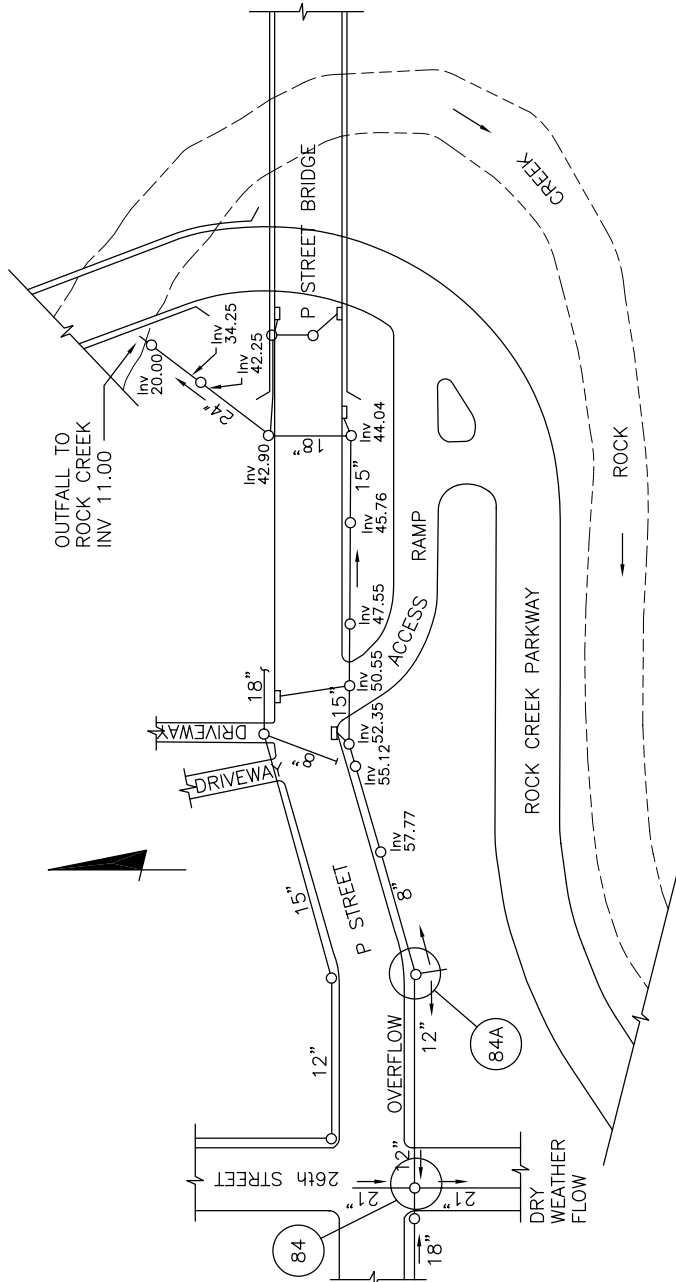
This structure consist of the 12-inch P Street Sewer and the 8-inch P Street Sewer. During high flow conditions, flow may overflow from the 12-inch P Street Sewer into the 8-inch P Street Sewer. The flow will continue east on P Street and discharge into Rock Creek.



STRUCTURE NO. 84
NOT TO SCALE



STRUCTURE NO. 84A
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 060

STRUCTURE NO.
84, 84a

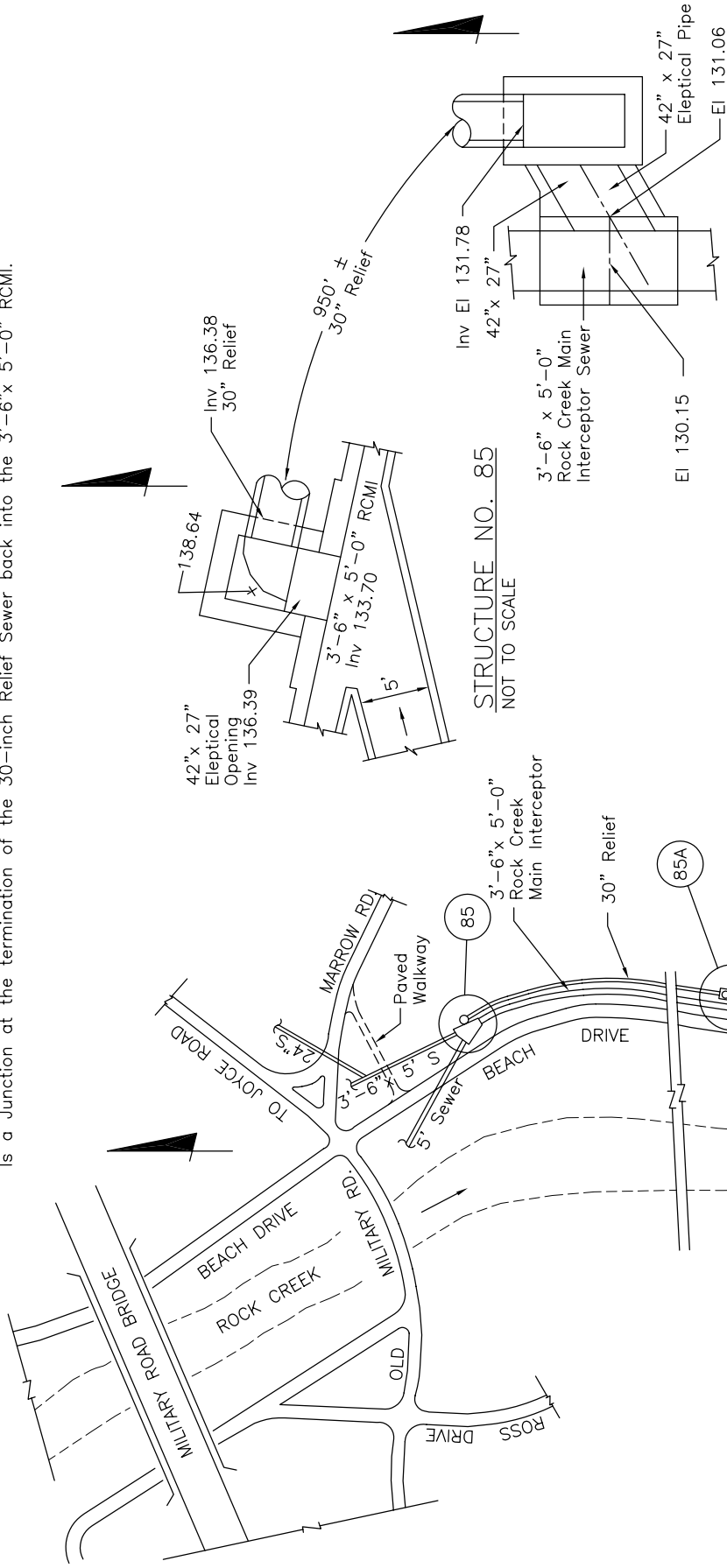
STRUCTURES NOS. 85 & 85A — ROCK CREEK MAIN INTERCEPTOR SPLIT

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.



STRUCTURE NO. 85
NOT TO SCALE

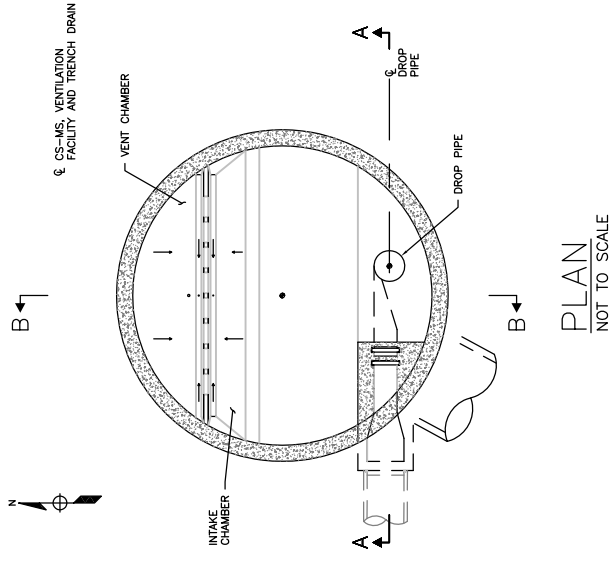
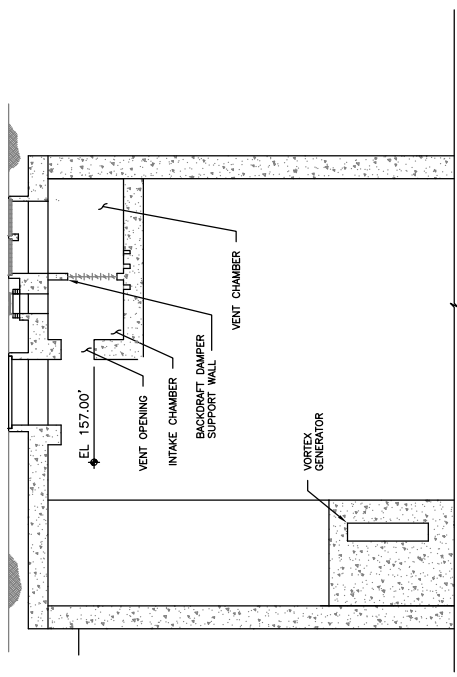
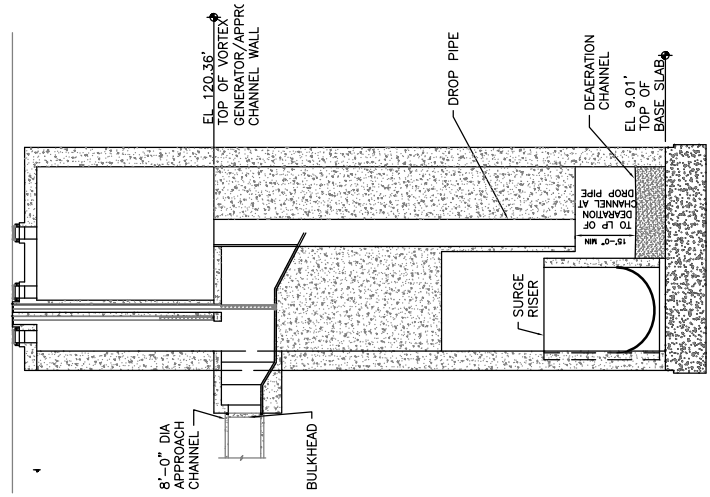
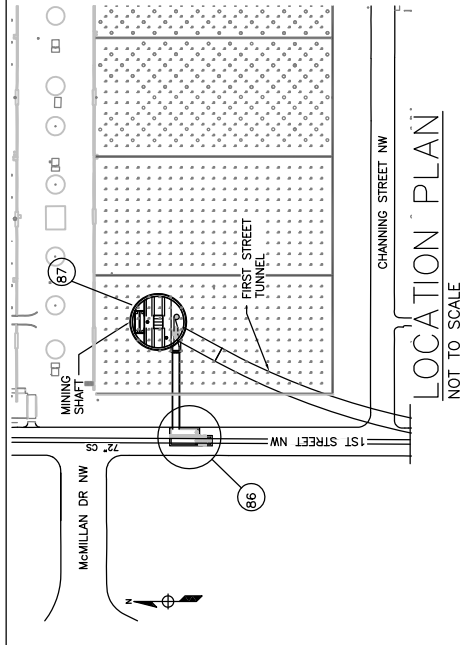
STRUCTURE NO. 85A
NOT TO SCALE

LOCATION PLAN
NOT TO SCALE

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

STRUCTURE NO.
85 & 85a

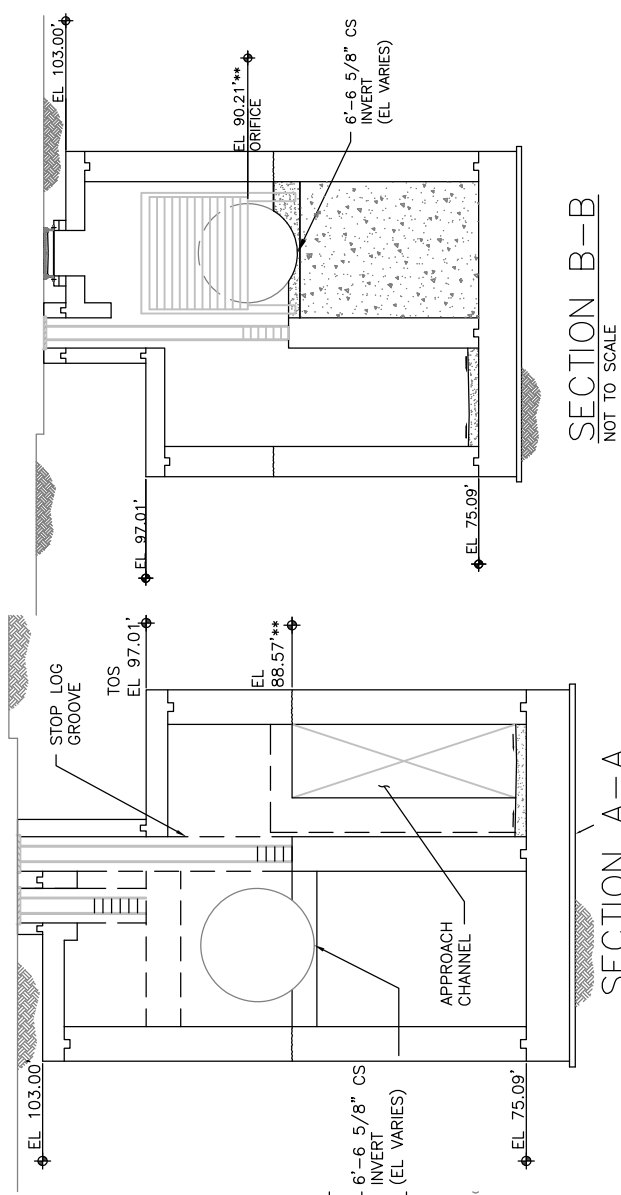
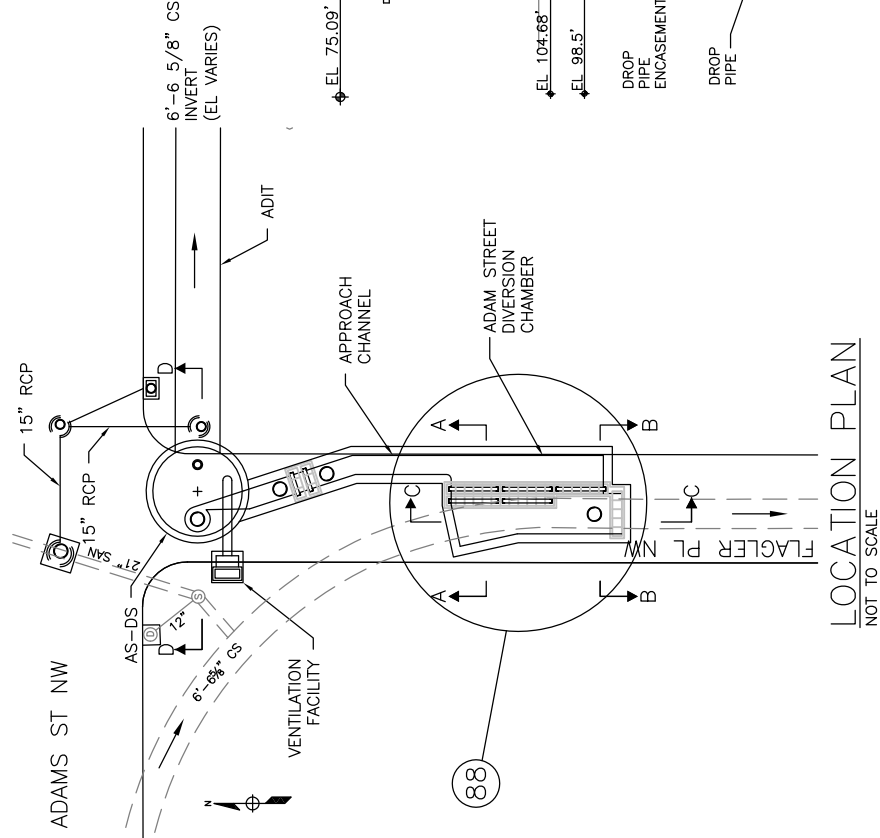
Structure No.87, First Street NW
 Until First Street Tunnel is operational, the flow in 72-inch combined sewer continues to pass through structure No.86. Once tunnel is operational, flow in 72-inch combined sewer gets diverted into the tunnel up to the diversion capacity of Structure No.86.



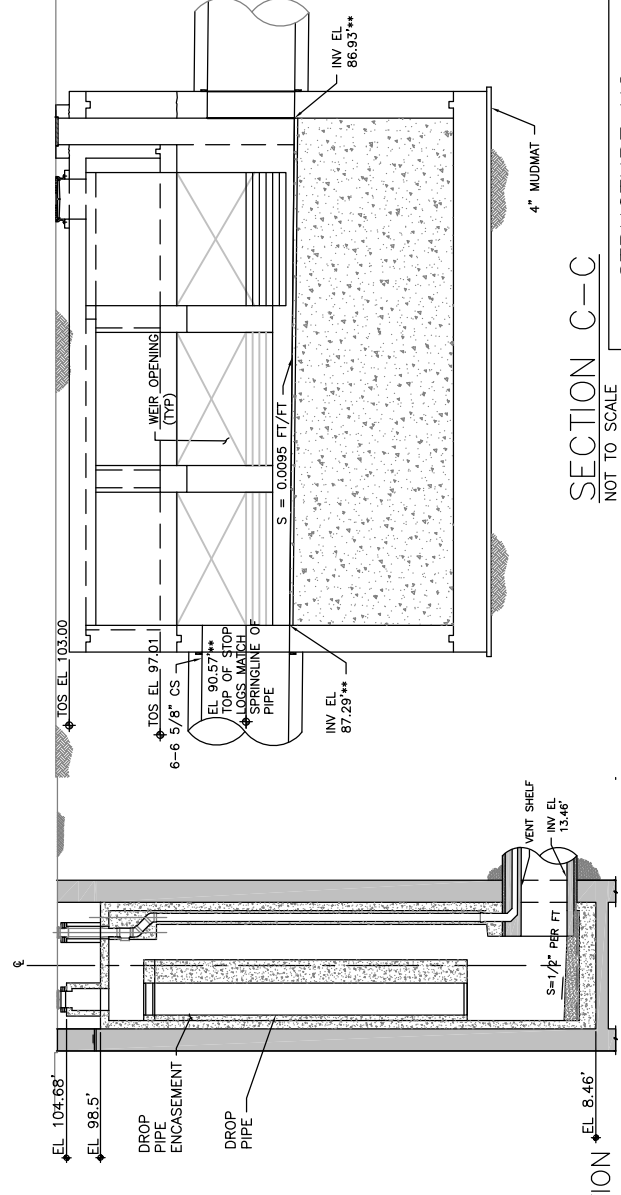
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2016
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
 87

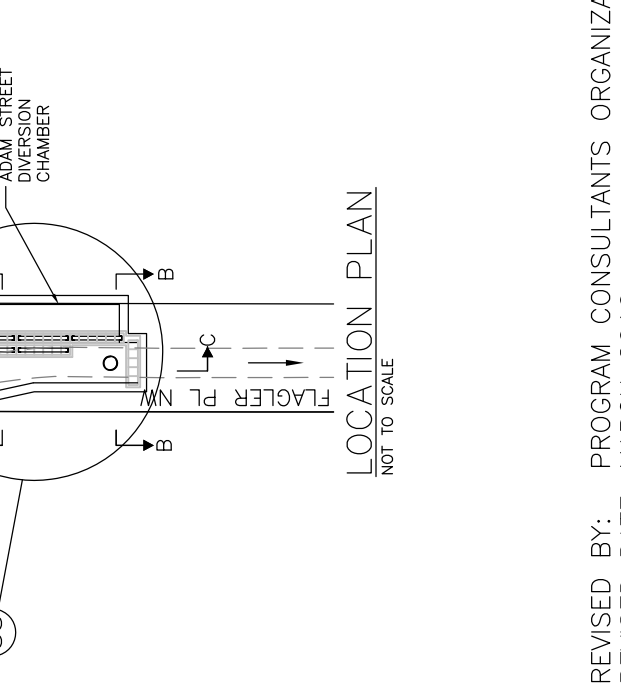
Structure No.88, Flagler Pl NW and Adams St NW
 Once the First Street Tunnel is operational, the flow in the 6'-6 3/8" combined sewer will be intercepted and diverted to the tunnel up to the diversion capacity of structure No. 86a.



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE



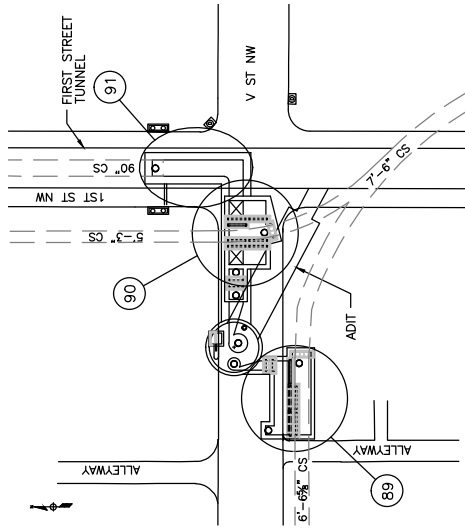
SECTION D-D
NOT TO SCALE

STRUCTURE NO.
88

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

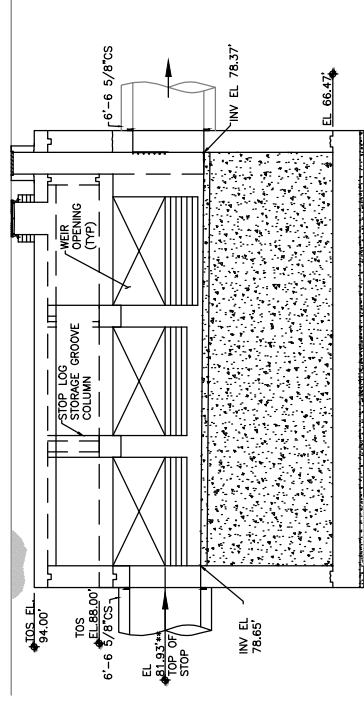
Structure No.89 V Street NW

Once the First Street Tunnel is operational, the flow in the 6'-6" sewer will be intercepted and diverted to the tunnel up to the diversion capacity of structure No.89.



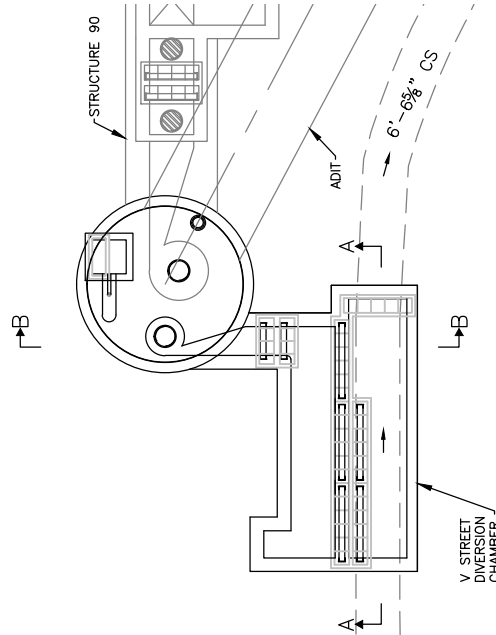
LOCATION PLAN

NOT TO SCALE



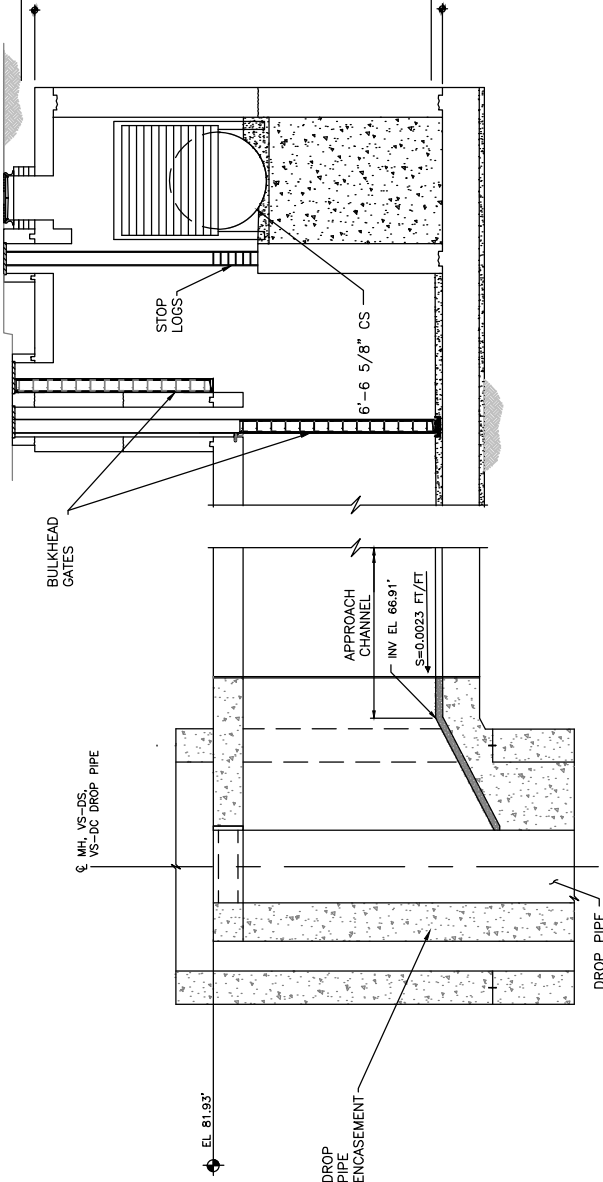
SECTION A-A

NOT TO SCALE



PLAN

NOT TO SCALE



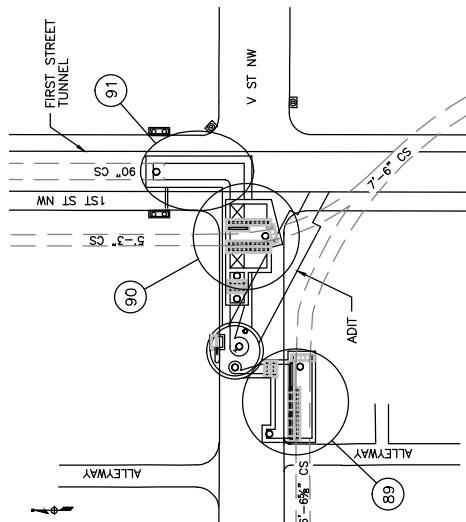
SECTION B-B

NOT TO SCALE

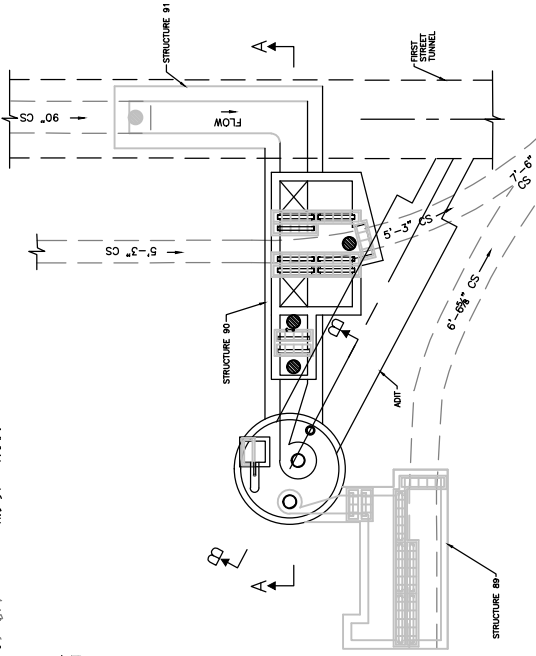
STRUCTURE NO.
89

Structure No.90 V Street NW

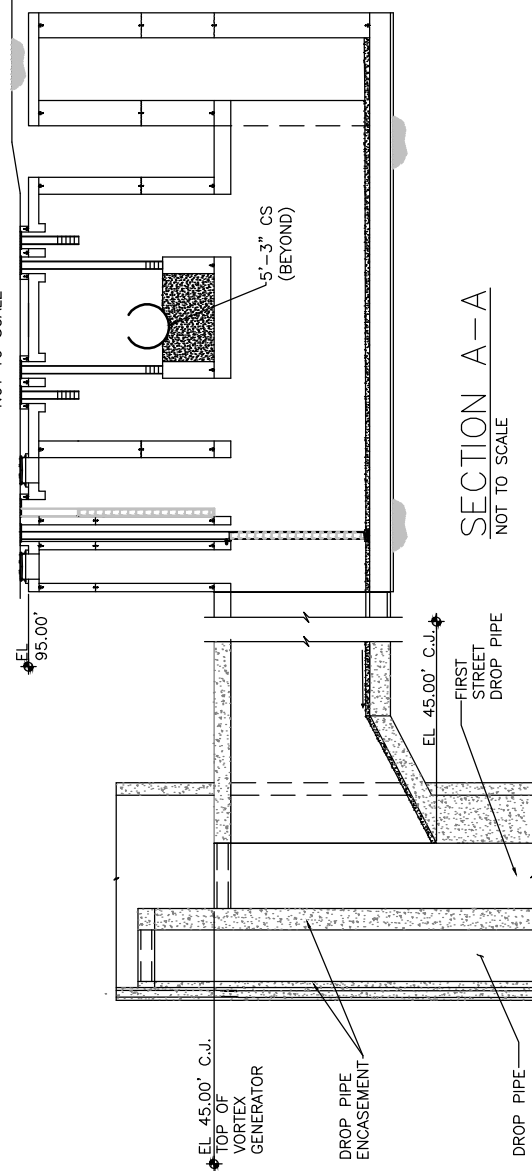
Once the First Street Tunnel is operational, the flow in the 5'-3" sewer will be intercepted and diverted to the tunnel up to the diversion capacity of structure No.90.



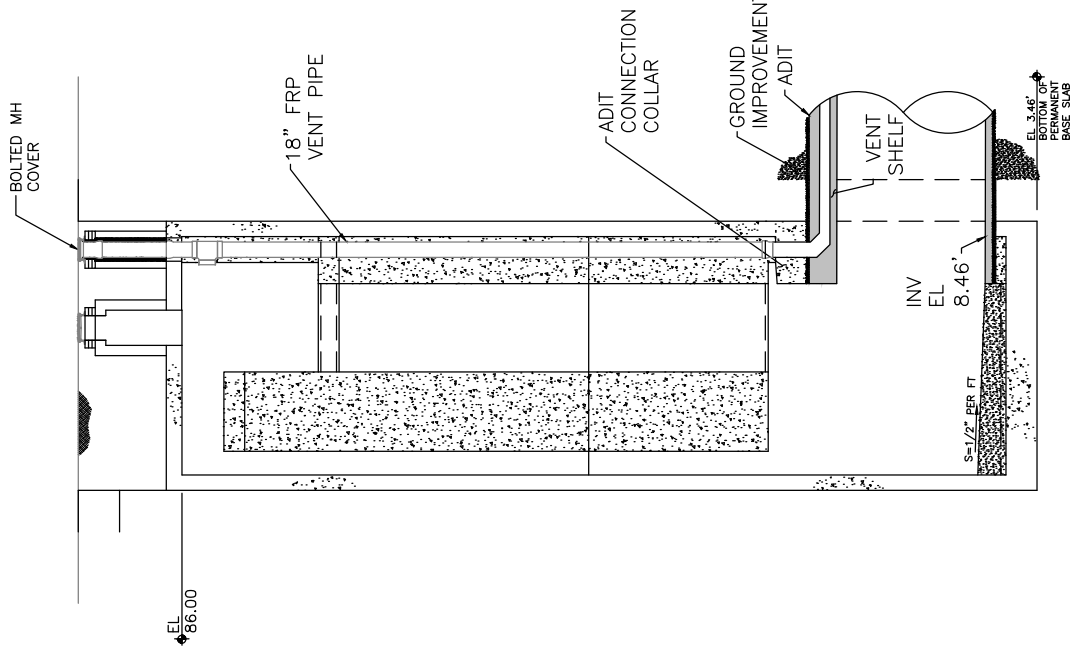
LOCATION PLAN
NOT TO SCALE



PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE



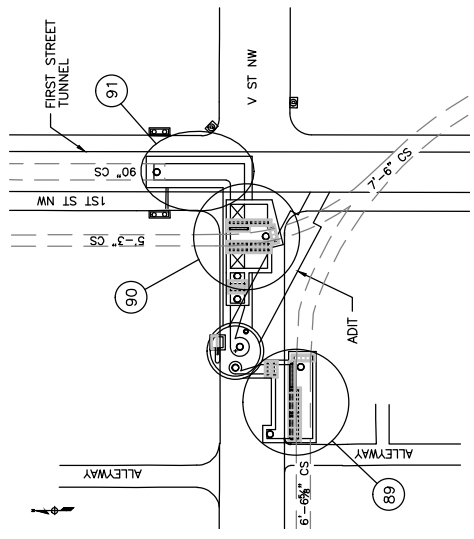
SECTION B-B
NOT TO SCALE

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

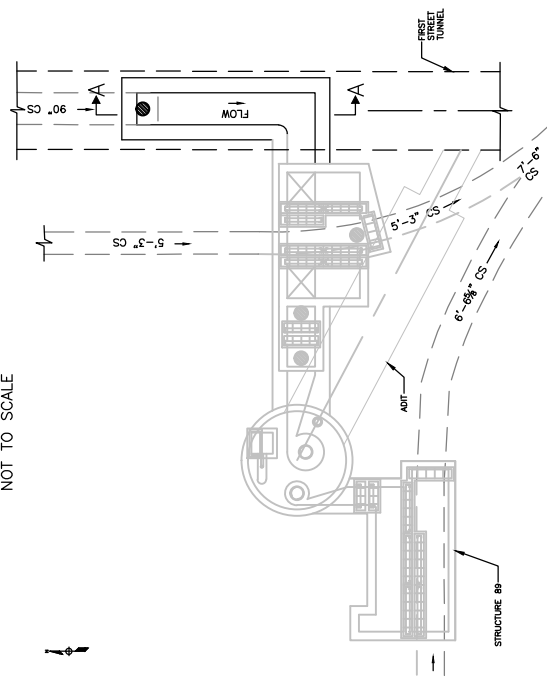
STRUCTURE NO.
90

Structure No.91, V and First Street NW

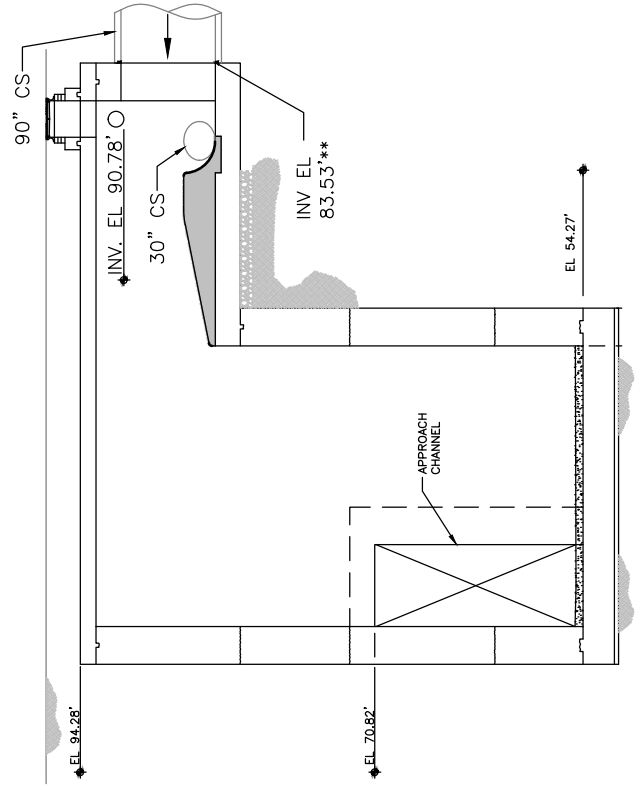
Once the First Street Tunnel is operational, the flow in the 90" sewer will be intercepted and diverted to the tunnel up to the diversion capacity of structure No.91.



LOCATION PLAN
NOT TO SCALE



PLAN
NOT TO SCALE



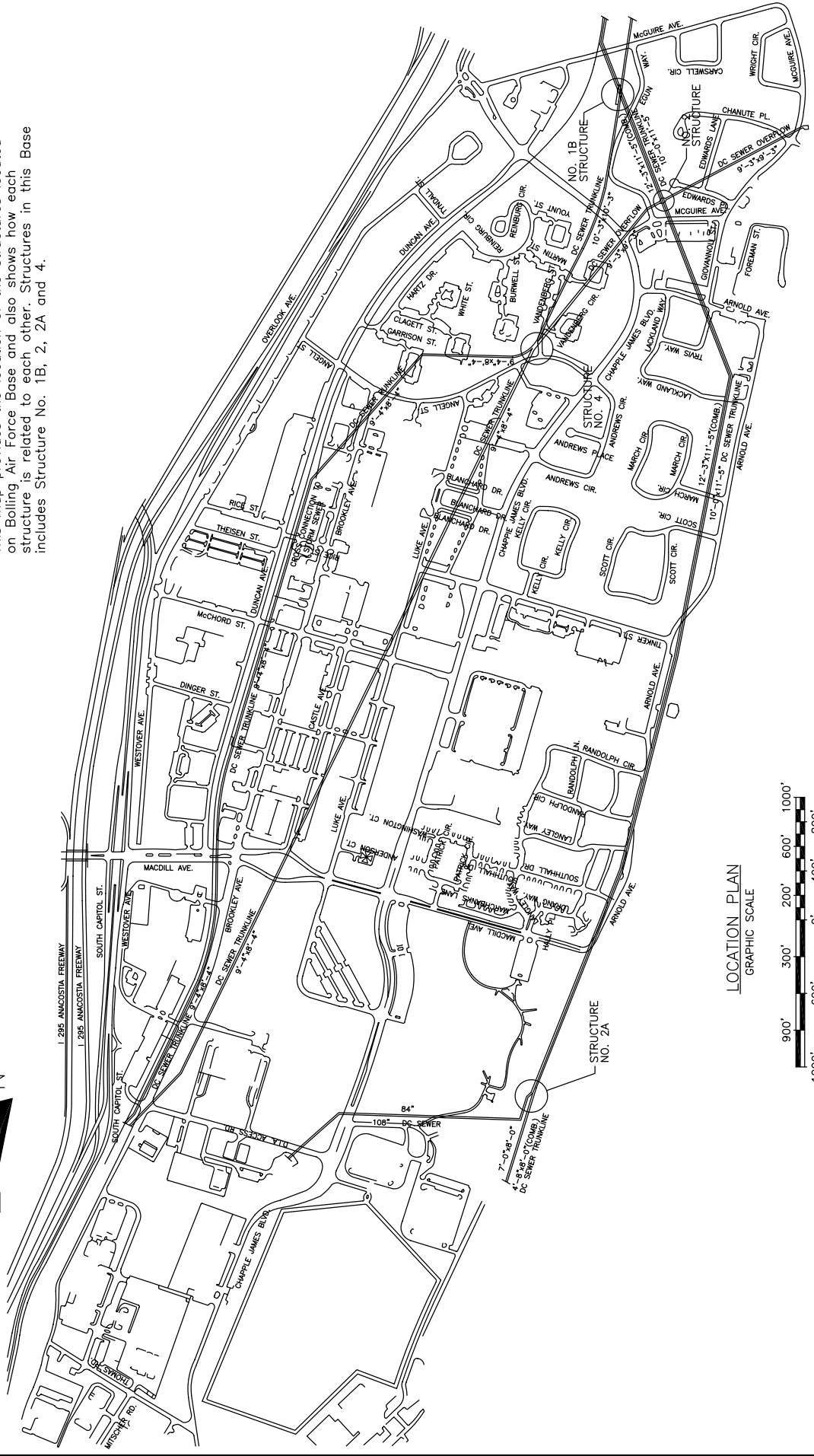
SECTION A-A
NOT TO SCALE

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

STRUCTURE NO.
91

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.



LOCATION PLAN
GRAPHIC SCALE

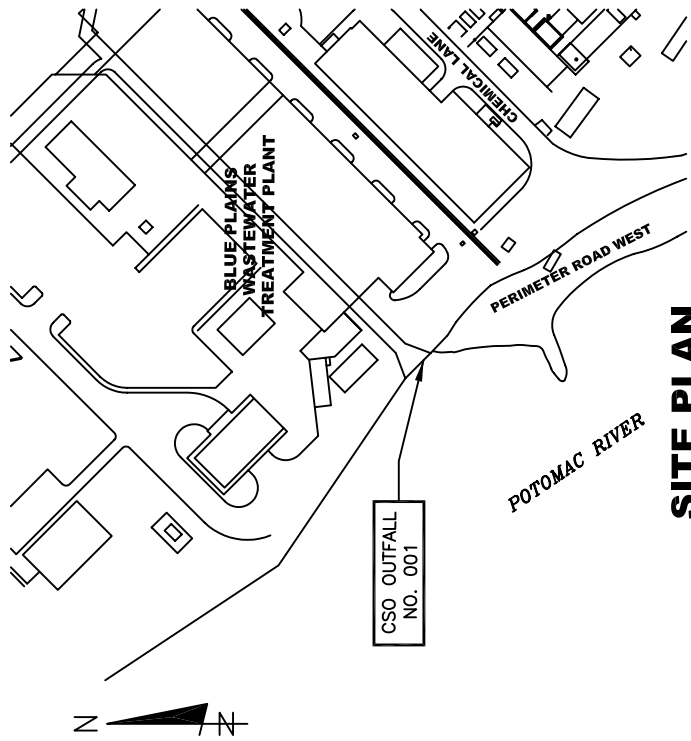


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
 BOLLING-1

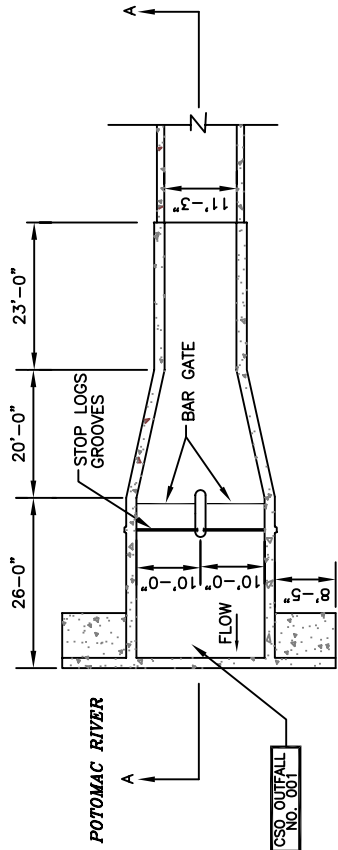
Section 3

Outfall Structures and Tide Gates



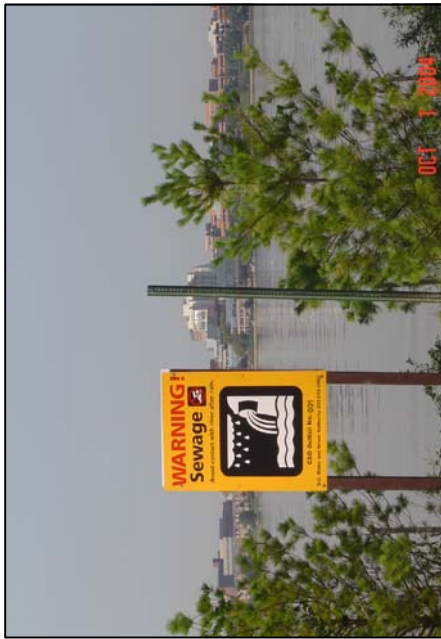
SITE PLAN

N.T.S.



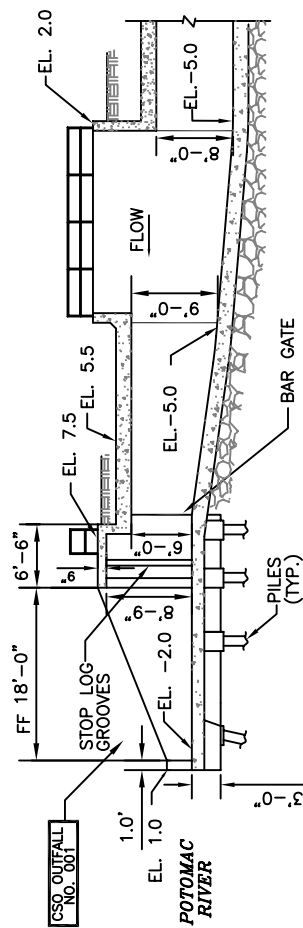
DETAIL PLAN

N.T.S.



PHOTO

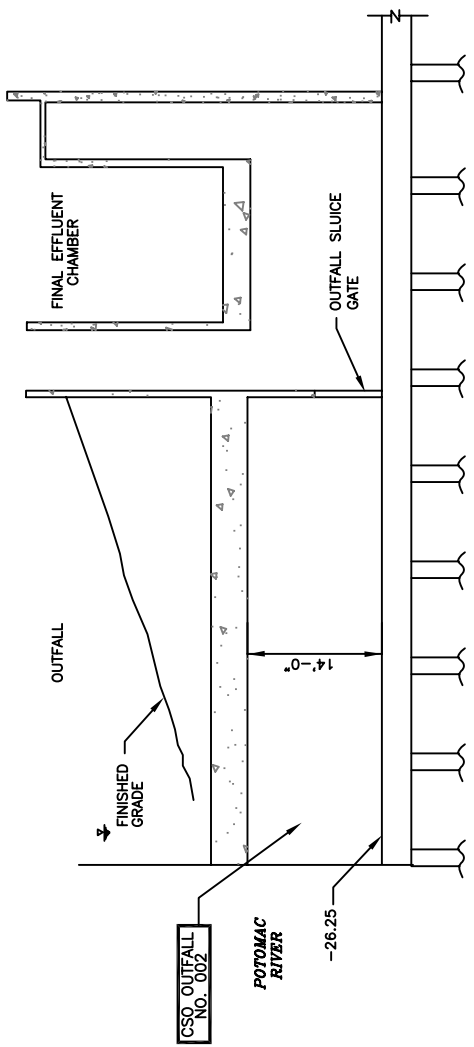
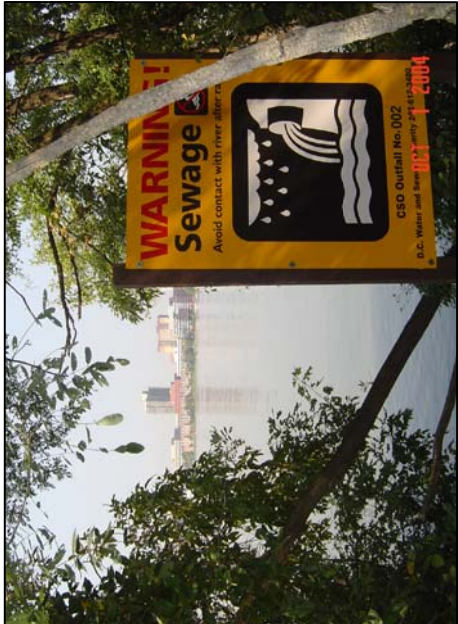
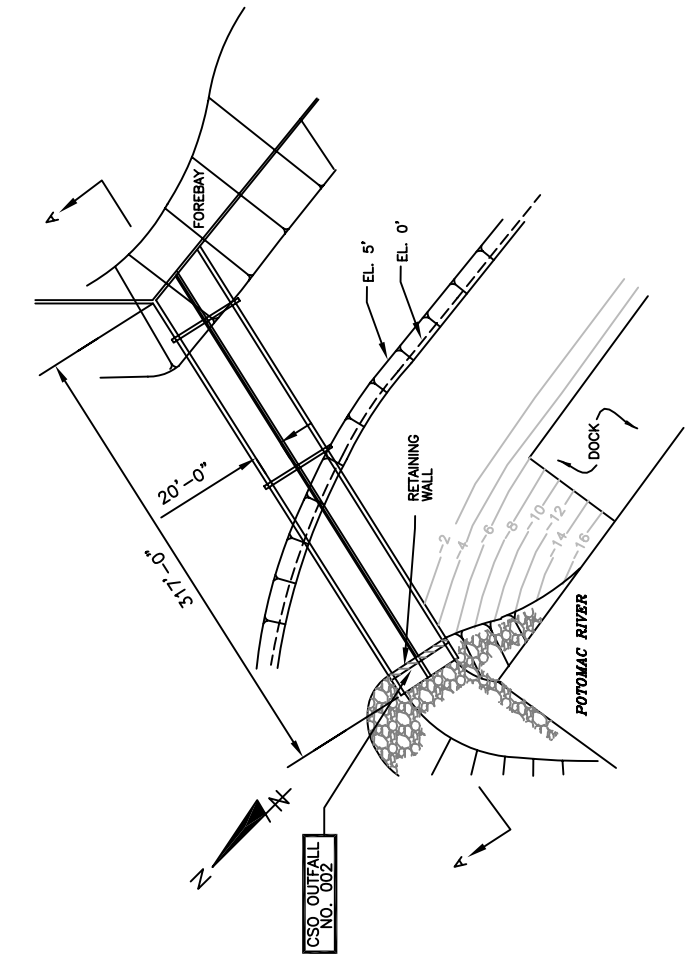
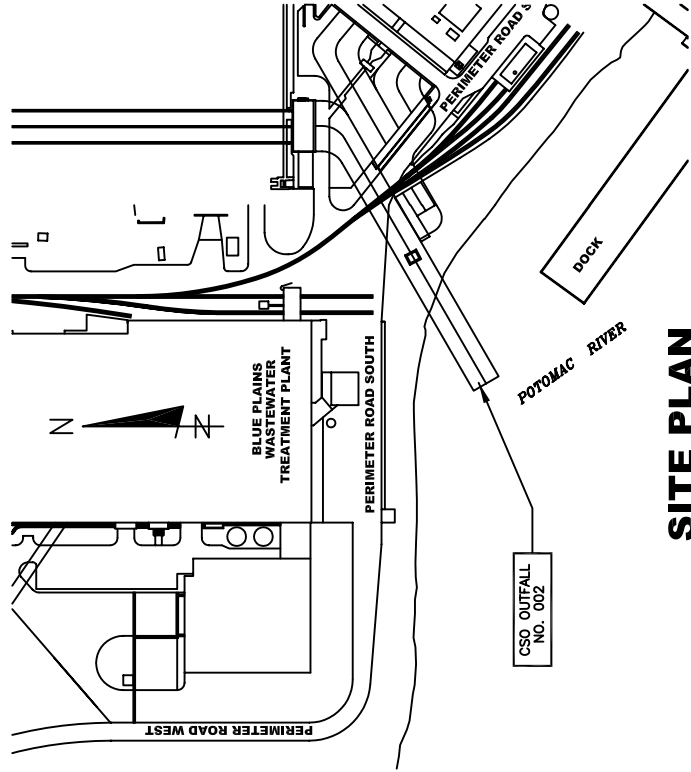
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO



SECTION A-A

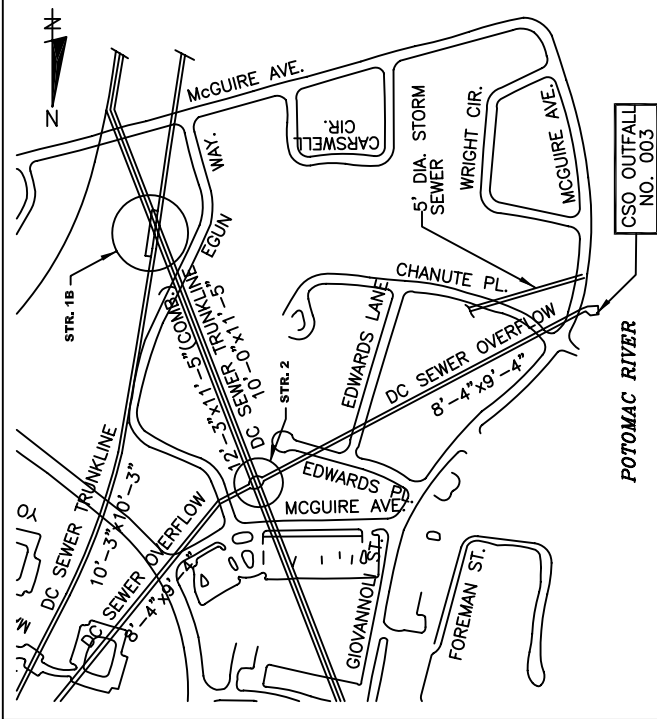
N.T.S.

NPDES NO.
001

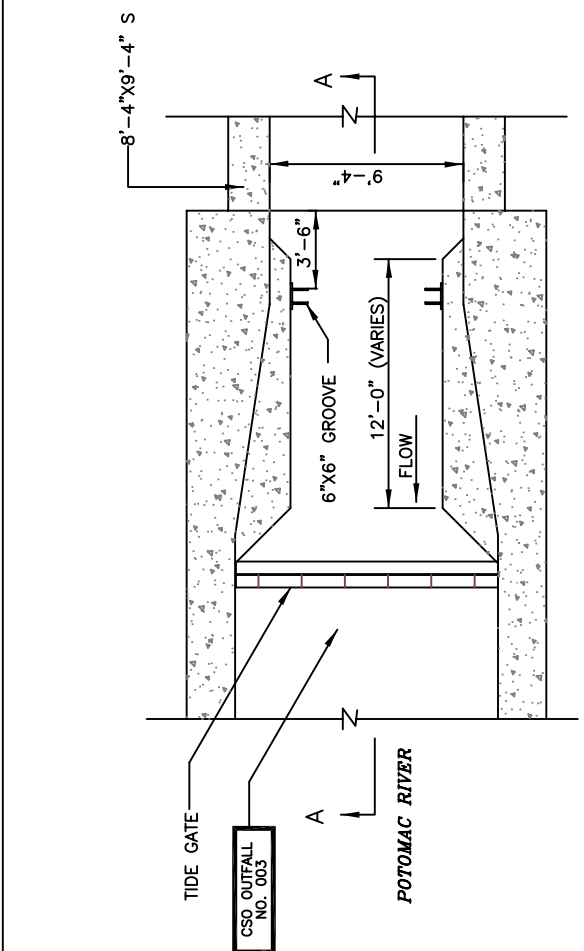


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: WWTP OUTFALL

NPDES NO.
002



SITE PLAN
SCALE: 1" = 2000'

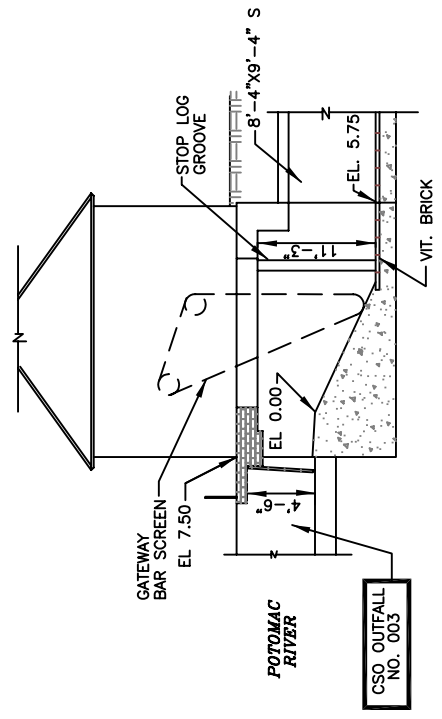


PLAN
N.T.S.



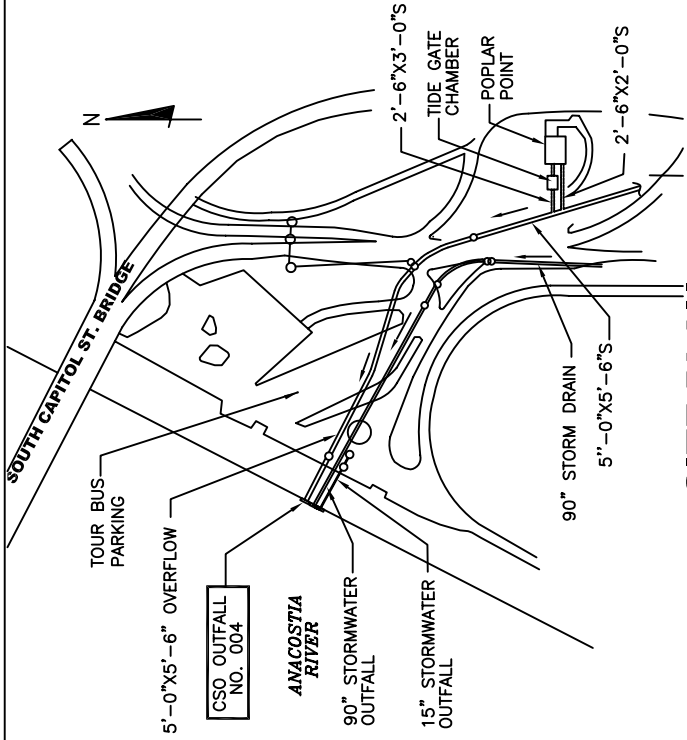
PHOTO

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



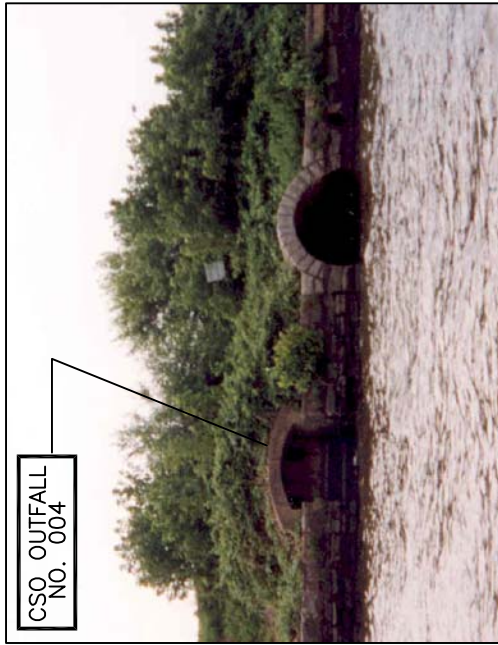
SECTION A-A
N.T.S.

NPDES NO.
003



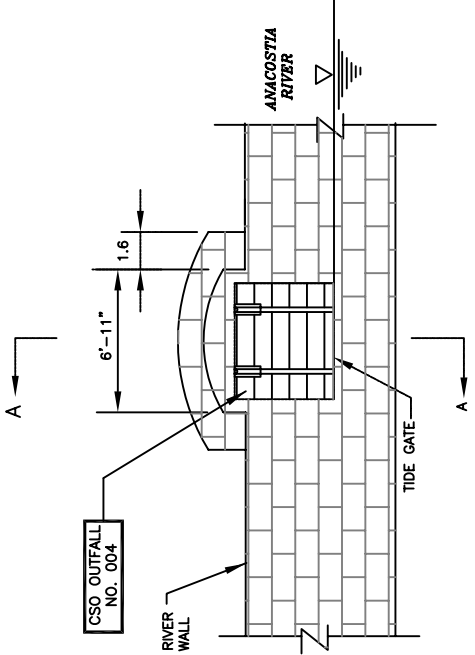
SITE PLAN

N.T.S.



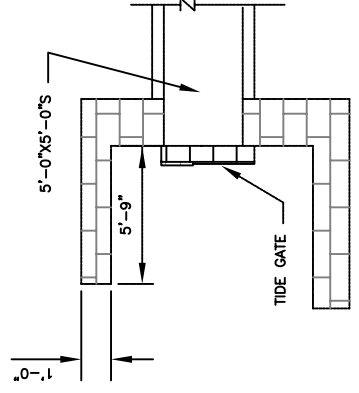
PHOTO

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



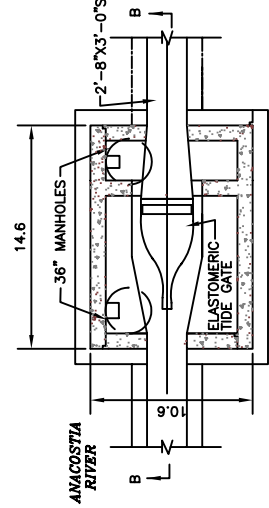
ELEVATION

N.T.S.



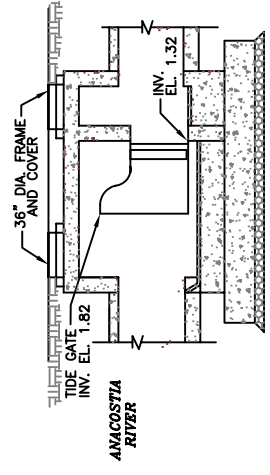
SECTION A-A

N.T.S.



TIDE GATE CHAMBER PLAN

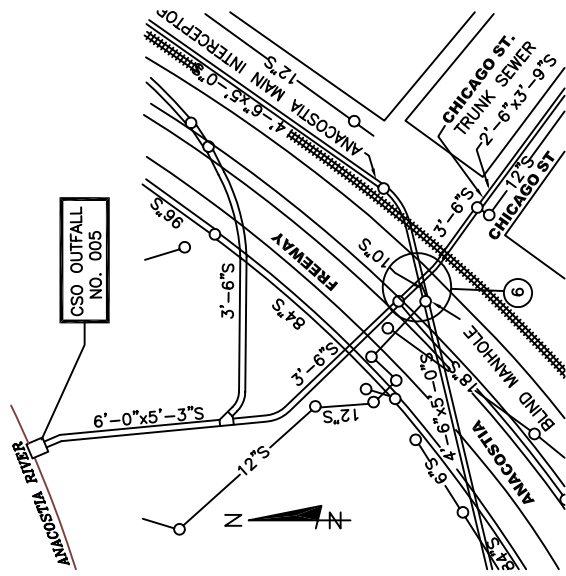
N.T.S.



SECTION B-B

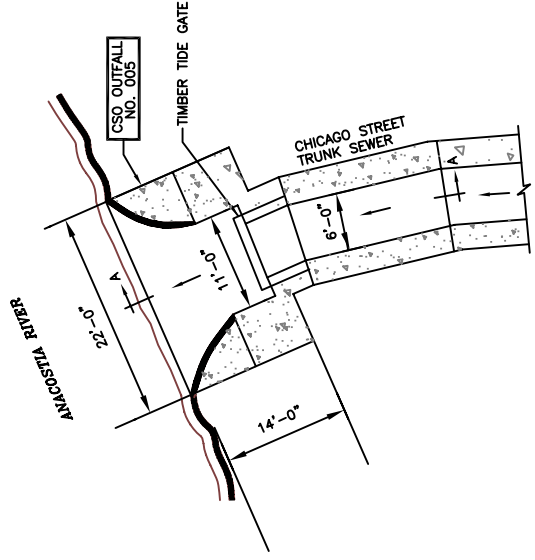
N.T.S.

NPDES NO.
004



SITE PLAN

SCALE: 1" = 200'



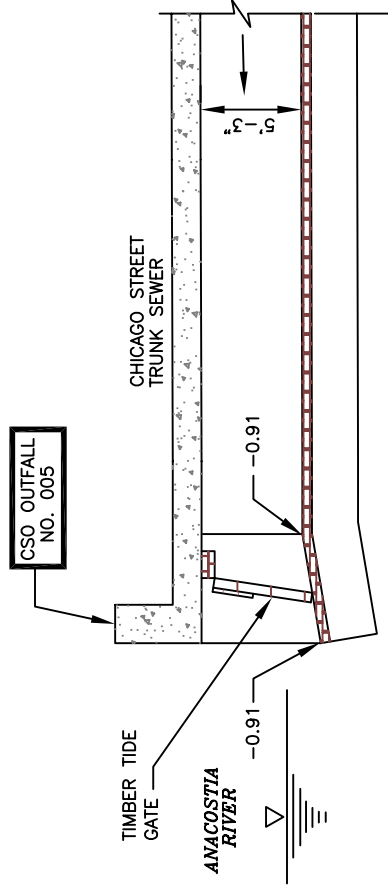
PLAN

N.T.S.



PHOTO

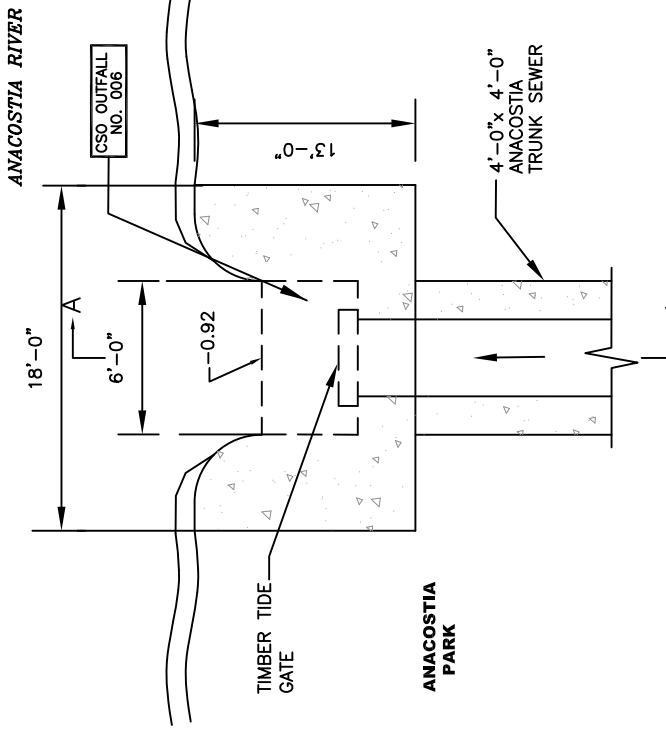
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO



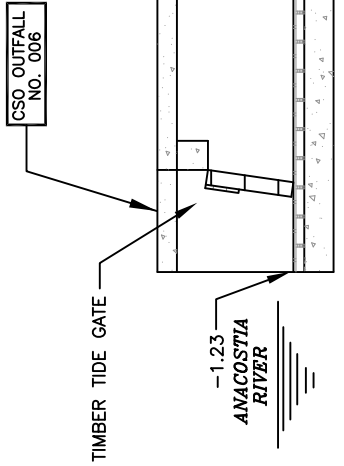
SECTION A-A

N.T.S.

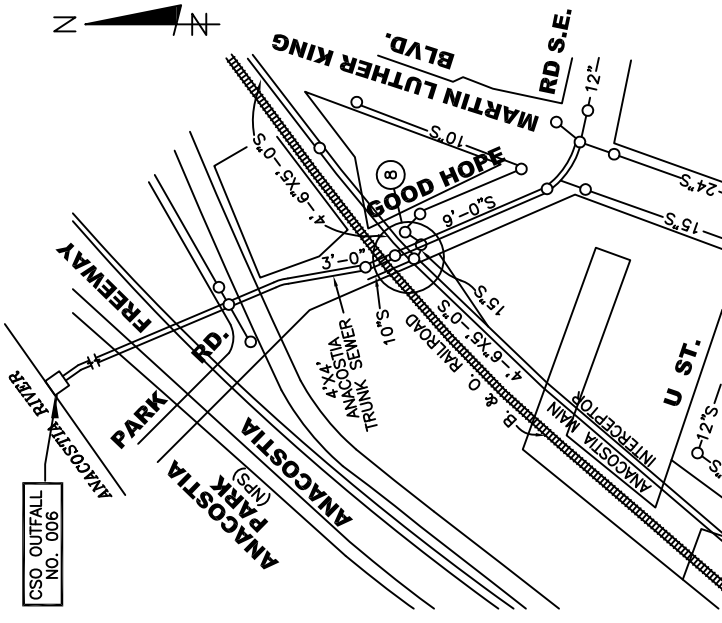
NPDES NO.
005



PLAN
N.T.S.



SECTION A-A
N.T.S.



SITE PLAN
SCALE: 1" = 200'

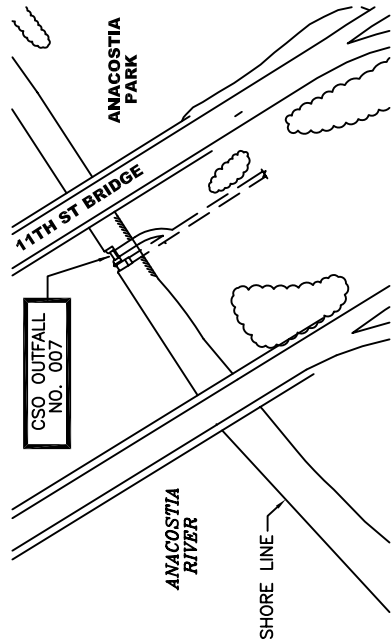


PHOTO

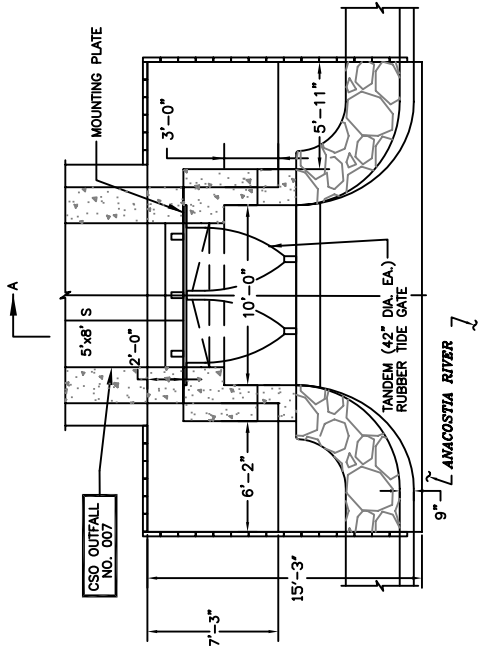
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: FEBRUARY 2012
 OUTFALL TYPE: CSO

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

NPDES NO.
006

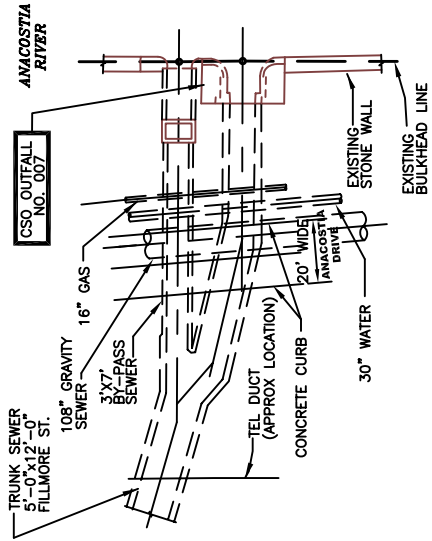


SITE PLAN
SCALE: 1" = 50'



PLAN AT EL +5.75

N.T.S.

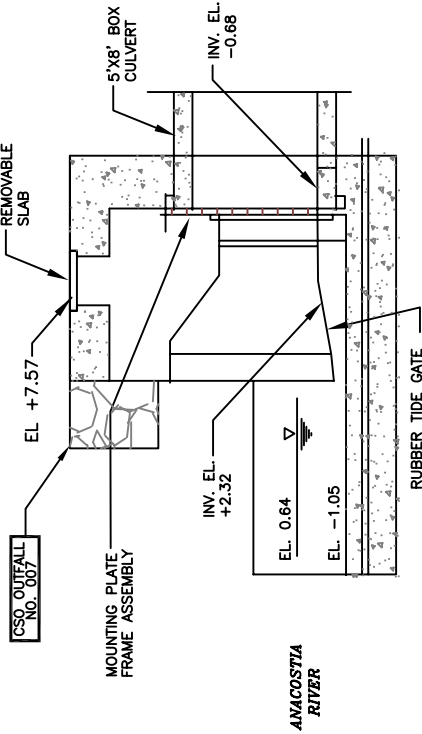


DETAIL PLAN

N.T.S.



PHOTO

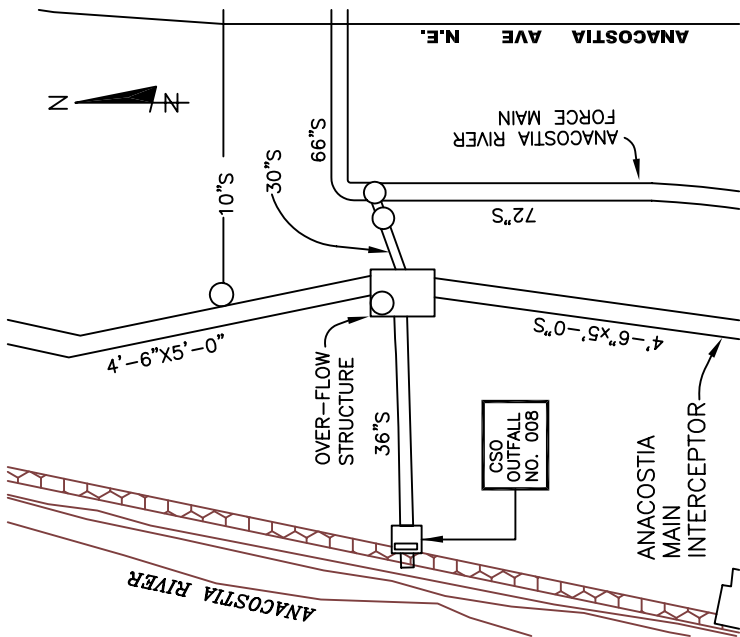


SECTION A-A

N.T.S.

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

NPDES NO.
007



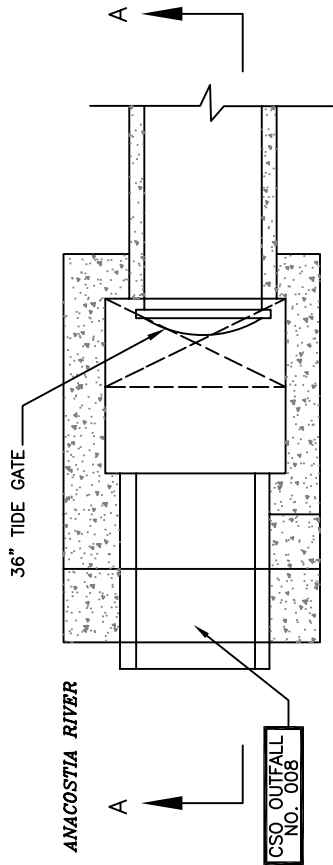
SITE PLAN

SCALE: 1"=60'



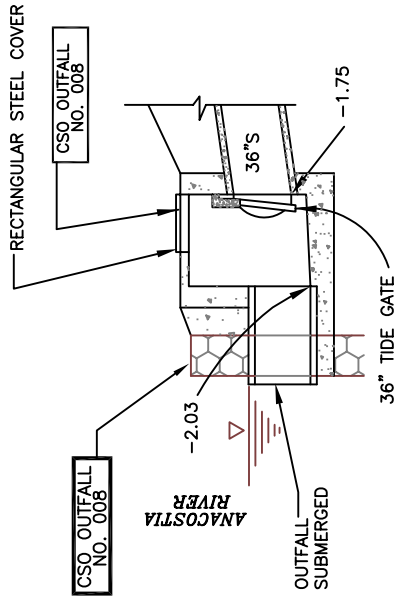
PHOTO

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



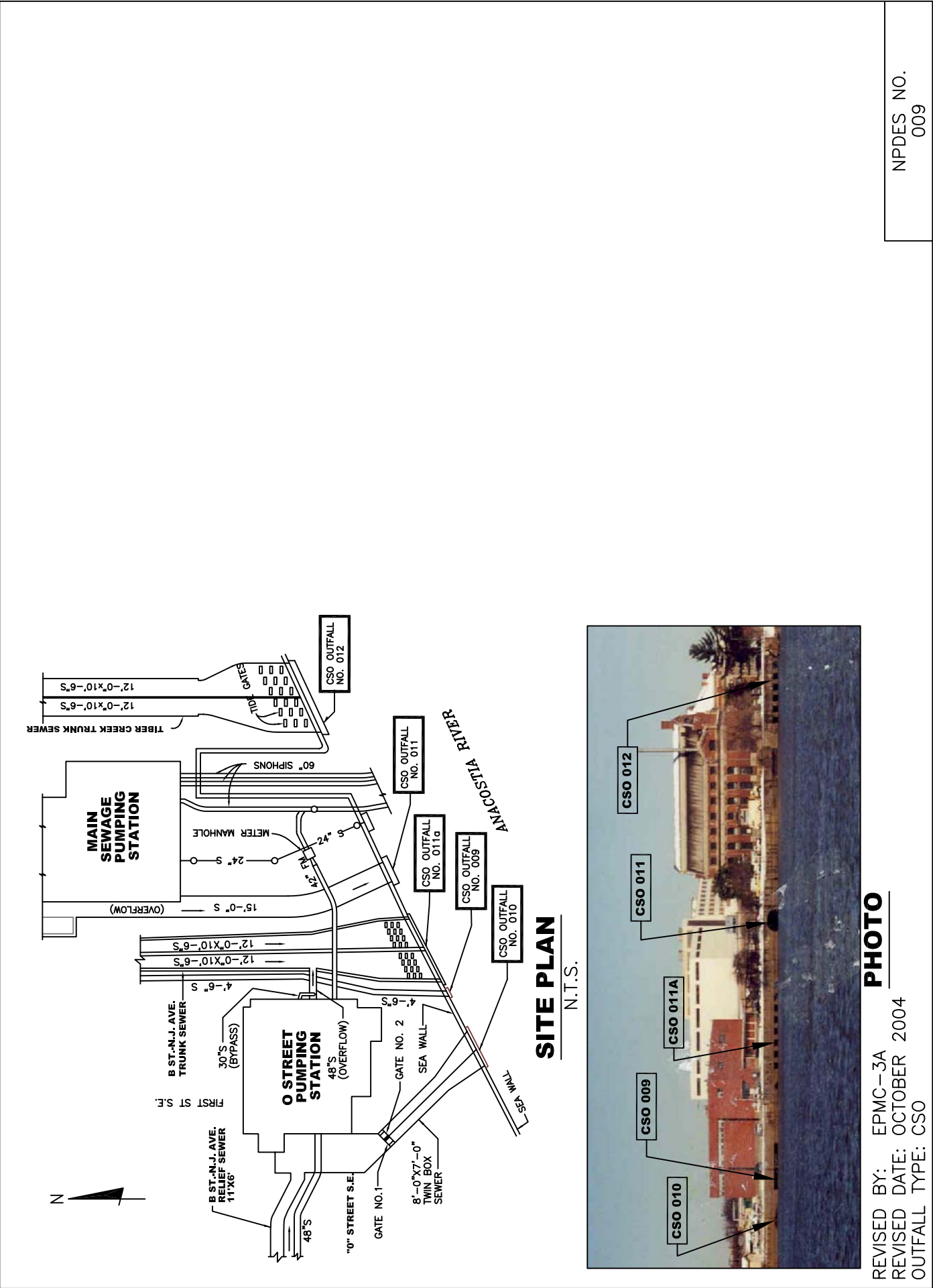
PLAN

SCALE: 1"=5'



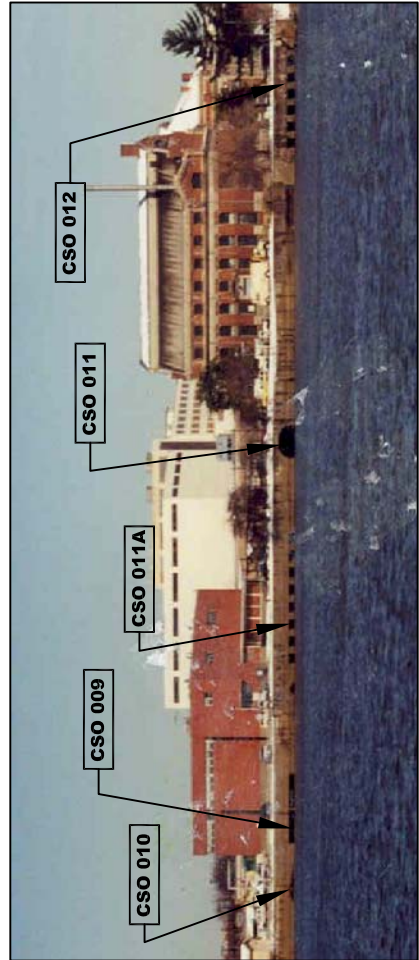
SECTION A-A

SCALE: 1"=10'



SITE PLAN

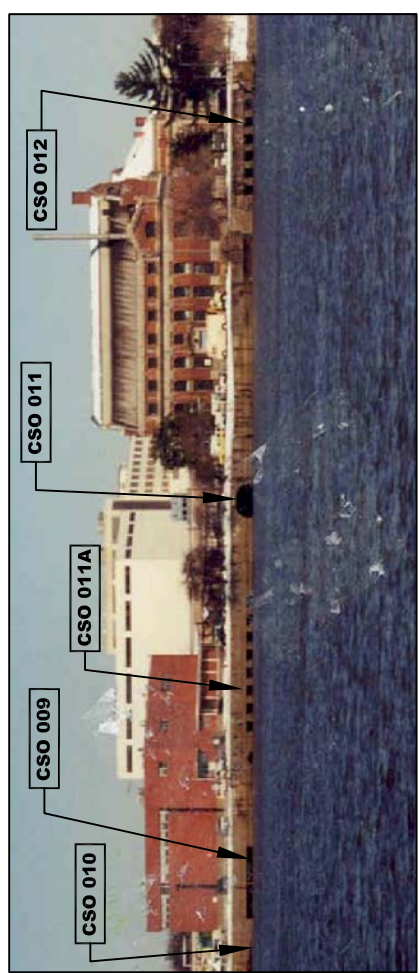
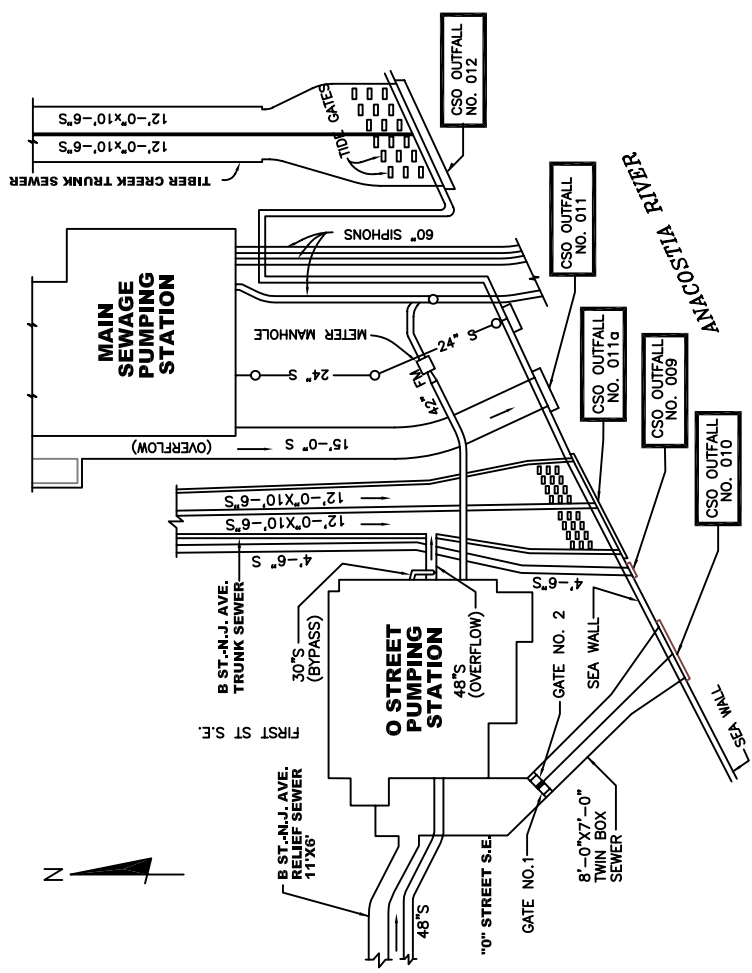
N.T.S.



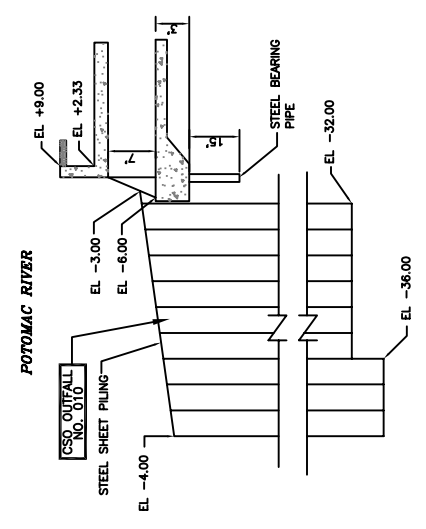
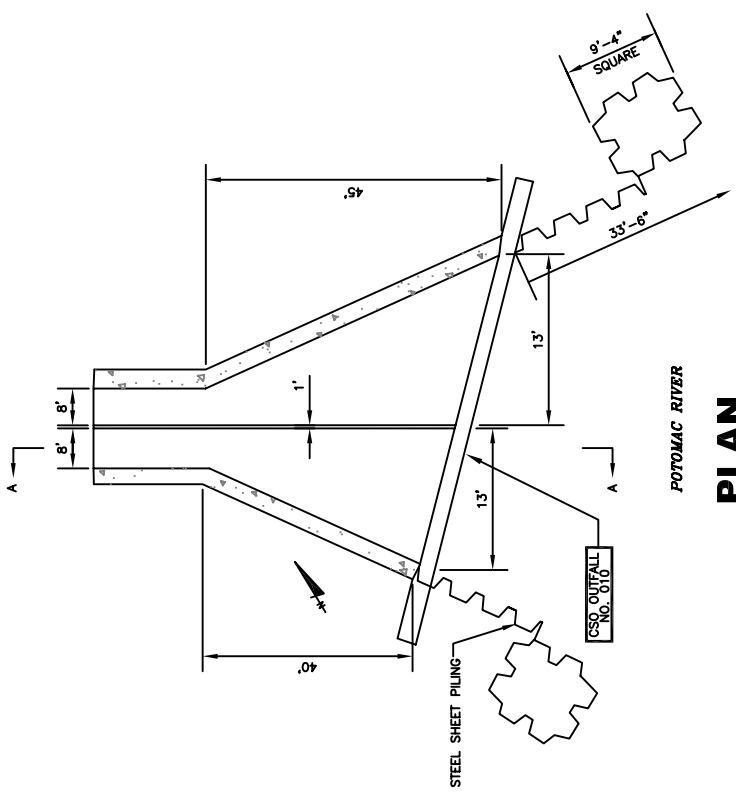
PHOTO

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

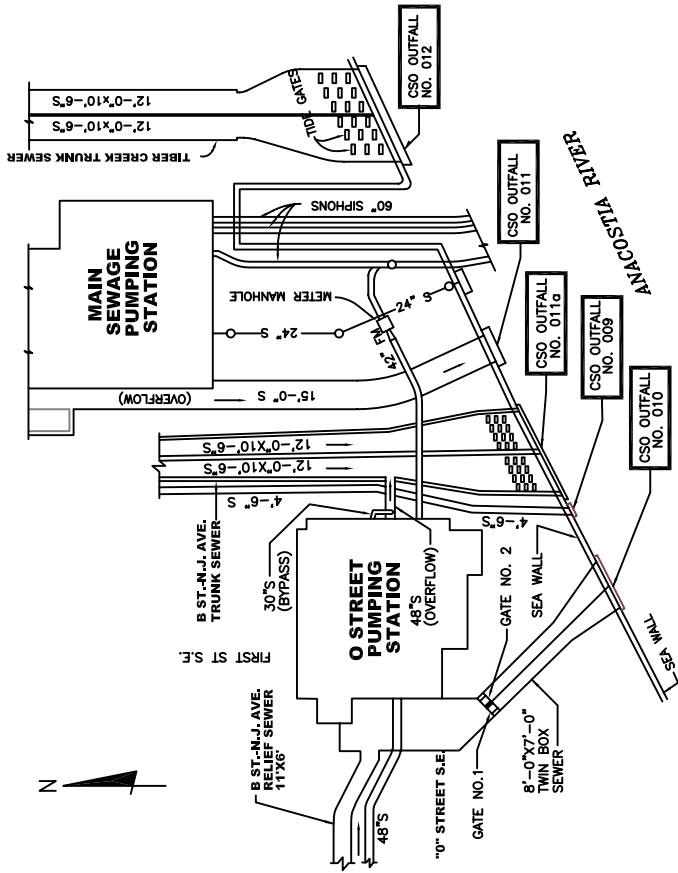
NPDES NO.
 009



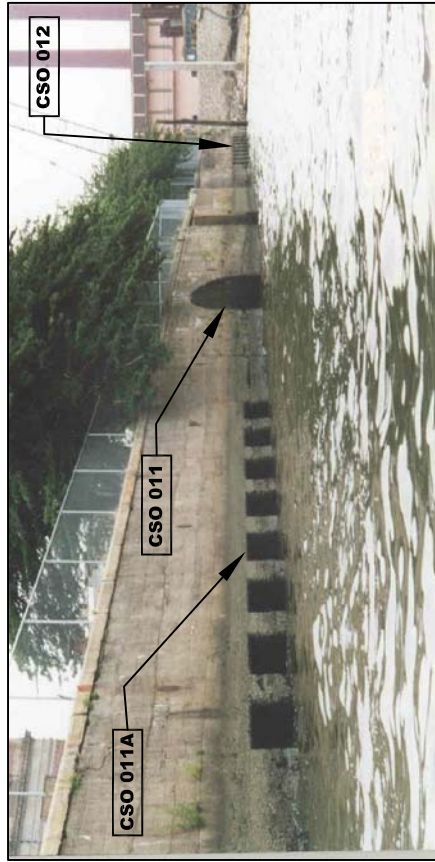
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO



NPDES NO.
010

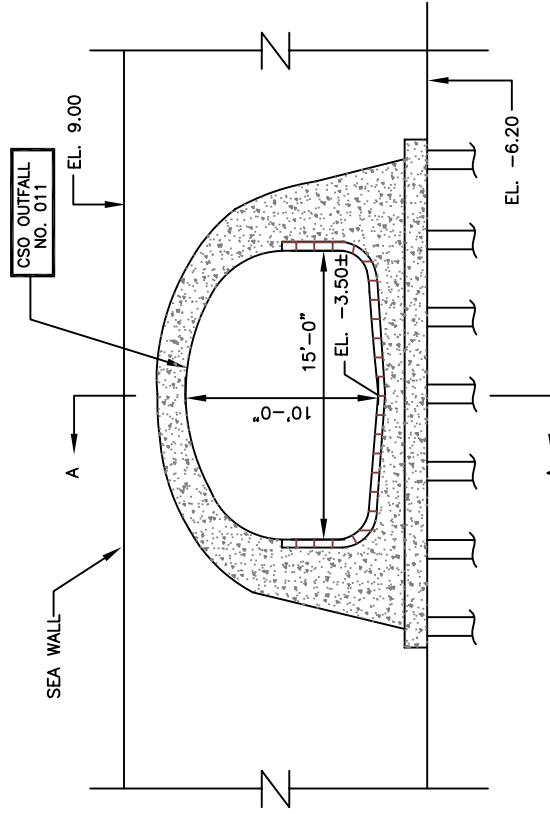


SITE PLAN
N.T.S.

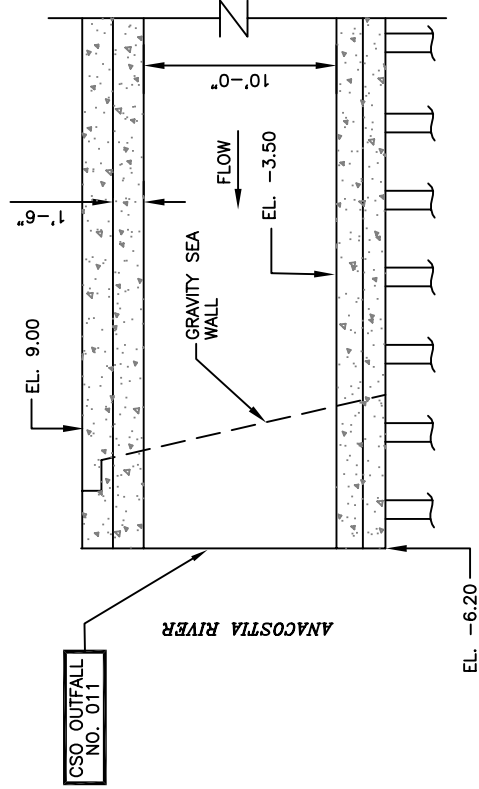


PHOTO

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

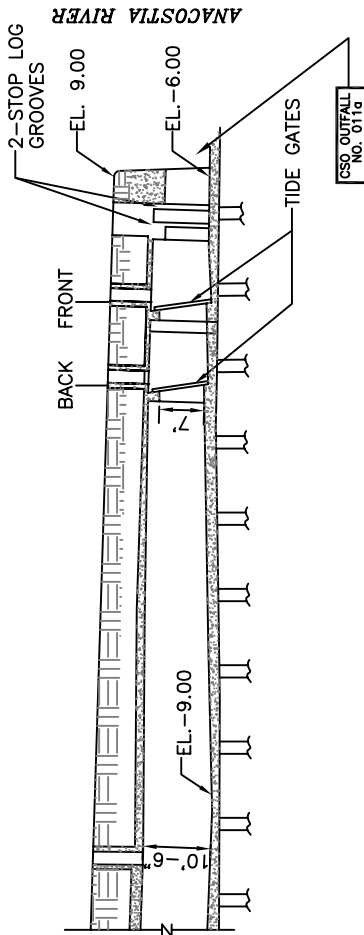
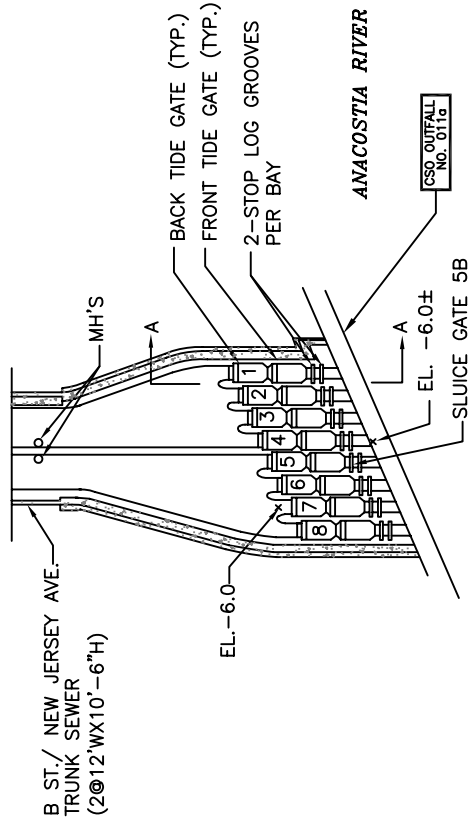
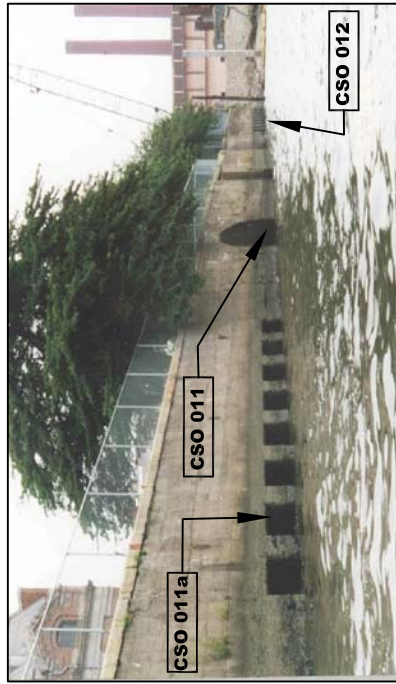
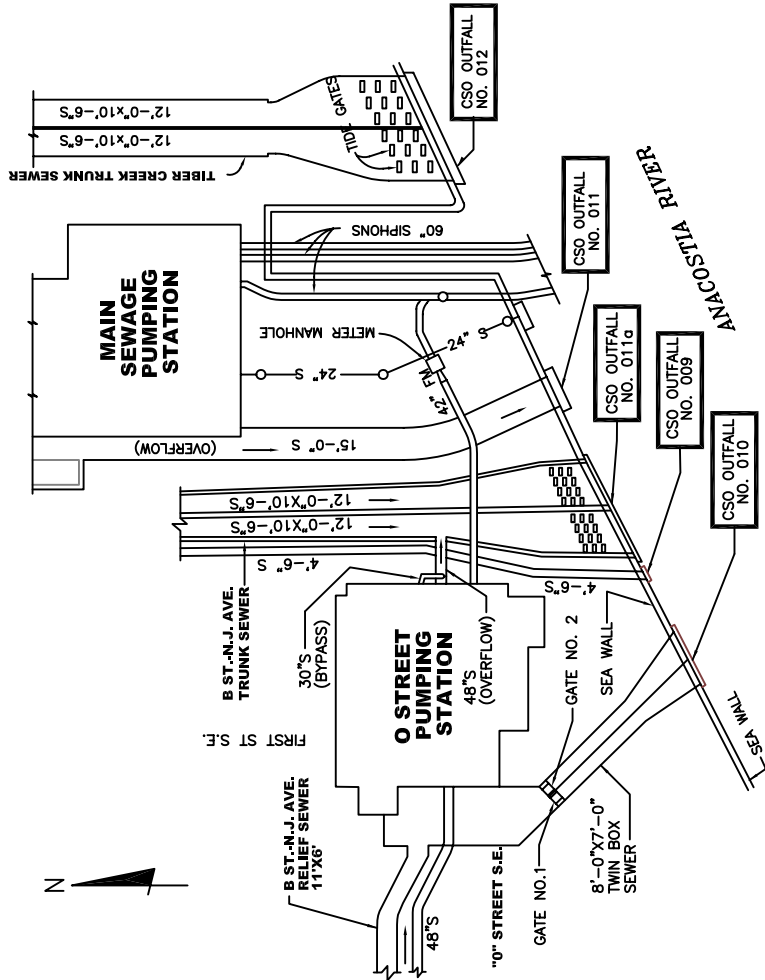


ELEVATION
SCALE: 1" = 10'



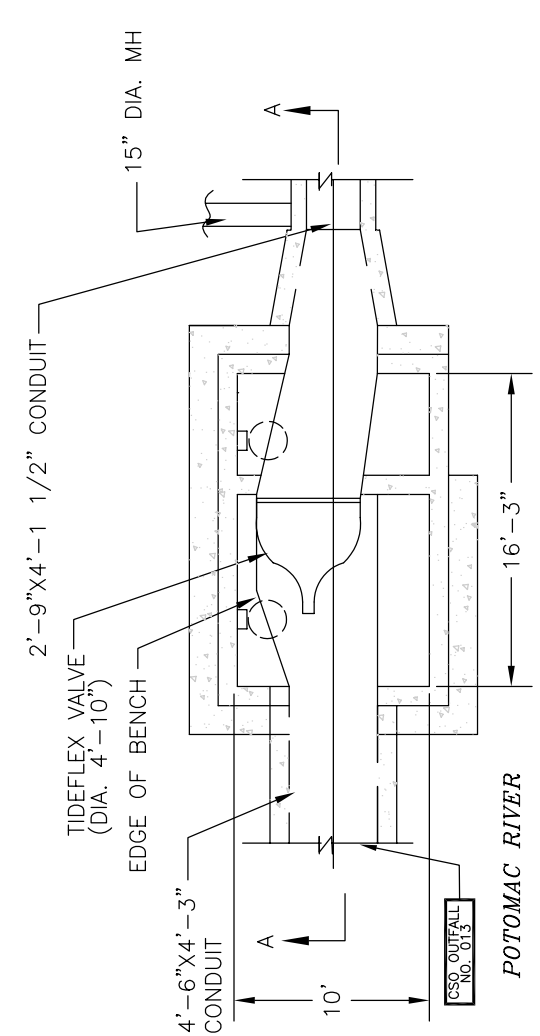
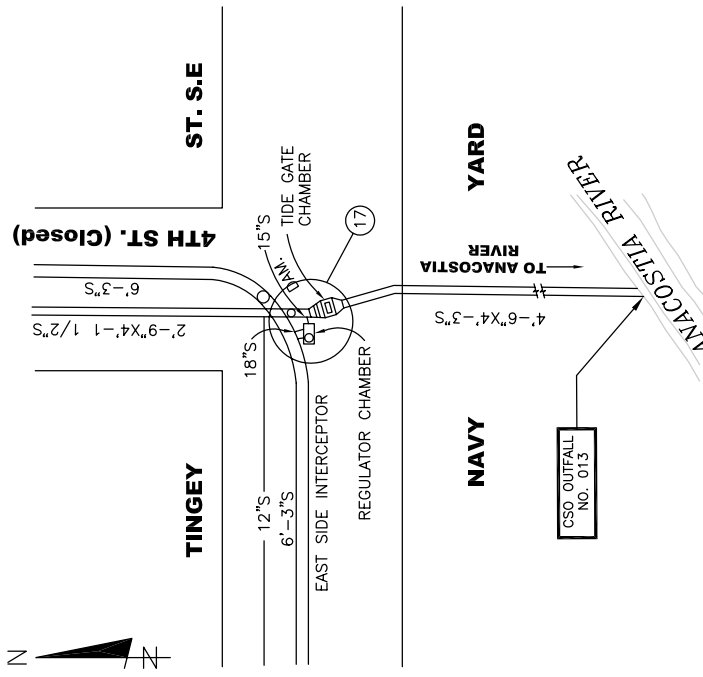
SECTION A-A

SCALE: 1" = 10'



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

NPDES NO.
 011a

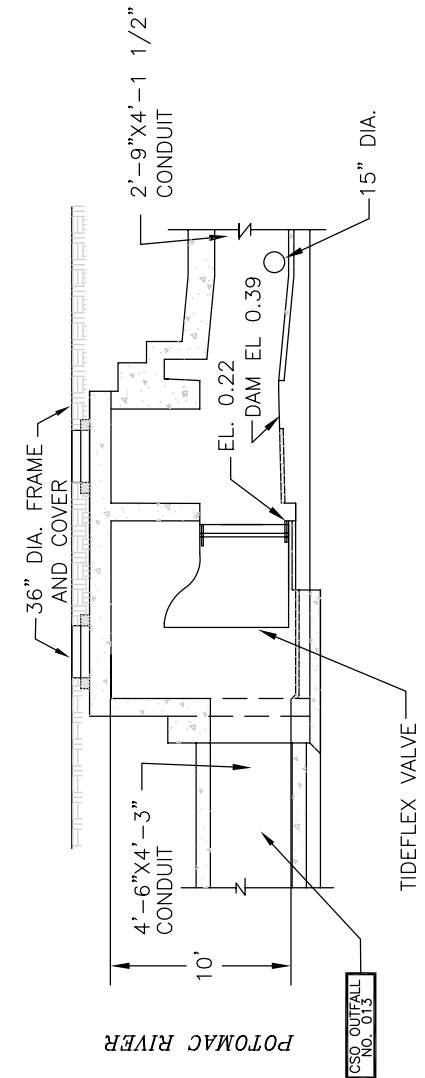


PLAN
N.T.S.

SITE PLAN
SCALE: 1" = 100'



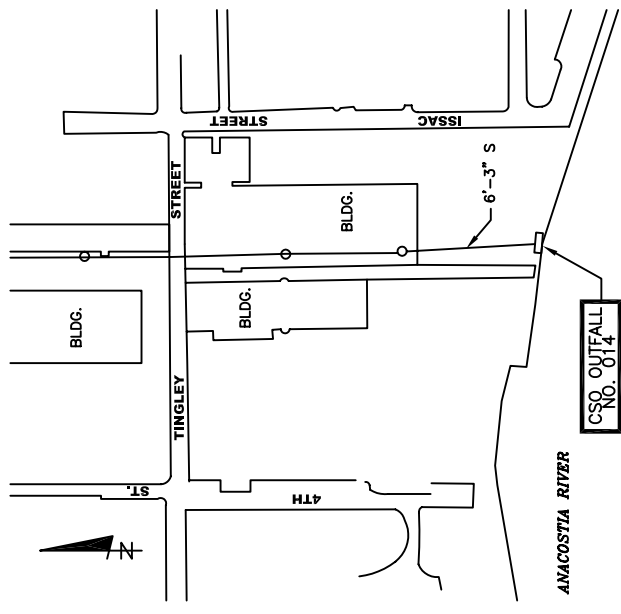
PHOTO



SECTION A-A
N.T.S.

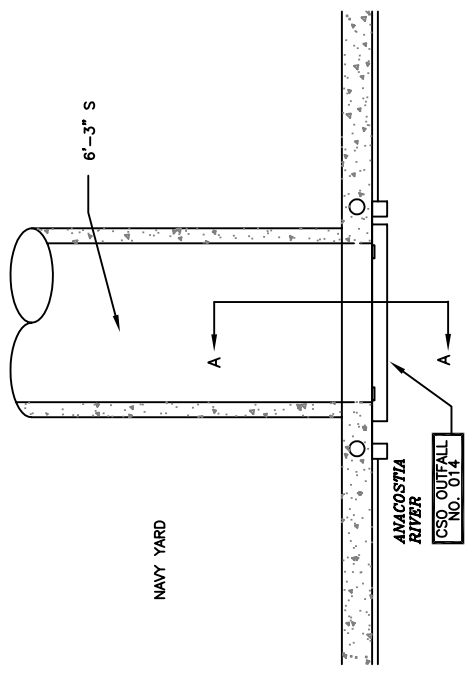
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO

NPDES NO.
013



PLAN

SCALE: 1"=100'



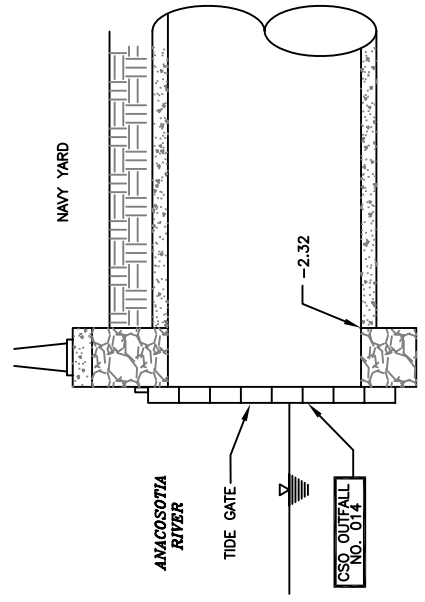
PLAN

N.T.S.



PHOTO

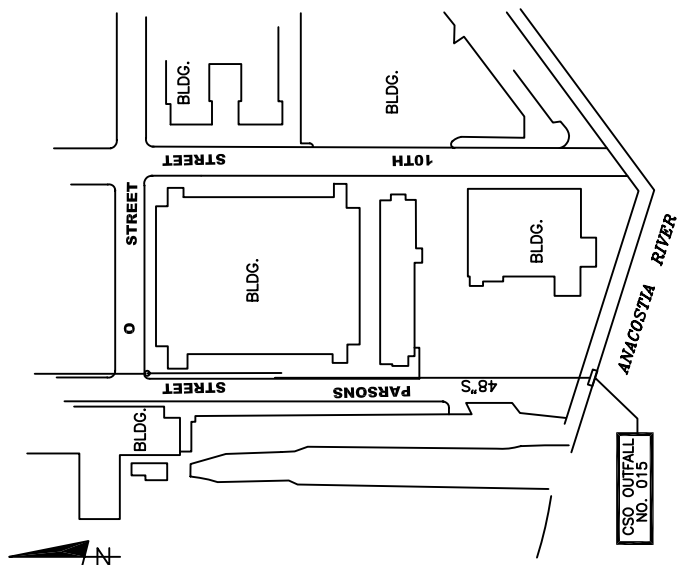
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



SECTION A-A

N.T.S.

NPDES NO.
014



SITE PLAN

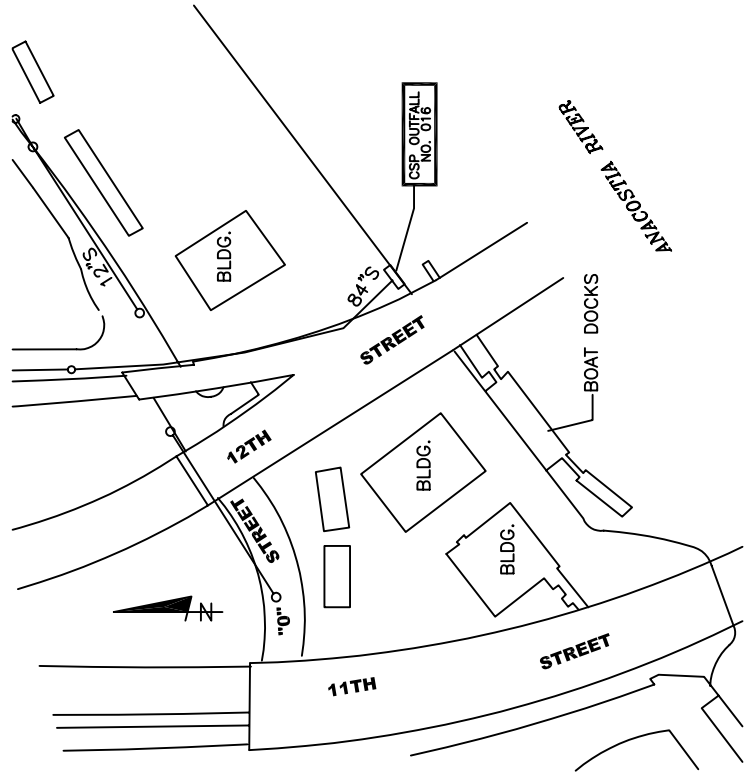
N.T.S.



PHOTO

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

NPDES NO.
015

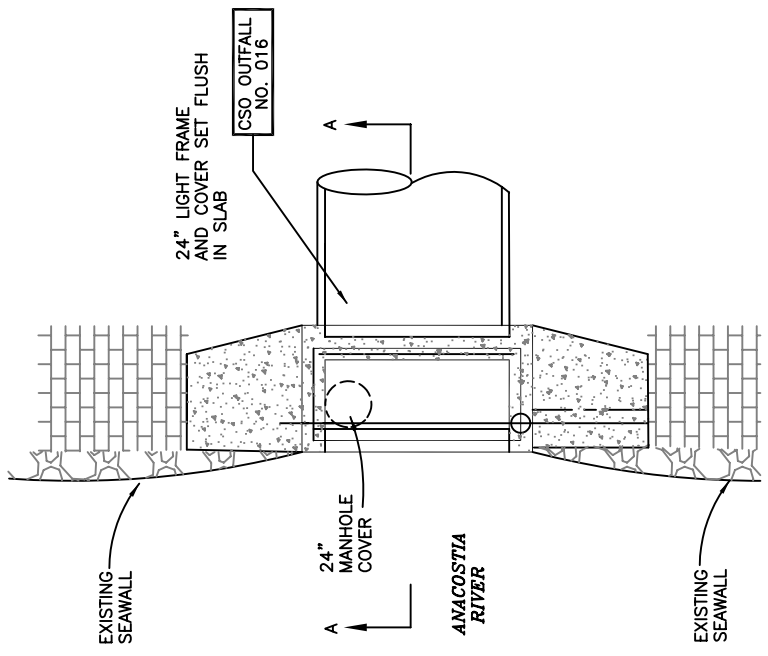


SITE PLAN
N.T.S.

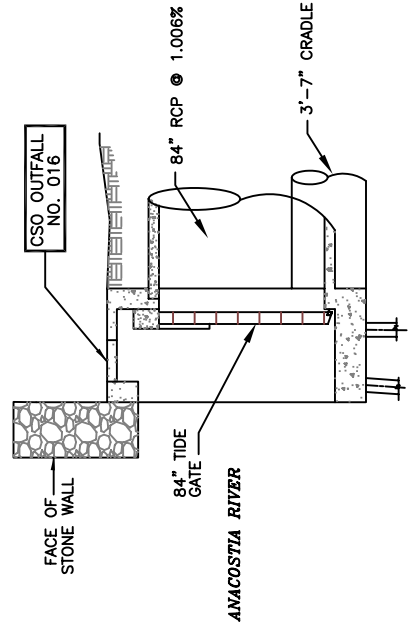


PHOTO

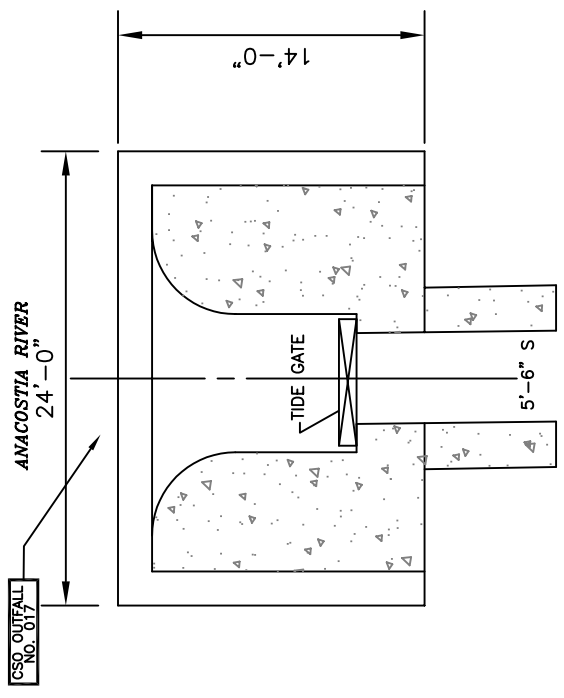
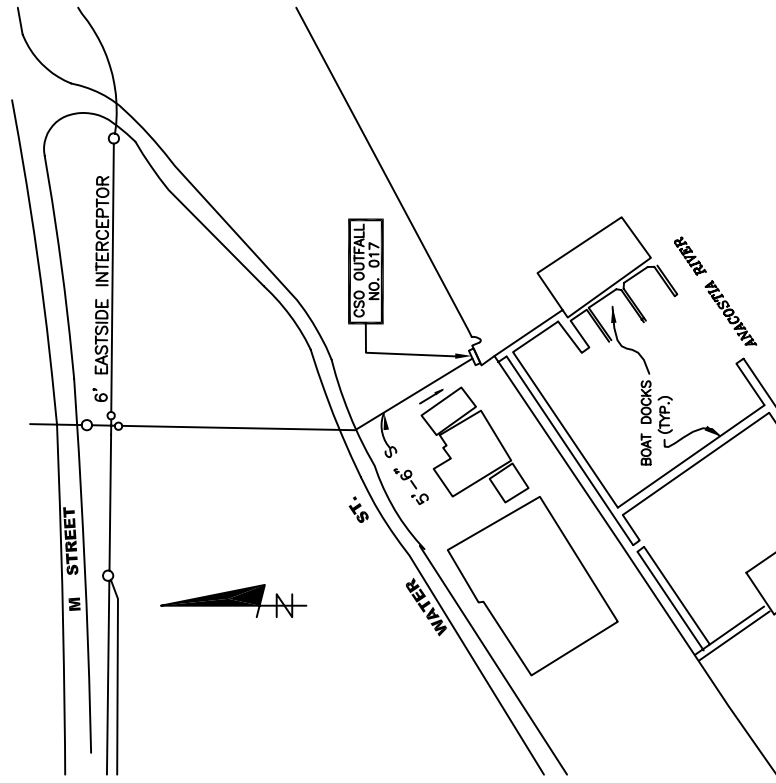
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



PLAN
N.T.S.

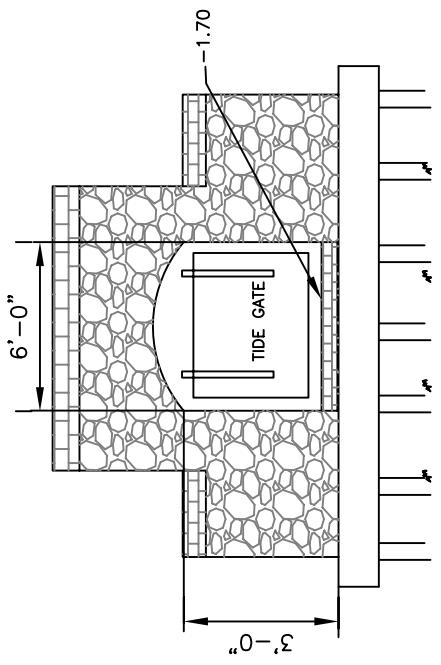


SECTION A-A
N.T.S.



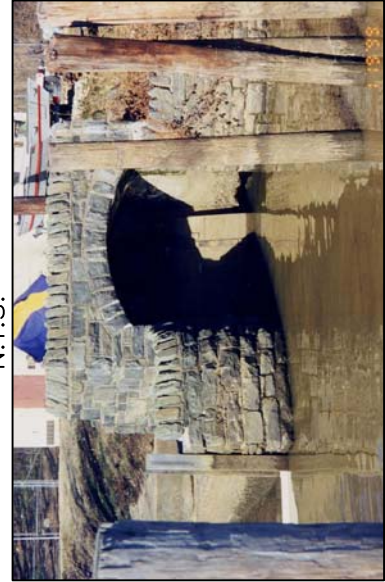
PLAN

N.T.S.



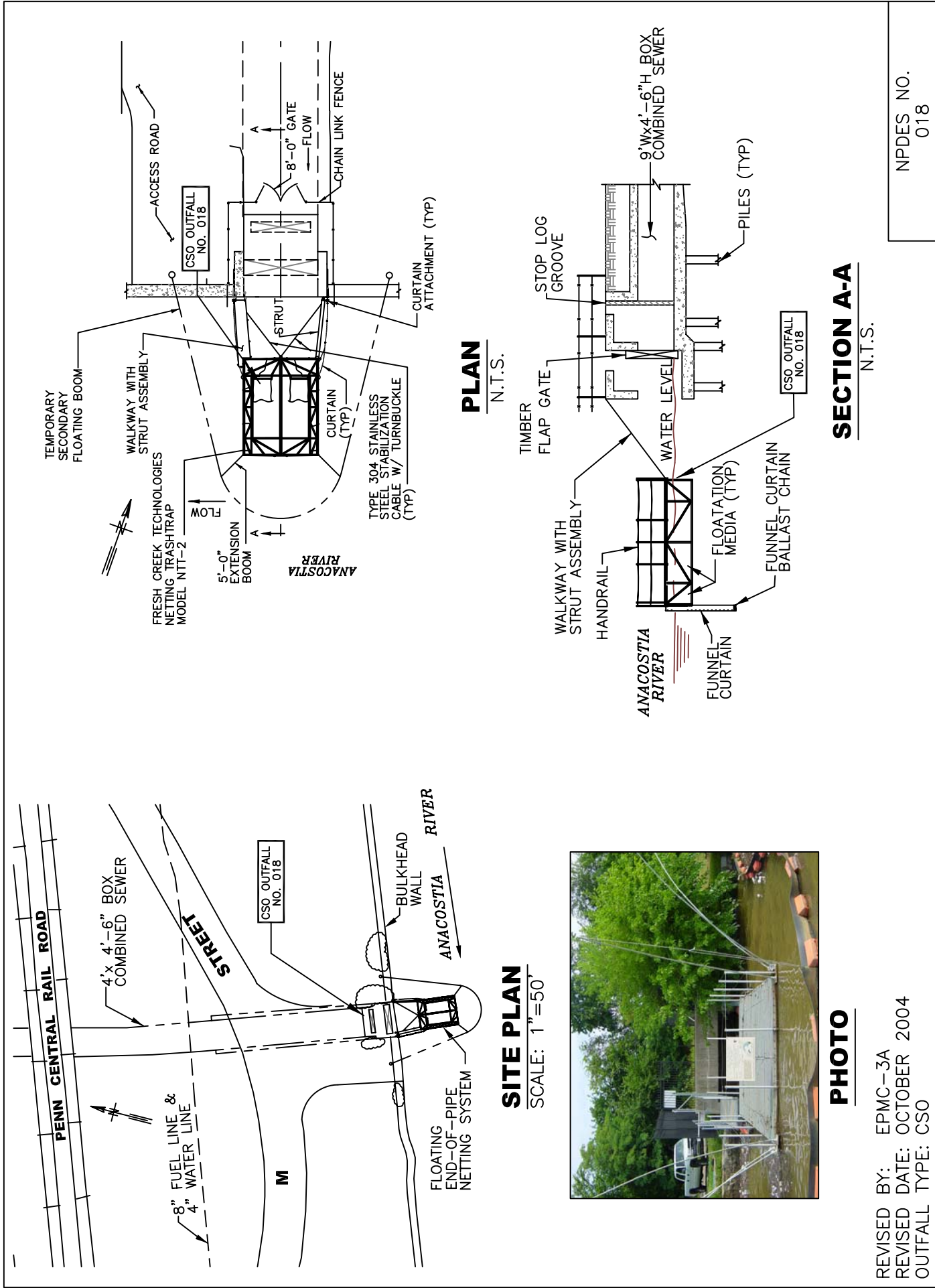
FRONT VIEW

N.T.S.



PHOTO

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



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

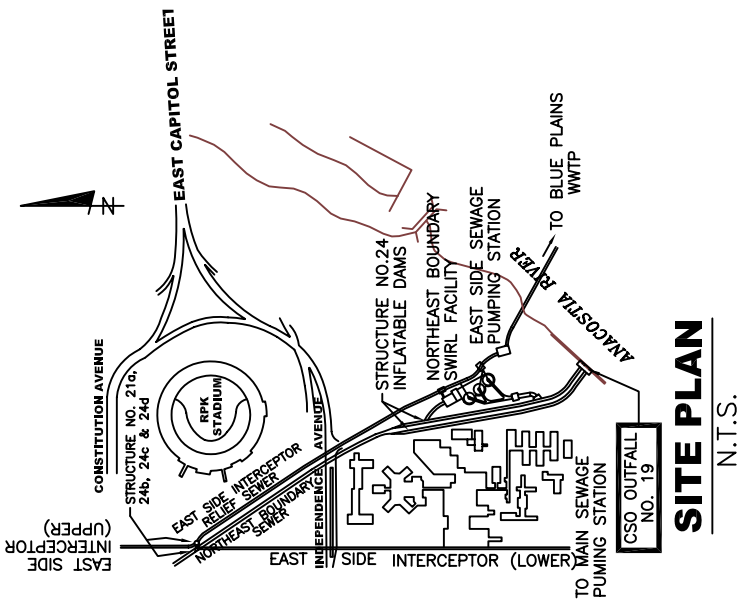


PHOTO

PLAN
N.T.S.

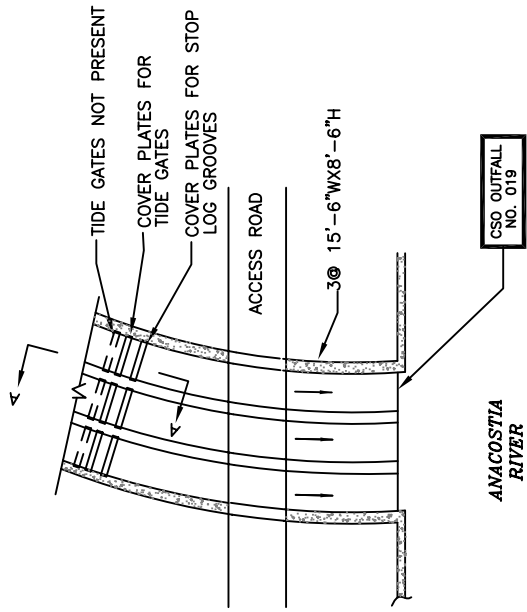
SECTION A-A
N.T.S.

NPDES NO.
018



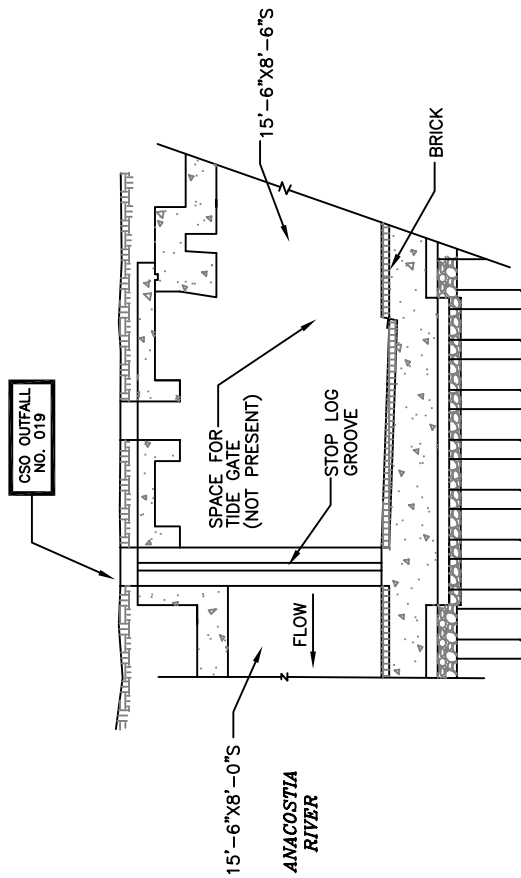
SITE PLAN

N.T.S.



PLAN

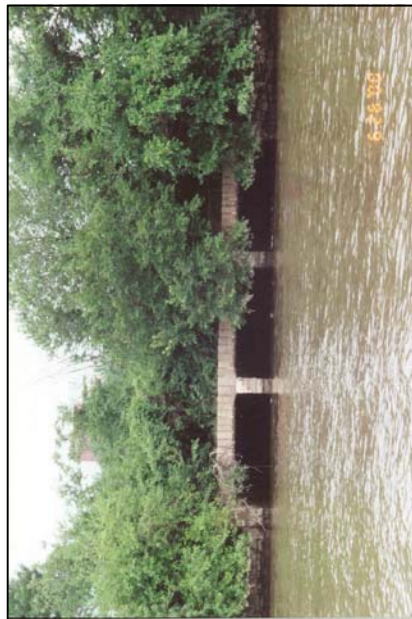
N.T.S.



SECTION A-A

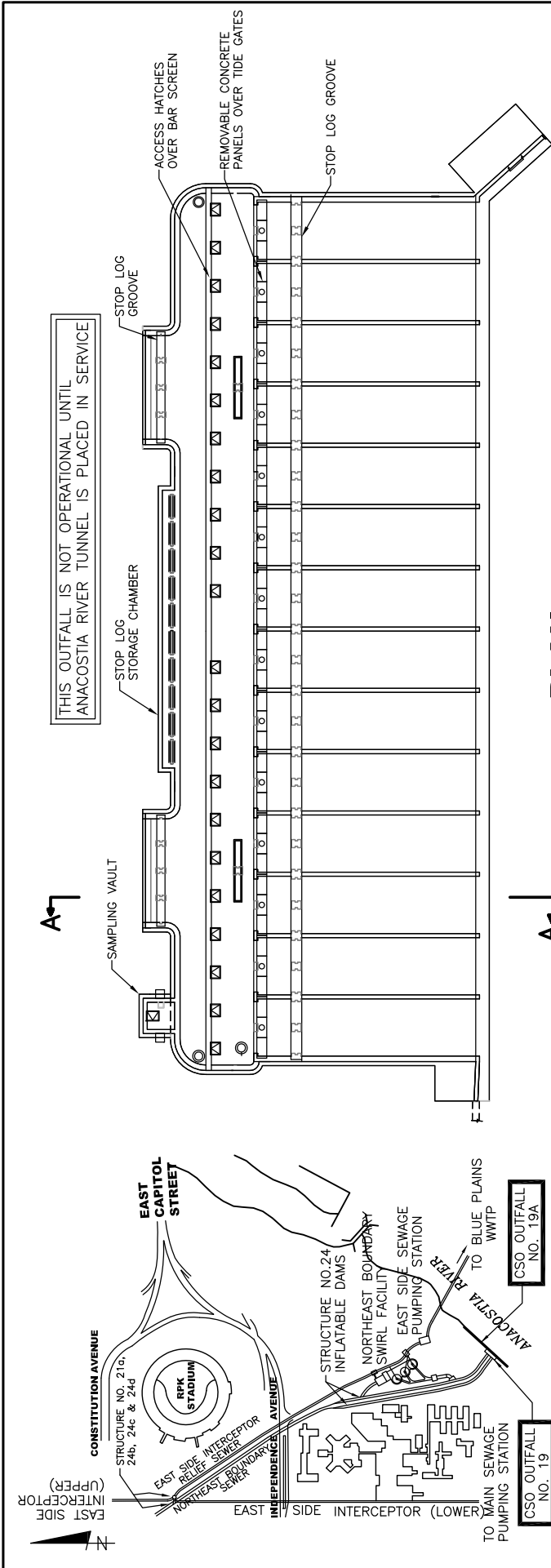
N.T.S.

PHOTO

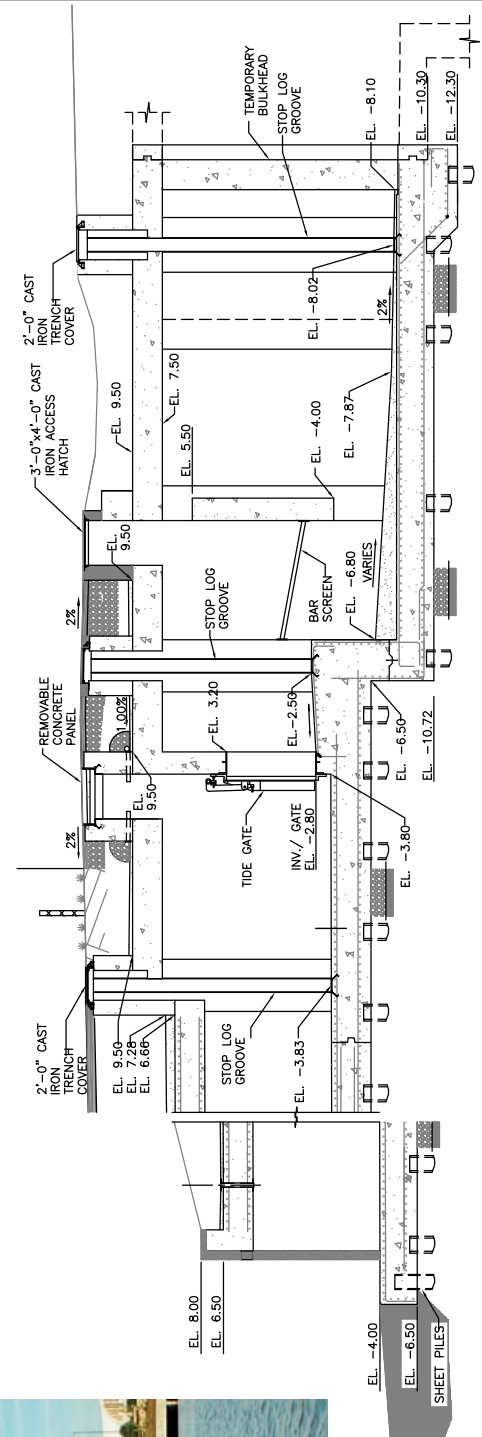
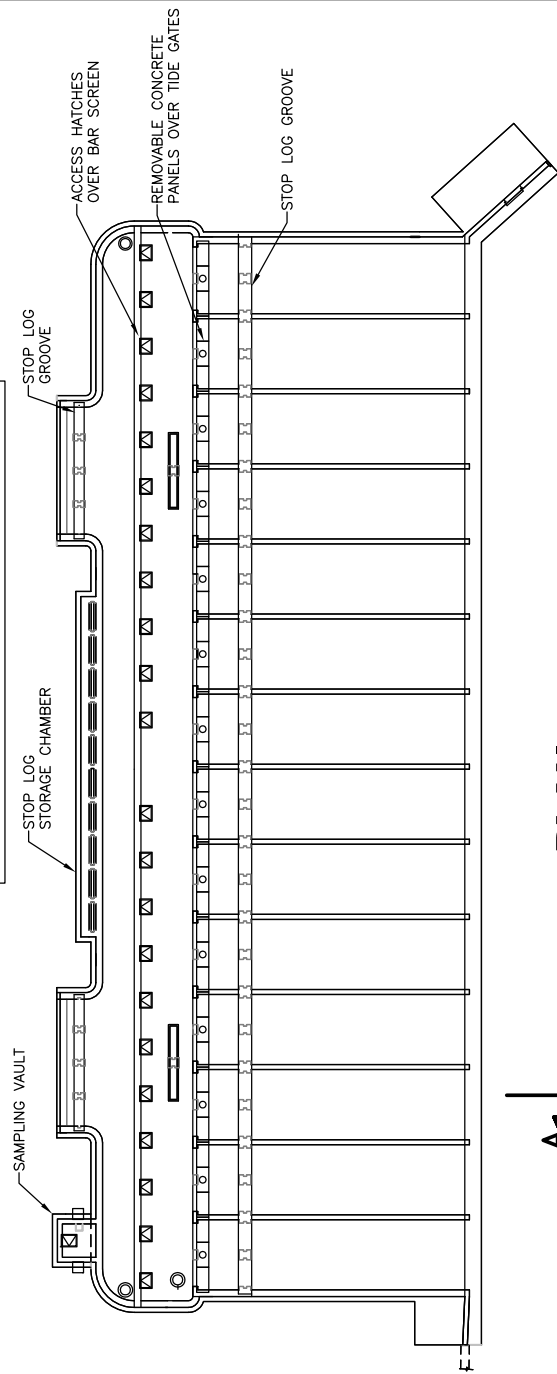


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO

NPDES NO.
019

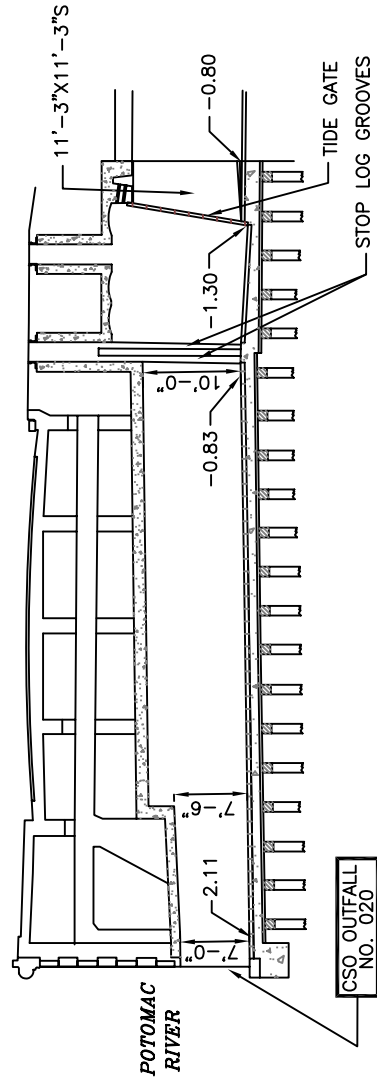
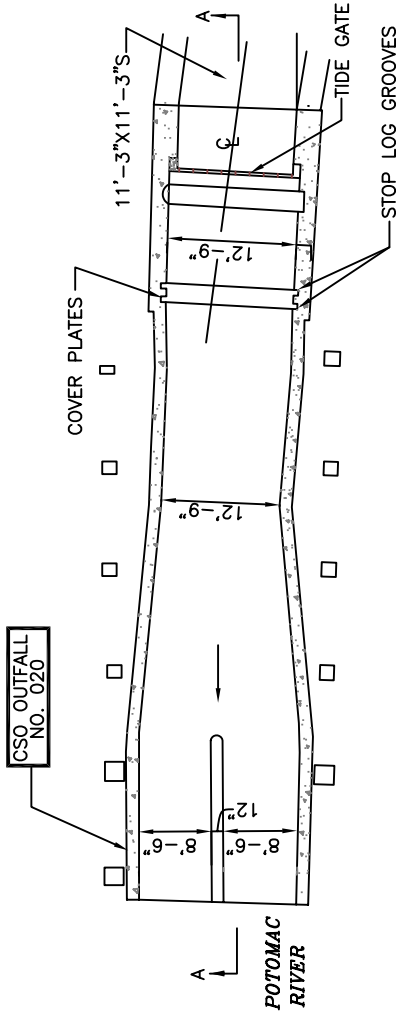
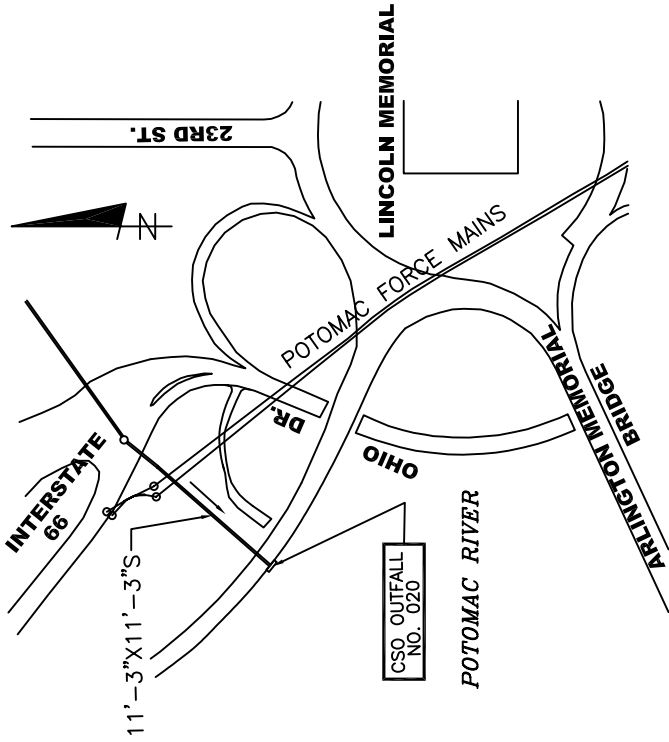


THIS OUTFALL IS NOT OPERATIONAL UNTIL ANACOSTIA RIVER TUNNEL IS PLACED IN SERVICE



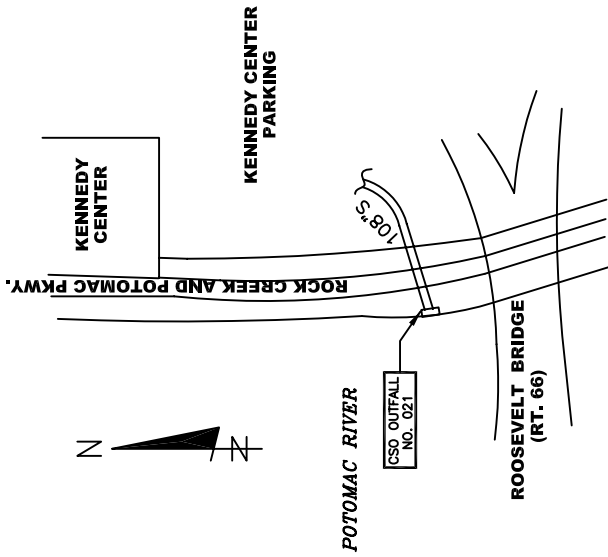
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2016
 OUTFALL TYPE: CSO

NPDES NO.
019A



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

NPDES NO.
020



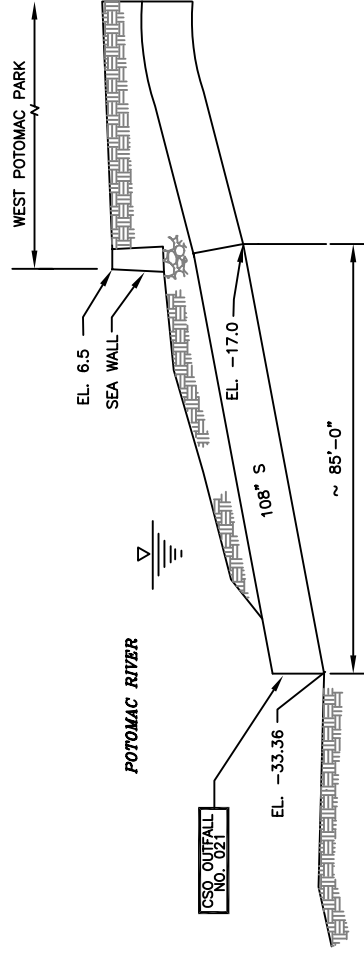
SITE PLAN

N.T.S.



PHOTO

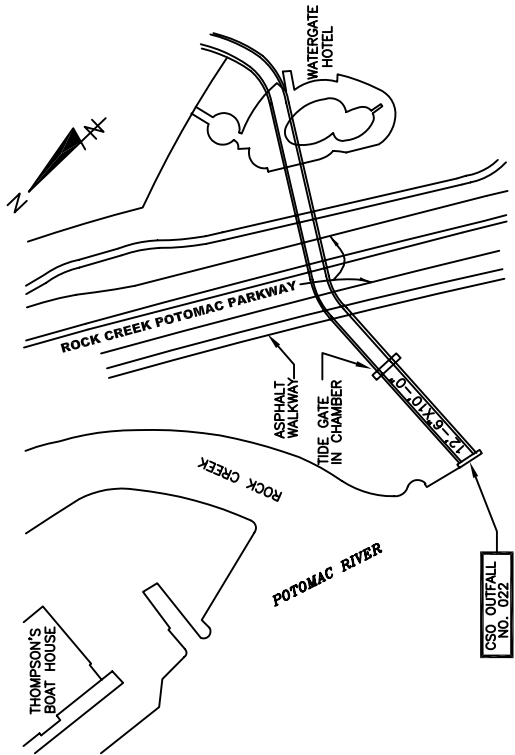
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO



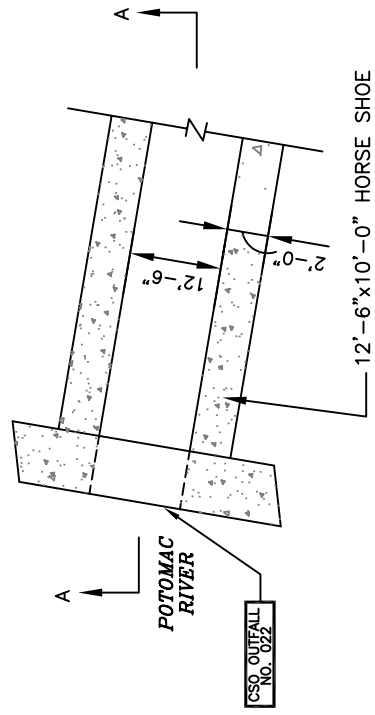
PROFILE

N.T.S.

NPDES NO.
021



SITE PLAN
N.T.S.

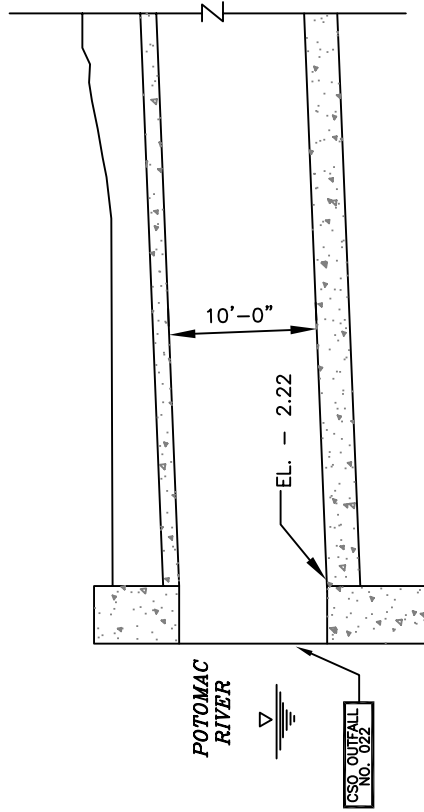


PLAN
N.T.S.

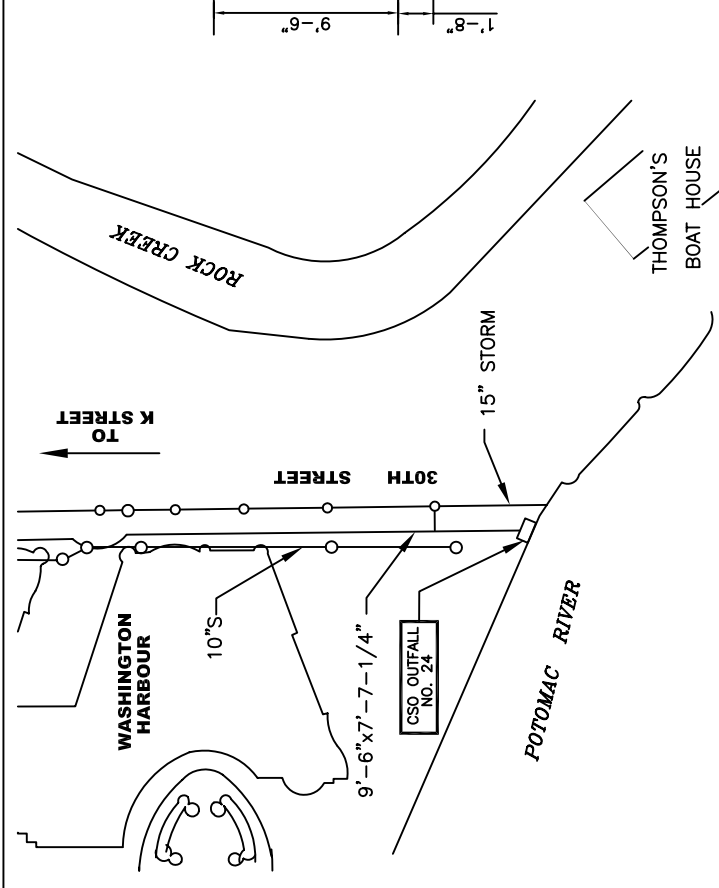


PHOTO

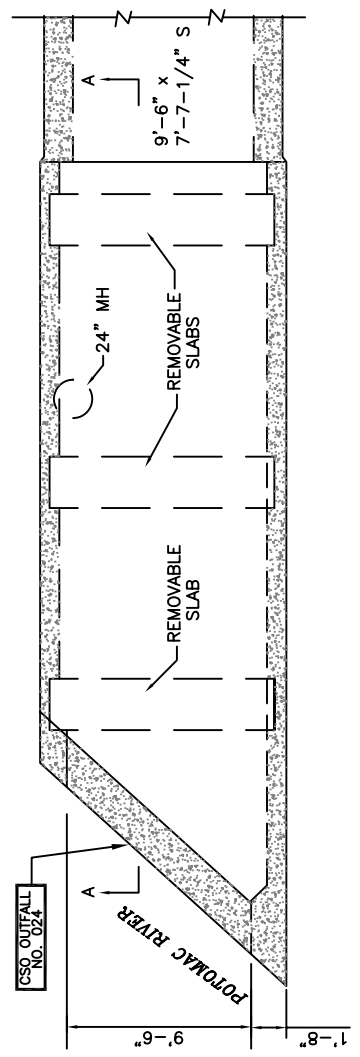
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



SECTION A-A
N.T.S.



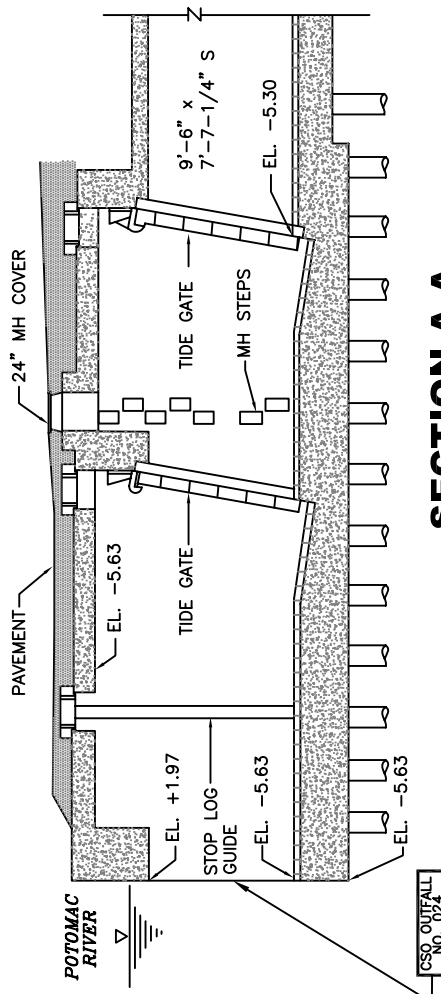
SITE PLAN
SCALE: 1" = 300'



PLAN
SCALE: 1" = 10'

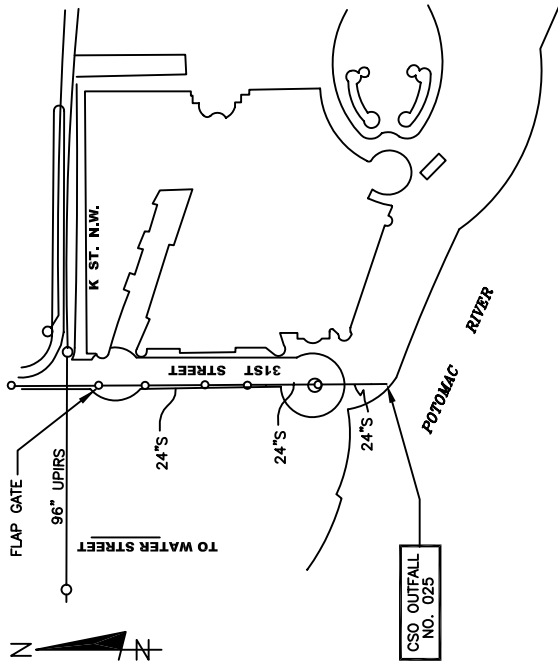


PHOTO
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

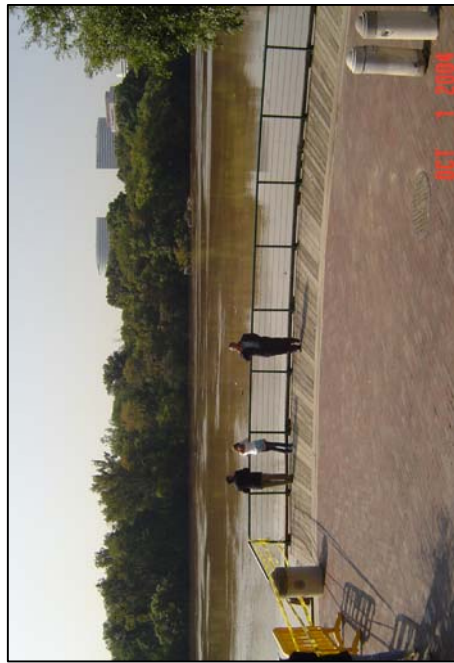


SECTION A-A
SCALE: 1" = 10'

NPDES NO.
024

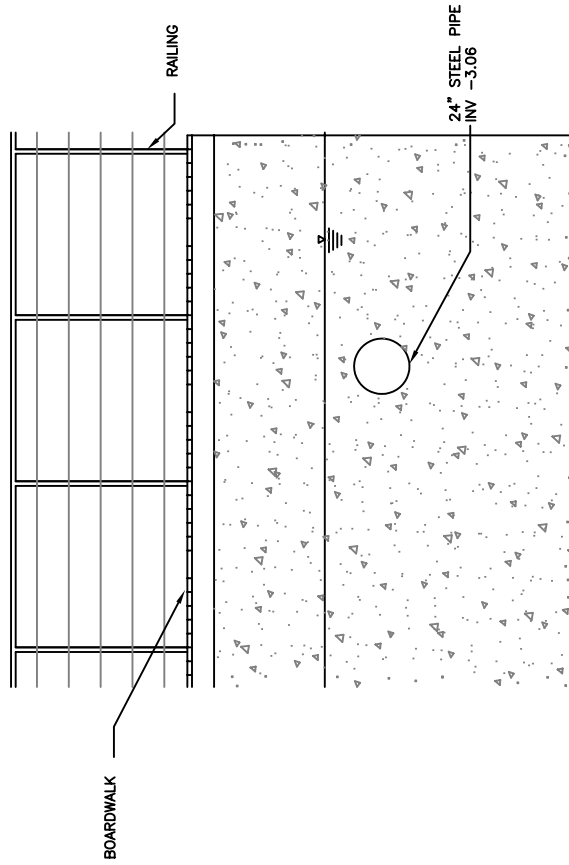
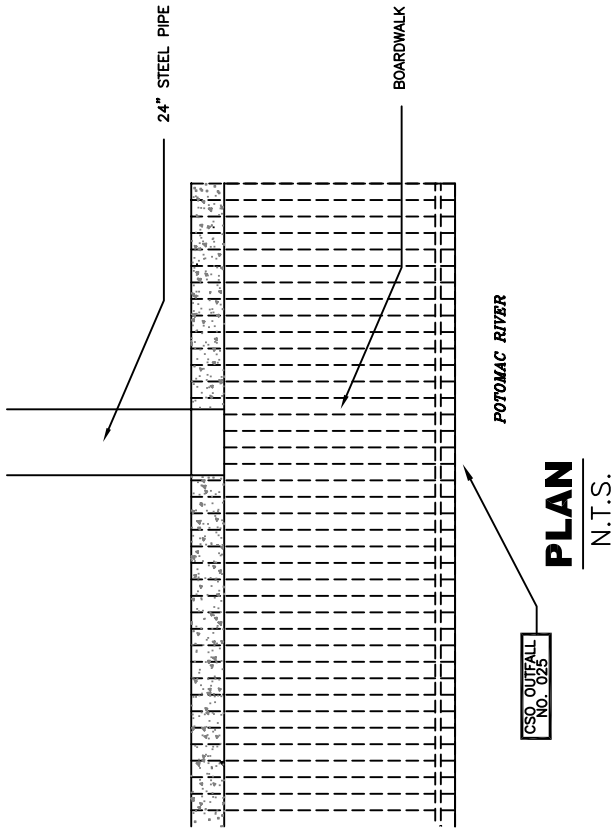


SITE PLAN
SCALE: 1" = 200'



PHOTO

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



FRONT VIEW
N.T.S.

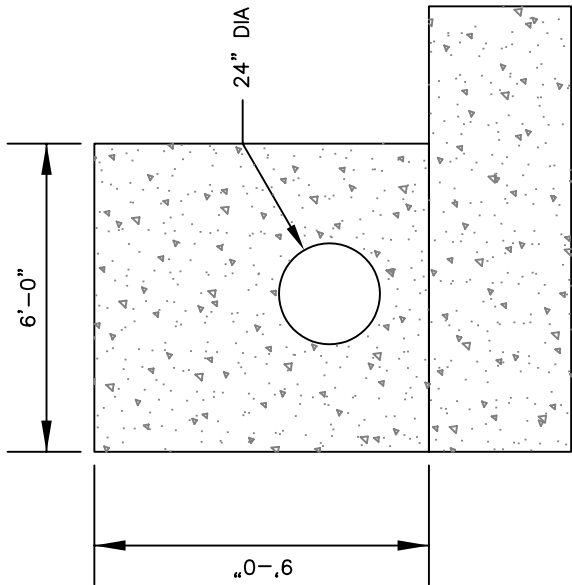
NPDES NO.
025

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

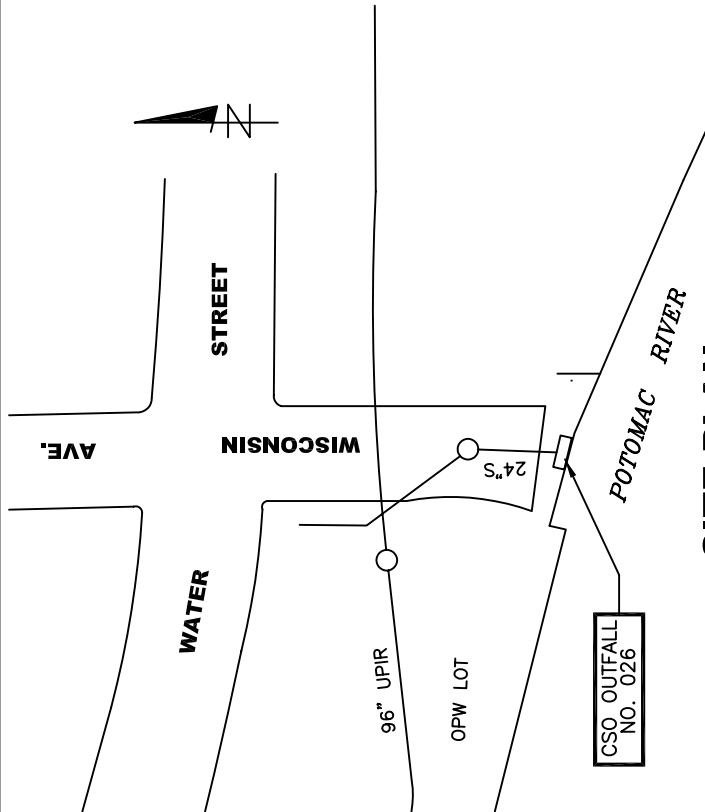
PHOTO

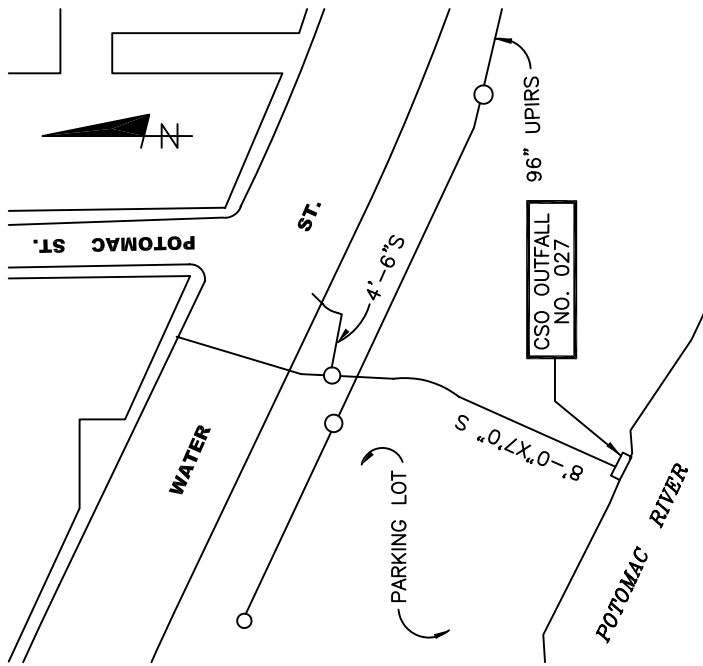


NPDES NO.
026



FRONT VIEW
N.T.S.



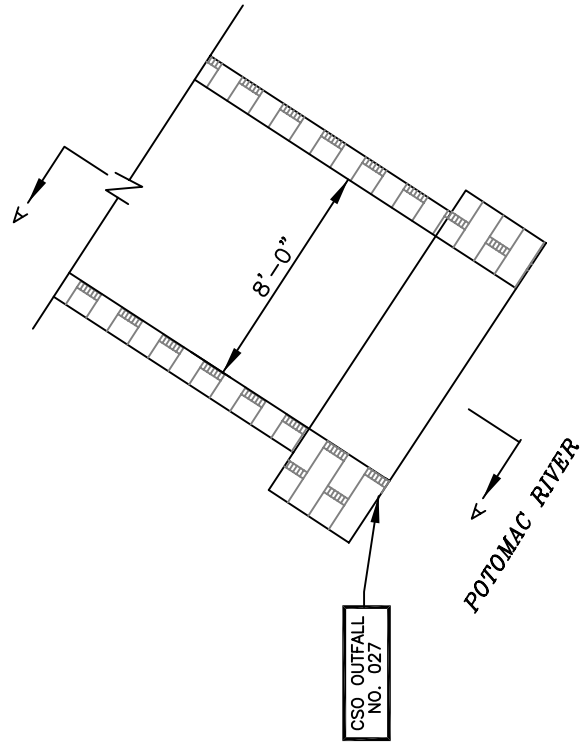


SITE PLAN
SCALE: 1" = 200'

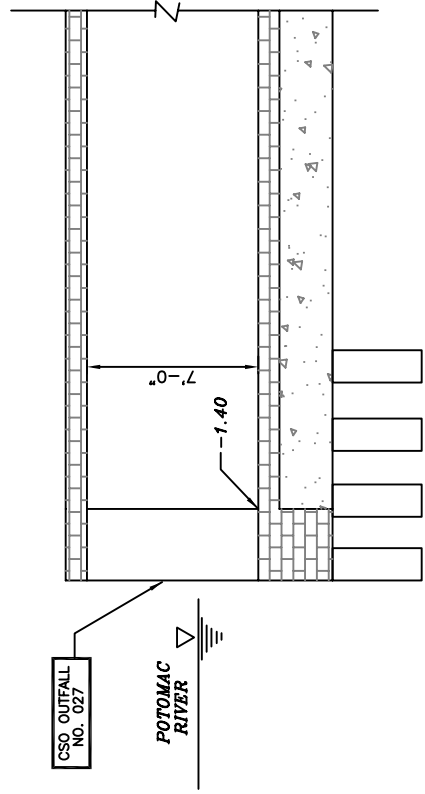


PHOTO

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

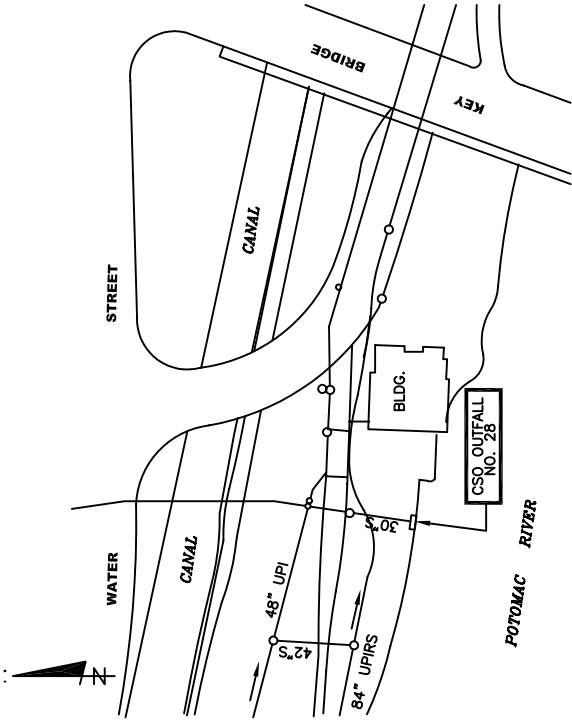


PLAN
N.T.S.

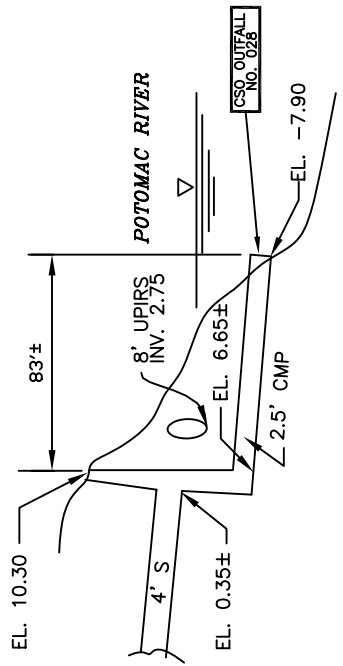


SECTION A-A
N.T.S.

NPDES NO.
027



SITE PLAN
SCALE: 1" = 100'



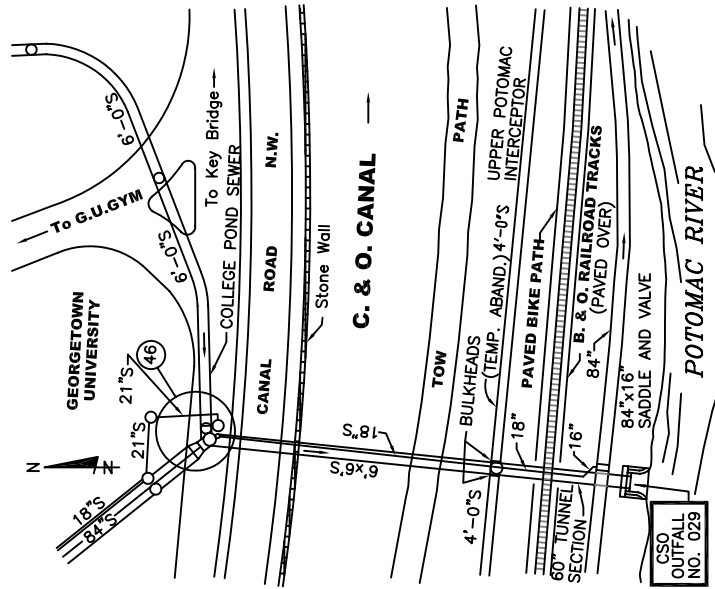
SECTION
N.T.S.



PHOTO

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

NPDES NO.
028

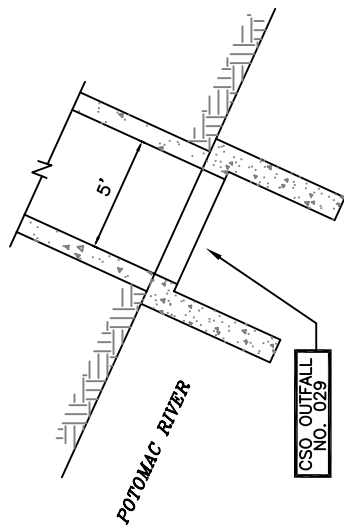


SITE PLAN
SCALE: 1"=100'

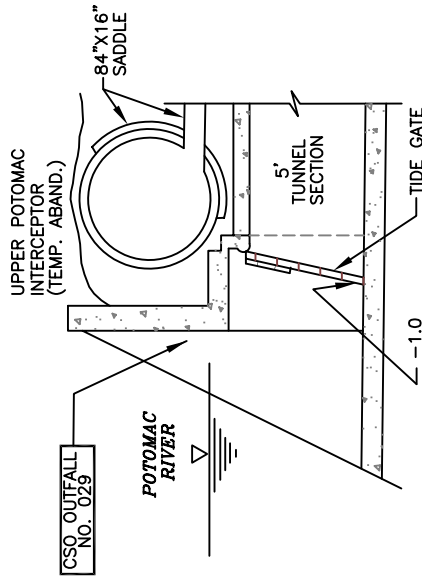


PHOTO

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

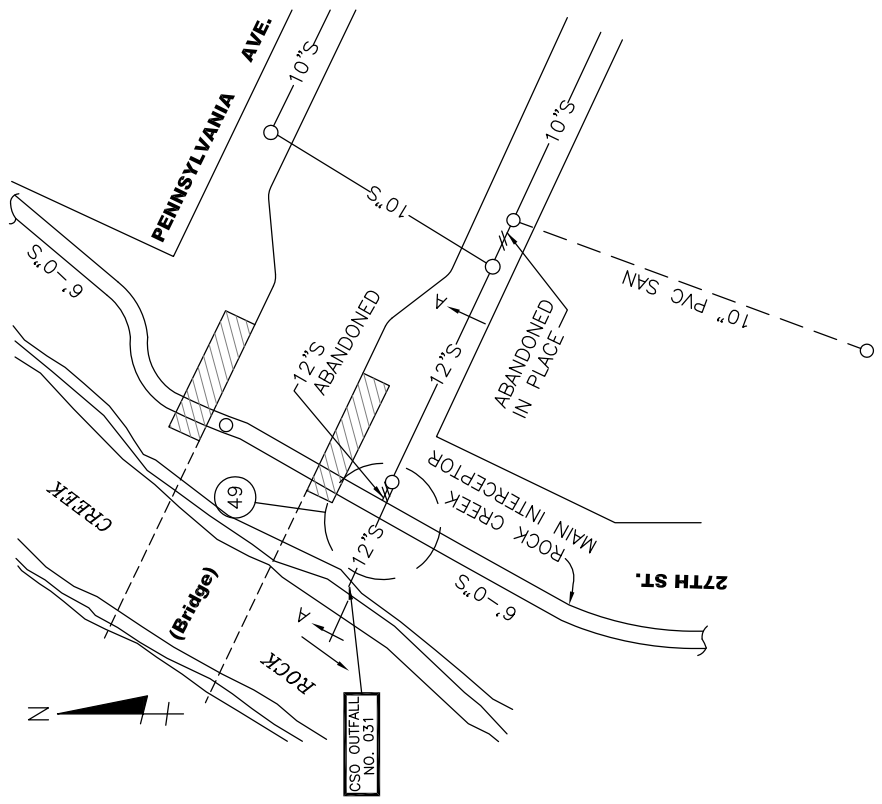


PLAN
N.T.S.

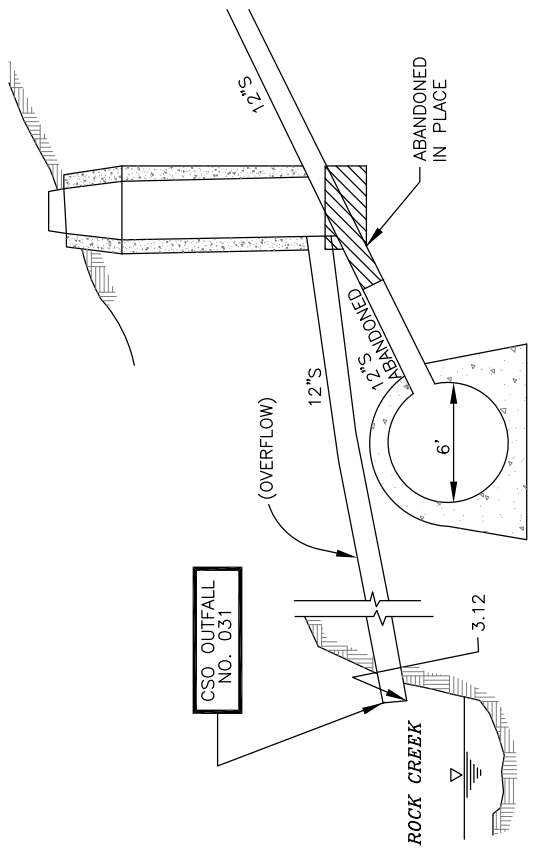


SECTION
N.T.S.

NPDES NO.
 029



SITE PLAN
SCALE: 1" = 80'



SECTION A-A
N.T.S.

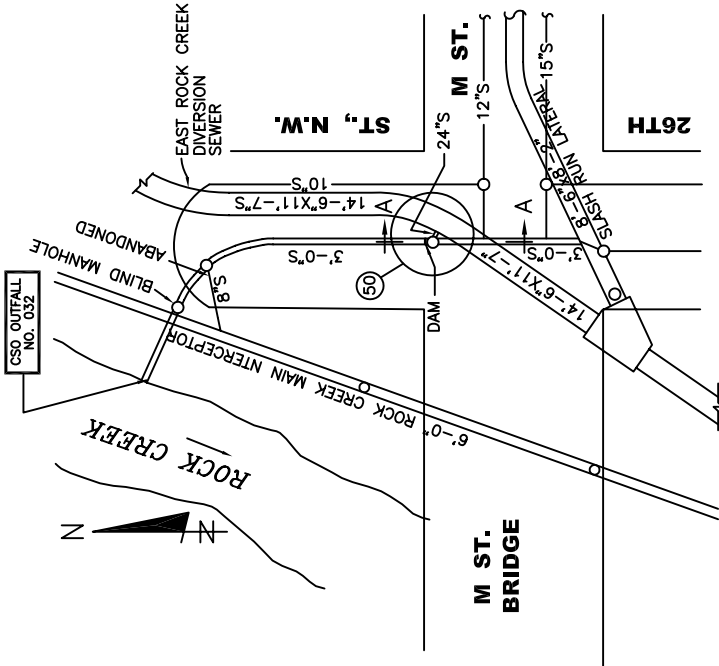


PHOTO

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

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: MARCH 2015
OUTFALL TYPE: CSO

NPDES NO.
031

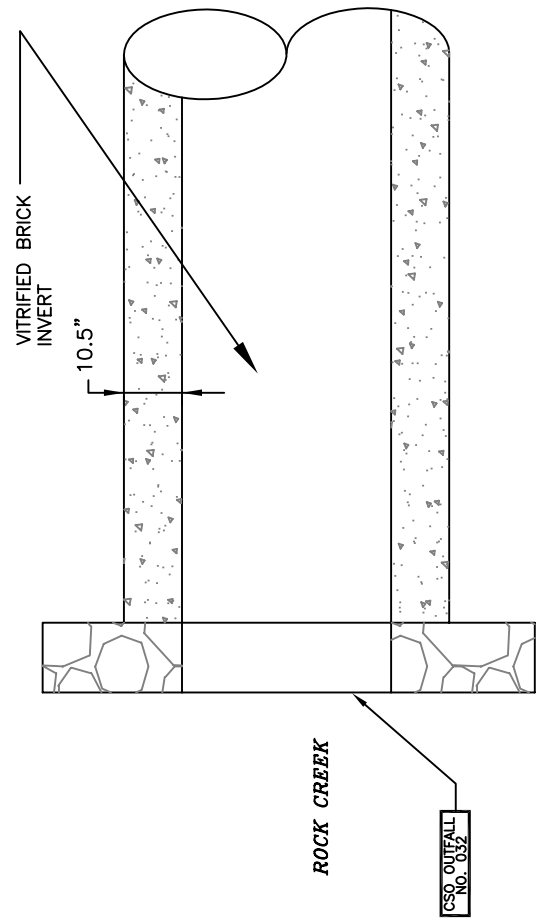


SITE PLAN
SCALE: 1"=100'

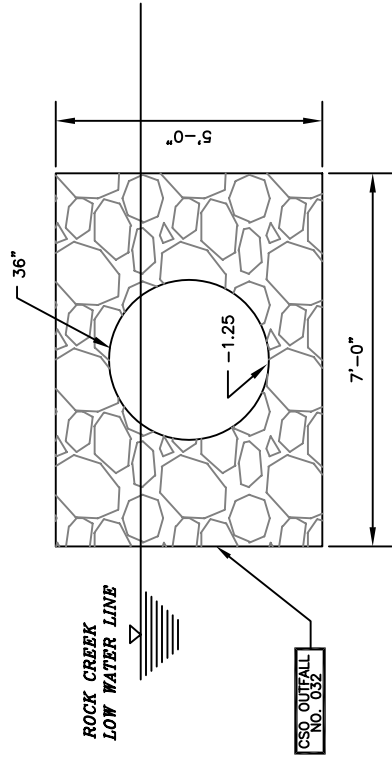


PHOTO

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

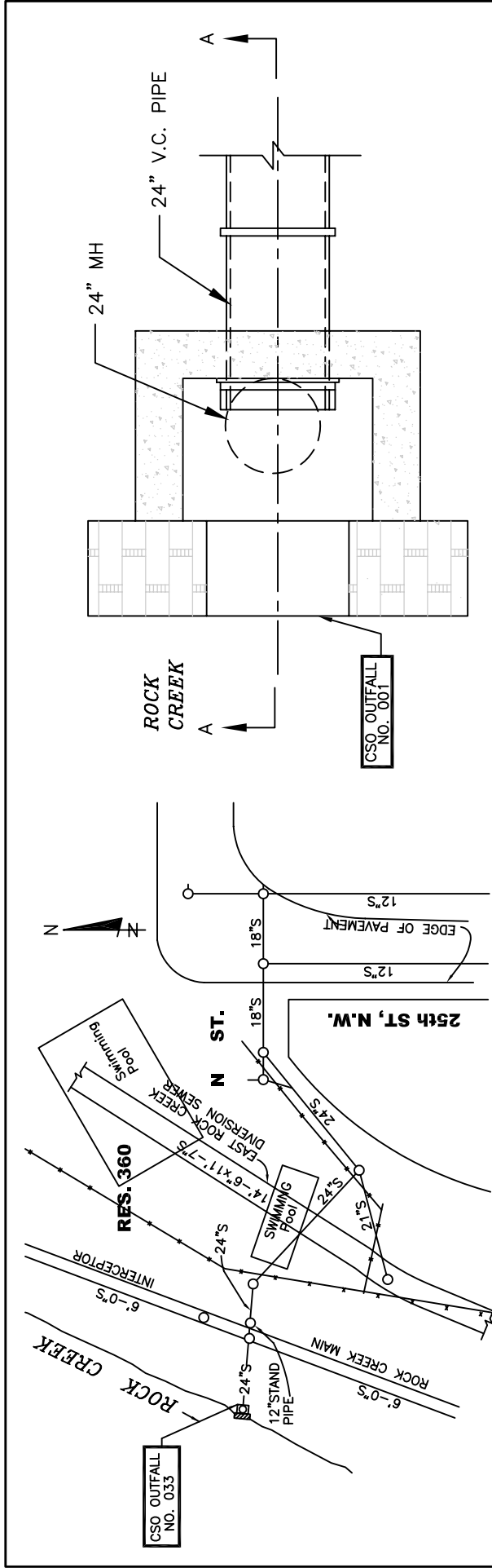


PLAN
N.T.S.



FRONT VIEW
N.T.S.

NPDES NO.
032

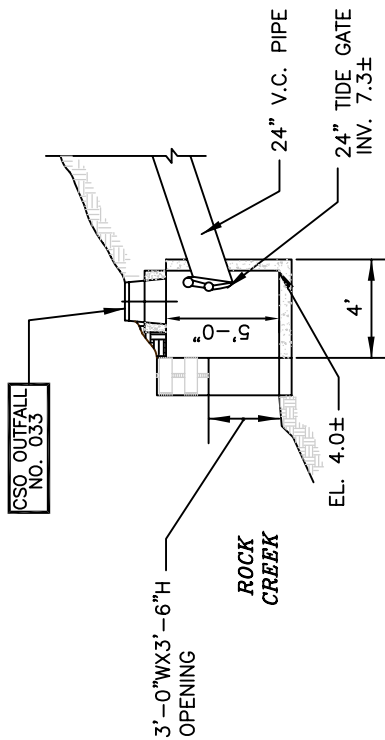


PLAN
N.T.S.



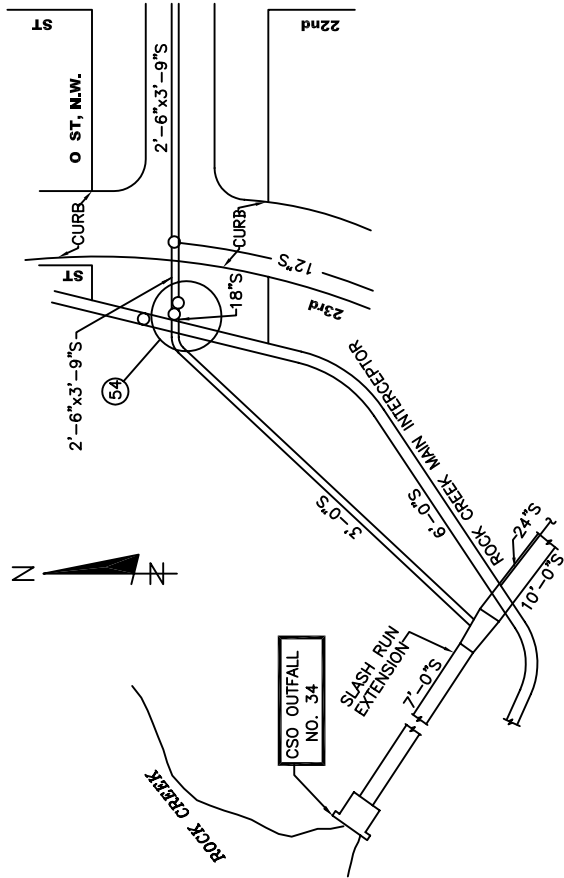
PHOTO

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



SECTION A-A
N.T.S.

NPDES NO.
033

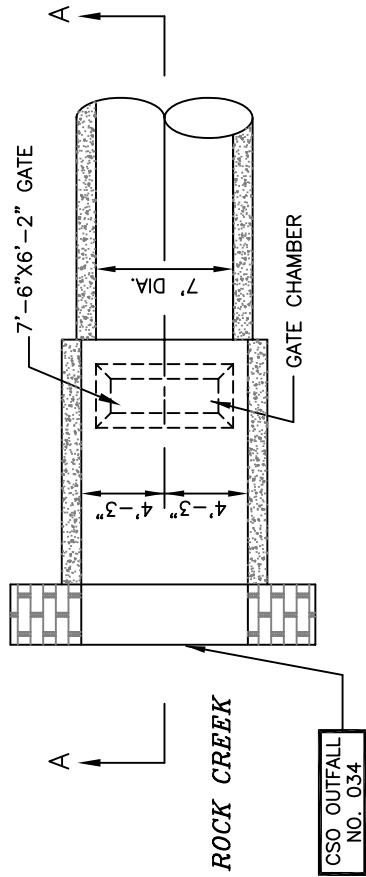


SITE PLAN
SCALE: 1" = 100'

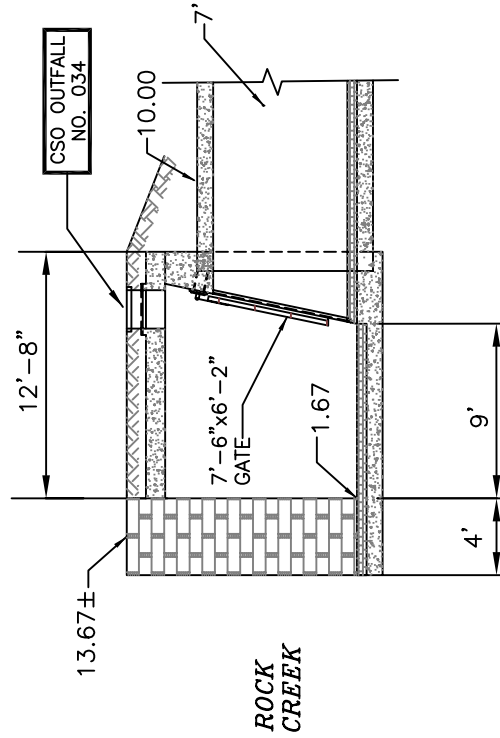


PHOTO

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

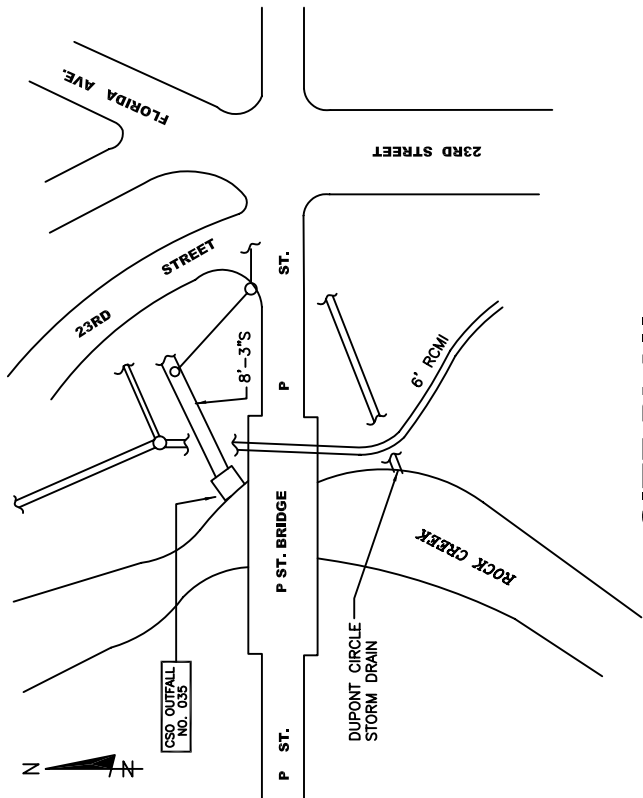


PLAN
N.T.S.



SECTION A-A
N.T.S.

NPDES NO.
034



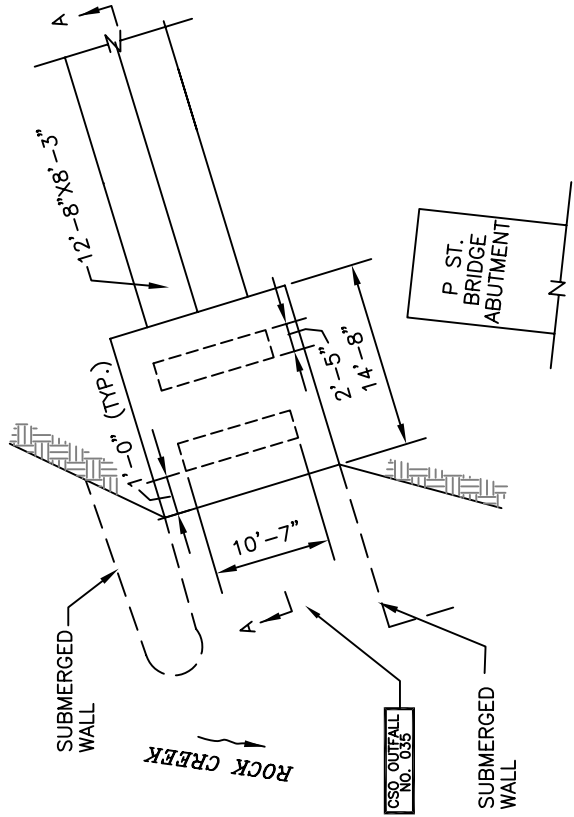
SITE PLAN

N.T.S.



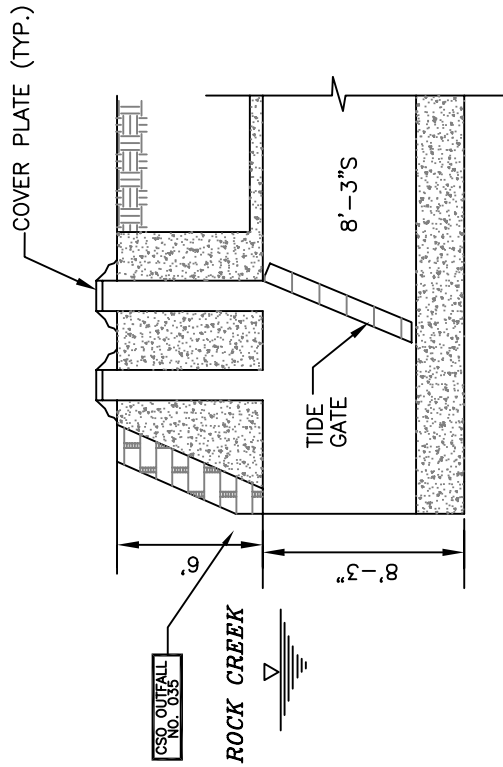
PHOTO

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



PLAN

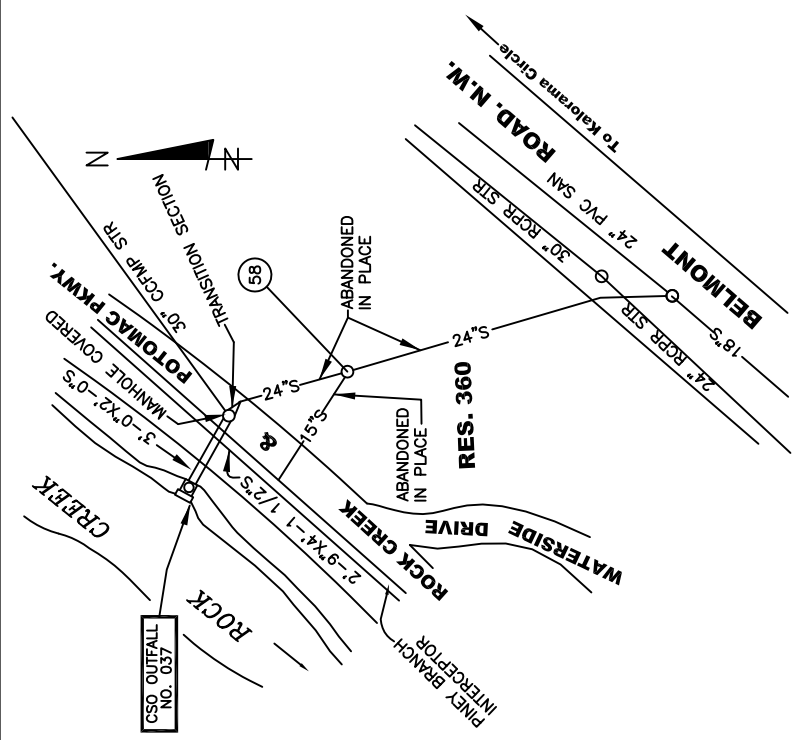
N.T.S.



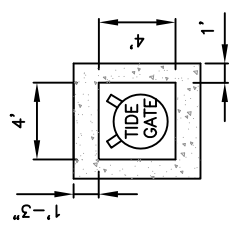
SECTION A-A

N.T.S.

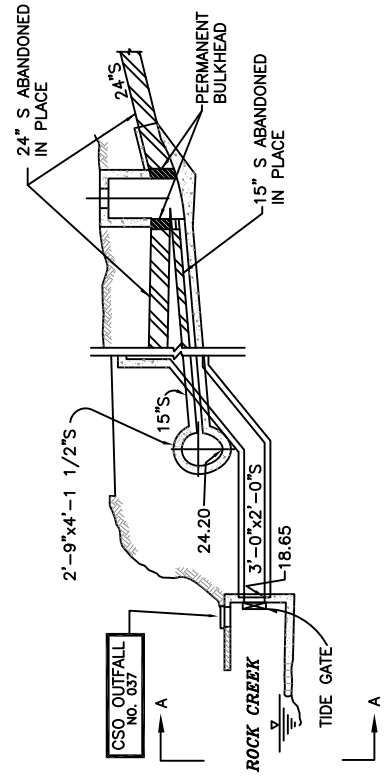
NPDES NO.
035



SITE PLAN
SCALE: 1" = 100'



SECTION A-A
N.T.S.



PROFILE
N.T.S.

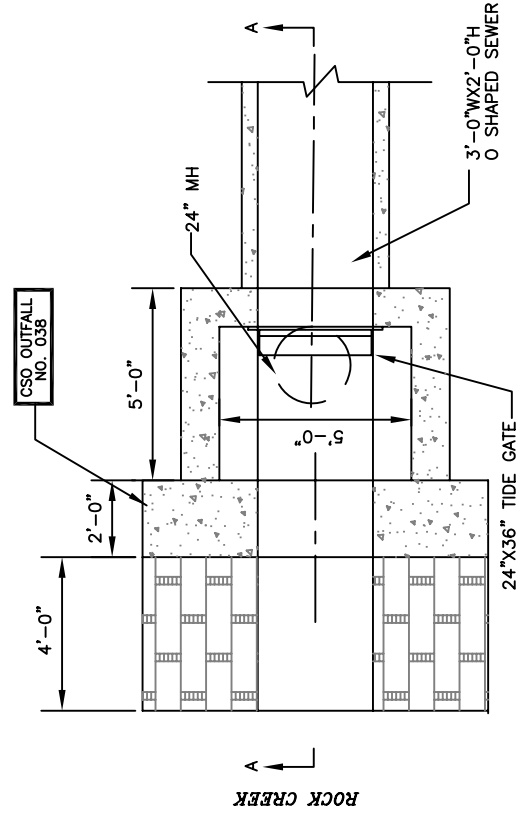
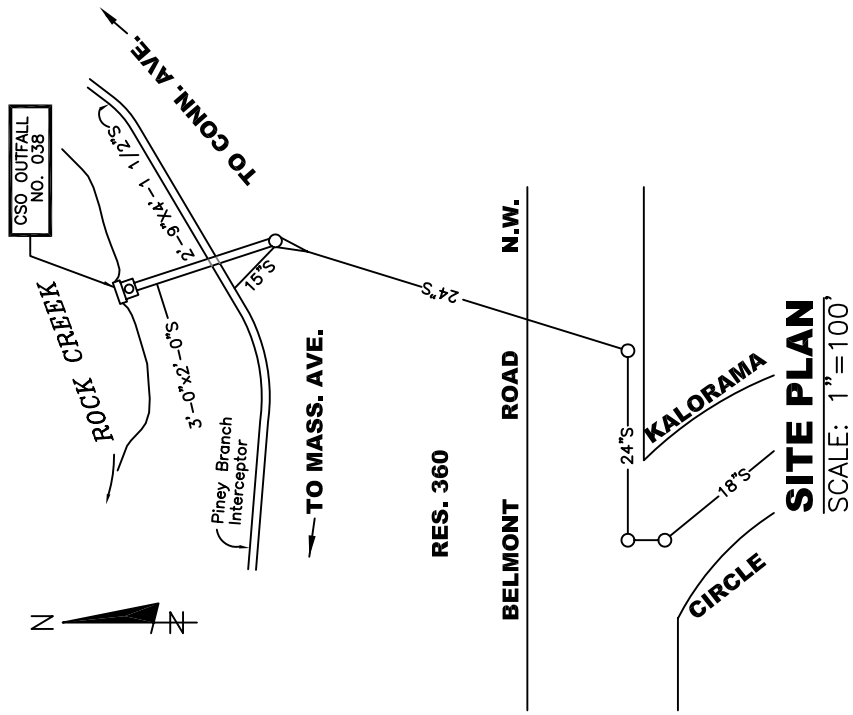


PHOTO

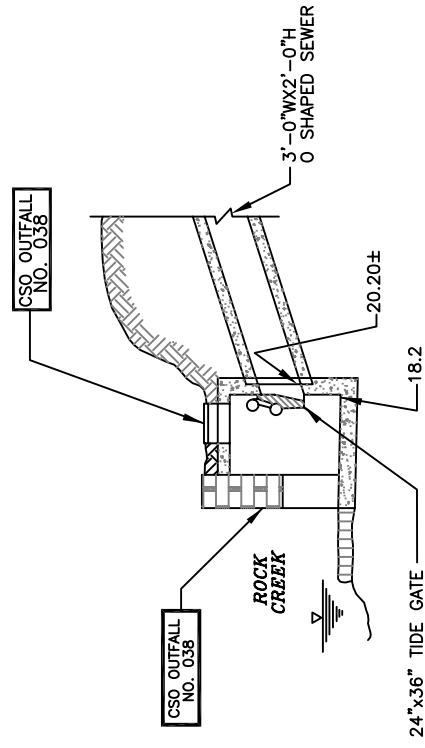
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: FEBRUARY 2012
 OUTFALL TYPE: CSO

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

NPDES NO.
 037



PLAN
N.T.S.



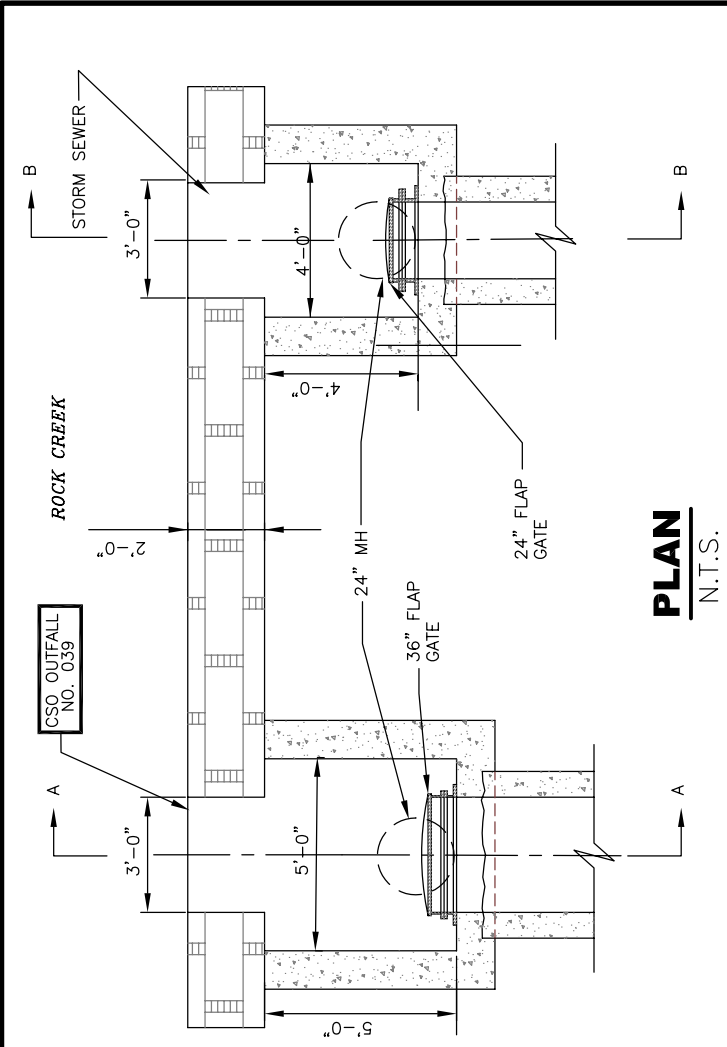
SECTION A-A
N.T.S.



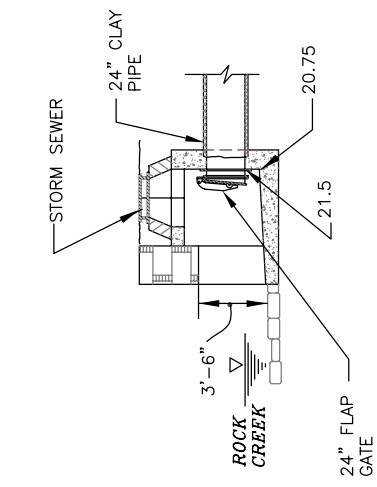
PHOTO

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

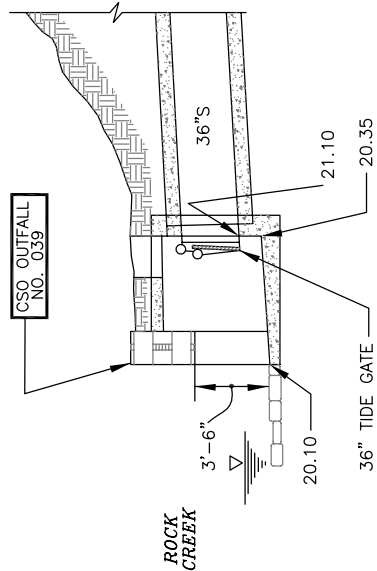
NPDES NO.
038



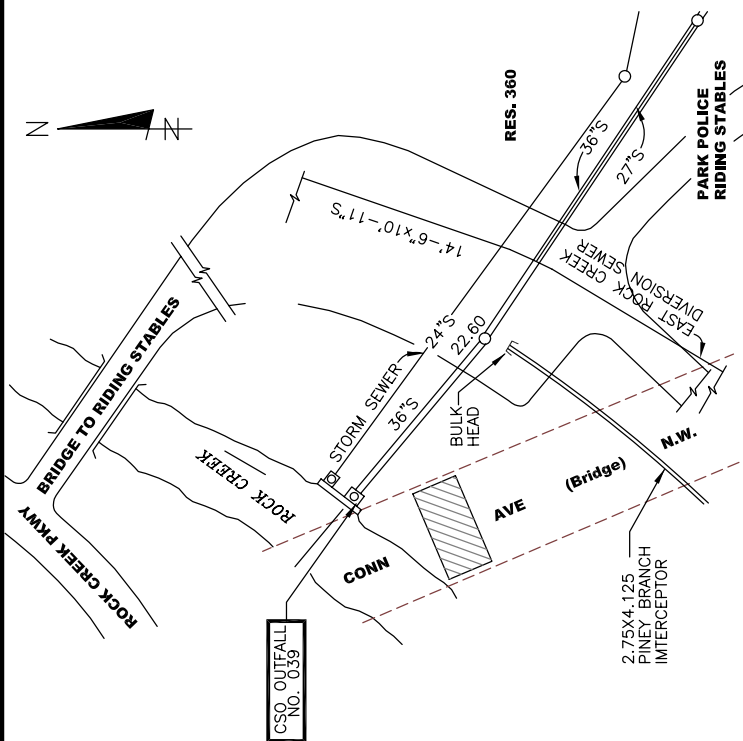
PLAN
N.T.S.



SECTION B-B
N.T.S.



SECTION A-A
N.T.S.



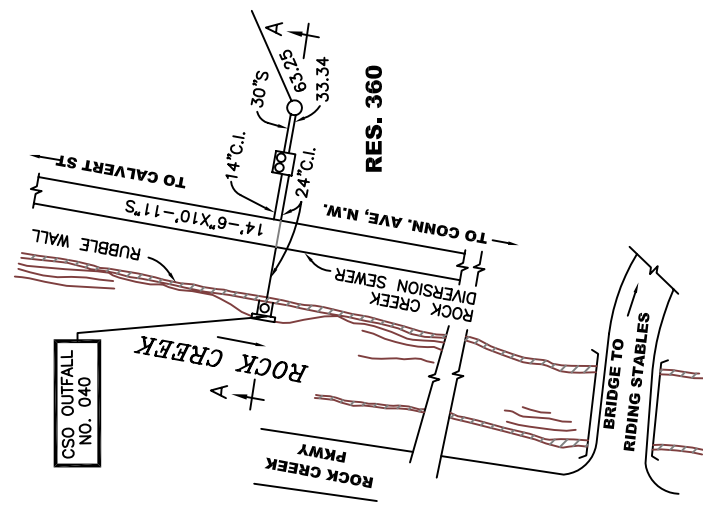
SITE PLAN
SCALE: 1"=100'



PHOTO
CSO OUTFALL
STORM SEWER

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

NPDES NO.
039

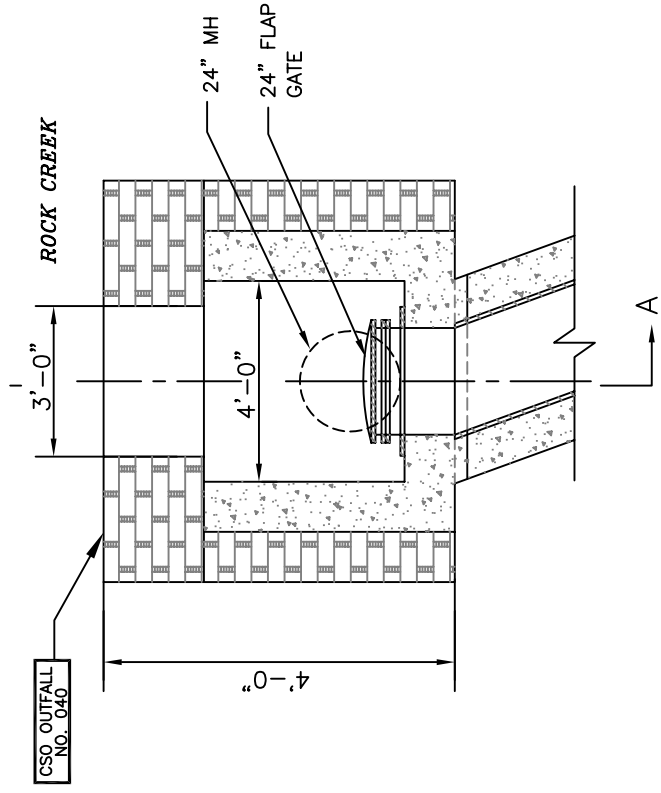


DI AMI
SITE PLAN
SCALE: 1"=100'

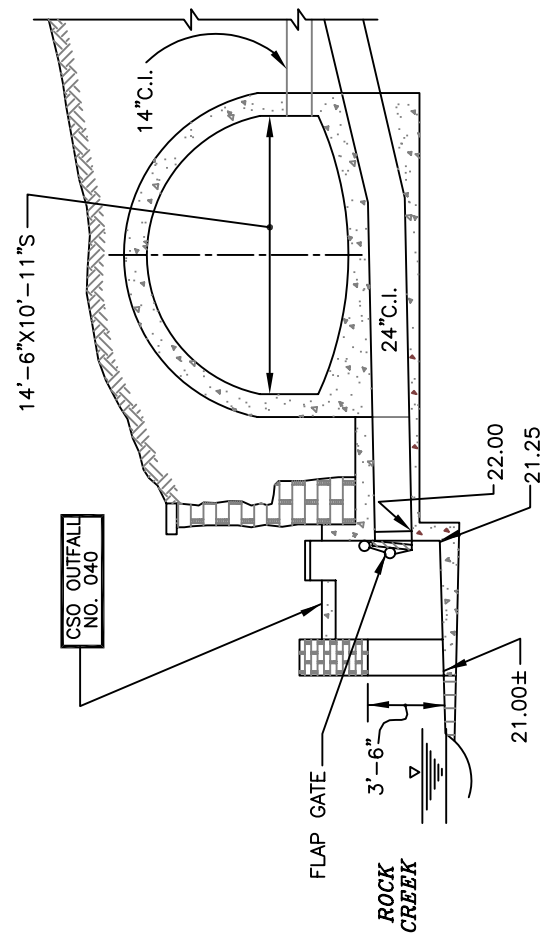


PHOTO

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

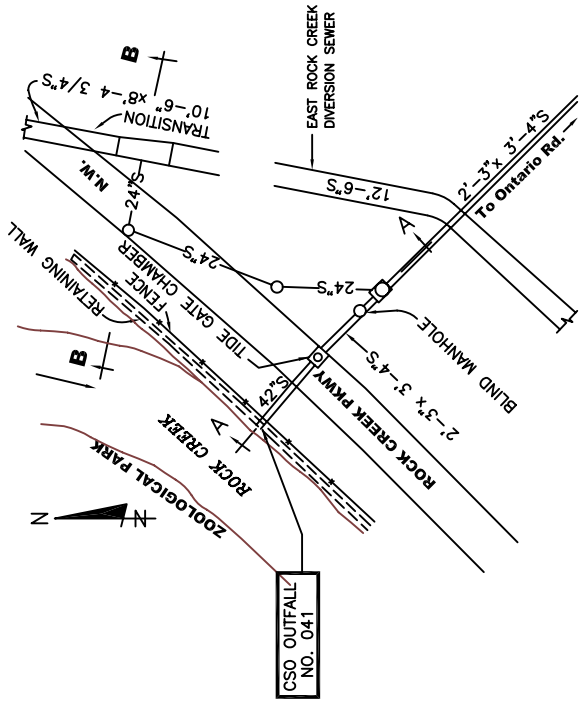


PLAN
N.T.S.

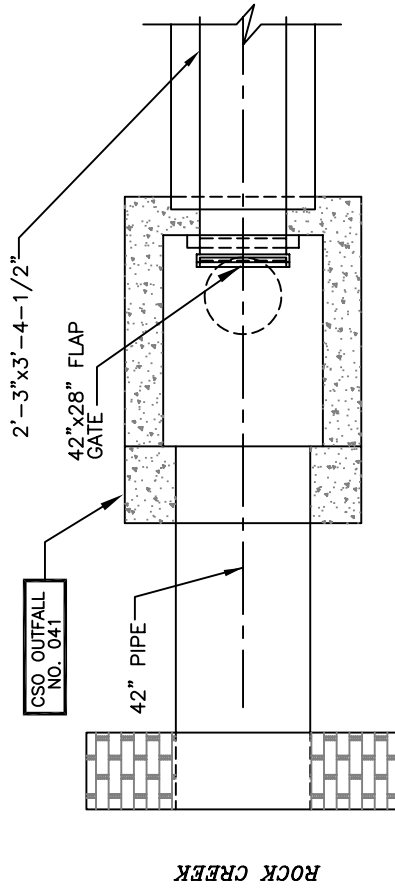


SECTION A-A
SCALE: 1"=10'

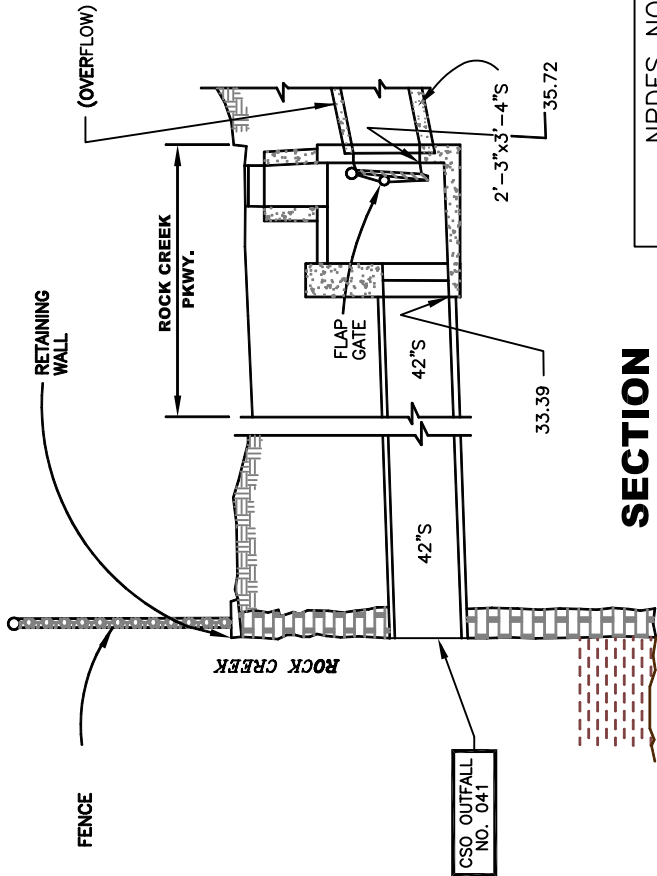
NPDES NO.
040



SITE PLAN
SCALE: 1"=100'



PLAN
N.T.S.



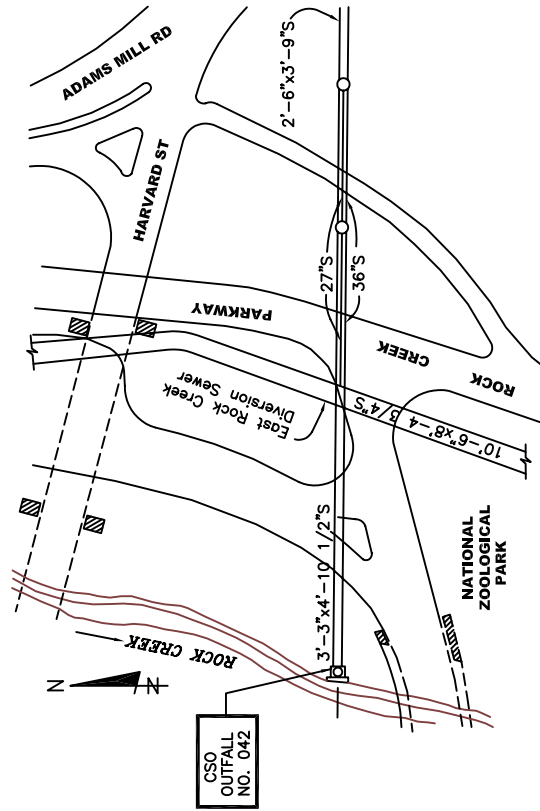
SECTION
N.T.S.



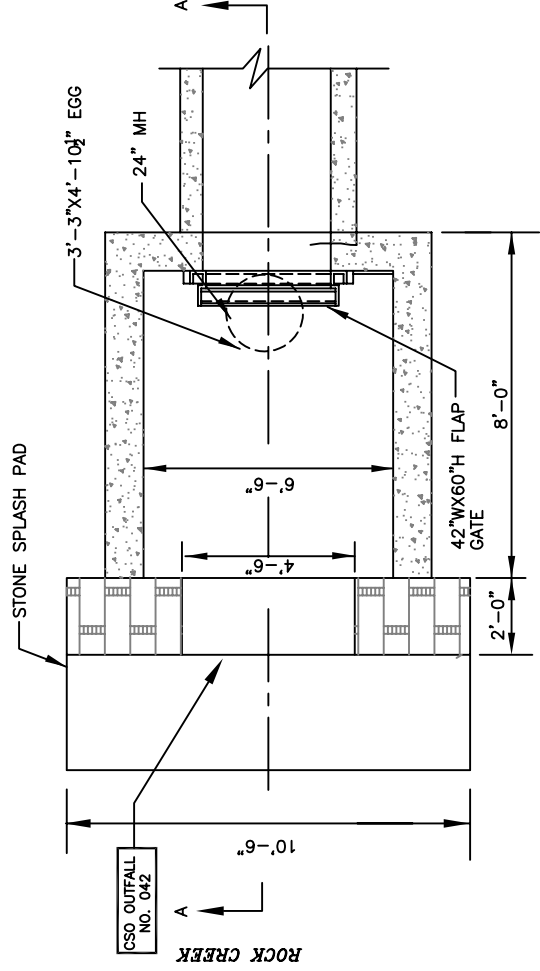
PHOTO

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

NPDES NO.
041



SITE PLAN
SCALE: 1" = 100'

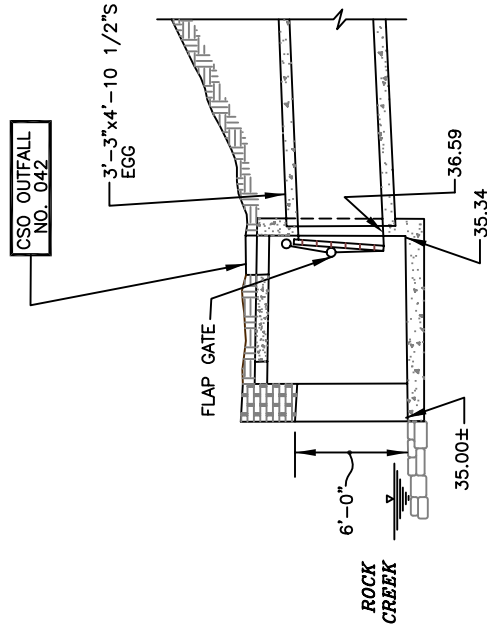


PLAN
N.T.S.



PHOTO

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



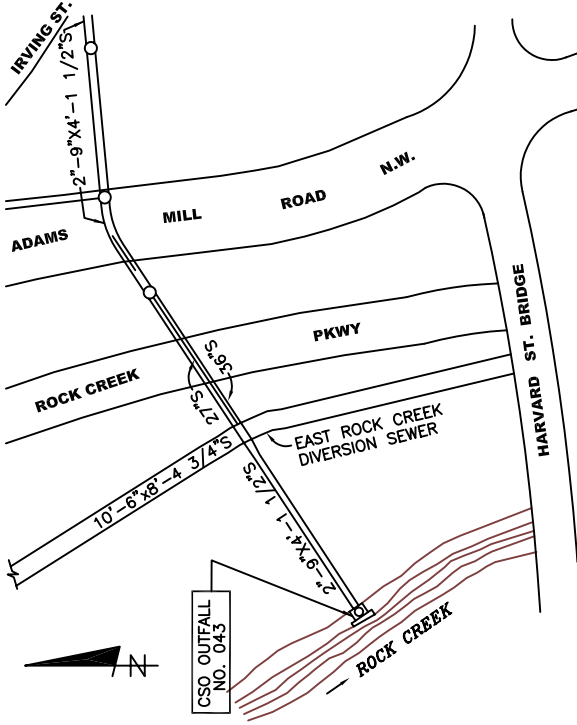
SECTION A-A
N.T.S.

NPDES NO.
042

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

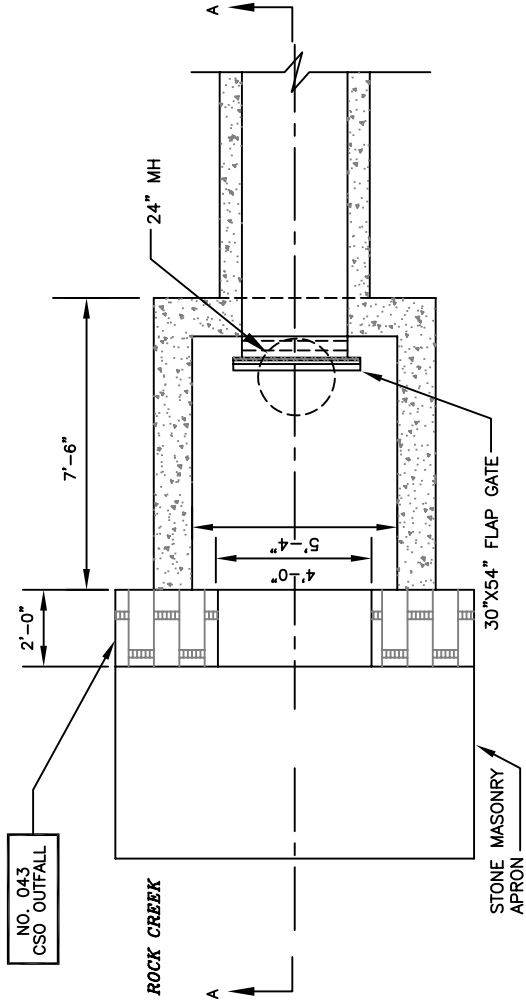


PHOTO



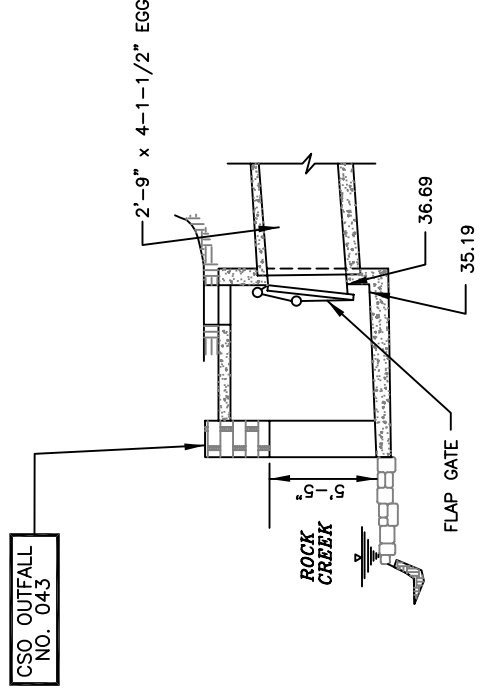
SITE PLAN

N.T.S.



PLAN

N.T.S.



SECTION A-A

N.T.S.

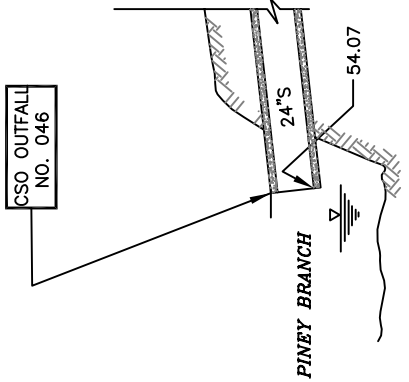
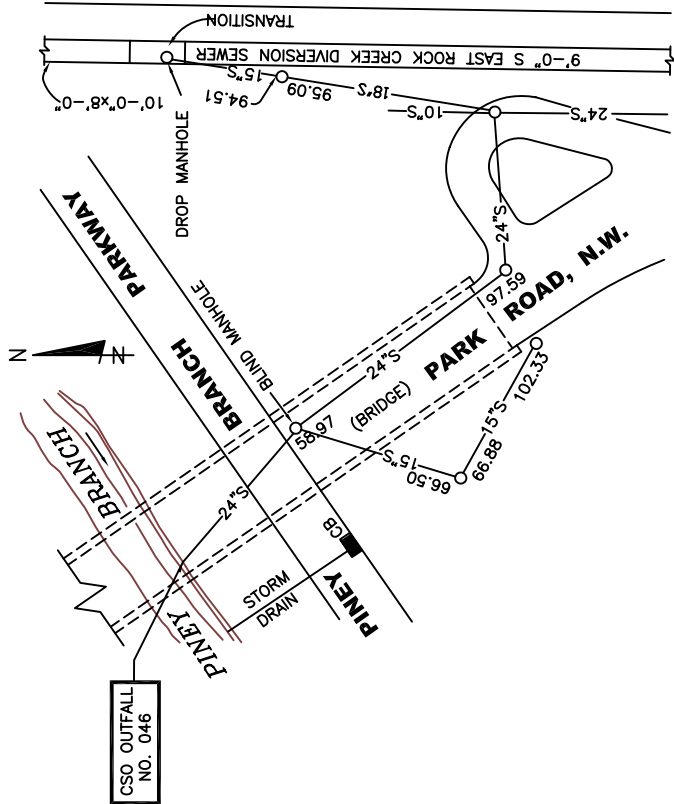
NPDES NO.
 043

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

PHOTO

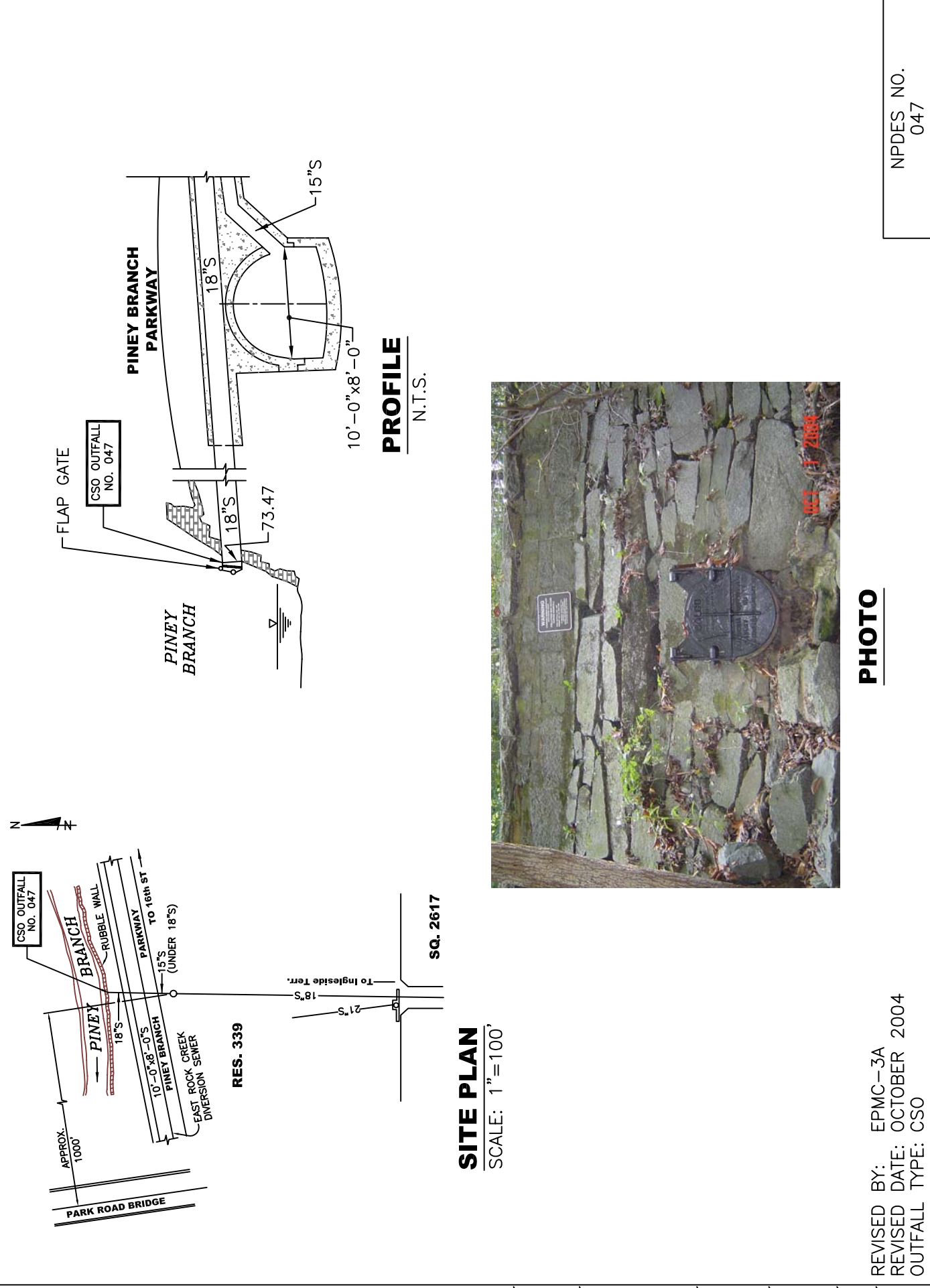


SITE PLAN
SCALE: 1"=100'



PROFILE
N.T.S.

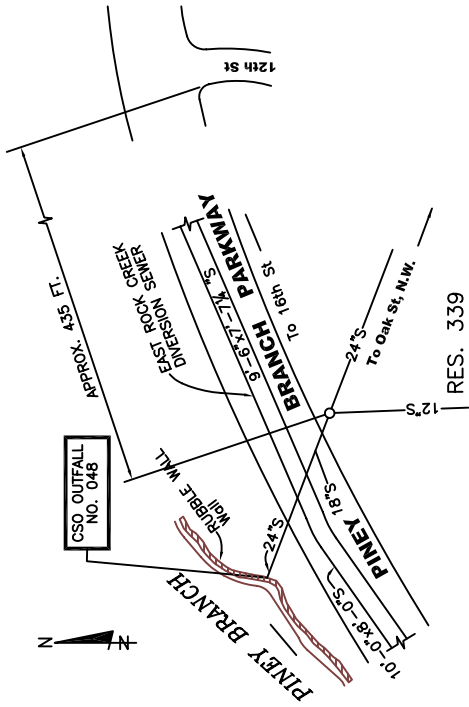
NPDES NO.
046



PHOTO

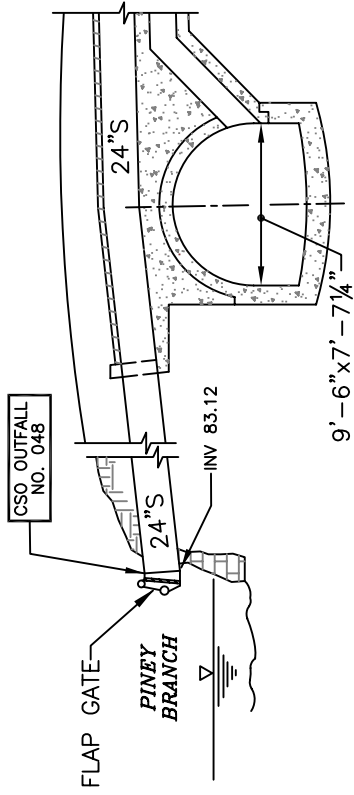
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO

NPDES NO.
047



SITE PLAN

SCALE: 1" = 100'



PROFILE

N.T.S.

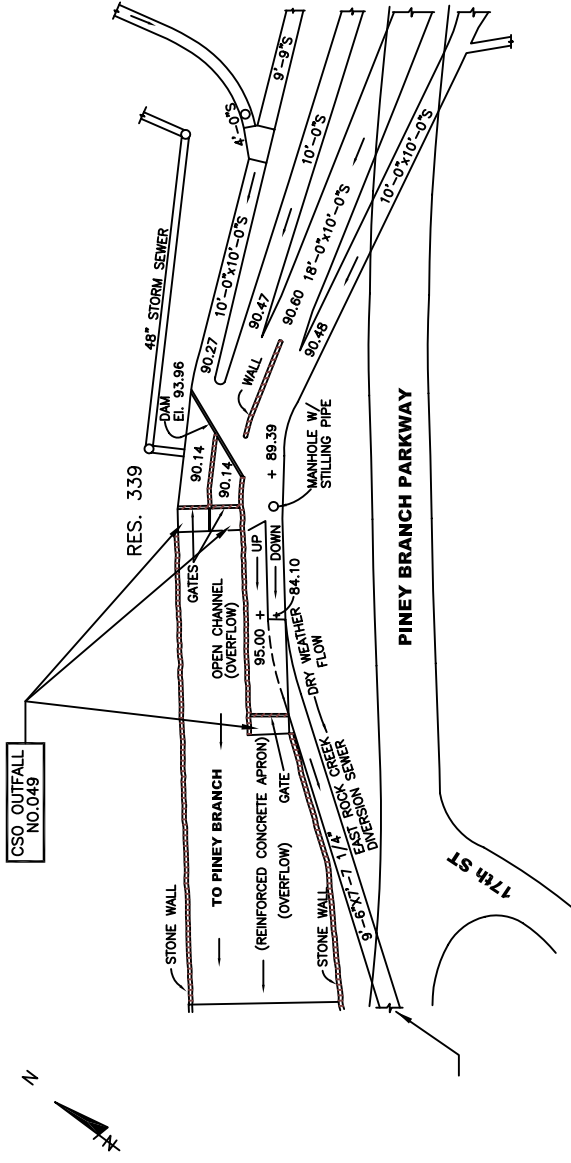


PHOTO

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

NPDES NO.
 048

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

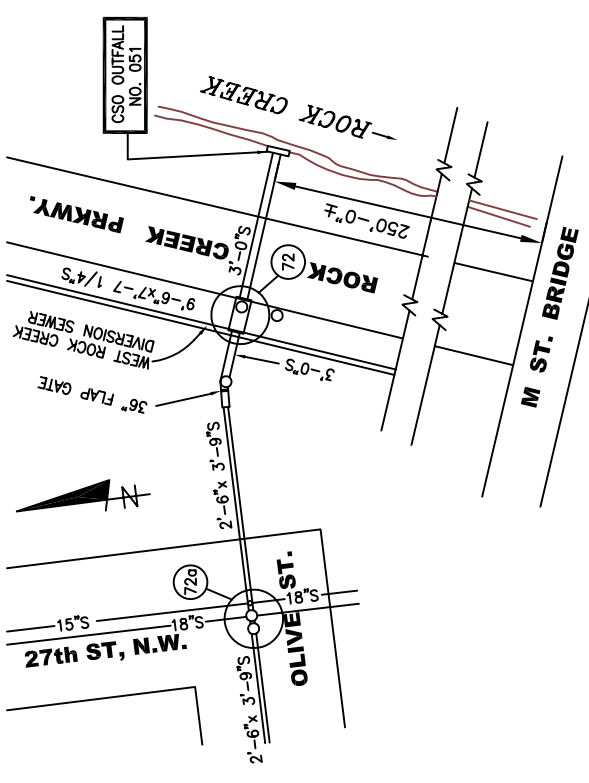


SITE PLAN
 SCALE: 1"=100'

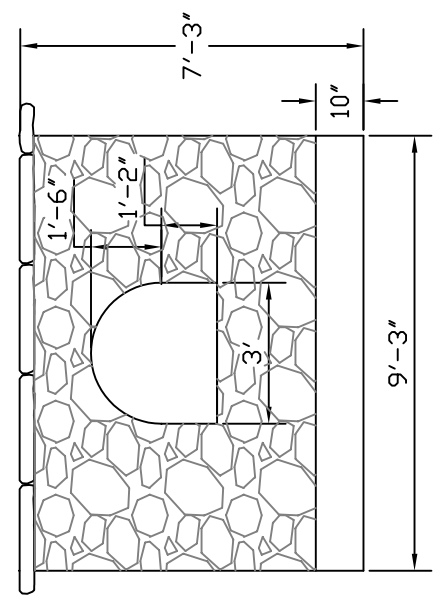
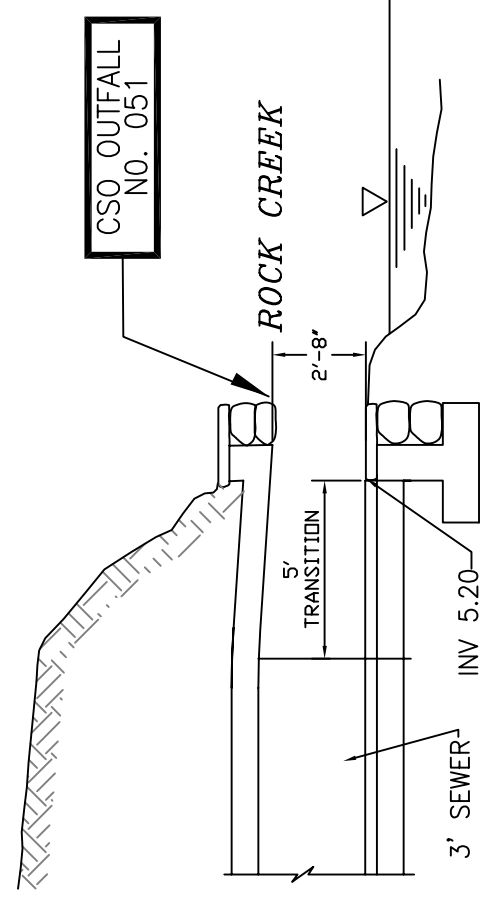


PHOTO

NPDES NO.
 049



PHOTO

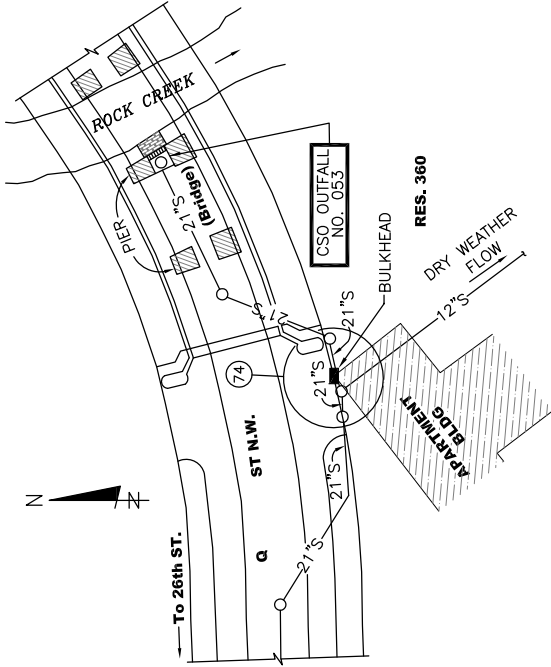


REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO

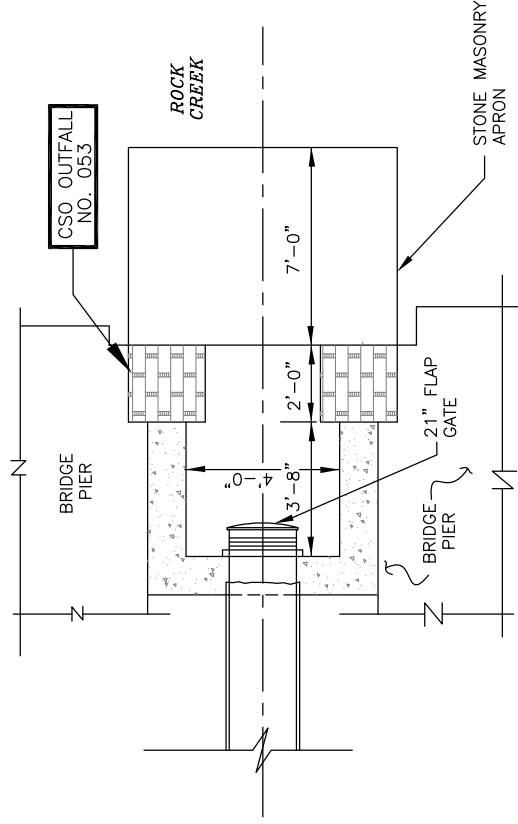
PROFILE
N.T.S.

ELEVATION
N.T.S.

NPDES NO.
051



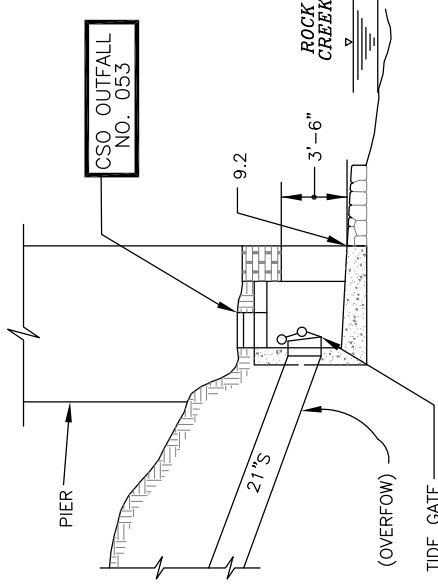
SITE PLAN
SCALE: 1" = 100'



SITE PLAN
N.T.S.



PHOTO

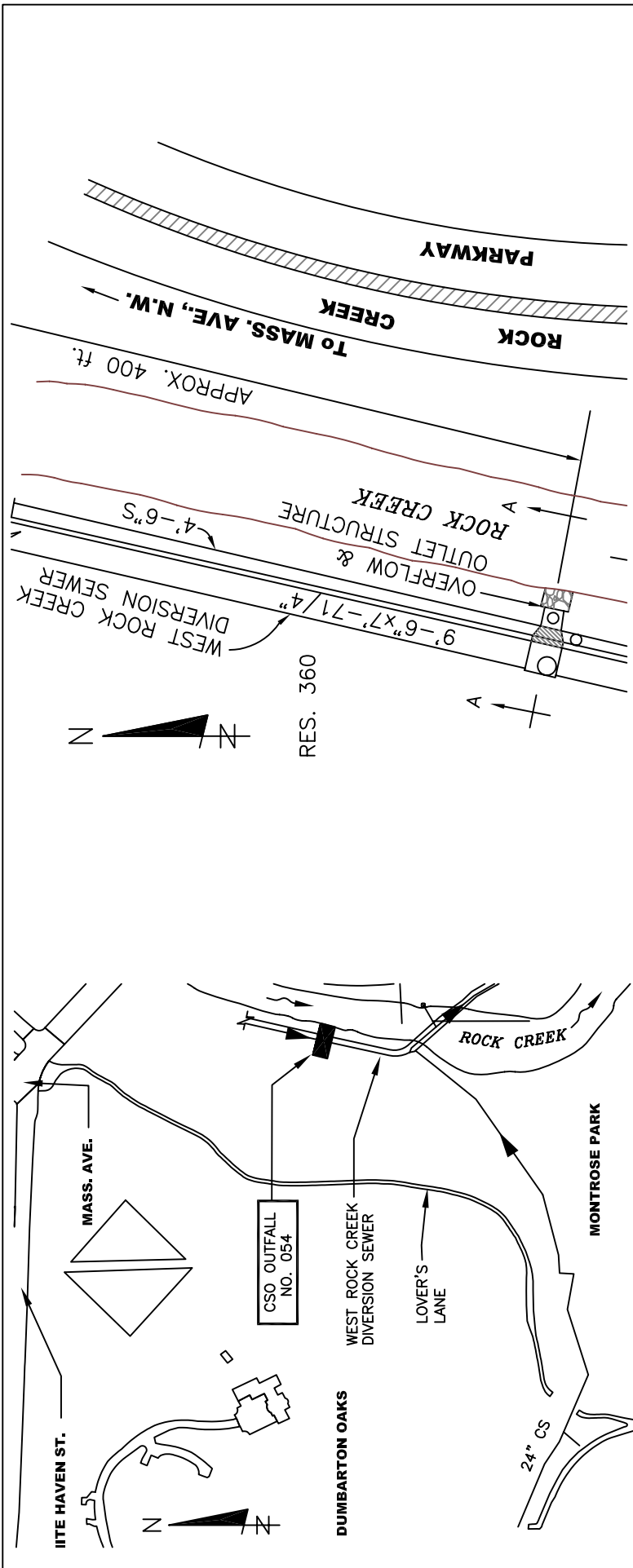


SECTION
SCALE: 1" = 10'

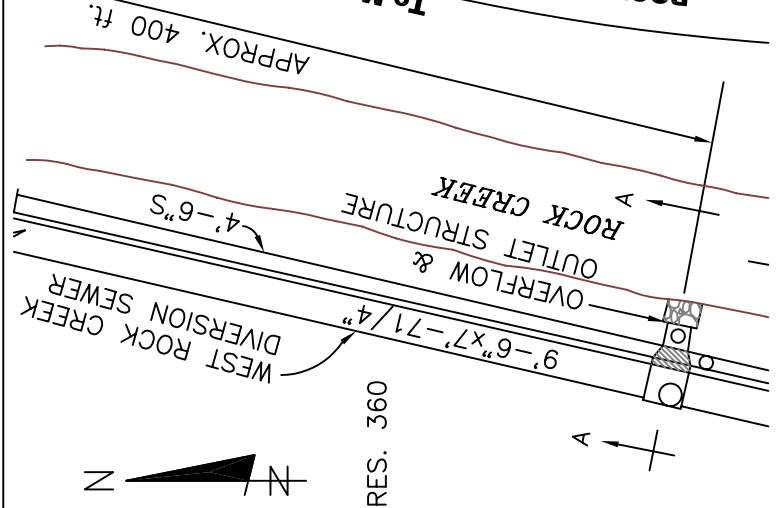
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2015
 OUTFALL TYPE: CSO

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

NPDES NO.
 053



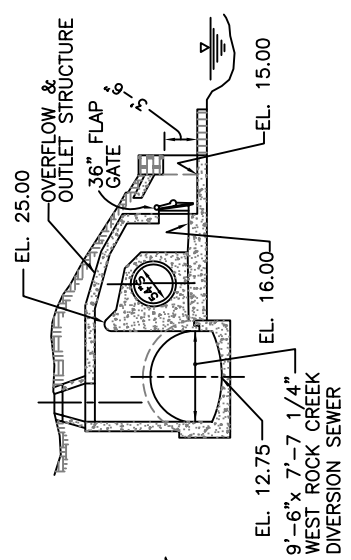
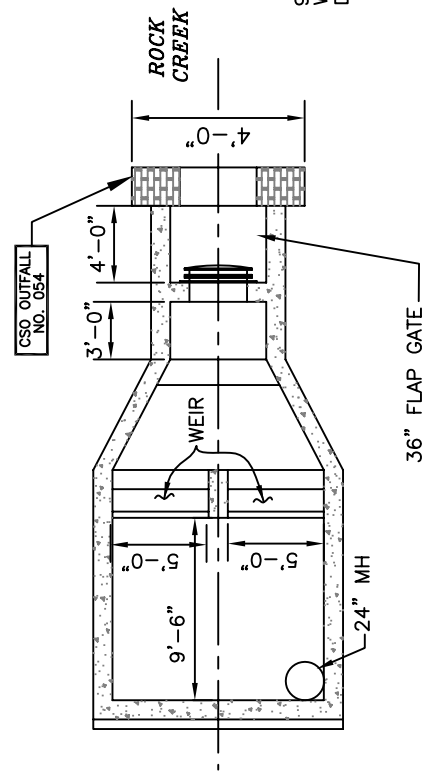
SITE PLAN
SCALE: 1" = 300'



DETAIL PLAN
N.T.S.



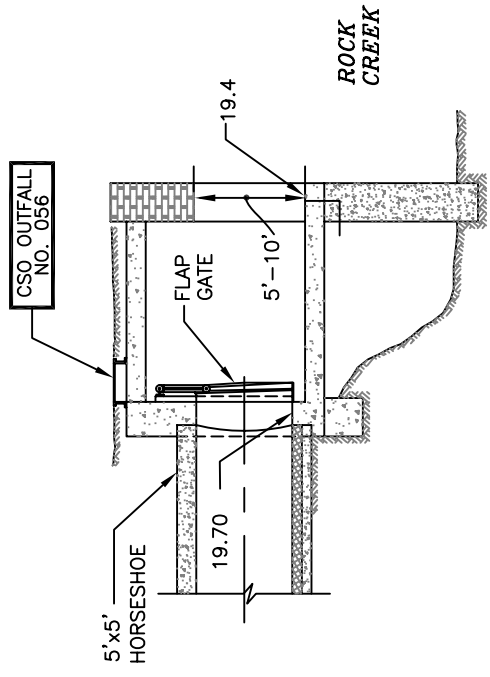
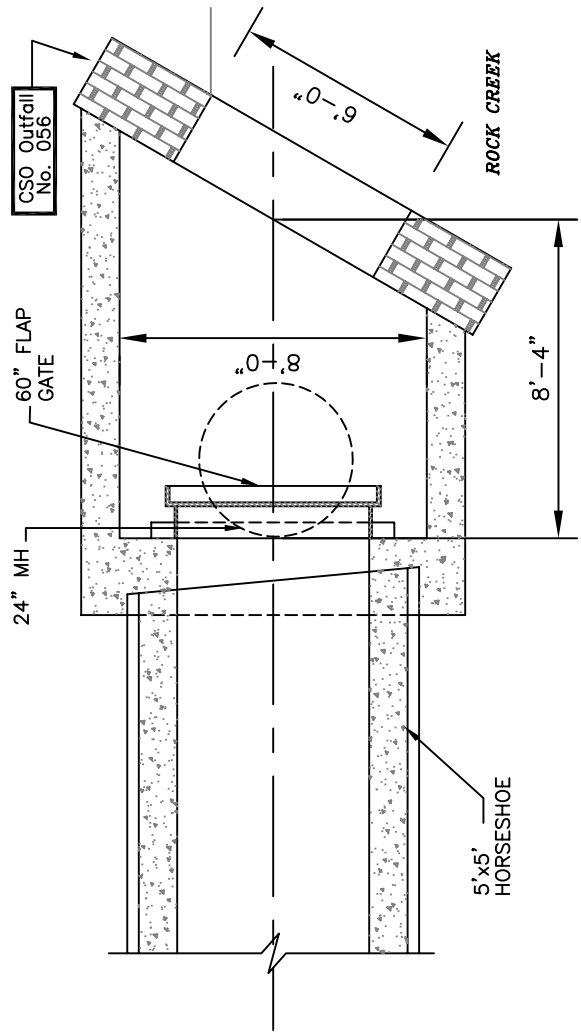
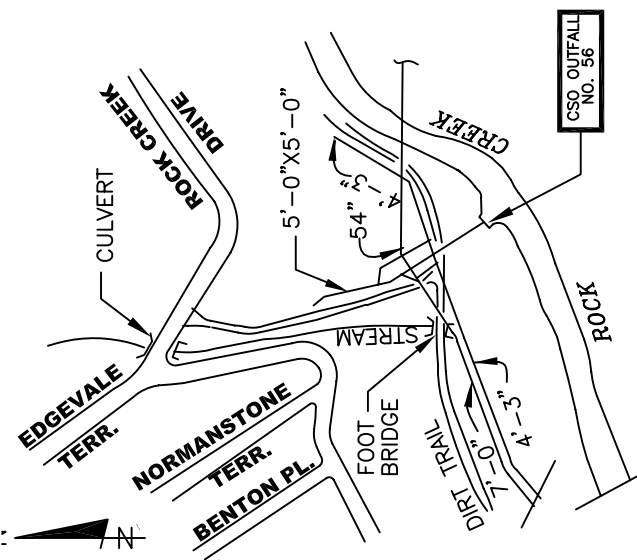
PHOTO
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



SECTION A-A
N.T.S.

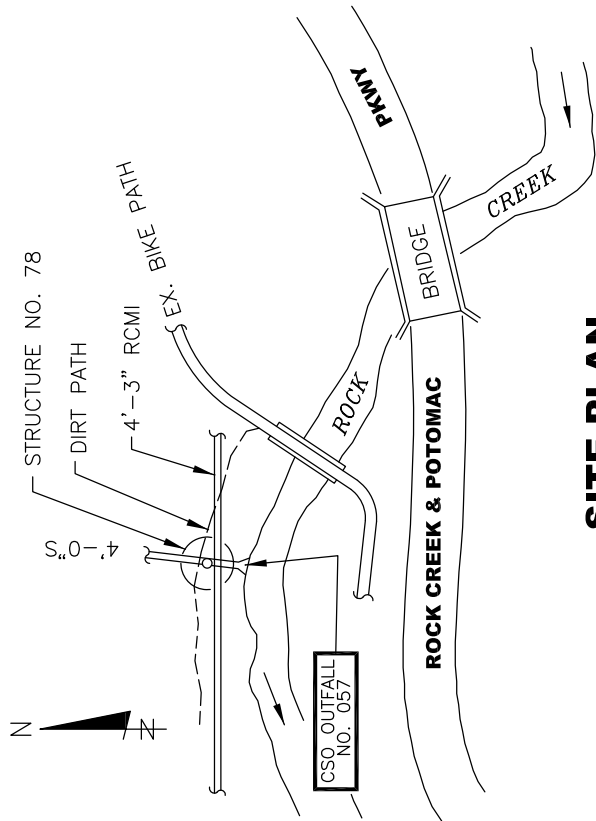
NPDES NO.
054

PLAN
SCALE: 1" = 10'



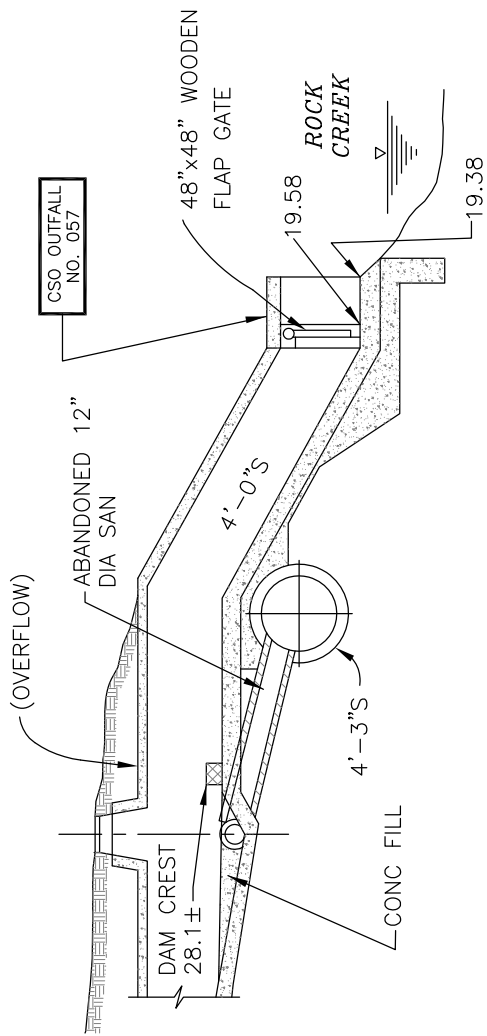
REVISED BY: EPMC-3A
 REVISED DATE: OCTOBER 2004
 OUTFALL TYPE: CSO

NPDES NO.
056



SITE PLAN

N.T.S.



SECTION

N.T.S.

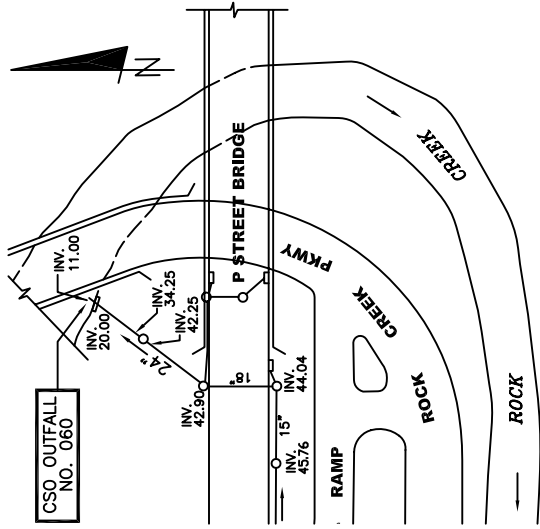


PHOTO

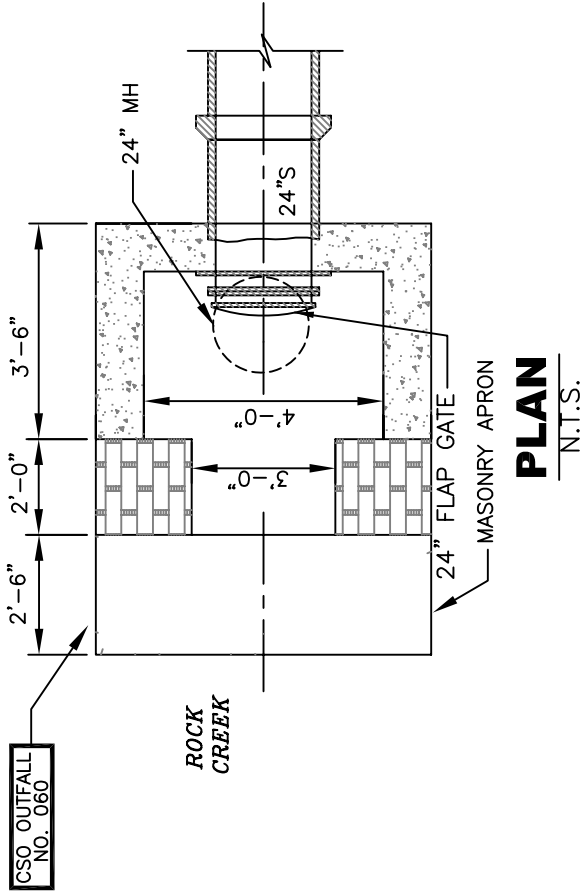
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: MARCH 2015
 OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED
 INTO A SEPARATE STORM SEWER OUTFALL

NPDES NO.
 057



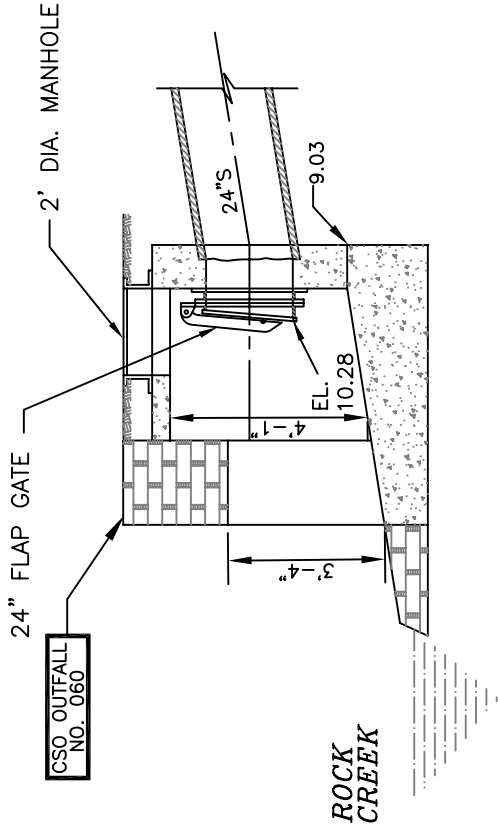
SITE PLAN
N.T.S.



PLAN
N.T.S.



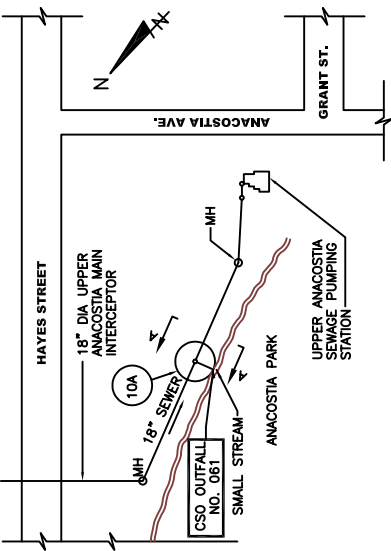
PHOTO



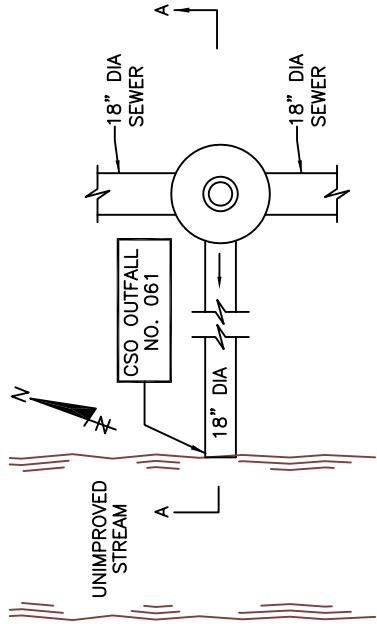
SECTION A-A
N.T.S.

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

NPDES NO.
060



SITE PLAN
SCALE: 1" = 60'

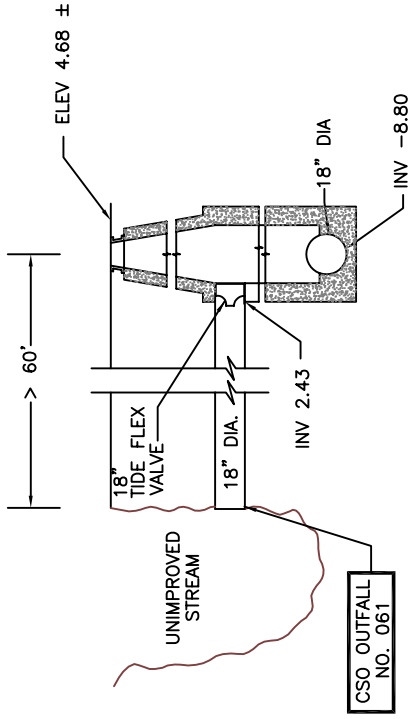


PLAN
N.T.S.



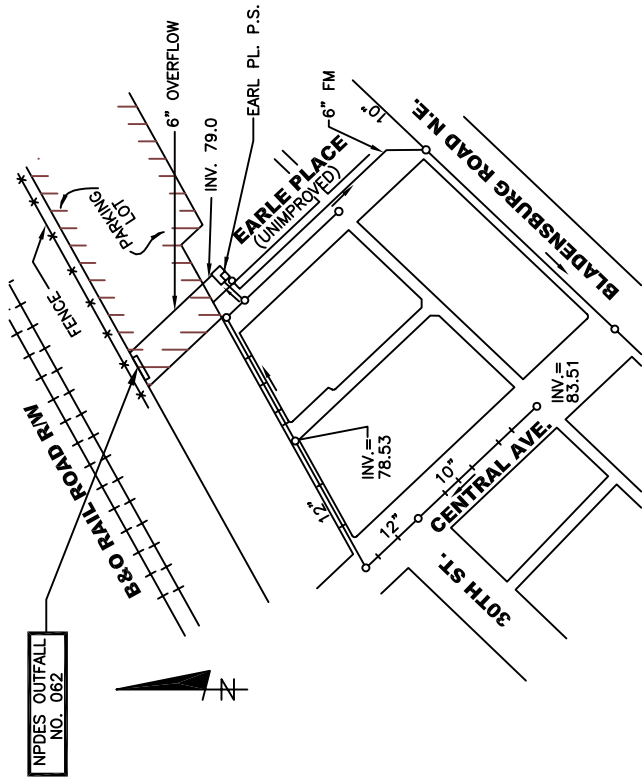
PHOTO

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



SECTION A-A
N.T.S.

NPDES NO.
061



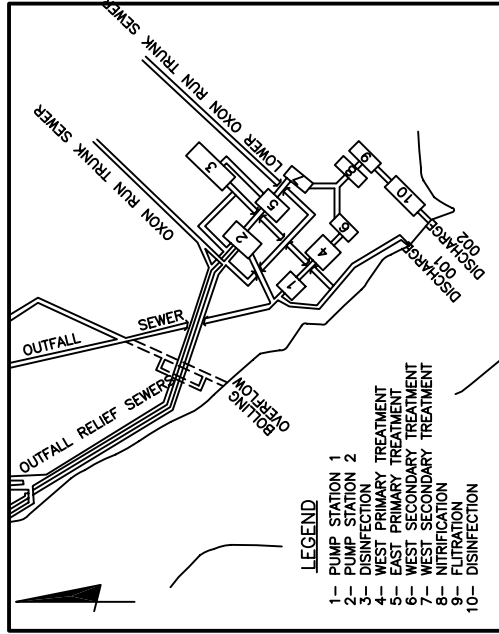
PLAN
N.T.S.

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

NPDES NO.
062

Section 4

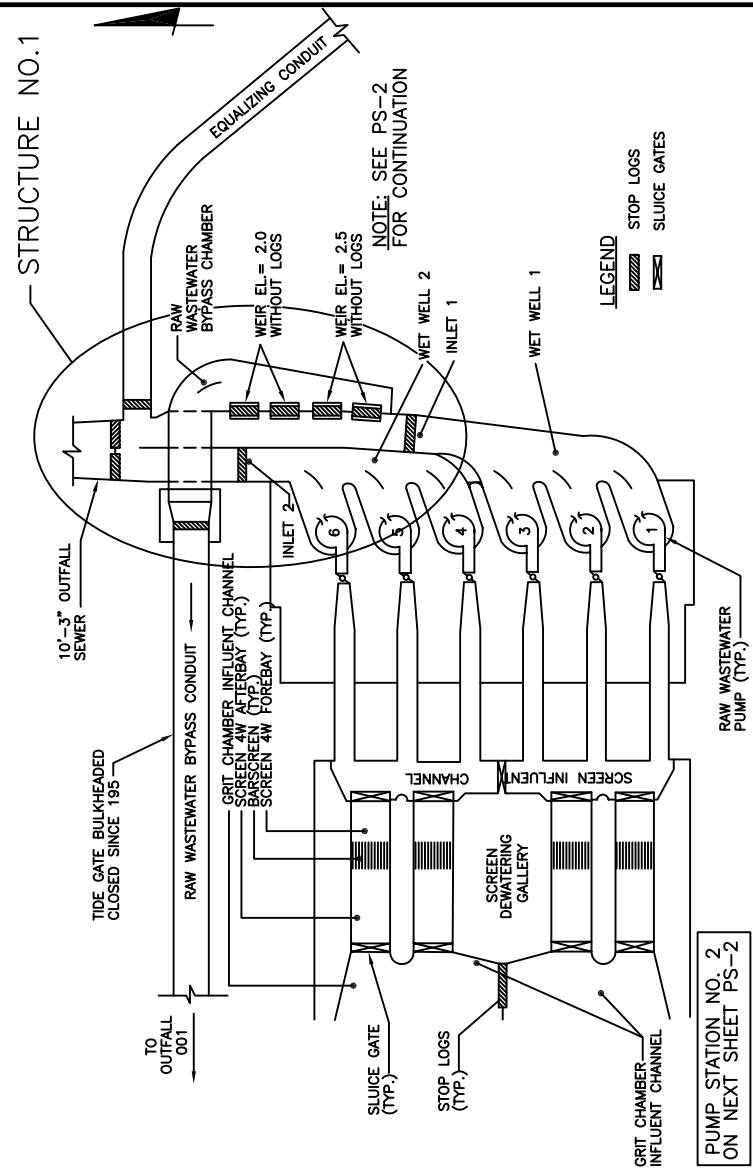
Pumping Stations



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 equalizing 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.

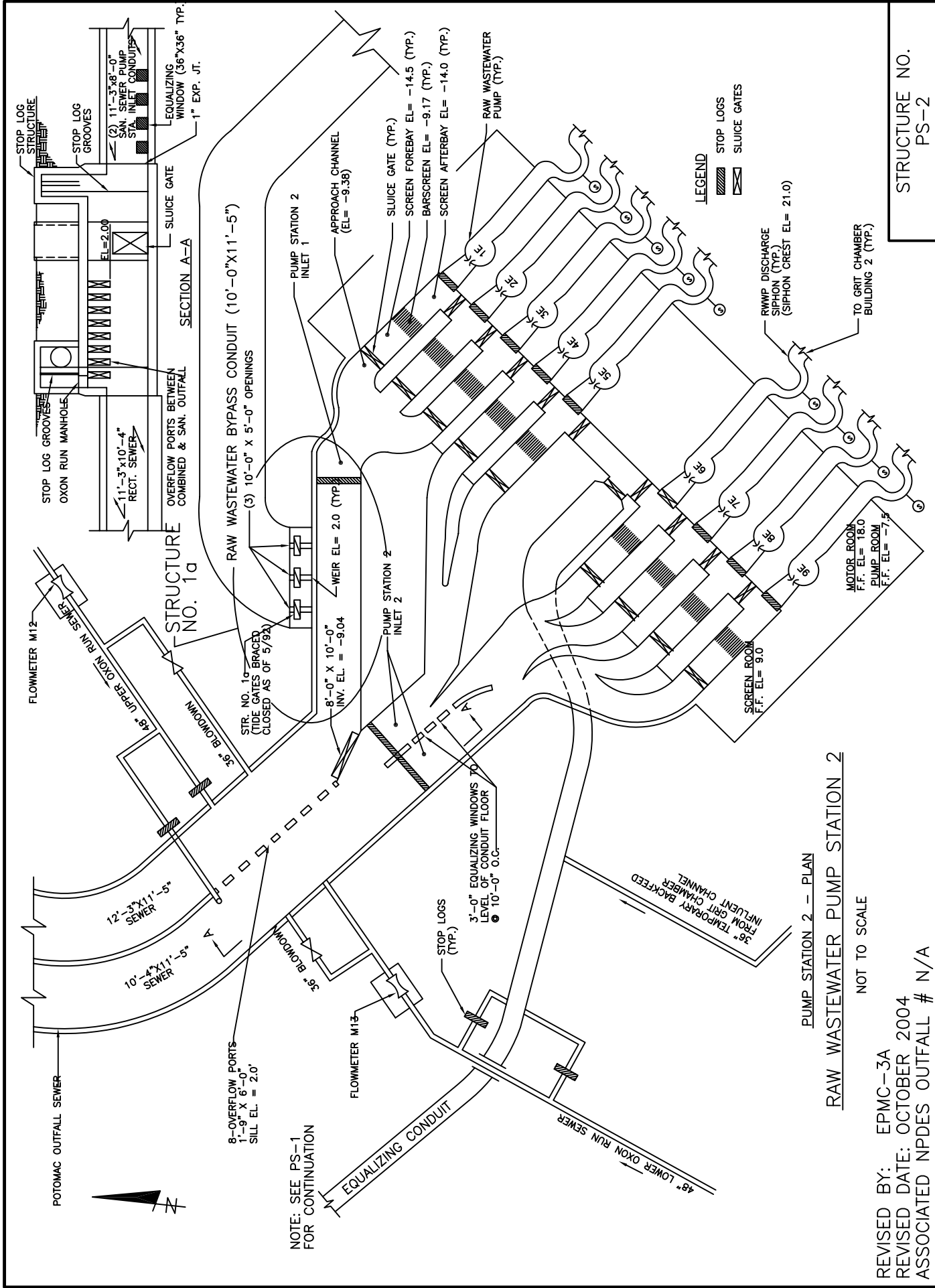


GRIT CHAMBER BUILDING 1
RAW WASTEWATER PUMP STATION 1
PUMP STATION - PLAN

RAW WASTEWATER PUMP STATION NO. 1
NOT TO SCALE

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

STRUCTURE NO.
PS-1



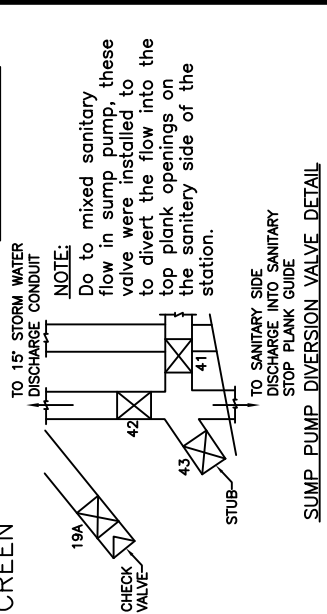
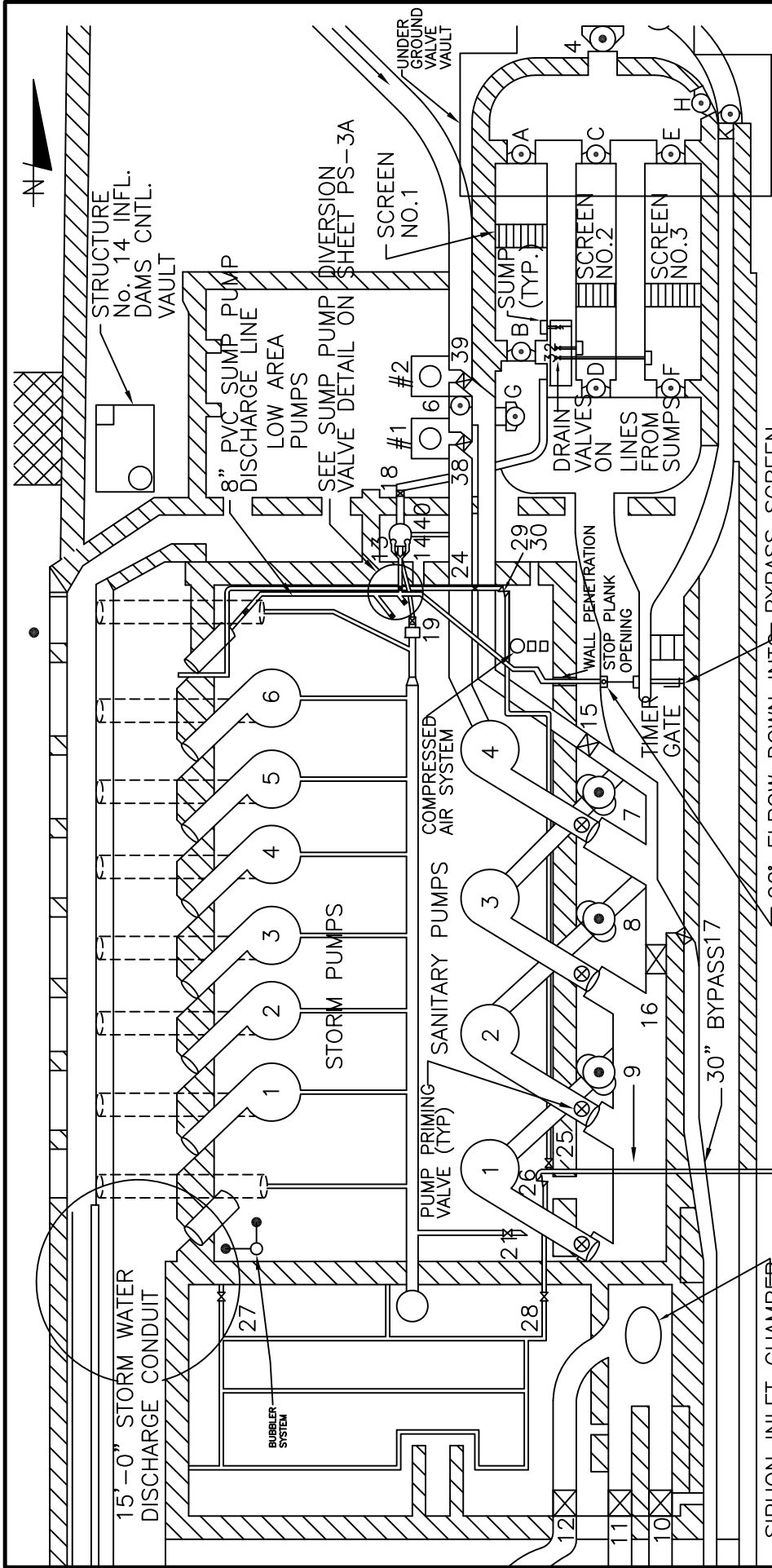
LEGEND
 STOP LOGS
 SLUICE GATES

PUMP STATION 2 - PLAN
RAW WASTEWATER PUMP STATION 2

NOT TO SCALE

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

STRUCTURE NO.
 PS-2



NOTE:
Do to mixed sanitary flow in sump pump, these valve were installed to divert the flow into the top plank openings on the sanitary side of the station.

TO 15" STORM WATER DISCHARGE CONDUIT

TO SANITARY SIDE DISCHARGE INTO SANITARY STOP PLANK GUIDE

SUMP PUMP DIVERSION VALVE DETAIL

MAIN SEWAGE PUMPING STATION -- DETAIL OF PUMPING ROOM

NOT TO SCALE

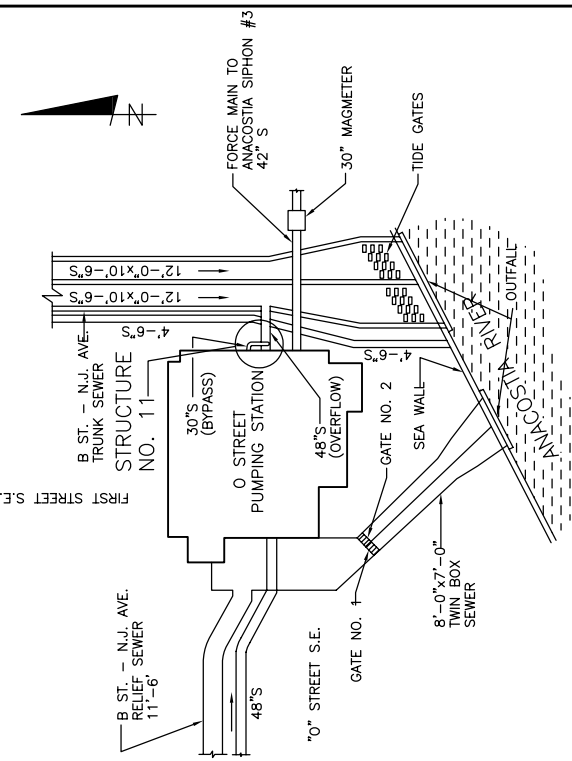
NOTE:
This drawing is provided for further clarification to the pumping room of the Main Sewage Pump Station.

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
 REVISED DATE: FEBRUARY 2012
 ASSOCIATED NPDES OUTFALL # N/A

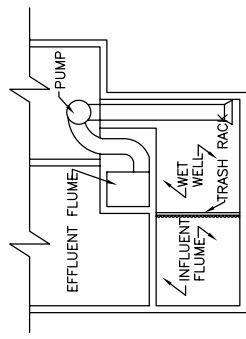
STRUCTURE NO.
PS-3a

O STREET SEWAGE PUMPING STATION

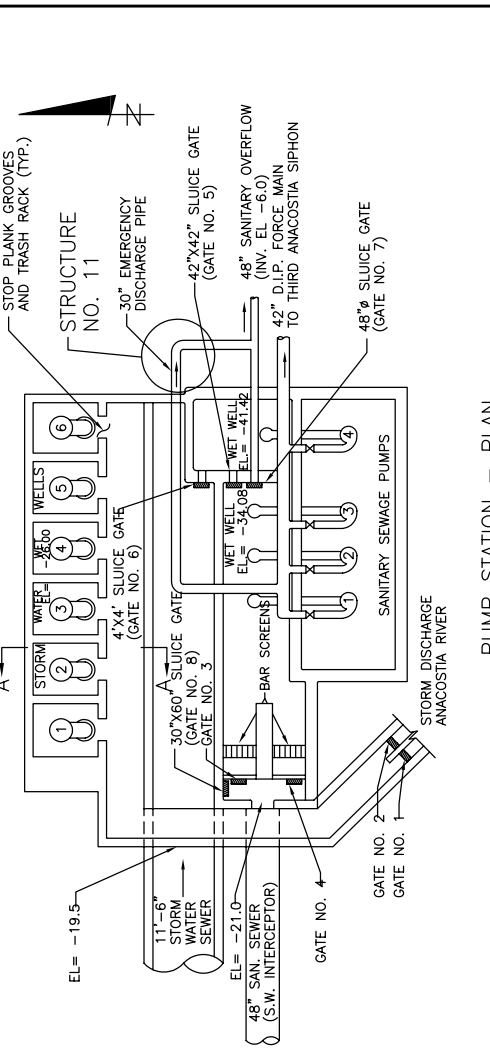
The pumping station is divided into a "sanitary" side, which pumps separate sanitary sewage from S.W. Washington, and a storm side, which pumps combined overflow from the B St. - New Jersey Ave. trunk sewer and separate storm drainage from S.W. Washington. There are six stormwater pumps rated at 100 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.



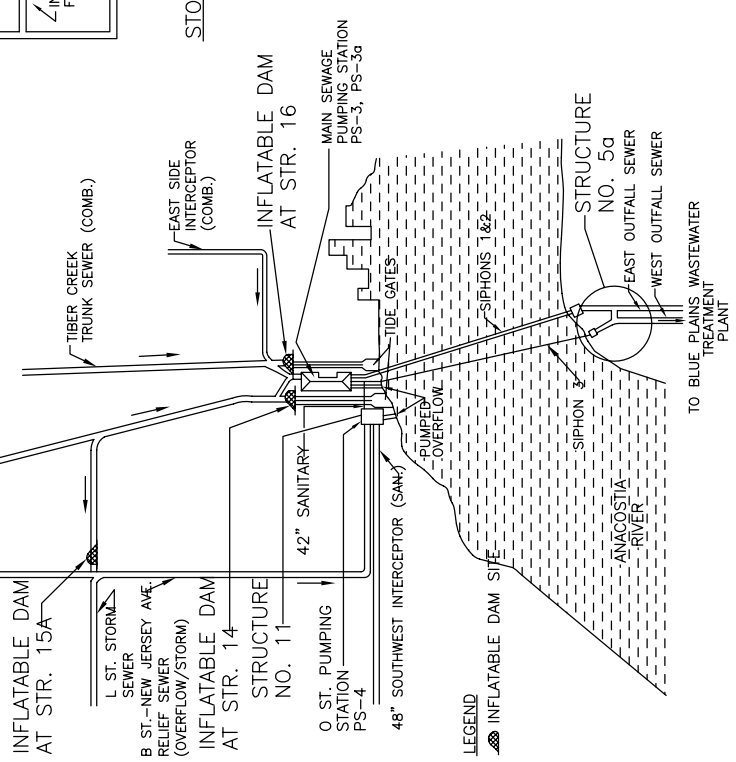
SECTION A-A



SECTION A-A



SCHEMATIC FLOW PLAN



"O" STREET PUMPING STATION

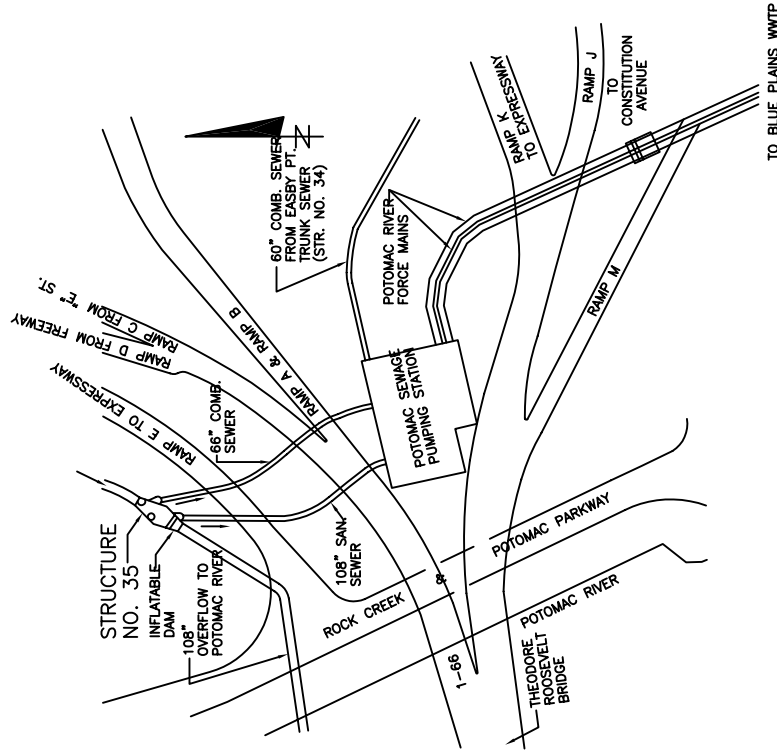
NOT TO SCALE

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

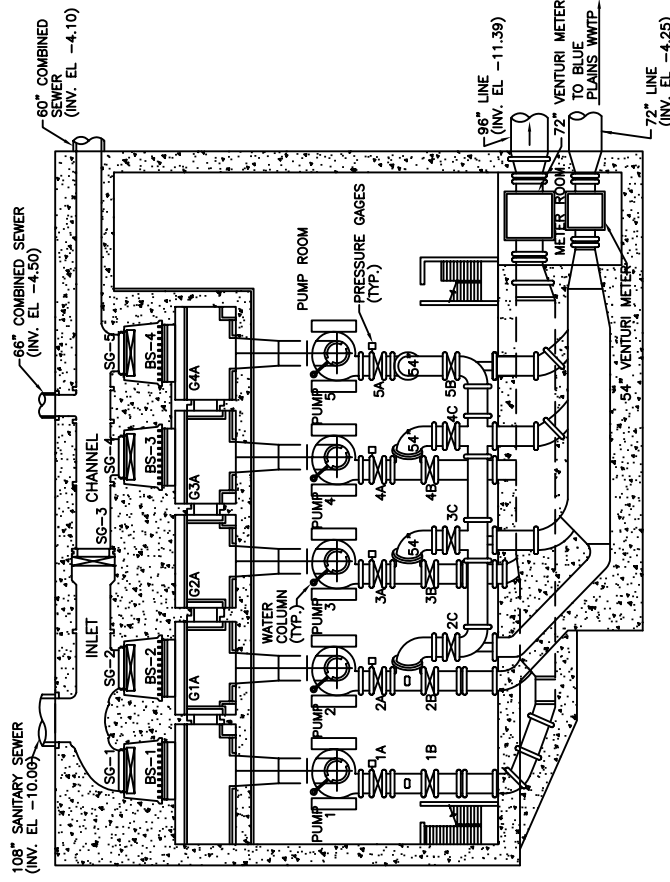
STRUCTURE NO.
 PS-4

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 Easy 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



PUMP STATION - PLAN

LEGEND:
SG = SLUICE GATE
BS = BAR SCREEN
G = GATE VALVE
AND. NO.

POTOMAC SEWAGE PUMPING STATION

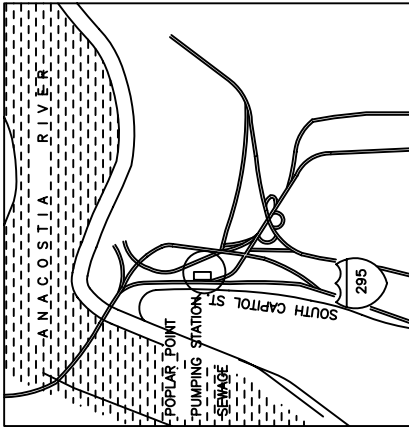
NOT TO SCALE

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

STRUCTURE NO.
PS-5

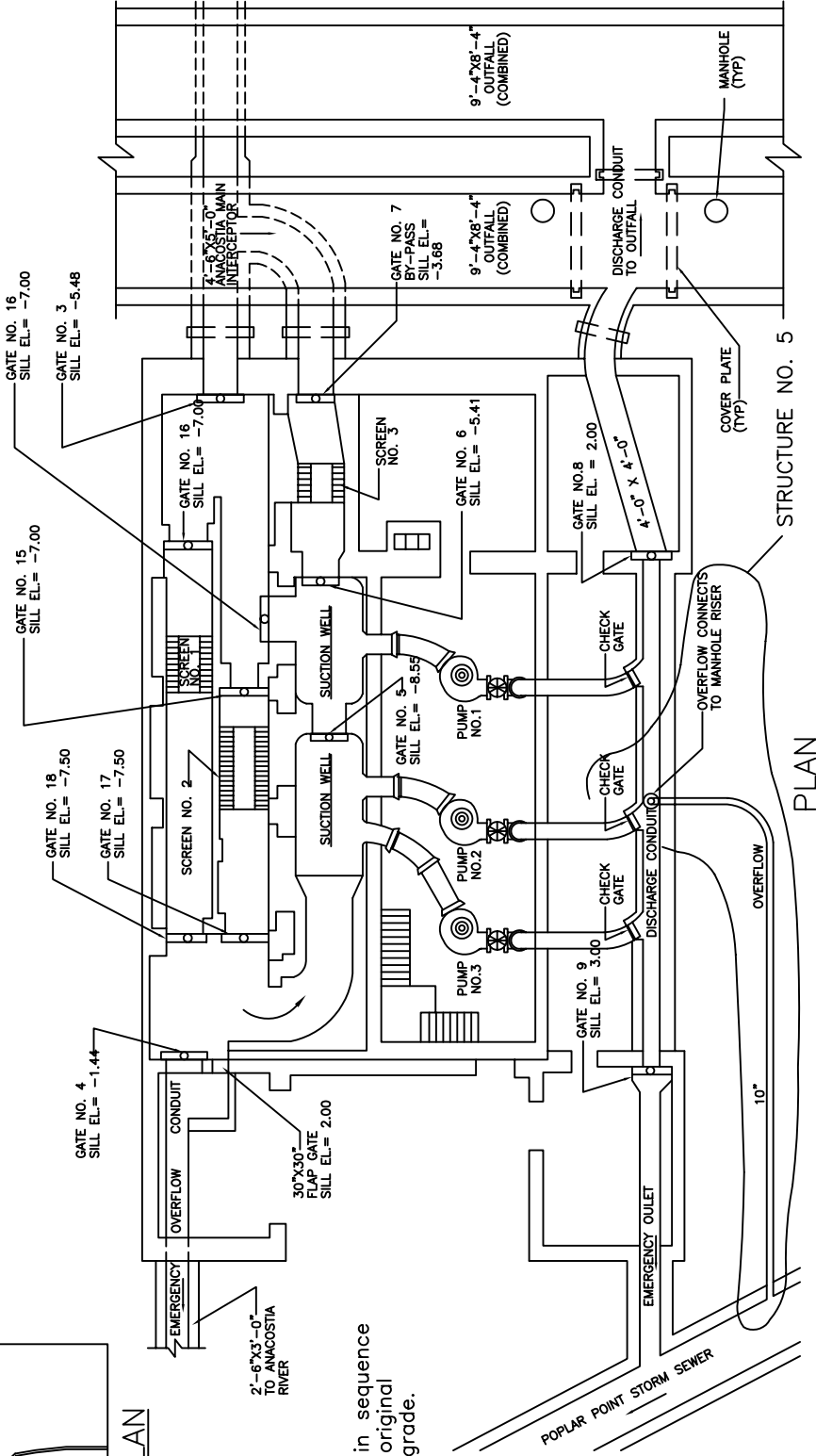
POPLAR POINT SEWAGE PUMPING STATION

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.



LOCATION PLAN

NOT TO SCALE



PLAN

POPLAR POINT SEWAGE PUMPING STATION

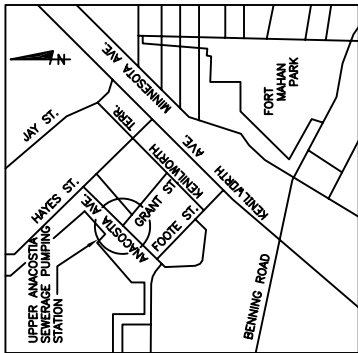
NOT TO SCALE

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

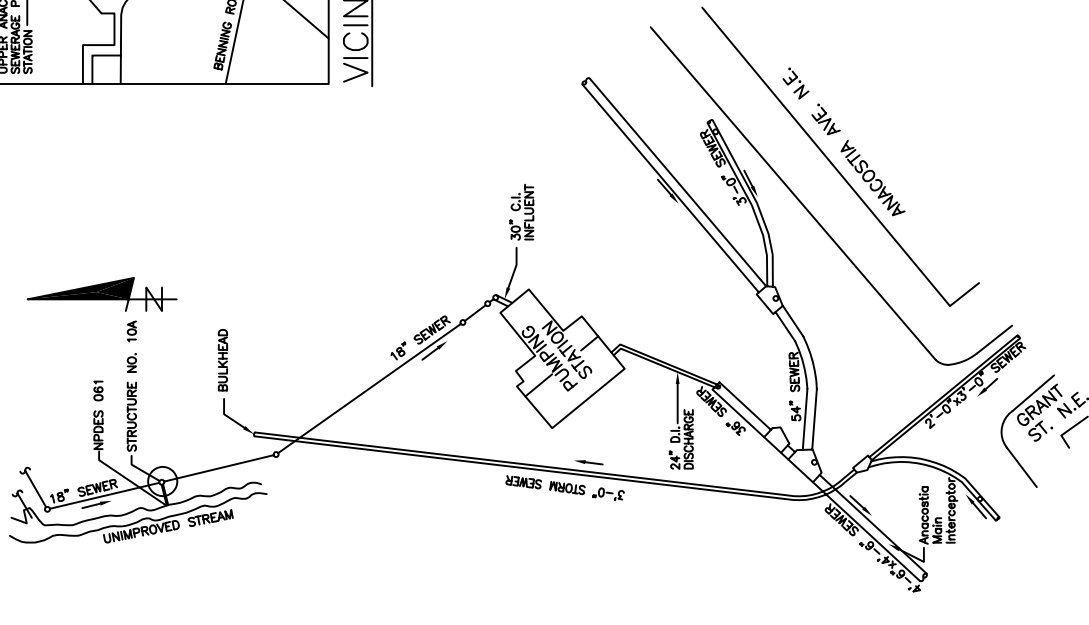
STRUCTURE NO.
 PS-7

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 Poplar Point sewage Pumping Station enroute to the Blue Plains Waste Water Treatment Plant. There are three sanitary pumps, each of which is rated at a capacity of 5 mgd. For location and detail of overflow structure, see Structure No. 10a.



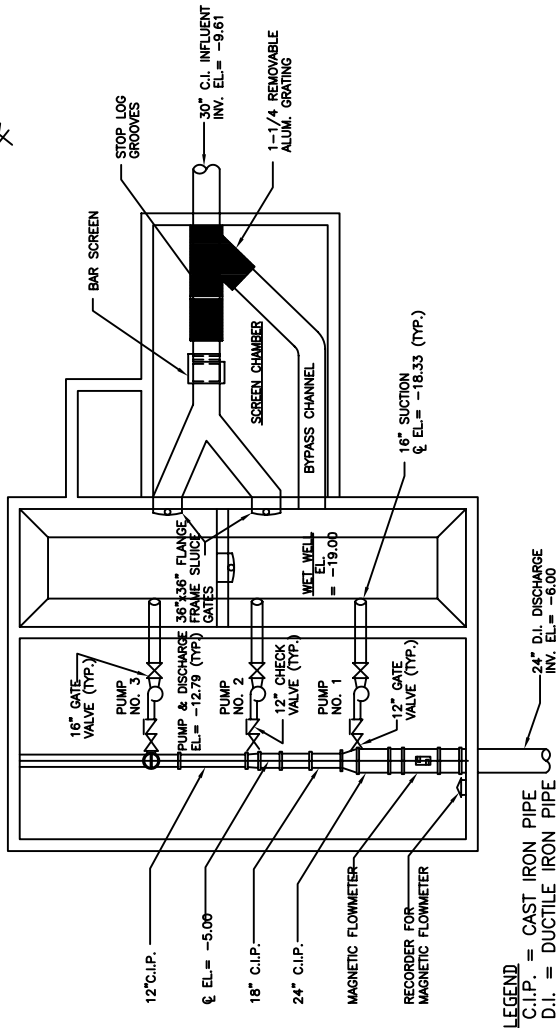
VICINITY SCHEMATIC



LOCATION PLAN

NOT TO SCALE

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



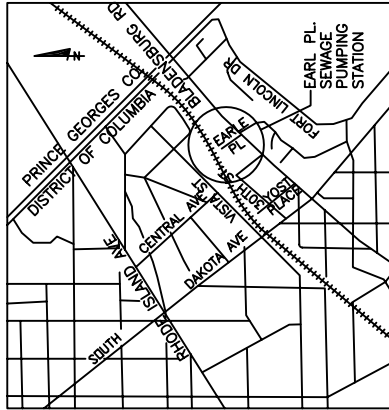
LEGEND
 C.I.P. = CAST IRON PIPE
 D.I. = DUCTILE IRON PIPE

PUMPING STATION - PLAN

NOT TO SCALE

UPPER ANACOSTIA SEWAGE PUMPING STATION

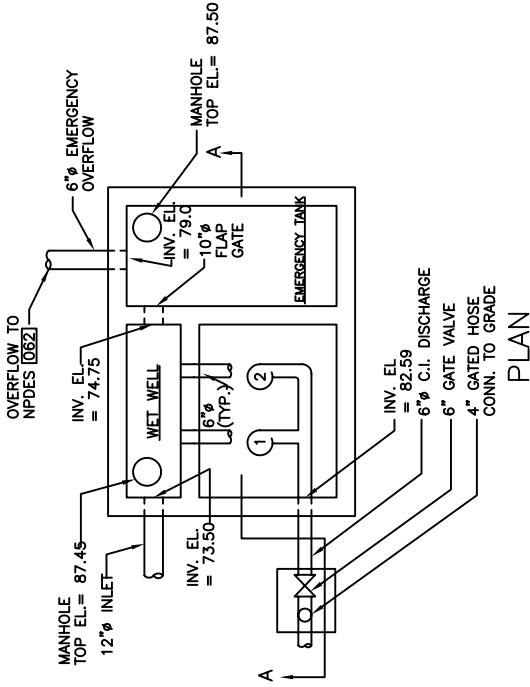
STRUCTURE NO.
 PS-9



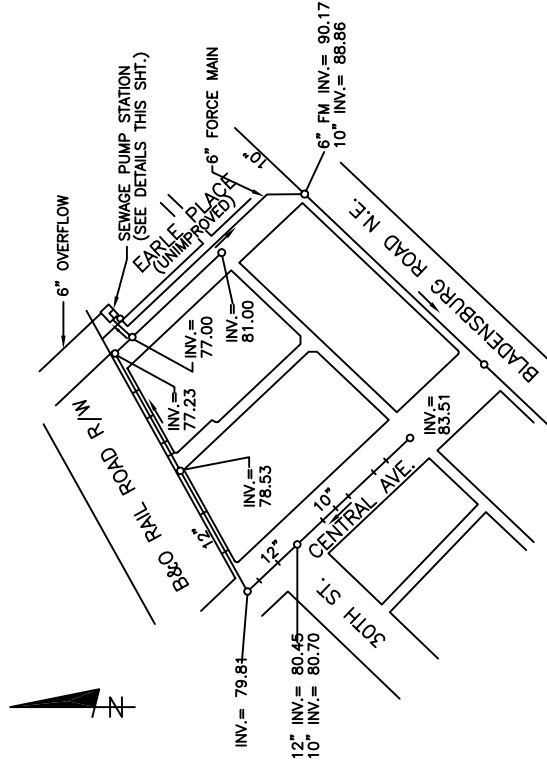
VICINITY SCHEMATIC

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.

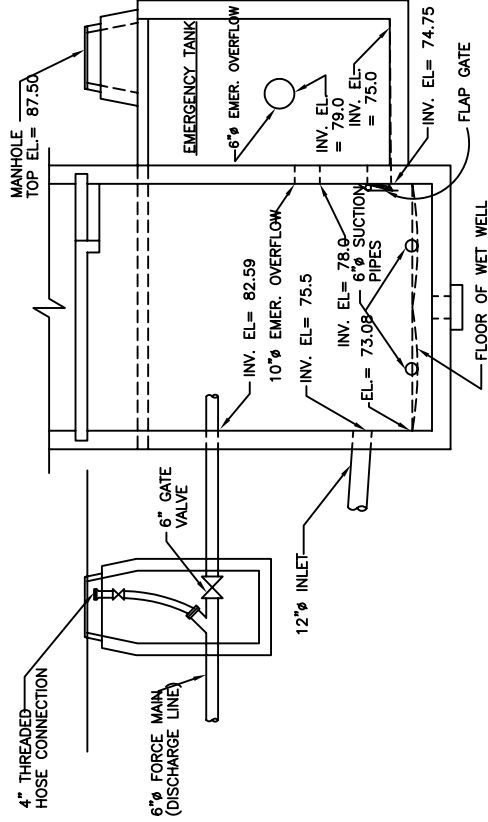


PLAN



LOCATION PLAN

NOT TO SCALE



SECTION A-A

EARL PL. SEWAGE PUMPING STATION

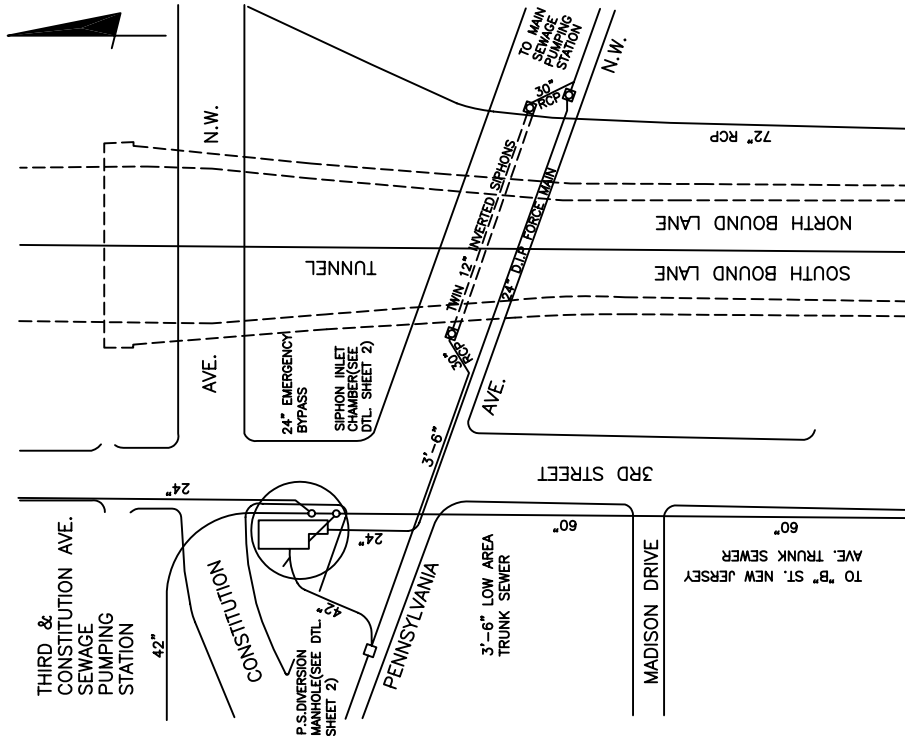
NOT TO SCALE

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

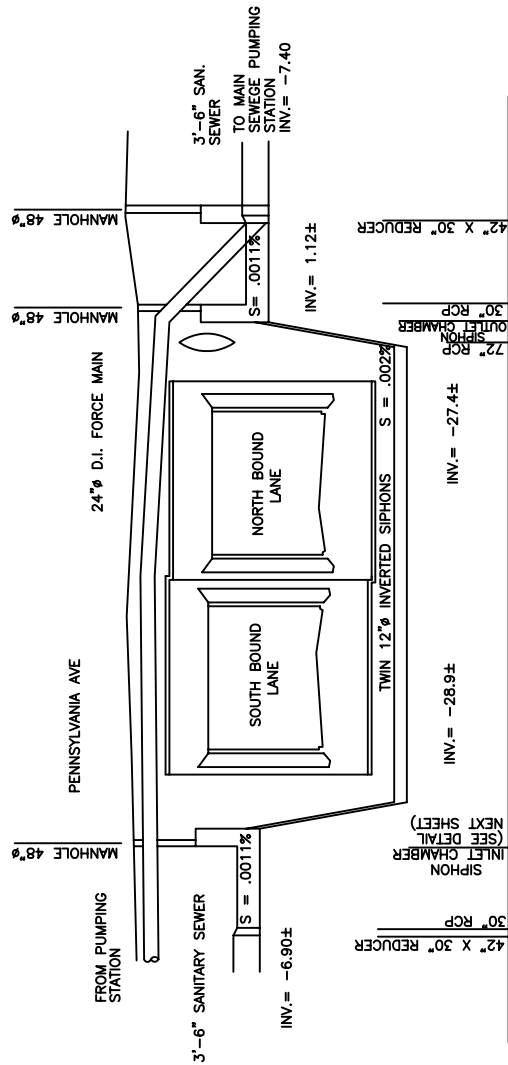
STRUCTURE NO.
 PS-10

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 Division 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.



LOCATION PLAN
NOT TO SCALE



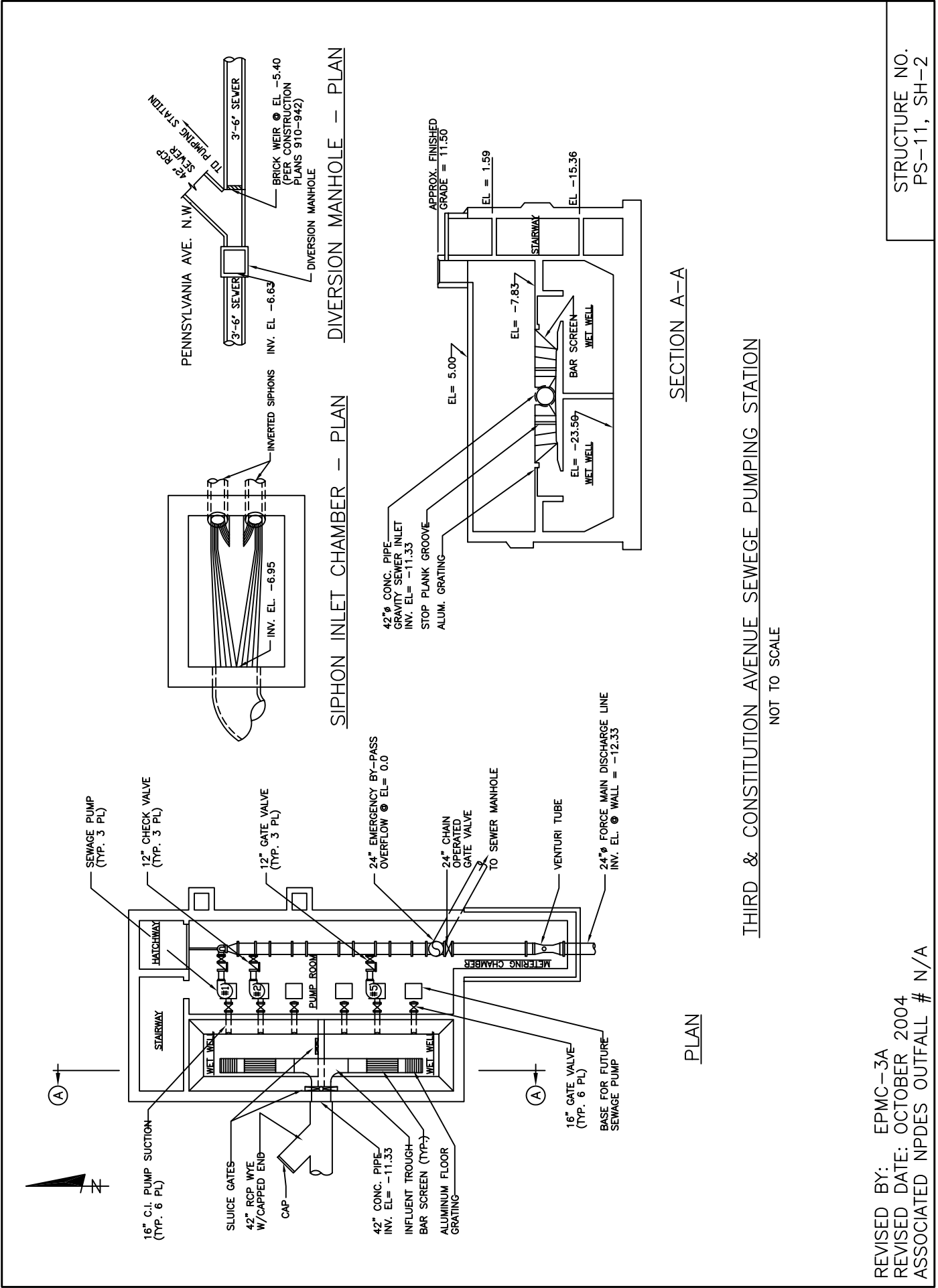
PROFILE

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



SIPHON INLET CHAMBER - PLAN

DIVERSION MANHOLE - PLAN

SECTION A-A

THIRD & CONSTITUTION AVENUE SEWAGE PUMPING STATION

NOT TO SCALE

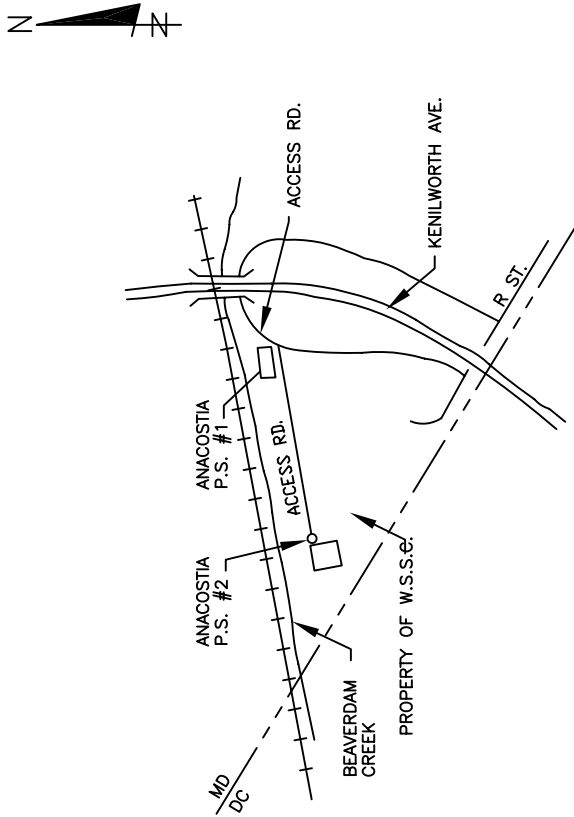
PLAN

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

STRUCTURE NO.
 PS-11, SH-2

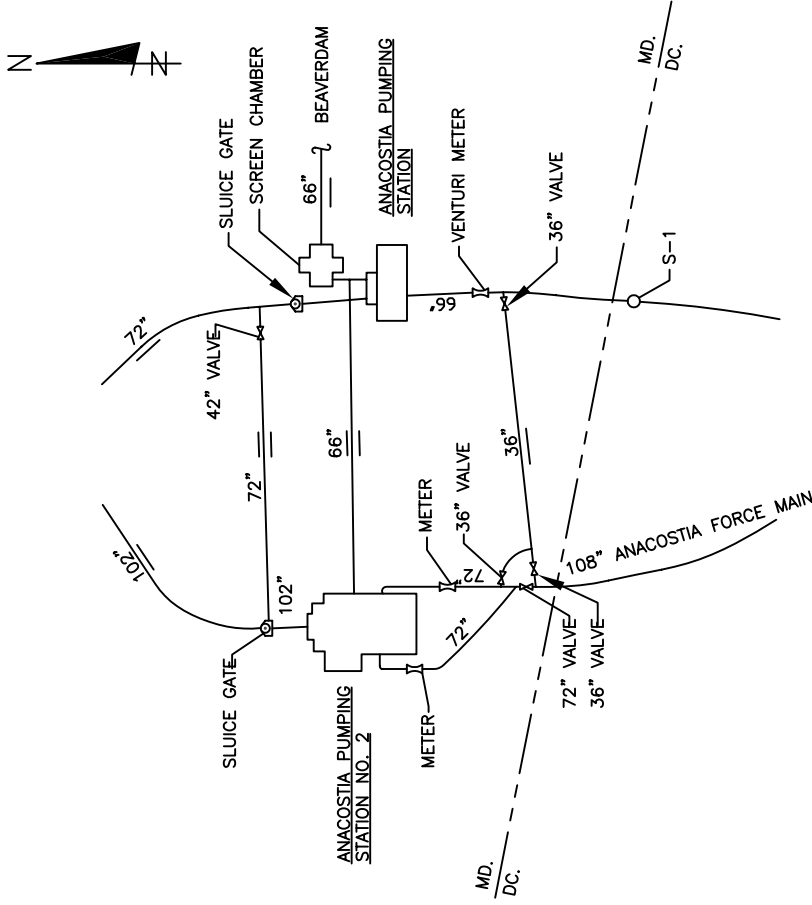
WSSC ANACOSTIA SEWAGE PUMPING STATIONS

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.



LOCATION PLAN
NOT TO SCALE

WSSC ANACOSTIA SEWAGE PUMPING STATION
NOT TO SCALE



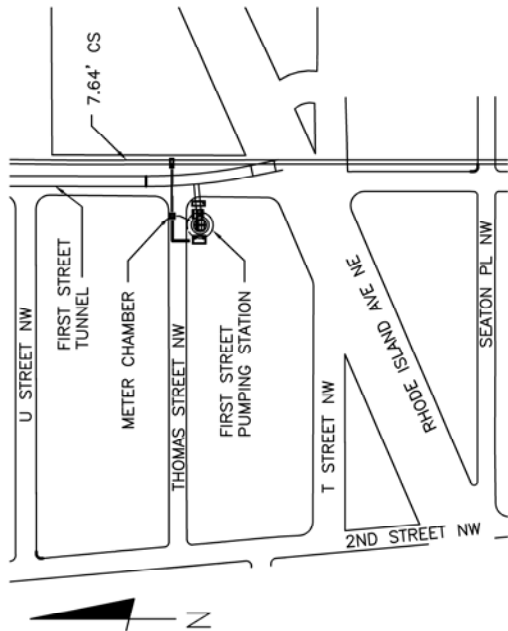
SCHEMATIC FLOW PLAN

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

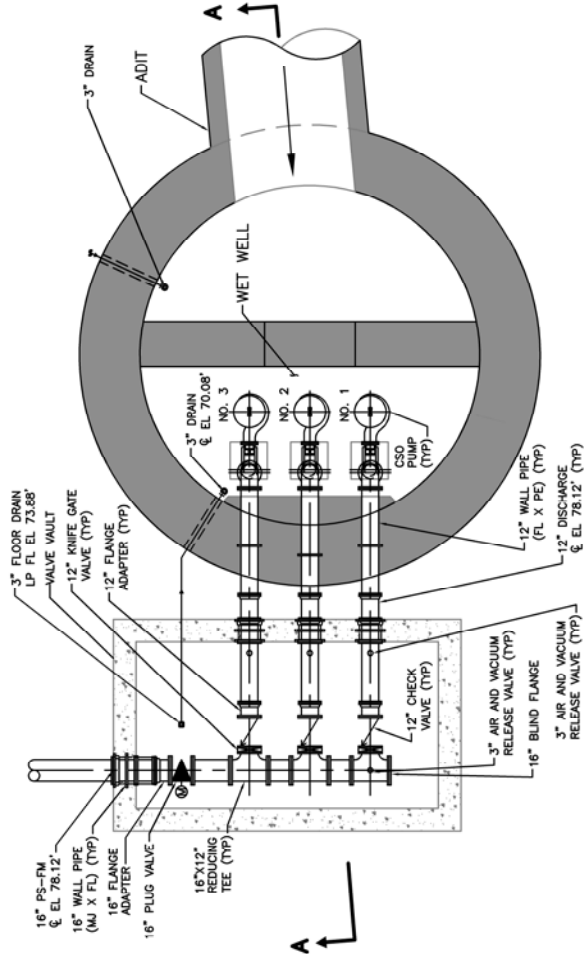
STRUCTURE NO.
PS-12

FIRST STREET PUMPING STATION

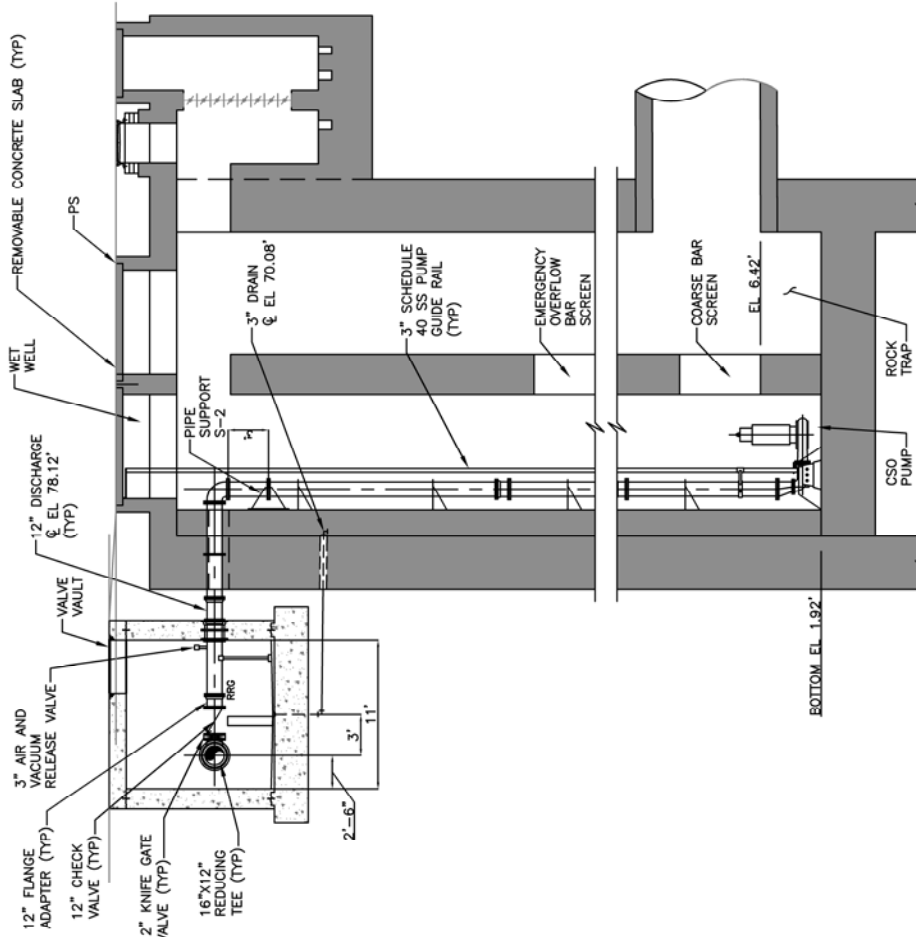
Once the First Street Tunnel is operational, this pumping station will deliver the storm water from the tunnel up into the sewer system to be treated at the Blue Plains AWWTP.



LOCATION PLAN
NOT TO SCALE



PUMP STATION - PLAN
NOT TO SCALE



SECTION A-A
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

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 th 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 nd Street, 300 ft. north of N Place, SE	2
14	2 nd 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 th and N Streets, SE, Both Extended	2
17a	K Street between 6 th Street and 7 th Street, SE	13
18	6 th and M Streets, SE	7.5
19	9 th and M Streets, SE	1.1
19a	9 th and M Streets, SE	0.18
20	12 th and M Streets, SE	9.75
20a	12 th and M Streets, SE	9.5
21	14 th 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 th Street and Kentucky Ave, SE	12.5
23	Independence Ave, 21 st Street, SE, Extended	5.5
24a	East Capitol St, west of RFK stadium	80
28	21 st and Constitution Ave, NW	5
29	22 nd Street, between Constitution Ave and C St, NW	20.5
30	17 th and D Streets, NW	6.75
31	15 th Street and Pennsylvania Ave, NW	4
33	10 th and F Streets, NW	7
34	23 rd Street, north of Constitution Ave, NW	45
34a	23 rd Street near C Street, NW	17
35	Northeast of Roosevelt Bridge, NW	165
36	27 th and I Streets, NW	165
36a	New Hampshire Ave and Eye Street, NW	2.6
36b	19 th and L Streets, NW	Overflow , no diversion to interceptor
36h	18 th and M Streets, NW	560, 52
37	27 th and Eye Streets, NW	50
38	29 th and K Streets, NW	26
38a	30 th Street, south of K Street, NW	26
39a	30 th and K Streets, NW	2
39b	30 th and K Streets, NW	1
41b	31 st and K Streets, NW	2.2
41c	31 st 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 th and M Streets, NW	2.5
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	11
47	38 th Street and Reservoir Road, NW	7.5
47a	37 th 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 th and T Streets, NW	Junction chamber, no diversion
47c	38 th 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 th Street, NW	Overflow , no diversion to interceptor
52	22 nd Street between M and N Streets, NW	2.9
52a	N Street between 22 nd and 23 rd Streets, NW	3
53	22 nd and M Streets, NW	46
53a	22 nd and M Streets, NW	32
53b	L Street between 21 st Street and New Hampshire Ave, NW	19, 22
53c	L and 22 nd Streets, NW	2
54	23 rd and O Streets, NW	0.3
55	22 nd Street, south of Q Street, NW	140
55a	22 nd Street, south of Q Street, NW	650
56	23 rd and Massachusetts Ave, NW	13
57	23 rd 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 th Street, NW	470
70i	5 th and Quackenbos Streets, NW	Internal flow junction
71	28 th 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 th and P Streets, NW	3.3
84a	26 th 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 2015

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	01/27/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/27/15	*			
5	Poplar Point Pumping Station	004	01/05/15	*			
6	Chicago Street and Railroad Ave, SE	005	01/05/15	*			
7	W Street and Railroad Ave, SE	005	01/05/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	01/02/15	*			
11	"O" Street Pumping Station	011(a)	01/05/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/05/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	01/20/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	01/20/15	*			
15	South Capitol and E Streets	010	01/23/15	*			
15a	Half and L Streets, SE	010	01/23/15	*			
15b	South Capitol and I Streets	010	01/14/15	*			
15c	South Capitol and I Streets	010	01/14/15	*			
16	North of Main Sewage Pumping Station	012	01/27/15	*			
17	4 th and N Streets, SE, Both Extended	013	01/20/15	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	01/23/15	*			
18	6 th and M Streets, SE	014	01/16/15	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	01/25/15	*			

<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		
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	01/13/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/13/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/13/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/13/15	*			
22e	14 th Street and Kentucky Ave, SE	018	01/13/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	01/21/15	*			
24a	East Capitol St, west of RFK stadium	019	01/21/15	*			
28	21 st and Constitution Ave, NW	020	01/16/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	01/20/15	*			
30	17 th and D Streets, NW	020	01/16/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	01/16/15	*			
33	10 th and F Streets, NW	020	01/16/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	01/20/15	*			
34a	23 rd Street near C Street, NW	020	01/20/15	*			
35	Northeast of Roosevelt Bridge, NW	021	01/20/15	*			
36	27 th and I Streets, NW	022	01/16/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/16/15	*			
36b	19 th and L Streets, NW	022, 034	01/16/15	*			
36d	17 th and L Streets, NW	022, 034	01/16/15	*			
36g	18 th and M Streets, NW	022, 034	01/16/15	*			
36h	18 th and M Streets, NW	022, 034	01/16/15	*			
37	27 th and Eye Streets, NW	022	01/16/15	*			
38	29 th and K Streets, NW	024	01/05/15	*			
38a	30 th Street, south of K Street, NW	024	01/02/15	*			
39a	30 th and K Streets, NW	024	01/05/15	*			
39b	30 th and K Streets, NW	024	01/05/15	*			
41b	31 st and K Streets, NW	025	01/05/15	*			
41c	31 st and K Streets, NW	025	01/05/15	*			
42	Wisconsin Ave and K Street, NW	026	01/05/15	*			
43	Potomac and Water Streets, NW	027	01/05/15	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
43a	Potomac and Water Streets, NW	027	01/05/15	*			
44	Water Street, west of Potomac St, NW	027	01/05/15	*			
45	36 th and M Streets, NW	028	01/02/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/02/15	*			
47	38 th Street and Reservoir Road, NW	029	01/02/15	*			
47a	37 th and T Streets, NW	029	01/02/15	*			
47b	37 th and T Streets, NW	029	01/02/15	*			
47c	38 th and W Streets, NW	029	01/02/15	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	01/16/15	*			
51	N Street Extended, west of 25 th Street, NW	033	01/16/15	*			
52	22 nd Street between M and N Streets, NW	034	01/23/15	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	01/23/15	*			
53	22 nd and M Streets, NW	022, 034	01/23/15	*			
53a	22 nd and M Streets, NW	022, 034	01/23/15	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	01/15/15	*			
53c	L and 22 nd Streets, NW	022	01/15/15	*			
54	23 rd and O Streets, NW	034	01/14/15	*			
55	22 nd Street, south of Q Street, NW	035	01/14/15	*			
55a	22 nd Street, south of Q Street, NW	035	01/14/15	*			
56	23 rd and Massachusetts Ave, NW	036	01/14/15	*			
57	23 rd Street, south of Q Street, NW	036	01/14/15	*			
58 ¹	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	01/21/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/05/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/05/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/13/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/13/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/13/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/13/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/13/15	*			
66	Adams Mill Road and Lamont Street, NW	045	01/13/15	*			

<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		
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/13/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/13/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/13/15	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	01/13/15	*			
70i	5 th and Quackenbos Streets, NW	049	01/02/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	01/02/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/14/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/14/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/14/15	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/27/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	01/14/15	*			
84a	26 th and P Streets, NW	060	01/14/15	*			

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 2015

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	02/25/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/25/15	*			
5	Poplar Point Pumping Station	004	02/02/15	*			
6	Chicago Street and Railroad Ave, SE	005	02/02/15	*			
7	W Street and Railroad Ave, SE	005	02/02/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	02/02/15	*			
11	"O" Street Pumping Station	011(a)	02/25/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/25/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	02/23/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	02/23/15	*			
15	South Capitol and E Streets	010	02/25/15	*			
15a	Half and L Streets, SE	010	02/25/15	*			
15b	South Capitol and I Streets	010	02/25/15	*			
15c	South Capitol and I Streets	010	02/25/15	*			
16	North of Main Sewage Pumping Station	012	02/23/15	*			
17	4 th and N Streets, SE, Both Extended	013	02/23/15	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	02/23/15	*			
18	6 th and M Streets, SE	014	02/03/15	*			
19	9 th and M Streets, SE	015	02/03/15	*			
19a	9 th and M Streets, SE	015	02/23/15	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	02/10/15	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	02/09/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/09/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/09/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/09/15	*			
22e	14 th Street and Kentucky Ave, SE	018	02/09/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	02/10/15	*			
24a	East Capitol St, west of RFK stadium	019	02/10/15	*			
28	21 st and Constitution Ave, NW	020	02/11/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	02/11/15	*			
30	17 th and D Streets, NW	020	02/09/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	02/09/15	*			
33	10 th and F Streets, NW	020	02/09/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	02/11/15	*			
34a	23 rd Street near C Street, NW	020	02/23/15	*			
35	Northeast of Roosevelt Bridge, NW	021	02/09/15	*			
36	27 th and I Streets, NW	022	02/09/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/09/15	*			
36b	19 th and L Streets, NW	022, 034	02/02/15	*			
36d	17 th and L Streets, NW	022, 034	02/02/15	*			
36g	18 th and M Streets, NW	022, 034	02/02/15	*			
36h	18 th and M Streets, NW	022, 034	02/02/15	*			
37	27 th and Eye Streets, NW	022	02/09/15	*			
38	29 th and K Streets, NW	024	02/03/15	*			
38a	30 th Street, south of K Street, NW	024	02/03/15	*			
39a	30 th and K Streets, NW	024	02/03/15	*			
39b	30 th and K Streets, NW	024	02/03/15	*			
41b	31 st and K Streets, NW	025	02/03/15	*			
41c	31 st and K Streets, NW	025	02/03/15	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	02/11/15	*			
43	Potomac and Water Streets, NW	027	02/11/15	*			
43a	Potomac and Water Streets, NW	027	02/11/15	*			
44	Water Street, west of Potomac St, NW	027	02/11/15	*			
45	36 th and M Streets, NW	028	02/03/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/03/15	*			
47	38 th Street and Reservoir Road, NW	029	02/03/15	*			
47a	37 th and T Streets, NW	029	02/03/15	*			
47b	37 th and T Streets, NW	029	02/03/15	*			
47c	38 th and W Streets, NW	029	02/03/15	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	02/11/15	*			
51	N Street Extended, west of 25 th Street, NW	033	02/11/15	*			
52	22 nd Street between M and N Streets, NW	034	02/25/15	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	02/25/15	*			
53	22 nd and M Streets, NW	022, 034	02/25/15	*			
53a	22 nd and M Streets, NW	022, 034	02/25/15	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	02/09/15	*			
53c	L and 22 nd Streets, NW	022	02/09/15	*			
54	23 rd and O Streets, NW	034	02/10/15	*			
55	22 nd Street, south of Q Street, NW	035	02/10/15	*			
55a	22 nd Street, south of Q Street, NW	035	02/10/15	*			
56	23 rd and Massachusetts Ave, NW	036	02/10/15	*			
57	23 rd Street, south of Q Street, NW	036	02/10/15	*			
58 ¹	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	02/23/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/02/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/02/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/04/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/04/15	*			

<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		
64	Adams Mill Road, south of Irving Street, NW	043	02/04/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/04/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/04/15	*			
66	Adams Mill Road and Lamont Street, NW	045	02/04/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/04/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/04/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/04/15	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	02/04/15	*			
70i	5 th and Quackenbos Streets, NW	049	02/02/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	02/23/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/10/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/10/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/10/15	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/25/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	02/10/15	*			
84a	26 th and P Streets, NW	060	02/10/15	*			

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 2015

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	03/17/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/17/15	*			
5	Poplar Point Pumping Station	004	03/17/15	*			
6	Chicago Street and Railroad Ave, SE	005	03/02/15	*			
7	W Street and Railroad Ave, SE	005	03/02/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	03/02/15	*			
11	"O" Street Pumping Station	011(a)	03/17/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/17/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	03/17/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	03/17/15	*			
15	South Capitol and E Streets	010	03/18/15	*			
15a	Half and L Streets, SE	010	03/18/15	*			
15b	South Capitol and I Streets	010	03/18/15	*			
15c	South Capitol and I Streets	010	03/18/15	*			
16	North of Main Sewage Pumping Station	012	03/17/15	*			
17	4 th and N Streets, SE, Both Extended	013	03/16/15	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	03/17/15	*			
18	6 th and M Streets, SE	014	03/19/15	*			
19	9 th and M Streets, SE	015	03/09/15	*			
19a	9 th and M Streets, SE	015	03/09/15	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	03/09/15	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	03/10/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/10/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/10/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/10/15	*			
22e	14 th Street and Kentucky Ave, SE	018	03/10/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	03/04/15	*			
24a	East Capitol St, west of RFK stadium	019	03/04/15	*			
28	21 st and Constitution Ave, NW	020	03/10/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	03/10/15	*			
30	17 th and D Streets, NW	020	03/02/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	03/02/15	*			
33	10 th and F Streets, NW	020	03/02/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	03/10/15	*			
34a	23 rd Street near C Street, NW	020	03/10/15	*			
35	Northeast of Roosevelt Bridge, NW	021	03/10/15	*			
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36g	18 th and M Streets, NW	022, 034	03/09/15	*			
36h	18 th and M Streets, NW	022, 034	03/09/15	*			
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38a	30 th Street, south of K Street, NW	024	03/02/15	*			
39a	30 th and K Streets, NW	024	03/02/15	*			
39b	30 th and K Streets, NW	024	03/02/15	*			
41b	31 st and K Streets, NW	025	03/13/15	*			
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42	Wisconsin Ave and K Street, NW	026	03/13/15	*			
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43a	Potomac and Water Streets, NW	027	03/13/15	*			
44	Water Street, west of Potomac St, NW	027	03/13/15	*			
45	36 th and M Streets, NW	028	03/04/15	*			
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47a	37 th and T Streets, NW	029	03/04/15	*			
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50	26 and M Streets, NW	032	03/13/15	*			
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52	22 nd Street between M and N Streets, NW	034	03/18/15	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	03/18/15	*			
53	22 nd and M Streets, NW	022, 034	03/18/15	*			
53a	22 nd and M Streets, NW	022, 034	03/18/15	*			
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53c	L and 22 nd Streets, NW	022	03/10/15	*			
54	23 rd and O Streets, NW	034	03/13/15	*			
55	22 nd Street, south of Q Street, NW	035	03/13/15	*			
55a	22 nd Street, south of Q Street, NW	035	03/13/15	*			
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57	23 rd Street, south of Q Street, NW	036	03/13/15	*			
58 ¹	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	03/16/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/09/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/09/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/11/15	*			
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				Good	Needs Work		
64	Adams Mill Road, south of Irving Street, NW	043	03/11/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/11/15	*			
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67	Park Rd , south of Piney Branch Pkwy, NW	046	03/11/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/11/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/11/15	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	03/11/15	*			
70i	5 th and Quackenbos Streets, NW	049	03/09/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	03/09/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/10/15	*			
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75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/16/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	03/10/15	*			
84a	26 th and P Streets, NW	060	03/10/15	*			

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Regulators

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Regulator Structures April 2015

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	04/23/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/23/15	*			
5	Poplar Point Pumping Station	004	04/21/15	*			
6	Chicago Street and Railroad Ave, SE	005	04/21/15	*			
7	W Street and Railroad Ave, SE	005	04/21/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	04/21/15	*			
11	"O" Street Pumping Station	011(a)	04/23/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/23/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	04/23/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	04/23/15	*			
15	South Capitol and E Streets	010	04/23/15	*			
15a	Half and L Streets, SE	010	04/01/15	*			
15b	South Capitol and I Streets	010	04/01/15	*			
15c	South Capitol and I Streets	010	04/01/15	*			
16	North of Main Sewage Pumping Station	012	04/23/15	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	04/23/15	*			
18	6 th and M Streets, SE	014	04/21/15	*			
19	9 th and M Streets, SE	015	04/22/15	*			
19a	9 th and M Streets, SE	015	04/22/15	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	04/22/15	*			
21	14 th and M Streets, SE	017	N/A				Construction for

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
							Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	04/14/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	04/14/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/14/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/22/15	*			
22e	14 th Street and Kentucky Ave, SE	018	04/22/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	04/14/15	*			
24a	East Capitol St, west of RFK stadium	019	04/14/15	*			
28	21 st and Constitution Ave, NW	020	04/08/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	04/08/15	*			
30	17 th and D Streets, NW	020	04/08/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	04/08/15	*			
33	10 th and F Streets, NW	020	04/08/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	04/08/15	*			
34a	23 rd Street near C Street, NW	020	04/08/15	*			
35	Northeast of Roosevelt Bridge, NW	021	04/22/15	*			
36	27 th and I Streets, NW	022	04/22/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/22/15	*			
36b	19 th and L Streets, NW	022, 034	04/17/15	*			
36d	17 th and L Streets, NW	022, 034	04/17/15	*			
36g	18 th and M Streets, NW	022, 034	04/17/15	*			
36h	18 th and M Streets, NW	022, 034	04/22/15	*			
37	27 th and Eye Streets, NW	022	04/02/15	*			
38	29 th and K Streets, NW	024	04/15/15	*			
38a	30 th Street, south of K Street, NW	024	04/15/15	*			
39a	30 th and K Streets, NW	024	04/15/15	*			
39b	30 th and K Streets, NW	024	04/15/15	*			
41b	31 st and K Streets, NW	025	04/15/15	*			
41c	31 st and K Streets, NW	025	04/15/15	*			
42	Wisconsin Ave and K Street, NW	026	04/15/15	*			
43	Potomac and Water Streets, NW	027	04/15/15	*			
43a	Potomac and Water Streets, NW	027	04/15/15	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
44	Water Street, west of Potomac St, NW	027	04/10/15	*			
45	36 th and M Streets, NW	028	04/10/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/10/15	*			
47	38 th Street and Reservoir Road, NW	029	04/10/15	*			
47a	37 th and T Streets, NW	029	04/10/15	*			
47b	37 th and T Streets, NW	029	04/10/15	*			
47c	38 th and W Streets, NW	029	04/10/15	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	04/01/15	*			
51	N Street Extended, west of 25 th Street, NW	033	04/28/15	*			
52	22 nd Street between M and N Streets, NW	034	04/28/15	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	04/22/15	*			
53	22 nd and M Streets, NW	022, 034	04/22/15	*			
53a	22 nd and M Streets, NW	022, 034	04/22/15	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	04/22/15	*			
53c	L and 22 nd Streets, NW	022	04/21/15	*			
54	23 rd and O Streets, NW	034	04/21/15	*			
55	22 nd Street, south of Q Street, NW	035	04/21/15	*			
55a	22 nd Street, south of Q Street, NW	035	04/21/15	*			
56	23 rd and Massachusetts Ave, NW	036	04/21/15	*			
57	23 rd Street, south of Q Street, NW	036	04/21/15	*			
58 ¹	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	04/01/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/01/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/01/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/17/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	04/17/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/21/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/17/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/17/15	*			
66	Adams Mill Road and Lamont Street, NW	045	04/17/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	04/17/15	*			

<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		
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/17/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/17/15	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	04/17/15	*			
70i	5 th and Quackenbos Streets, NW	049	04/10/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	04/16/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/14/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/14/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/14/15	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/09/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	04/14/15	*			
84a	26 th and P Streets, NW	060	04/14/15	*			

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 2015

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	05/18/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/18/15	*			
5	Poplar Point Pumping Station	004	05/19/15	*			
6	Chicago Street and Railroad Ave, SE	005	05/04/15	*			
7	W Street and Railroad Ave, SE	005	05/04/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	05/09/14	*			
11	"O" Street Pumping Station	011(a)	05/26/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/26/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	N/A				Construction for Clean Rivers Project
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	N/A				Construction for Clean Rivers Project
15	South Capitol and E Streets	010	05/19/15	*			
15a	Half and L Streets, SE	010	05/19/15	*			
15b	South Capitol and I Streets	010	05/19/15	*			
15c	South Capitol and I Streets	010	05/19/15	*			
16	North of Main Sewage Pumping Station	012	N/A				Construction for Clean Rivers Project
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	05/06/15	*			
18	6 th and M Streets, SE	014	05/14/15	*			
19	9 th and M Streets, SE	015	05/14/15	*			
19a	9 th and M Streets, SE	015	05/13/15	*			
20	12 th and M Streets, SE	016	05/13/15	*			

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				Good	Needs Work		
20a	12 th and M Streets, SE	016	05/13/15	*			
21	14 th and M Streets, SE	017	05/13/15	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	05/14/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/14/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/14/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/14/15	*			
22e	14 th Street and Kentucky Ave, SE	018	05/14/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	05/04/15	*			
24a	East Capitol St, west of RFK stadium	019	05/04/15	*			
28	21 st and Constitution Ave, NW	020	05/01/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	05/01/15	*			
30	17 th and D Streets, NW	020	05/08/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	05/08/15	*			
33	10 th and F Streets, NW	020	05/08/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	05/01/15	*			
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35	Northeast of Roosevelt Bridge, NW	021	05/18/15	*			
36	27 th and I Streets, NW	022	05/06/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/18/15	*			
36b	19 th and L Streets, NW	022, 034	05/12/15	*			
36d	17 th and L Streets, NW	022, 034	05/12/15	*			
36g	18 th and M Streets, NW	022, 034	05/12/15	*			
36h	18 th and M Streets, NW	022, 034	05/12/15	*			
37	27 th and Eye Streets, NW	022	05/06/15	*			
38	29 th and K Streets, NW	024	05/04/15	*			
38a	30 th Street, south of K Street, NW	024	05/19/15	*			
39a	30 th and K Streets, NW	024	05/04/15	*			
39b	30 th and K Streets, NW	024	05/14/15	*			
41b	31 st and K Streets, NW	025	05/12/15	*			
41c	31 st and K Streets, NW	025	05/12/15	*			
42	Wisconsin Ave and K Street, NW	026	05/12/15	*			
43	Potomac and Water Streets, NW	027	05/12/15	*			

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43a	Potomac and Water Streets, NW	027	05/12/15	*			
44	Water Street, west of Potomac St, NW	027	05/12/15	*			
45	36 th and M Streets, NW	028	05/12/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/12/15	*			
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47a	37 th and T Streets, NW	029	05/12/15	*			
47b	37 th and T Streets, NW	029	05/12/15	*			
47c	38 th and W Streets, NW	029	05/19/15	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	05/18/15	*			
51	N Street Extended, west of 25 th Street, NW	033	05/18/15	*			
52	22 nd Street between M and N Streets, NW	034	05/18/15	*			
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53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	05/18/15	*			
53c	L and 22 nd Streets, NW	022	05/18/15	*			
54	23 rd and O Streets, NW	034	05/12/15	*			
55	22 nd Street, south of Q Street, NW	035	05/12/15	*			
55a	22 nd Street, south of Q Street, NW	035	05/12/15	*			
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57	23 rd Street, south of Q Street, NW	036	05/12/15	*			
58 ¹	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	05/06/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/06/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/06/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/14/15	*			
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44	Water Street, west of Potomac St, NW	027	06/02/15	*			
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50	26 and M Streets, NW	032	06/11/15	*			
51	N Street Extended, west of 25 th Street, NW	033	06/11/15	*			
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63	Harvard Street and Rock Creek Parkway, NW	042	06/16/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/16/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/16/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/16/15	*			
66	Adams Mill Road and Lamont Street, NW	045	06/16/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/16/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/16/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/16/15	*			

<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		
70	Piney Branch Parkway, west of 16 th Street, NW	049	06/16/15	*			
70i	5 th and Quackenbos Streets, NW	049	06/02/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	06/16/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/18/15	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	06/18/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	06/18/15	*			
84a	26 th and P Streets, NW	060	06/18/15	*			

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 July 2015

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	07/21/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/21/15	*			
5	Poplar Point Pumping Station	004	07/21/15	*			
6	Chicago Street and Railroad Ave, SE	005	07/06/15	*			
7	W Street and Railroad Ave, SE	005	07/06/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	07/07/15	*			
11	"O" Street Pumping Station	011(a)	07/01/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	07/01/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	07/14/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	07/14/15	*			
15	South Capitol and E Streets	010	07/20/15	*			
15a	Half and L Streets, SE	010	07/20/15	*			
15b	South Capitol and I Streets	010	07/20/15	*			
15c	South Capitol and I Streets	010	07/20/15	*			
16	North of Main Sewage Pumping Station	012	N/A				Under Construction ²
17	4 th and N Streets, SE, Both Extended	013	07/20/15	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	07/14/15	*			
18	6 th and M Streets, SE	014	07/07/15	*			
19	9 th and M Streets, SE	015	07/15/15	*			
19a	9 th and M Streets, SE	015	07/16/15	*			
20	12 th and M Streets, SE	016	07/16/15	*			
20a	12 th and M Streets, SE	016	07/13/15	*			
21	14 th and M Streets, SE	017	07/13/15	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	07/17/15	*			

<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	07/17/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/17/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/20/15	*			
22e	14 th Street and Kentucky Ave, SE	018	07/20/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	07/07/15	*			
24a	East Capitol St, west of RFK stadium	019	07/07/15	*			
28	21 st and Constitution Ave, NW	020	07/08/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	07/08/15	*			
30	17 th and D Streets, NW	020	07/09/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	07/09/15	*			
33	10 th and F Streets, NW	020	07/08/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	07/08/15	*			
34a	23 rd Street near C Street, NW	020	07/08/15	*			
35	Northeast of Roosevelt Bridge, NW	021	07/09/15	*			
36	27 th and I Streets, NW	022	07/08/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	07/08/15	*			
36b	19 th and L Streets, NW	022, 034	07/07/15	*			
36d	17 th and L Streets, NW	022, 034	07/07/15	*			
36g	18 th and M Streets, NW	022, 034	07/07/15	*			
36h	18 th and M Streets, NW	022, 034	07/07/15	*			
37	27 th and Eye Streets, NW	022	07/08/15	*			
38	29 th and K Streets, NW	024	07/08/15	*			
38a	30 th Street, south of K Street, NW	024	07/07/15	*			
39a	30 th and K Streets, NW	024	07/07/15	*			
39b	30 th and K Streets, NW	024	07/07/15	*			
41b	31 st and K Streets, NW	025	07/13/15	*			
41c	31 st and K Streets, NW	025	07/31/15	*			
42	Wisconsin Ave and K Street, NW	026	07/13/15	*			
43	Potomac and Water Streets, NW	027	07/13/15	*			
43a	Potomac and Water Streets, NW	027	07/13/15	*			
44	Water Street, west of Potomac St, NW	027	07/13/15	*			
45	36 th and M Streets, NW	028	07/01/15	*			

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	07/01/15	*			
47	38 th Street and Reservoir Road, NW	029	07/01/15	*			
47a	37 th and T Streets, NW	029	07/01/15	*			
47b	37 th and T Streets, NW	029	07/01/15	*			
47c	38 th and W Streets, NW	029	07/01/15	*			
49 ^l	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	07/13/15	*			
51	N Street Extended, west of 25 th Street, NW	033	07/13/15	*			
52	22 nd Street between M and N Streets, NW	034	07/20/15	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	07/20/15	*			
53	22 nd and M Streets, NW	022, 034	07/20/15	*			
53a	22 nd and M Streets, NW	022, 034	07/13/15	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	07/13/15	*			
53c	L and 22 nd Streets, NW	022	07/17/15	*			
54	23 rd and O Streets, NW	034	07/17/15	*			
55	22 nd Street, south of Q Street, NW	035	07/17/15	*			
55a	22 nd Street, south of Q Street, NW	035	07/17/15	*			
56	23 rd and Massachusetts Ave, NW	036	07/17/15	*			
57	23 rd Street, south of Q Street, NW	036	07/17/15	*			
58 ^l	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	07/16/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/08/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/08/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/15/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/15/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/15/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/15/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/15/15	*			
66	Adams Mill Road and Lamont Street, NW	045	07/15/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	07/15/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/15/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/15/15	*			

<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		
70	Piney Branch Parkway, west of 16 th Street, NW	049	07/15/15	*			
70i	5 th and Quackenbos Streets, NW	049	07/09/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	07/09/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/08/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/08/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/20/15	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/16/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	07/16/15	*			
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	07/16/15	*			
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	07/17/15	*			
84a	26 th and P Streets, NW	060	07/17/15	*			

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 August 2015

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	8/12/2015	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	8/12/2015	*			
5	Poplar Point Pumping Station	004	8/26/2015	*			
6	Chicago Street and Railroad Ave, SE	005	8/10/2015	*			
7	W Street and Railroad Ave, SE	005	8/10/2015	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	8/4/2015	*			
11	"O" Street Pumping Station	011(a)	8/26/2015	*			
12	Storm Pump Discharge at Main Pumping Station	011	8/3/2015	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	8/19/2015	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	8/19/2015	*			
15	South Capitol and E Streets	010	8/21/2015	*			
15a	Half and L Streets, SE	010	8/21/2015	*			
15b	South Capitol and I Streets	010	8/3/2015	*			
15c	South Capitol and I Streets	010	8/3/2015	*			
16	North of Main Sewage Pumping Station	012	N/A				Under Construction ²
17	4 th and N Streets, SE, Both Extended	013	8/21/2015	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	8/21/2015	*			
18	6 th and M Streets, SE	014	8/3/2015	*			
19	9 th and M Streets, SE	015	8/4/2015	*			
19a	9 th and M Streets, SE	015	8/4/2015	*			
20	12 th and M Streets, SE	016	8/4/2015	*			
20a	12 th and M Streets, SE	016	8/4/2015	*			
21	14 th and M Streets, SE	017	8/7/2015	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	8/12/2015	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	8/12/2015	*			

<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		
22c	Barney Circle and Pennsylvania Ave, SE	018	8/12/2015	*			
22d	Kentucky Ave and Potomac Street, SE	018	8/12/2015	*			
22e	14 th Street and Kentucky Ave, SE	018	8/12/2015	*			
23	Independence Ave, 21 st Street, SE, Extended	019	8/14/2015	*			
24a	East Capitol St, west of RFK stadium	019	8/14/2015	*			
28	21 st and Constitution Ave, NW	020	8/11/2015	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	8/11/2015	*			
30	17 th and D Streets, NW	020	8/4/2015	*			
31	15 th Street and Pennsylvania Ave, NW	020	8/4/2015	*			
33	10 th and F Streets, NW	020	8/4/2015	*			
34	23 rd Street, north of Constitution Ave, NW	020	8/11/2015	*			
34a	23 rd Street near C Street, NW	020	8/11/2015	*			
35	Northeast of Roosevelt Bridge, NW	021	8/19/2015	*			
36	27 th and I Streets, NW	022	8/11/2015	*			
36a	New Hampshire Ave and Eye Street, NW	022	8/11/2015	*			
36b	19 th and L Streets, NW	022, 034	8/11/2015	*			
36d	17 th and L Streets, NW	022, 034	8/11/2015	*			
36g	18 th and M Streets, NW	022, 034	8/11/2015	*			
36h	18 th and M Streets, NW	022, 034	8/11/2015	*			
37	27 th and Eye Streets, NW	022	8/11/2015	*			
38	29 th and K Streets, NW	024	8/4/2015	*			
38a	30 th Street, south of K Street, NW	024	8/4/2015	*			
39a	30 th and K Streets, NW	024	8/4/2015	*			
39b	30 th and K Streets, NW	024	8/11/2015	*			
41b	31 st and K Streets, NW	025	8/10/2015	*			
41c	31 st and K Streets, NW	025	8/10/2015	*			
42	Wisconsin Ave and K Street, NW	026	8/10/2015	*			
43	Potomac and Water Streets, NW	027	8/10/2015	*			
43a	Potomac and Water Streets, NW	027	8/10/2015	*			
44	Water Street, west of Potomac St, NW	027	8/10/2015	*			
45	36 th and M Streets, NW	028	8/3/2015	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	8/11/2015	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47	38 th Street and Reservoir Road, NW	029	8/11/2015	*			
47a	37 th and T Streets, NW	029	8/11/2015	*			
47b	37 th and T Streets, NW	029	8/11/2015	*			
47c	38 th and W Streets, NW	029	8/11/2015	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	8/18/2015	*			
51	N Street Extended, west of 25 th Street, NW	033	8/18/2015	*			
52	22 nd Street between M and N Streets, NW	034	8/21/2015	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	8/21/2015	*			
53	22 nd and M Streets, NW	022, 034	8/21/2015	*			
53a	22 nd and M Streets, NW	022, 034	8/21/2015	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	8/11/2015	*			
53c	L and 22 nd Streets, NW	022	8/11/2015	*			
54	23 rd and O Streets, NW	034	8/14/2015	*			
55	22 nd Street, south of Q Street, NW	035	8/14/2015	*			
55a	22 nd Street, south of Q Street, NW	035	8/14/2015	*			
56	23 rd and Massachusetts Ave, NW	036	8/14/2015	*			
57	23 rd Street, south of Q Street, NW	036	8/14/2015	*			
58 ¹	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	8/7/2015	*			
60	Connecticut Ave, east of Rock Creek, NW	039	8/7/2015	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	8/7/2015	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	8/17/2015	*			
63	Harvard Street and Rock Creek Parkway, NW	042	8/17/2015	*			
64	Adams Mill Road, south of Irving Street, NW	043	8/17/2015	*			
65	Kenyon Street and Adams Mill Road, NW	044	8/17/2015	*			
65a	Kenyon Street and Adams Mill Road, NW	044	8/17/2015	*			
66	Adams Mill Road and Lamont Street, NW	045	8/17/2015	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	8/17/2015	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	8/17/2015	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	8/17/2015	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	8/17/2015	*			

<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		
70i	5 th and Quackenbos Streets, NW	049	8/3/2015	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	8/19/2015	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	8/10/2015	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	8/10/2015	*			
73	O Street Extended and Rock Creek Parkway, NW	052	8/10/2015	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	8/19/2015	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	8/19/2015	*			
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	8/7/2015	*			
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	8/10/2015	*			
84a	26 th and P Streets, NW	060	8/10/2015	*			

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 September 2015

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	9/15/2015	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	9/15/2015	*			
5	Poplar Point Pumping Station	004	9/24/2015	*			
6	Chicago Street and Railroad Ave, SE	005	9/1/2015	*			
7	W Street and Railroad Ave, SE	005	9/1/2015	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	9/1/2015	*			
11	"O" Street Pumping Station	011(a)	9/22/2015	*			
12	Storm Pump Discharge at Main Pumping Station	011	9/22/2015	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	9/18/2015	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	9/18/2015	*			
15	South Capitol and E Streets	010	9/18/2015	*			
15a	Half and L Streets, SE	010	9/18/2015	*			
15b	South Capitol and I Streets	010	9/9/2015	*			
15c	South Capitol and I Streets	010	9/9/2015	*			
16	North of Main Sewage Pumping Station	012	N/A				Under Construction ²
17	4 th and N Streets, SE, Both Extended	013	9/8/2015	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	9/8/2015	*			
18	6 th and M Streets, SE	014	9/22/2015	*			
19	9 th and M Streets, SE	015	9/1/2015	*			
19a	9 th and M Streets, SE	015	9/1/2015	*			
20	12 th and M Streets, SE	016	9/2/2015	*			
20a	12 th and M Streets, SE	016	9/2/2015	*			
21	14 th and M Streets, SE	017	9/2/2015	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	9/2/2015	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	9/2/2015	*			

<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		
22c	Barney Circle and Pennsylvania Ave, SE	018	9/2/2015	*			
22d	Kentucky Ave and Potomac Street, SE	018	9/2/2015	*			
22e	14 th Street and Kentucky Ave, SE	018	9/2/2015	*			
23	Independence Ave, 21 st Street, SE, Extended	019	9/8/2015	*			
24a	East Capitol St, west of RFK stadium	019	9/8/2015	*			
28	21 st and Constitution Ave, NW	020	9/15/2015	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	9/15/2015	*			
30	17 th and D Streets, NW	020	9/2/2015	*			
31	15 th Street and Pennsylvania Ave, NW	020	9/2/2015	*			
33	10 th and F Streets, NW	020	9/2/2015	*			
34	23 rd Street, north of Constitution Ave, NW	020	9/15/2015	*			
34a	23 rd Street near C Street, NW	020	9/15/2015	*			
35	Northeast of Roosevelt Bridge, NW	021	9/15/2015	*			
36	27 th and I Streets, NW	022	9/8/2015	*			
36a	New Hampshire Ave and Eye Street, NW	022	9/8/2015	*			
36b	19 th and L Streets, NW	022, 034	9/11/2015	*			
36d	17 th and L Streets, NW	022, 034	9/11/2015	*			
36g	18 th and M Streets, NW	022, 034	9/11/2015	*			
36h	18 th and M Streets, NW	022, 034	9/8/2015	*			
37	27 th and Eye Streets, NW	022	9/4/2015	*			
38	29 th and K Streets, NW	024	9/4/2015	*			
38a	30 th Street, south of K Street, NW	024	9/4/2015	*			
39a	30 th and K Streets, NW	024	9/4/2015	*			
39b	30 th and K Streets, NW	024	9/2/2015	*			
41b	31 st and K Streets, NW	025	9/4/2015	*			
41c	31 st and K Streets, NW	025	9/4/2015	*			
42	Wisconsin Ave and K Street, NW	026	9/8/2015	*			
43	Potomac and Water Streets, NW	027	9/8/2015	*			
43a	Potomac and Water Streets, NW	027	9/8/2015	*			
44	Water Street, west of Potomac St, NW	027	9/8/2015	*			
45	36 th and M Streets, NW	028	9/1/2015	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	9/1/2015	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47	38 th Street and Reservoir Road, NW	029	9/1/2015	*			
47a	37 th and T Streets, NW	029	9/1/2015	*			
47b	37 th and T Streets, NW	029	9/1/2015	*			
47c	38 th and W Streets, NW	029	9/1/2015	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	9/11/2015	*			
51	N Street Extended, west of 25 th Street, NW	033	9/11/2015	*			
52	22 nd Street between M and N Streets, NW	034	9/16/2015	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	9/16/2015	*			
53	22 nd and M Streets, NW	022, 034	9/16/2015	*			
53a	22 nd and M Streets, NW	022, 034	9/16/2015	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	9/16/2015	*			
53c	L and 22 nd Streets, NW	022	9/16/2015	*			
54	23 rd and O Streets, NW	034	9/14/2015	*			
55	22 nd Street, south of Q Street, NW	035	9/14/2015	*			
55a	22 nd Street, south of Q Street, NW	035	9/14/2015	*			
56	23 rd and Massachusetts Ave, NW	036	9/14/2015	*			
57	23 rd Street, south of Q Street, NW	036	9/14/2015	*			
58 ¹	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	9/2/2015	*			
60	Connecticut Ave, east of Rock Creek, NW	039	9/2/2015	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	9/2/2015	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	9/9/2015	*			
63	Harvard Street and Rock Creek Parkway, NW	042	9/9/2015	*			
64	Adams Mill Road, south of Irving Street, NW	043	9/9/2015	*			
65	Kenyon Street and Adams Mill Road, NW	044	9/9/2015	*			
65a	Kenyon Street and Adams Mill Road, NW	044	9/9/2015	*			
66	Adams Mill Road and Lamont Street, NW	045	9/9/2015	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	9/9/2015	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	9/9/2015	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	9/9/2015	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	9/9/2015	*			

<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		
70i	5 th and Quackenbos Streets, NW	049	9/1/2015	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	9/14/2015	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	9/14/2015	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	9/14/2015	*			
73	O Street Extended and Rock Creek Parkway, NW	052	9/14/2015	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	9/16/2015	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	9/16/2015	*			
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	9/16/2015	*			
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	9/14/2015	*			
84a	26 th and P Streets, NW	060	9/14/2015	*			

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 October 2015

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	10/14/2015	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/14/2015	*			
5	Poplar Point Pumping Station	004	10/27/2015	*			
6	Chicago Street and Railroad Ave, SE	005	10/8/2015	*			
7	W Street and Railroad Ave, SE	005	10/8/2015	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	10/8/2015	*			
11	"O" Street Pumping Station	011(a)	10/27/2015	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/27/2015	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/29/2015	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/29/2015	*			
15	South Capitol and E Streets	010	10/26/2015	*			
15a	Half and L Streets, SE	010	10/26/2015	*			
15b	South Capitol and I Streets	010	10/26/2015	*			
15c	South Capitol and I Streets	010	10/26/2015	*			
16	North of Main Sewage Pumping Station	012	10/29/2015				Under Construction ²
17	4 th and N Streets, SE, Both Extended	013	10/21/2015	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	10/21/2015	*			
18	6 th and M Streets, SE	014	10/21/2015	*			
19	9 th and M Streets, SE	015	10/29/2015	*			
19a	9 th and M Streets, SE	015	10/29/2015	*			
20	12 th and M Streets, SE	016	10/19/2015	*			
20a	12 th and M Streets, SE	016	10/19/2015	*			
21	14 th and M Streets, SE	017	10/19/2015	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/7/2015	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/7/2015	*			

<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		
22c	Barney Circle and Pennsylvania Ave, SE	018	10/7/2015	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/21/2015	*			
22e	14 th Street and Kentucky Ave, SE	018	10/21/2015	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/15/2015	*			
24a	East Capitol St, west of RFK stadium	019	10/15/2015	*			
28	21 st and Constitution Ave, NW	020	10/14/2015	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/14/2015	*			
30	17 th and D Streets, NW	020	10/14/2015	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/14/2015	*			
33	10 th and F Streets, NW	020	10/14/2015	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/14/2015	*			
34a	23 rd Street near C Street, NW	020	10/14/2015	*			
35	Northeast of Roosevelt Bridge, NW	021	10/19/2015	*			
36	27 th and I Streets, NW	022	10/19/2015	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/19/2015	*			
36b	19 th and L Streets, NW	022, 034	10/9/2015	*			
36d	17 th and L Streets, NW	022, 034	10/9/2015	*			
36g	18 th and M Streets, NW	022, 034	10/9/2015	*			
36h	18 th and M Streets, NW	022, 034	10/9/2015	*			
37	27 th and Eye Streets, NW	022	10/19/2015	*			
38	29 th and K Streets, NW	024	10/6/2015	*			
38a	30 th Street, south of K Street, NW	024	10/6/2015	*			
39a	30 th and K Streets, NW	024	10/6/2015	*			
39b	30 th and K Streets, NW	024	10/6/2015	*			
41b	31 st and K Streets, NW	025	10/19/2015	*			
41c	31 st and K Streets, NW	025	10/19/2015	*			
42	Wisconsin Ave and K Street, NW	026	10/19/2015	*			
43	Potomac and Water Streets, NW	027	10/19/2015	*			
43a	Potomac and Water Streets, NW	027	10/19/2015	*			
44	Water Street, west of Potomac St, NW	027	10/19/2015	*			
45	36 th and M Streets, NW	028	10/6/2015	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/6/2015	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47	38 th Street and Reservoir Road, NW	029	10/6/2015	*			
47a	37 th and T Streets, NW	029	10/6/2015	*			
47b	37 th and T Streets, NW	029	10/6/2015	*			
47c	38 th and W Streets, NW	029	10/6/2015	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	10/21/2015	*			
51	N Street Extended, west of 25 th Street, NW	033	10/21/2015	*			
52	22 nd Street between M and N Streets, NW	034	10/29/2015	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/29/2015	*			
53	22 nd and M Streets, NW	022, 034	10/6/2015	*			
53a	22 nd and M Streets, NW	022, 034	10/29/2015	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	10/20/2015	*			
53c	L and 22 nd Streets, NW	022	10/20/2015	*			
54	23 rd and O Streets, NW	034	10/21/2015	*			
55	22 nd Street, south of Q Street, NW	035	10/20/2015	*			
55a	22 nd Street, south of Q Street, NW	035	10/20/2015	*			
56	23 rd and Massachusetts Ave, NW	036	10/20/2015	*			
57	23 rd Street, south of Q Street, NW	036	10/20/2015	*			
58 ¹	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	10/7/2015	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/7/2015	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/7/2015	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/16/2015	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/16/2015	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/16/2015	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/16/2015	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/16/2015	*			
66	Adams Mill Road and Lamont Street, NW	045	10/16/2015	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	10/16/2015	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/16/2015	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/16/2015	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/15/2015	*			

<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		
70i	5 th and Quackenbos Streets, NW	049	10/7/2015	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/15/2015	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/21/2015	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/20/2015	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/21/2015	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/9/2015	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	10/9/2015	*			
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	10/9/2015	*			
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	10/20/2015	*			
84a	26 th and P Streets, NW	060	10/20/2015	*			

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 2015

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	11/24/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/24/15	*			
5	Poplar Point Pumping Station	004	11/24/15	*			
6	Chicago Street and Railroad Ave, SE	005	11/3/15	*			
7	W Street and Railroad Ave, SE	005	11/3/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	11/3/15	*			
11	"O" Street Pumping Station	011(a)	11/24/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/24/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/23/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/23/15	*			
15	South Capitol and E Streets	010	11/23/15	*			
15a	Half and L Streets, SE	010	11/23/15	*			
15b	South Capitol and I Streets	010	11/6/15	*			
15c	South Capitol and I Streets	010	11/6/15	*			
16	North of Main Sewage Pumping Station	012	11/23/15	*			
17	4 th and N Streets, SE, Both Extended	013	11/23/15	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/23/15	*			
18	6 th and M Streets, SE	014	11/4/15	*			
19	9 th and M Streets, SE	015	11/9/15	*			
19a	9 th and M Streets, SE	015	11/9/15	*			
20	12 th and M Streets, SE	016	11/9/15	*			
20a	12 th and M Streets, SE	016	11/9/15	*			
21	14 th and M Streets, SE	017	11/9/15	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/17/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/17/15	*			

<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		
22c	Barney Circle and Pennsylvania Ave, SE	018	11/17/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/9/15	*			
22e	14 th Street and Kentucky Ave, SE	018	11/9/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/18/15	*			
24a	East Capitol St, west of RFK stadium	019	11/18/15	*			
28	21 st and Constitution Ave, NW	020	11/20/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/20/15	*			
30	17 th and D Streets, NW	020	11/6/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/6/15	*			
33	10 th and F Streets, NW	020	11/6/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/20/15	*			
34a	23 rd Street near C Street, NW	020	11/20/15	*			
35	Northeast of Roosevelt Bridge, NW	021	11/20/15	*			
36	27 th and I Streets, NW	022	11/20/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/20/15	*			
36b	19 th and L Streets, NW	022, 034	11/4/15	*			
36d	17 th and L Streets, NW	022, 034	11/2/15	*			
36g	18 th and M Streets, NW	022, 034	11/2/15	*			
36h	18 th and M Streets, NW	022, 034	11/2/15	*			
37	27 th and Eye Streets, NW	022	11/20/15	*			
38	29 th and K Streets, NW	024	11/3/15	*			
38a	30 th Street, south of K Street, NW	024	11/3/15	*			
39a	30 th and K Streets, NW	024	11/3/15	*			
39b	30 th and K Streets, NW	024	11/3/15	*			
41b	31 st and K Streets, NW	025	11/3/15	*			
41c	31 st and K Streets, NW	025	11/3/15	*			
42	Wisconsin Ave and K Street, NW	026	11/3/15	*			
43	Potomac and Water Streets, NW	027	11/6/15	*			
43a	Potomac and Water Streets, NW	027	11/6/15	*			
44	Water Street, west of Potomac St, NW	027	11/6/15	*			
45	36 th and M Streets, NW	028	11/2/15	*			
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47b	37 th and T Streets, NW	029	11/2/15	*			
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49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	11/20/15	*			
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54	23 rd and O Streets, NW	034	11/17/15	*			
55	22 nd Street, south of Q Street, NW	035	11/17/15	*			
55a	22 nd Street, south of Q Street, NW	035	11/17/15	*			
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57	23 rd Street, south of Q Street, NW	036	11/17/15	*			
58 ¹	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	11/9/15	*			
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65	Kenyon Street and Adams Mill Road, NW	044	11/4/15	*			
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69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/4/15	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/4/15	*			

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73	O Street Extended and Rock Creek Parkway, NW	052	11/17/15	*			
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78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	11/17/15	*			
84a	26 th and P Streets, NW	060	11/17/15	*			

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4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/18/15	*			
5	Poplar Point Pumping Station	004	12/16/15	*			
6	Chicago Street and Railroad Ave, SE	005	12/02/15	*			
7	W Street and Railroad Ave, SE	005	12/02/15	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	12/01/15	*			
11	"O" Street Pumping Station	011(a)	12/16/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/18/15	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/07/15	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/07/15	*			
15	South Capitol and E Streets	010	12/02/15	*			
15a	Half and L Streets, SE	010	12/18/15	*			
15b	South Capitol and I Streets	010	12/02/15	*			
15c	South Capitol and I Streets	010	12/02/15	*			
16	North of Main Sewage Pumping Station	012	12/07/15	*			
17	4 th and N Streets, SE, Both Extended	013	12/16/15	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/16/15	*			
18	6 th and M Streets, SE	014	12/14/15	*			
19	9 th and M Streets, SE	015	12/02/15	*			
19a	9 th and M Streets, SE	015	12/02/15	*			
20	12 th and M Streets, SE	016	12/02/15	*			
20a	12 th and M Streets, SE	016	12/02/15	*			
21	14 th and M Streets, SE	017	12/02/15	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/14/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/14/15	*			

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				Good	Needs Work		
22c	Barney Circle and Pennsylvania Ave, SE	018	12/14/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/14/15	*			
22e	14 th Street and Kentucky Ave, SE	018	12/14/15	*			
23	Independence Ave, 21 st Street, SE, Extended	019	12/16/15	*			
24a	East Capitol St, west of RFK stadium	019	12/16/15	*			
28	21 st and Constitution Ave, NW	020	12/08/15	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/08/15	*			
30	17 th and D Streets, NW	020	12/04/15	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/04/15	*			
33	10 th and F Streets, NW	020	12/04/15	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/08/15	*			
34a	23 rd Street near C Street, NW	020	12/08/15	*			
35	Northeast of Roosevelt Bridge, NW	021	12/08/15	*			
36	27 th and I Streets, NW	022	12/08/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/08/15	*			
36b	19 th and L Streets, NW	022, 034	12/04/15	*			
36d	17 th and L Streets, NW	022, 034	12/04/15	*			
36g	18 th and M Streets, NW	022, 034	12/04/15	*			
36h	18 th and M Streets, NW	022, 034	12/04/15	*			
37	27 th and Eye Streets, NW	022	12/08/15	*			
38	29 th and K Streets, NW	024	12/01/15	*			
38a	30 th Street, south of K Street, NW	024	12/01/15	*			
39a	30 th and K Streets, NW	024	12/01/15	*			
39b	30 th and K Streets, NW	024	12/01/15	*			
41b	31 st and K Streets, NW	025	12/01/15	*			
41c	31 st and K Streets, NW	025	12/01/15	*			
42	Wisconsin Ave and K Street, NW	026	12/01/15	*			
43	Potomac and Water Streets, NW	027	12/01/15	*			
43a	Potomac and Water Streets, NW	027	12/01/15	*			
44	Water Street, west of Potomac St, NW	027	12/01/15	*			
45	36 th and M Streets, NW	028	12/02/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/02/15	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47	38 th Street and Reservoir Road, NW	029	12/02/15	*			
47a	37 th and T Streets, NW	029	12/02/15	*			
47b	37 th and T Streets, NW	029	12/02/15	*			
47c	38 th and W Streets, NW	029	12/02/15	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	12/14/15	*			
51	N Street Extended, west of 25 th Street, NW	033	12/14/15	*			
52	22 nd Street between M and N Streets, NW	034	12/16/15	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/16/15	*			
53	22 nd and M Streets, NW	022, 034	12/16/15	*			
53a	22 nd and M Streets, NW	022, 034	12/16/15	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/14/15	*			
53c	L and 22 nd Streets, NW	022	12/14/15	*			
54	23 rd and O Streets, NW	034	12/11/15	*			
55	22 nd Street, south of Q Street, NW	035	12/11/15	*			
55a	22 nd Street, south of Q Street, NW	035	12/11/15	*			
56	23 rd and Massachusetts Ave, NW	036	12/11/15	*			
57	23 rd Street, south of Q Street, NW	036	12/11/15	*			
58 ¹	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	12/04/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/04/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/04/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/09/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/09/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/09/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/09/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/09/15	*			
66	Adams Mill Road and Lamont Street, NW	045	12/09/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/09/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/09/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/09/15	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/09/15	*			

<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		
70i	5 th and Quackenbos Streets, NW	049	12/01/15	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/10/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/11/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/11/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/11/15	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/07/15	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	12/07/15	*			
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	12/07/15	*			
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	12/11/15	*			
84a	26 th and P Streets, NW	060	12/11/15	*			

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 2015

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	01/15/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/15/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	01/15/15									
007	Between 11 th St. and Anacostia Bridges, SE	01/15/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/15/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/15/15	*			*			*		
011	Main Sewage Pumping Station, SE	01/15/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/15/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/15/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	01/15/15	*			*			*		
014	Navy Yard, aligned with 6 th St., SE	01/15/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/15/15	*			*			*		
016	12th and O Streets, SE	01/15/15	*		*		*		*		

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	01/15/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	01/15/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	01/15/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/15/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/15/15	*			*			*		
022	Rock Creek Parkway and G St., NW	01/15/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	01/15/15	*		*		*		*		
025	South of 31st and K Streets, NW	01/15/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/15/15	*		*			*	*		WO #15-116443 issued to repair the gate. Expected completion 3/6/15
027	33 rd and Water Sts., NW	01/15/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/15/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	01/15/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	01/16/15	*			*			*		

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.	01/16/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/14/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/14/15	*			*			*		
036	22nd Street, South of Q Street NW.	01/22/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/31/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/05/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/05/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/22/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/22/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/22/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/22/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/22/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/13/15	*			*			*		

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	01/13/15	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	01/13/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	01/13/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/02/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/22/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/22/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	01/27/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/22/15	*		*		*		*		

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 2015

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	02/04/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/04/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	02/04/15									
007	Between 11 th St. and Anacostia Bridges, SE	02/04/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/04/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/04/15	*			*			*		
011	Main Sewage Pumping Station, SE	02/04/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/04/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/04/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	02/04/15	*			*			*		
014	Navy Yard, aligned with 6 th St., SE	02/04/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/04/15	*			*			*		

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	02/04/15	*		*		*		*		
017	M and Water Street, SE	02/04/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	02/04/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	02/04/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	02/24/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/24/15	*			*			*		
022	Rock Creek Parkway and G St., NW	02/24/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	02/24/15	*		*		*		*		
025	South of 31st and K Streets, NW	02/24/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/24/15	*		*		*		*		WO #15-116443 issued to repair the gate. Repair completed 2/20/15.
027	33 rd and Water Sts., NW	02/24/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/24/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	02/24/15	*		*		*		*		

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	
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	02/11/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/11/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/10/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	02/10/15	*			*			*		
036	22nd Street, South of Q Street NW.	02/24/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/23/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/02/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/02/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/24/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/24/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/24/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/24/15	*		*		*		*		

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	
045	North of Beach Dr. and Walbridge Pl, NW.	02/24/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/04/15	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/04/15	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	02/04/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	02/04/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/24/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/24/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/24/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/25/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/24/15	*		*		*		*		

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 2015

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	03/16/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/12/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	03/12/15									
007	Between 11 th St. and Anacostia Bridges, SE	03/12/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/12/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/12/15	*			*			*		
011	Main Sewage Pumping Station, SE	03/12/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/12/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/12/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	03/12/15	*			*			*		
014	Navy Yard, aligned with 6 th St., SE	03/12/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/12/15	*			*			*		

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.	03/13/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/13/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/13/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	03/13/15	*			*			*		
036	22nd Street, South of Q Street NW.	03/19/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/16/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/09/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/09/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/19/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/19/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/19/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/19/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/19/15	*		*		*		*		

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.	03/11/15	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/11/15	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	03/11/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	03/11/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/09/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/12/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/12/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/16/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	03/19/15	*		*		*		*		

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 2015

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	04/01/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/01/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	04/01/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/01/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/01/15	*			*			*		
011	Main Sewage Pumping Station, SE	04/01/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/01/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/01/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	04/01/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/01/15	*			*			*		

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	04/01/15	*		*		*		*		
017	M and Water Street, SE	04/01/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	04/01/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	04/01/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	04/16/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/16/15	*			*			*		
022	Rock Creek Parkway and G St., NW	04/16/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	04/02/15	*		*		*		*		
025	South of 31st and K Streets, NW	04/02/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/02/15	*		*		*		*		
027	33 rd and Water Sts., NW	04/02/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/02/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	04/02/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	04/01/15	*			*			*		

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.	04/01/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	04/01/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/21/15	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/21/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/01/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/01/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/01/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/16/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/16/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/16/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	04/16/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/16/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/17/15	*		*		*		*		

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	04/17/15	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	04/17/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	04/17/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/16/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	04/20/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	04/09/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	04/09/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	04/09/15	*		*		*		*		

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 2015

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	05/18/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/07/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	05/07/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/02/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/02/15	*			*			*		
011	Main Sewage Pumping Station, SE	05/02/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/02/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/02/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	05/02/15	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	05/02/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/02/15	*			*			*		
016	12th and O Streets, SE	05/02/15	*		*		*		*		

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	05/02/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	05/02/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	05/02/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	05/07/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/07/15	*			*			*		
022	Rock Creek Parkway and G St., NW	05/07/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	05/07/15	*		*		*		*		
025	South of 31st and K Streets, NW	05/07/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/07/15	*		*		*		*		
027	33 rd and Water Sts., NW	05/07/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/07/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	05/07/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	05/18/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/18/15	*		*		*		*		

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	05/12/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	05/12/15	*		*		*		*		
036	22nd Street, South of Q Street NW.	05/19/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/06/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/06/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/06/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/19/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	05/19/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	05/19/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/19/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	05/19/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/14/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	05/14/15	*		*		*		*		

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 th St.	05/14/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	05/14/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	05/14/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	05/07/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	05/07/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	05/06/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	05/06/15	*		*		*		*		

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 2015

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	06/03/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/02/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	06/11/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/09/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/03/15	*			*			*		
011	Main Sewage Pumping Station, SE	06/03/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/03/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/03/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	06/09/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/09/15	*			*			*		

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	06/03/15	*		*		*		*		
017	M and Water Street, SE	06/03/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	06/09/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	06/09/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/15/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/15/15	*			*			*		
022	Rock Creek Parkway and G St., NW	06/15/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	06/15/15	*		*		*		*		
025	South of 31st and K Streets, NW	06/15/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/15/15	*		*		*		*		
027	33 rd and Water Sts., NW	06/15/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/15/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	06/15/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	06/11/15	*			*			*		

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.	06/11/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/09/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/17/15	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/19/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/02/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/02/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/17/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/17/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/17/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/17/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/17/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/16/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/16/15	*		*		*		*		

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	06/16/15	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	06/16/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	06/16/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/17/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	06/17/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	06/17/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	06/18/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	06/17/15	*		*		*		*		

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 2015

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	07/21/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/21/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	07/21/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/16/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/16/15	*			*			*		
011	Main Sewage Pumping Station, SE	07/16/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	07/16/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/16/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	07/16/15	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	07/16/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/16/15	*			*			*		
016	12th and O Streets, SE	07/01/15	*		*		*		*		

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	07/01/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	07/16/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	07/21/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	07/14/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/14/15	*			*			*		
022	Rock Creek Parkway and G St., NW	07/14/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	07/14/15	*		*		*		*		
025	South of 31st and K Streets, NW	07/14/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/14/15	*		*		*		*		
027	33 rd and Water Sts., NW	07/14/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	07/14/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	07/14/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	07/13/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	07/13/15	*		*		*		*		

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	07/17/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	07/17/15	*			*			*		
036	22nd Street, South of Q Street NW.	07/20/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/16/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/08/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/08/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	07/21/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	07/21/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	07/21/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	07/21/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	07/21/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	07/15/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	07/15/15	*		*		*		*		

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 th St.	07/15/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	07/15/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	07/09/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	07/16/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	07/16/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	07/16/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	07/16/15	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	07/20/15	*		*		*		*		

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 2015

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	8/12/2015	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	8/20/2015	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	8/20/2015	*		*		*		*		
009	O St. Sewage Pumping Station, SE	8/13/2015	*		*		*		*		
010	O St. Sewage Pumping Station, SE	8/13/2015	*			*			*		
011	Main Sewage Pumping Station, SE	8/13/2015	*			*			*		
011(a)	Main Sewage Pumping Station, SE	8/13/2015	*		*		*		*		
012	Main Sewage Pumping Station, SE	8/13/2015	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	8/13/2015	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	8/3/2015	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	8/4/2015	*			*			*		
016	12th and O Streets, SE	8/3/2015	*		*		*		*		

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	8/21/2015	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	8/21/2015	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	8/20/2015	*			*			*		
020	Rock Creek Parkway and Independence, NW	8/6/2015	*		*		*		*		
021	Rock Creek Parkway and C St., NW	8/6/2015	*			*			*		
022	Rock Creek Parkway and G St., NW	8/6/2015	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	8/6/2015	*		*		*		*		
025	South of 31st and K Streets, NW	8/6/2015	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	8/6/2015	*		*		*		*		
027	33 rd and Water Sts., NW	8/6/2015	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	8/3/2015	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	8/3/2015	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	8/18/2015	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	8/18/2015	*		*		*		*		

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	8/20/2015	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	8/20/2015	*			*			*		
036	22nd Street, South of Q Street NW.	8/3/2015	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	8/7/2015	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	8/7/2015	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	8/7/2015	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	8/13/2015	*		*		*		*		
042	Harvard St. and Beach Dr NW.	8/13/2015	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	8/13/2015	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	8/13/2015	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	8/13/2015	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	8/17/2015	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	8/17/2015	*		*		*		*		

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 th St.	8/17/2015	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	8/17/2015	*		*		*		*		
050	Rock Creek Parkway and L St., NW	8/19/2015	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	8/20/2015	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	8/20/2015	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	8/19/2015	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	8/19/2015	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	8/13/2015	*		*		*		*		

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 2015

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	9/15/2015	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	9/22/2015	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	9/22/2015	*		*		*		*		
009	O St. Sewage Pumping Station, SE	9/22/2015	*		*		*		*		
010	O St. Sewage Pumping Station, SE	9/22/2015	*			*			*		
011	Main Sewage Pumping Station, SE	9/22/2015	*			*			*		
011(a)	Main Sewage Pumping Station, SE	9/22/2015	*		*		*		*		
012	Main Sewage Pumping Station, SE	9/22/2015	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	9/22/2015	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	9/22/2015	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	9/22/2015	*			*			*		
016	12th and O Streets, SE	9/21/2015	*		*		*		*		

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	9/21/2015	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	9/21/2015	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	9/21/2015	*			*			*		
020	Rock Creek Parkway and Independence, NW	9/4/2015	*		*		*		*		
021	Rock Creek Parkway and C St., NW	9/4/2015	*			*			*		
022	Rock Creek Parkway and G St., NW	9/4/2015	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	9/4/2015	*		*		*		*		
025	South of 31 st and K Streets, NW	9/3/2015	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	9/3/2015	*		*		*		*		
027	33 rd and Water Sts., NW	9/3/2015	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	9/3/2015	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	9/3/2015	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	9/11/2015	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	9/11/2015	*		*		*		*		

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	9/14/2015	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	9/14/2015	*			*			*		
036	22nd Street, South of Q Street NW.	9/21/2015	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	9/2/2015	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	9/2/2015	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	9/2/2015	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	9/10/2015	*		*		*		*		
042	Harvard St. and Beach Dr NW.	9/10/2015	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	9/10/2015	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	9/10/2015	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	9/10/2015	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	9/9/2015	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	9/9/2015	*		*		*		*		

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 th St.	9/9/2015	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	9/9/2015	*		*		*		*		
050	Rock Creek Parkway and L St., NW	9/14/2015	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	9/10/2015	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	9/10/2015	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	9/16/2015	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	9/16/2015	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	9/21/2015	*		*		*		*		

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 2015

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	10/14/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/8/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	10/8/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/27/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/27/15	*			*			*		
011	Main Sewage Pumping Station, SE	10/27/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/27/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/27/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	10/27/15	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	10/27/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/27/15	*			*			*		
016	12th and O Streets, SE	10/15/15	*		*		*		*		

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	10/15/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	10/15/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	10/26/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/26/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/26/15	*			*			*		
022	Rock Creek Parkway and G St., NW	10/15/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	10/15/15	*		*		*		*		
025	South of 31 st and K Streets, NW	10/15/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/15/15	*		*		*		*		
027	33 rd and Water Sts., NW	10/15/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/15/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/15/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	10/21/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/21/15	*		*		*		*		

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	10/20/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/20/15	*			*			*		
036	22nd Street, South of Q Street NW.	10/26/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/6/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/6/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/6/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/26/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/26/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/26/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/26/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/26/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/16/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	10/16/15	*		*		*		*		

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 th St.	10/16/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/16/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/15/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/15/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/15/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/9/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	10/9/15	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	10/26/15	*		*		*		*		

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 2015**

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	11/24/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/5/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	11/5/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/24/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/24/15	*			*			*		
011	Main Sewage Pumping Station, SE	11/24/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/24/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/24/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	11/24/15	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	11/24/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/24/15	*			*			*		

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	11/5/15	*		*		*		*		
017	M and Water Street, SE	11/24/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	11/5/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	11/24/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/19/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/19/15	*			*			*		
022	Rock Creek Parkway and G St., NW	11/19/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	11/19/15	*		*		*		*		
025	South of 31 st and K Streets, NW	11/19/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	11/19/15	*		*		*		*		
027	33 rd and Water Sts., NW	11/19/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/19/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	11/19/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	11/20/15	*			*			*		

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.	11/20/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/17/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/17/15	*			*			*		
036	22nd Street, South of Q Street NW.	11/23/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/9/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/9/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/9/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/5/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/5/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/5/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/5/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/5/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/4/15	*		*		*		*		

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	11/4/15	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/4/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/4/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/23/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/24/15	*		*			*	*		Repair WO #16-136716. Expected completion date 2/30/2016
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/24/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/23/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	11/23/15	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	11/23/15	*		*		*		*		

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 2015**

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	12/18/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/15/15	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	12/15/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/18/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/18/15	*			*			*		
011	Main Sewage Pumping Station, SE	12/18/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/18/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/18/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	12/18/15	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	12/18/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/18/15	*			*			*		
016	12th and O Streets, SE	12/18/15	*		*		*		*		
017	M and Water Street, SE	12/04/15	*		*		*		*		

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	
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	12/18/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	12/15/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/03/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/03/15	*			*			*		
022	Rock Creek Parkway and G St., NW	12/03/15	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	12/03/15	*		*		*		*		
025	South of 31 st and K Streets, NW	12/03/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/03/15	*		*		*		*		
027	33 rd and Water Sts., NW	12/03/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/03/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	12/03/15	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	12/14/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/14/15	*		*		*		*		

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	12/11/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/11/15	*			*			*		
036	22nd Street, South of Q Street NW.	12/10/15	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/04/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/04/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/04/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/03/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/03/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/03/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/03/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/03/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/09/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	12/09/15	*		*		*		*		

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 th St.	12/09/15	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/09/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/10/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/15/15	*		*			*	*		Repair WO #16-136716. Expected completion date 2/30/2016
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/15/15	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/07/15	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	12/07/15	*		*		*		*		
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	12/10/15	*		*		*		*		

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 2015

<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 Service¹</i>
Main	31	4	4	Pump #4	January 1, 2015	Pump being rehabbed/ WO# 14-288562	March 31, 2015
East Side	4	2	4	Pump #1	January 1, 2014	High bearing temps/WO# 15-161926	March 31, 2015
Poplar Point	4	2	3	None			
Potomac	31	4	5	None			

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
O St	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
East Side	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	1/4/2015	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	1/4/2015	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 2015**

<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)¹</i>
Main	1,676.30	54.07	N/A	N/A	N/A
O St	156.00	5.03	1/24/2015	4.2	normal
East Side	290.10	96.70	N/A	N/A	N/A
Poplar Point	730.90	243.63	N/A	N/A	N/A
Potomac	4,271.30	137.78	N/A	N/A	N/A
Rock Creek	752.80	250.93	N/A	N/A	N/A
Upper Anacostia	175.39	58.46	N/A	N/A	N/A
Earle Place	0.21	0.07	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 2015

<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 Service¹</i>
Main	28	4	4	Pump #4	2/1/2015	Pump being rehabbed/ WO# 14-288562	March 31, 2015
East Side	3	2	4	Pump #1	2/1/2015	High bearing temps/WO# 15-161926	March 31, 2015
Poplar Point	3	2	3	Screens 2	2/24/2015	Screen Failure/WO# 15-145414	February 28,2015
Potomac	28	4	5	None	2/8/2015		

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	2/8/2015	Group A	Add oil, grease bearings and replace packing if needed.
O St	2/8/2015	Group A	Add oil, grease bearings and replace packing if needed.
East Side	2/8/2015	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	2/8/2015	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	2/22/2015	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	2/22/2015	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	2/22/2015	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	2/22/2015	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 2015**

<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)¹</i>
Main	1,324.20	47.29	N/A	N/A	N/A
O St	113.80	4.06	N/A	N/A	N/A
East Side	229.80	76.60	N/A	N/A	N/A
Poplar Point	770.90	256.97	N/A	N/A	N/A
Potomac	3,647.80	130.28	N/A	N/A	N/A
Rock Creek	827.50	275.83	N/A	N/A	N/A
Upper Anacostia	177.80	59.27	N/A	N/A	N/A
Earle Place	0.29	0.10	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 2015**

<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 Service¹</i>
Main	31	4	4	Pump #4	3-2-2015	Pump being rehabbed/ WO# 14-288562	April 30, 2015
East Side	4	2	4	Screen #1	3-8-2015	Right bearing failure/WO# 15-161926	April 30, 2015
Poplar Point	4	2	3	Screens 2	3-8-2015	Screen Failure /WO# 15-145414	April 30, 2015
Potomac	31	4	5	Screen #1	3-5-2015	Chain and rakes rehabbed/ WO# 15-146919	April 30, 2015

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	3-2-2015	Group A	Add oil, grease bearings and replace packing if needed.
O St	3-2-2015	Group A	Add oil, grease bearings and replace packing if needed.
East Side	3-8-2015	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	3-8-2015	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	3-5-2015	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	3-8-2015	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	3-15-2015	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	3-15-2015	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 2015**

<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)¹</i>
Main	1,598.20	51.55	N/A	N/A	N/A
O St	136.25	4.40	N/A	N/A	N/A
East Side	352.00	Weekly 70.40	N/A	N/A	N/A
Poplar Point	746.20	149.24	N/A	N/A	N/A
Potomac	4,496.50	Weekly 145.05	N/A	N/A	N/A
Rock Creek	231.20	Weekly 46.24	N/A	N/A	N/A
Upper Anacostia	182.20	Weekly 36.44	N/A	N/A	N/A
Earle Place	0.27	Weekly 0.05	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 2015

<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 Service¹</i>
Main	30	4	4	#4 Pump	04/01/15 - 04/30/15	Pump being rehabbed W/O # 14-288560	7/31/2015
East Side	4	2	4	None	N/A	N/A	
Poplar Point	4	2	3	#2 Screen	04/01/15 - 04/30/15	Screen being rehabbed W/O # 15-145414	05/31/15
Potomac	30	4	5	#1 Screen	04/01/15 - 04/30/15	Screen being rehabbed W/O # 15-146919	05/10/15

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	4/15/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	4/15/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	4/12/15	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 2015**

<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)¹</i>
Main	1,575.50	52.52	N/A	N/A	N/A
O St	119.60	3.99	4/20/15	21.56	Normal
East Side	375.26	12.51	N/A	N/A	N/A
Poplar Point	713.53	23.78	N/A	N/A	N/A
Potomac	3,895.30	129.84	N/A	N/A	N/A
Rock Creek	233.96	7.80	N/A	N/A	N/A
Upper Anacostia	167.56	5.59	N/A	N/A	N/A
Earle Place	0.20	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 May 2015

<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 Service¹</i>
Main	31	4	10	#4 Pump	5/01/15 - 5/31/15	Pump being rehabbed W/O # 14-288560	7/31/15
East Side	4	2	4	None	N/A	N/A	NONE
Poplar Point	4	2	3	#1 Screen	5/01/15 - 5/15/15	Screen being rehabbed W/O # 15-145414	5/15/15
Potomac	31	4	5	#1 Screen	5/01/15 - 5/31/15	Screen being rehabbed W/O # 15-146919	7/31/15
				#2 Screen	5/15/15 - 5/31/15	Screen being rehabbed W/O # 15-232977	6/15/15

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	5/31/15	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 2015**

<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)¹</i>
Main	1,696.69	54.73	N/A	N/A	N/A
O St	117.20	3.78	N/A	N/A	N/A
East Side	174.18	5.62	N/A	N/A	N/A
Poplar Point	699.22	22.56	N/A	N/A	N/A
Potomac	3,840.10	123.87	N/A	N/A	N/A
Rock Creek	400.64	12.92	N/A	N/A	N/A
Upper Anacostia	155.97	5.03	N/A	N/A	N/A
Earle Place	0.13	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
June 2015**

<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 Service¹</i>
Main	30	4	4	Pump #4	6/01/15 - 6/30/15	Pump being rehabbed/ WO# 15-244535	7/31/2015
				Screen #1	6/25/15 - 6/30/15	Screen being rehabbed/ WO# 15-266354	7/31/2015
				Screen #4	6/04/15 - 6/30/15	Screen being rehabbed/ WO# 15-244329	7/31/2015
East Side	2	2	4	None	N/A	N/A	
Poplar Point	3	2	3	Screen #2	6/12/15 - 6/30/15	Screen being rehabbed/ WO# 15-249437	7/31/2015
Potomac	30	4	5	Screen #1	6/01/15 - 6/30/15	Screen being rehabbed/ WO# 15-249576	7/31/2015
				Pump #4	6/04/15 - 6/30/15	Pump out of service/ WO# 15-244097	7/31/2015
				Pump #5	6/04/15 - 6/30/15	Pump out of service/ WO# 15-244097	7/31/2015

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	6/04/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	6/29/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	6/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	6/04/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	6/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	6/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	6/04/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	6/22/15	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 2015**

<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)¹</i>
Main	2565.06	85.50	N/A	N/A	N/A
O St	163.02	5.43	6/01/15	73.2	Normal
			6/02/15	51.5	Normal
			6/04/15	26.9	Normal
			6/08/15	36.9	Normal
			6/09/15	1.0	Normal
			6/14/15	28.7	Normal
			6/15/15	0.9	Normal
			6/20/15	63.8	Normal
			6/21/15	12.7	Normal
			6/23/15	27.2	Normal
			6/25/15	10.2	Normal
			6/27/15	140.1	Normal
6/28/15	18.5	Normal			
East Side	270.81	9.03	6/25/15	10.2	Normal
Poplar Point	637.47	21.25	6/27/15	140.1	Normal
Potomac	4,013.10	133.77	6/28/15	18.5	Normal
Rock Creek	406.50	13.55	N/A	N/A	N/A
Upper Anacostia	636.03	21.20	N/A	N/A	N/A
Earle Place	3945.26	131.51	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 July 2015

<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 Service¹</i>
Main	31	3	6	Screen #1	7/26/15-7/30/15	Screen repair	Returned to service on 7/30/15
				Screen #2	7/29/15-7/31/15	Screen repair	8/31/15
				Screen #4	7/01/15-7/31/15	Screen being rehabbed	8/31/15
				Pump #4	7/01/15-7/24/15	Pump being rehabbed	Returned to service on 7/24/15
East Side	4	2	4	Screen #1	7/19/15-7/31/15	Screen being rehabbed	8/31/15
				Pump #1	7/01/15-7/31/15	Pump being rehabbed	8/31/15
Poplar Point	4	3	3	Screen #2	7/01/15-7/31/15	Screen being rehabbed	8/31/15
Potomac	31	4	5	Screen #2	7/07/15-7/09/15	Screen repair	Returned to service on 7/09/15
				Screen #2	7/16/15-7/20/15	Screen repair	Returned to service on 7/20/15
				Pump #4	7/19/15-7/31/15	Oil pump repair	10/31/15
				Pump #5	7/01/15-7/09/15	Pump being rehabbed	Returned to service on 7/09/15

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	7/27/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	7/29/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	7/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	7/27/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	7/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	7/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	7/27/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	7/22/15	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 2015**

<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)¹</i>
Main	2299.84	74.19	N/A	N/A	N/A
O St	140.72	4.54	7/01/2015	27.23	Normal
			7/04/2015	28.63	Normal
			7/08/2015	1.96	Normal
East Side	229.13	7.39	7/30/2015	36.05	Normal
Poplar Point	273.31	8.82	N/A	N/A	N/A
Potomac	664.83	21.45	N/A	N/A	N/A
Rock Creek	3510.19	113.23	N/A	N/A	N/A
Upper Anacostia	317.50	10.24	N/A	N/A	N/A
Earle Place	160.12	5.17	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 2015**

<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 Service¹</i>
Main	31	3	6	Screen #1	8/11/15-8/31/15	Screen repair	9/30/15
				Screen #2	8/01/15-8/20/15	Screen repair	Returned to service on 8/20/15
				Screen #4	8/01/15-8/31/15	Screen repair	10/15/15
East Side	4	2	4	Screen #1	8/01/15-8/31/15	Screen repair	9/30/15
				Pump #1	8/01/15-8/31/15	Pump being rehabbed	9/30/15
Poplar Point	4	3	3	Screen #2	8/01/15-8/31/15	Screen repair	9/30/15
Potomac	31	4	5	Screen #4	8/24/15-8/28/15	Shear pin replacement	Returned to service on 8/28/15
				Pump #4	8/01/15-8/31/15	Oil pump repair	10/31/15
				Pump #5	8/14/15-8/31/15	72" force main closure	10/31/15

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	8/24/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	8/31/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	8/17/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	8/06/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	8/17/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	8/17/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	8/06/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	8/24/15	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 2015**

<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)¹</i>
Main	2217.24	71.52	N/A	N/A	N/A
O St	133.65	4.31	8/10/2015	6.16	Normal
			8/24/2015	12.88	Normal
East Side	139.31	4.49	N/A	N/A	N/A
Poplar Point	505.66	16.31	N/A	N/A	N/A
Potomac	3087.30	99.59	N/A	N/A	N/A
Rock Creek	91.94	2.97	N/A	N/A	N/A
Upper Anacostia	81.92	2.64	N/A	N/A	N/A
Earle Place	0.14	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
September 2015**

<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 Service¹</i>
Main	30	3	6	Screen #1	9/01/15-9/30/15	Screen repair	10/31/15
				Screen #4	9/01/15-9/29/15	Screen repair	Returned to service on 9/29/15
East Side	4	2	4	Screen #1	9/01/15-9/30/15	Screen repair	10/31/15
				Pump #1	9/01/15-9/28/15	Check valve repair	Returned to service on 9/28/15
Poplar Point	4	3	3	Screen #2	9/01/15-9/30/15	Screen repair	10/31/15
Potomac	30	4	5	Pump #4	9/01/15-9/30/15	Oil pump repair	10/31/15
				Pump #5	9/01/15-9/30/15	72” force main closure	10/31/15

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 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	9/28/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	9/30/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	9/17/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	9/28/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	9/17/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	9/17/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	9/28/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	9/24/15	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 2015**

<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)¹</i>
Main	2,147.07	71.57	N/A	N/A	N/A
O St	125.16	4.17	9/29/15	59.29	Normal
			9/30/15	18.41	Normal
East Side	122.71	4.09	N/A	N/A	N/A
Poplar Point	489.17	16.31	N/A	N/A	N/A
Potomac	2,923.55	97.45	N/A	N/A	N/A
Rock Creek	134.68	4.49	N/A	N/A	N/A
Upper Anacostia	78.90	2.63	N/A	N/A	N/A
Earle Place	0.13	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 October 2015

<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 Service¹</i>
Main	31	3	6	Screen #1 Screen #4	10/01/15-10/31/15 10/01/15-10/31/15	Screen repair Screen repair	12/30/15 11/21/15
East Side	4	2	4	Screen #1	10/01/15-10/31/15	Screen repair	01/27/16
Poplar Point	4	3	3	Screen #2	10/01/15-10/31/15	Screen repair	01/15/16
Potomac	31	4	5	Pump #4 Pump #5	10/01/15-10/31/15 10/01/15-10/31/15	Oil pump repair 72" force main closure	12/04/15 11/17/15

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
October 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	10/07/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	10/30/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	10/03/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/09/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	10/29/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/03/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/03/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	10/03/15	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 2015**

<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)¹</i>
Main	2258.97	72.87	N/A	N/A	N/A
O St	123.89	4.00	10/01/15	56.28	Normal
			10/02/15	5.25	Normal
			10/09/15	6.09	Normal
			10/29/15	23.24	Normal
East Side	173.08	5.58	N/A	N/A	N/A
Poplar Point	513.42	16.56	N/A	N/A	N/A
Potomac	3139.91	101.29	N/A	N/A	N/A
Rock Creek	142.96	4.61	N/A	N/A	N/A
Upper Anacostia	81.63	2.63	N/A	N/A	N/A
Earle Place	0.13	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 2015**

<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 Service¹</i>
Main	30	3	6	Screen #1 Screen #4 Low Area Pump #1	11/01/15-11/30/15 11/01/15-11/21/15 11/13/15-11/16/15	Screen repair Screen repair Pump lost power	12/30/15 Returned to service on 11/21/15 Returned to service on 11/17/15
East Side	2	2	4	Screen #1 Pump #1	11/01/15-11/30/15 11/12/15-11/30/15	Screen repair Pump repair	01/27/16 02/28/16
Poplar Point	2	3	3	Screen #2	11/01/15-11/30/15	Screen repair	01/15/16
Potomac	30	4	5	Pump #4 Pump #5 Pump #5	11/01/15-11/30/15 11/01/15-11/17/15 11/20/15-11/30/15	Oil pump repair 72” force main closure 72” force main re-closed	12/04/15 Returned to service on 11/17/15

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
November 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	11/01/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/01/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	11/14/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/14/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/01/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/14/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/14/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/14/15	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 2015**

<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)¹</i>
Main	2074.13	69.14	N/A	N/A	N/A
O St	109.06	3.64	11/10/2015	13.16	Normal
East Side	133.28	4.44	N/A	N/A	N/A
Poplar Point	501.11	16.70	N/A	N/A	N/A
Potomac	2973.90	99.13	N/A	N/A	N/A
Rock Creek	123.63	4.12	N/A	N/A	N/A
Upper Anacostia	71.93	2.40	N/A	N/A	N/A
Earle Place	0.16	0.006	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 2015**

<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 Service¹</i>
Main	31	3	6	Screen #1 Screen #4	12/01/15-12/30/15 12/29/15-12/31/15	Screen repair Screen repair	Returned to service on 12/30/15 02/05/16
East Side	2	2	4	Screen #1 Pump #1	12/01/15-12/31/15 12/01/15-12/31/15	Screen repair Pump repair	01/27/16 02/28/16
Poplar Point	2	3	3	Screen #1 Screen #2	12/04/15-12/31/15 12/01/15-12/31/15	Screen repair Screen repair	01/29/16 01/15/16
Potomac	31	4	5	Pump #4 Pump #5	12/01/15-12/04/15 12/01/15-12/31/15	Oil pump repair Potomac rehab work	Returned to service on 12/04/15

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
December 2015**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	12/01/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	12/01/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	12/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	12/01/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	12/12/15	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 2015**

<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)¹</i>
Main	2311.47	74.56	N/A	N/A	N/A
O St	116.09	3.64	12/01/2015	20.51	Normal
			12/23/2015	107.38	Normal
			12/24/2015	52.01	Normal
East Side	199.90	6.45	N/A	N/A	N/A
Poplar Point	532.77	17.19	N/A	N/A	N/A
Potomac	3217.06	103.78	N/A	N/A	N/A
Rock Creek	142.14	4.59	N/A	N/A	N/A
Upper Anacostia	80.57	2.60	N/A	N/A	N/A
Earle Place	0.15	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.

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 - 2015

<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>
1/8/2015	1, 2 & 3	1, 2 & 3	N/A	N/A		
2/8/2015	1, 2 & 3	1, 2 & 3	N/A	N/A		
3/15/2015	1, 2 & 3	1, 2 & 3	N/A	N/A		
4/12/2015	1, 2 & 3	1, 2 & 3	N/A	N/A		
05/12/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
6/16/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
7/15/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
8/17/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
9/17/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
10/19/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
11/25/15	1, 2 & 3	1, 2 & 3	N/A	N/A		
12/01/15	1, 2 & 3	1, 2 & 3	N/A	N/A		

Northeast Boundary Swirl Facility – Preventive Maintenance - 2015

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed</i>	<i>Comments</i>
1/8/15	Group A	
2/8/15	Group A	
3/15/15	Group A	
4/12/15	Group A	
05/12/15	Group A	
6/15/15	Group A	
7/15/15	Group A	
8/17/15	Group A	
09/17/15	Group A	
10/19/15	Group A	
11/25/15	Group A	
12/01/15	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 – 2015

<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	01/29, 2/25, 3/24,4/28, 5/27, 6/16, 7/31, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
14 - West	01/29, 2/25,3/24,4/28, 5/27, 6/16, 7/31, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
15	01/28, 2/24,3/24,4/29, 5/27, 6/16, 7/29, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
15A	01/28, 2/24,3/24,4/29, 5/29, 6/16, 7/29, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
16 - East	01/29, 2/25,3/24,4/28, 5/27, 6/16, 7/31, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
16 - West	01/29, 2/25,3/24,4/28, 5/27, 6/16, 7/31, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
24 - North	01/28, 2/24,3/24,4/29, 5/27, 6/16, 7/29, 8/24, 9/29, 10/22, 11/25, 12/28	Yes	2/9	Repair to System	4/20
24 - Middle	01/28, 2/24,3/24,4/29, 5/27, 6/16, 7/29, 8/24, 9/29, 10/22, 11/25, 12/28	Yes	2/9	Repair to System	4/20
24 - South	01/28, 2/24,3/24,4/29, 5/27, 6/16, 7/29, 8/24, 9/29, 10/22, 11/25, 12/28	Yes	2/9	Repair to System	4/20
34	01/29, 2/25,3/24,4/29, 5/27, 6/29, 7/30, 8/24, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
35	01/28, 2/25,3/31,4/29, 5/27, 6/29, 7/30, 8/24, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A
52	01/28, 2/25,3/31,4/29, 5/27, 6/29, 7/30, 8/21, 9/29, 10/22, 11/25, 12/28	No	N/A	N/A	N/A

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.

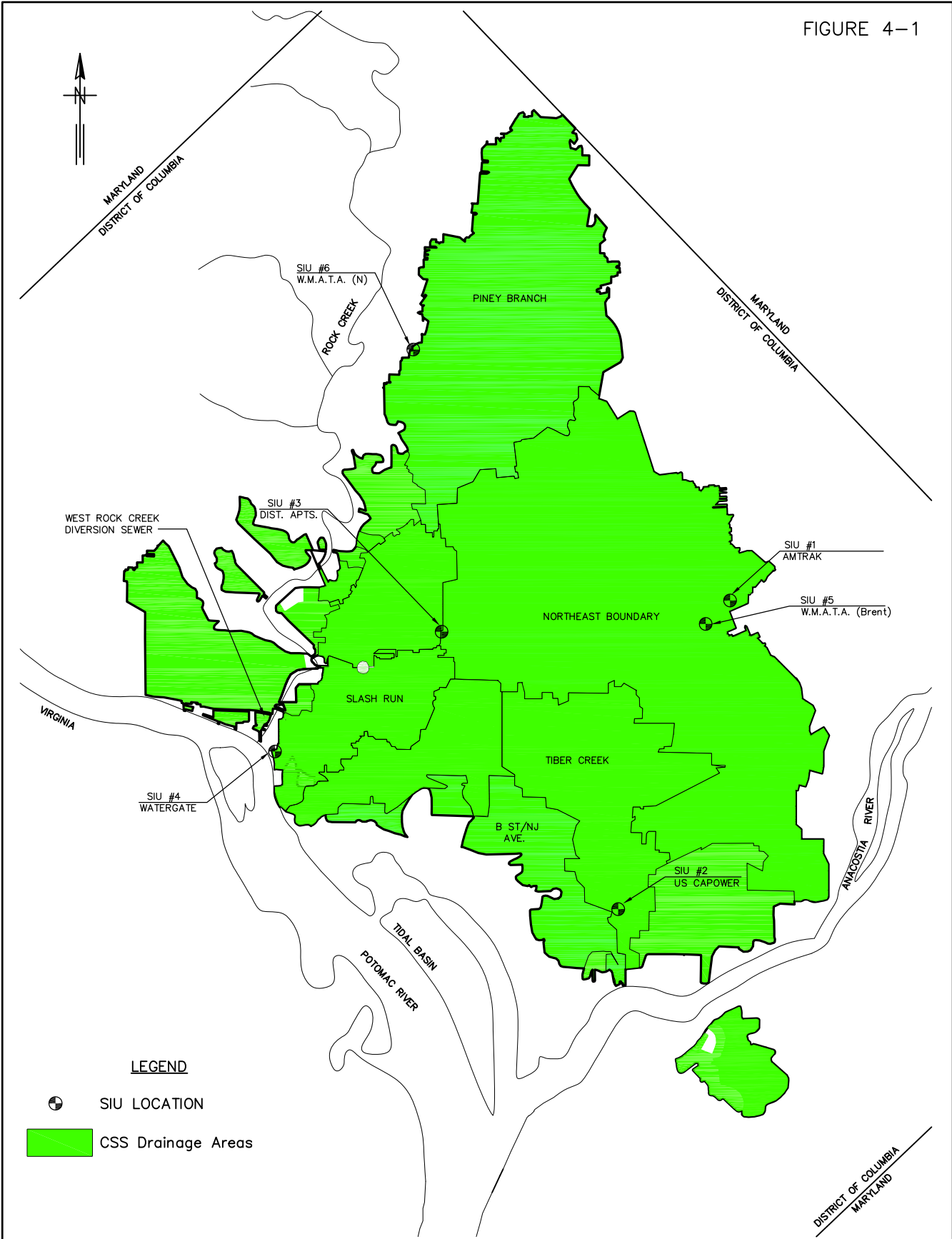
4.3 ANNUAL REPORT

DC Water generates and submits a Pretreatment Program Annual Report to the EPA Region III by March 31st 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



LEGEND

-  SIU LOCATION
-  CSS Drainage Areas

**LOCATIONS OF SIGNIFICANT INDUSTRIAL USERS
IN CSS DRAINAGE AREAS**

SCALE: 1"=70,000'

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. The Blue Plains Advanced Wastewater Treatment Plant (AWTP) did not have any NPDES permit violations in 2015. 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 2015 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. In January 2015, the digested Belt Filter Press biosolids product was in full production and the limed biosolids product was being phased out. As a result, DC Water was unable to collect the required four cyanide grabs for the limed biosolids product.

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 RDL or reporting 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 2015, 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 from WSSC and Fairfax County at designated septage receiving stations. Table B-1 summarizes the hauled waste contributions to the Blue Plains AWTP. Loudoun Water has a backup septage receiving station that discharges to the Potomac Interceptor (and ultimately to the Blue Plains AWTP) but did not accept hauled waste at this station during 2015. 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, 2015, DC Water had 23 permitted waste haulers, WSSC had 51 permitted waste haulers (excluding buses and RV’s), and Fairfax County had 52 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 also requires manifest forms and as of July 11, 2015, Fairfax County now requires manifest forms at the Colvin Run disposal site.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

I. Summary of POTW Operations (Continued)

Table B-1. Summary of Hauled Waste Discharged to the Blue Plains AWTP

Jurisdiction	Discharge Site	Sources of Wastewater*	Estimated Volume/Yr.	Controls on Users
DC Water	Blue Plains AWTP	Domestic and commercial (portable toilets, domestic holding tanks, sewage ejector pits, grease trap waste, and non-wastewater discharges)	12,999,342 gal/yr (4,836 loads/yr)	Manned site, permits, manifests, random sampling
WSSC	Muddy Branch	Domestic and commercial (portable toilets, septic tanks, and grease trap waste) Domestic sewage sludge (Dickerson Generating Station only)	5,898,667 gal/yr (6,628 grease waste loads/yr) 4,087,100 gal/yr (3,085 septic waste loads/yr) 44,000 gal/year (domestic sludge)	Permits, manifests, restricted hours, surveillance cameras, fines, self-monitoring (sludge)
WSSC	Tanglewood	Domestic	407,045 gal/yr (221 loads/yr)	Permits, manifests, restricted hours, surveillance cameras, fines
WSSC	Montgomery Co. Solid Waste Disposal Site	Industrial - Oaks Sanitary Landfill leachate	Avg 25,218 gpd 80,000 gpd max	SIU permit
Fairfax Co.	Colvin Run	Domestic and commercial (57% septage, 14.5% portable toilets, 19% grease trap waste, 1% car wash, and 5% others)	10,000,000 gal/yr (est.) 4,800,000 gal (7/11/15-12/31/15) (3,077 loads)	Permits (Health Dept), restricted access, random sampling, surveillance cameras

*Domestic sources of hauled wastewater are primarily septic holding tanks and portable toilets. The majority of commercial wastewater is from grease traps. Other commercial/industrial sources of hauled wastewater are from building sumps/sewage ejector pits, car wash interceptors, treatment plant sludge, and storm runoff (from an off-site biosolids storage facility). A significant industrial source of hauled wastewater is the landfill leachate from Oaks Sanitary Landfill (80,000 gpd max). Oaks Sanitary Landfill is permitted as a Significant Industrial User by WSSC and the permit contains requirements for monitoring, reporting, and pre-treating their waste.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

I. Summary of POTW Operations (Continued)

3. In 2015, the Blue Plains AWTP Septage Receiving Facility received on average 1,083,278 gallons of hauled waste or 403 loads per month. Random sampling is conducted by DC Water at least twice a month and waste is analyzed for pH, oil and grease, total metals, PCBs, and conventional pollutants. Trucked waste must meet local limits. Eighteen notices of violation (NOVs) were issued to haulers in 2015 for exceedances of local limits, typically for pH, copper, zinc, and/or total petroleum hydrocarbons. On one occasion, violations for arsenic, cadmium, and lead, were also detected. 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 four NOVs to haulers for discharging waste generated outside Fairfax County.

Many of the SIUs within the District have waste hauled off-site for disposal. Table B-2 summarizes the information updated during the 2015 inspections. Recycled wastes including used oil, fryer oil, and silver recovery waste are not included in this table.

Table B-2. Summary of Hauled Waste from SIUs in the District

Type of Hauled Waste	Description of Operations	Name(s) of Facilities Used by SIUs for Waste Disposal and Disposal Location (if known)
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 (Alexandria, VA) Heritage Environmental (FCC) IMS (Norfolk, VA) Magnolia Plumbing (Metrex/Hyattsville, MD) Monarch Environmental Services Northstar Env Group (GCUA, West Deptford, NJ) Onsite Environmental Pollution Control Industries Safety Kleen (Manassas, VA) Sphinx (Spirit Services in Williamsport, MD) Triumvirate Environmental
Grease trap waste	Treatment residuals	Action Tank and Drain (Fairfax, VA) Adams Liming and Septic Tank (Fairfax, VA) Burns Septic (WSSC) 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 Northstar Env Group (GCUA, West Deptford, NJ) 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)

PART B (Continued)
PRETREATMENT DEVELOPMENTS

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 2015. 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.

As of December 31, 2015, 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 known 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, 2015. 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

Control of Batch Discharges During Wet Weather (continued)

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

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 last conducted in 2014. 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.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

Pollution Prevention (continued)

WSSC continued to promote and dedicate resources to a number of pollution prevention initiatives in 2015 including the following:

- Continuation of the Oil/Water Separator Initiative with BMP guidelines and inspection program;
- Recommendation of amalgam separators and BMPs for dental facilities; and
- Continuation of the annual Pollution Prevention Award program (awarded to Human Genome Sciences LSM Corporation in June 2015).

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 the 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, 2015, 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 and provided on the following page).



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

Office of the General Manager

January 27, 2016

Nancy Ford
U.S. Environmental Protection Agency, Region III
Water Management Division
1650 Arch Street
Mail Code: 3WP60
Philadelphia, PA 19103-2029

Re: Signature Authority

Dear Ms. Ford:

In accordance with the signatory requirements for the annual pretreatment program report (40 CFR 403.12(m)), I confirm that Mr. Aklile Tesfaye, Assistant General Manager, Wastewater Treatment, is authorized to sign all Discharge Monitoring Reports, including pretreatment program reports. Please call me at 202-787-2609 if you have any questions or comments regarding this authorization.

Sincerely,

A handwritten signature in blue ink, appearing to read "George S. Hawkins". The signature is written in a cursive style with a large, looping initial "G".

George S. Hawkins
CEO/General Manager

c: Aklile Tesfaye, AGM, Wastewater Treatment

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⁽¹⁾</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
1/3/2015, 1/4/2015	0.55	0	495
1/6/2015	0.20	0	351
1/11/15- 1/13/2015	0.75	104	547 (3)
1/18/2015	0.60	0	541 (3)
1/23/2015, 1/24/2015	1.13	173	561 (3)
1/26/2015, 1/27/2015	0.22	0	415
2/16/2015, 2/17/2015	0.52	0	347
2/21/2015, 2/22/2015	0.80	0	536 (3)
3/1/2015	0.51	0	523 (3)
3/4/2015, 3/5/2015	1.21	0	490
3/10/2015, 3/11/2015	0.44	93	552 (3)
3/13/2015, 3/14/2015	0.61	0	550 (3)
3/20/2015	0.49	0	467
3/26/2015, 3/27/2015	0.61	0	500
4/3/2015, 4/4/2015	0.24	0	394
4/8/2015, 4/9/2015	0.31	0	414
4/14/2015	0.64	0	471
4/19- 4/21/2015	1.29	54	575 (3)
4/25/2015	0.27	0	388
4/30/2015	0.54	0	361
5/16/2015, 5/17/2015	0.66	0	504
5/18/2015, 5/19/2015	0.76	72	551 (3)
5/21/2015	0.33	0	423
6/1-6/5/2015	3.37	74	568 (3)
6/8/2015	0.65	0	559 (3)
6/14/2015	0.52	0	530 (3)
6/17- 6/19/2015	0.83	0	497
6/20/2015-6/21/2015	2.40	292	566 (3)
6/23/2015	0.84	72	535 (3)
6/25/2015	0.48	0	512 (3)
6/27/2015-6/28/2015	2.75	286	531 (3)
7/1-7/2/2015	1.32	99	532 (3)
7/4/2015	0.85	0	522 (3)
7/8/2015, 7/9/2015	1.12	0	547 (3)
7/27/2015	0.83	0	423
7/30/2015	0.53	0	498
8/10/2015, 8/11/2015	0.39	0	444
8/24/2015	0.41	0	428
9/21/2015	0.23	0	390
9/29/2015	1.65	227	541 (3)
10/1-10/4/2015	1.93	111	538 (3)
10/9/2015	0.40	0	494
10/27-10/29/2015	0.68	0	442
11/9/2015, 11/10/2015	0.77	91	551 (3)
11/19/2015	0.63	0	551 (3)
11/30-12/2/2015	1.27	68	554 (3)
12/17/2015	0.42	0	466
12/23/2015	1.67	88	553 (3)
12/24/2015	0.2	0	389
12/25/2015	0.3	0	493
12/28/2015, 12/29/2015	0.73	92	560 (3)

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 REQUIREMENTS

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 eleven (11) overflows during the year 2015 as reported in quarterly reports to EPA Region III as follows.

**Table 6-1
Dry Weather Discharges**

There were four (4) dry weather discharges to the receiving waters reported during the year 2015.

Location	3000 K Street, NW.
Cause	A sewer maintenance crew from District of Columbia Water and Sewer Authority (DC Water) was dispatched to investigate a service call regarding an overflowing manhole near 3000 K Street, NW. The crew found a manhole overflowing in a grassy area on private property.
Date/ Time Discovered	January 24, 2015 at approximately 2:45 PM.
Action Taken	DC Water mobilized Anchor Construction to set up a bypass of the clogged 6-inch service line. The crew removed a buildup of grease and debris and applied a degreasing chemical.
Date/Time Discharge Ceased	January 15, 2015 at 11:30 pm.
Estimated Volume	Approximately 1500 gallons.
Did Overflow Reach Receiving water?	Yes. The Potomac River
Action taken to prevent reoccurrence	DC Water contacted the District's Department of Consumer and Regulatory Affairs (DCRA), the agency responsible for the oversight of the plumbing code, to identify restaurants and coordinate grease interceptor maintenance requirements with property owners.

Location	Near 3501 New York Avenue, NE.
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding an overflowing sewer manhole in front of 3501 New York Ave., NE. The crew found a manhole blocked by a buildup of grease and debris that was overflowing into a nearby storm.
Date/ Time Discovered	March 13, 2015 at 10:45am
Action Taken	The crew removed the grease and flushed the line with degreasing chemical.
Date/Time Discharge Ceased	March 13, 2015 at 3:30 pm
Estimated Volume	Approximately 1,500 gallons
Did Overflow Reach Receiving water?	Yes, Hickey Run
Action taken to prevent reoccurrence	Closed Circuit Television (CCTV) inspect the 15-inch sewer main to determine whether additional steps are needed to prevent a recurrence.

Dry Weather Flows

Location	Audubon Terrace and 29th Street, NW
Cause	Staff from our Sewer Program Management group observed cloudy discharge in stream near 2983 Audubon Terr., NW. Sewer Services crew responded and dye tested sanitary sewer. Dye showed in the creek confirming leakage into the creek.
Date/ Time Discovered	July 13, 2015 at approximately 1:30 PM
Action Taken	Anchor Construction set up by-pass pumping system to redirect the flow around defective pipe.
Date/Time Discharge Ceased	July 13, 2015 at 11:00 PM
Estimated Volume	Undetermined.
Did Overflow Reach Receiving water?	Yes.
Action taken to prevent reoccurrence	DC Water has re-lined the sanitary sewer to prevent a recurrence at this location.

Location	49th Street and Fulton Street, NW
Cause	Staff from National Park Services (NPS) reported a sanitary discharge from the storm outfall near Battery Kimble Park. DC Water dispatched a sewer maintenance crew to investigate the complaint. The crew found a broken 10-inch sanitary pipe caused by soil erosion leaking into the creek.
Date/ Time Discovered	July 23, 2015 at approximately 1:00 PM
Action Taken	Anchor Construction replaced the broken pipe.
Date/Time Discharge Ceased	July 24, 2015 at 4:30 PM
Estimated Volume	4,000 gallons.
Did Overflow Reach Receiving water?	Yes.
Action taken to prevent reoccurrence	DC Water replaced the defective pipe to prevent a recurrence at this location.

Provided below are the other overflow incidents that occurred during the year 2015 as reported in quarterly reports to EPA Region III.

Location	3300 Block of Croffut Place, SE
Cause	A sewer maintenance crew from District of Columbia Water and Sewer Authority (DC Water) was dispatched to investigate a resident's service call regarding a possible sewer backup in his home near the 3300 block of Croffut Place, SE. The crew found a damaged manhole with a build-up of grease that was the probable cause of the backup. The overflow was confined to the basement of 3317 Croffut Place, SE.
Date/ Time Discovered	February 18, 2015.
Action Taken	DC Water cleared the blockage and made repairs to the manhole.
Date/Time Discharge Ceased	February 18, 2015.
Estimated Volume	Approximately 25 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	DC Water made repairs to the damaged manhole.

Dry Weather Flows

Location	2930 Arizona Ave., NW
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding a sewer back up at 2930 Arizona Ave., NW. The crew found a manhole blocked by a buildup of grease and debris that flooded the resident's basement.
Date/ Time Discovered	May 7, 2015 at approximately 10:45 PM
Action Taken	They removed a buildup of grease and debris in the manhole to clear the obstruction in the sewer.
Date/Time Discharge Ceased	May 8, 2015 at approximately 12:00 AM
Estimated Volume	10 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	DC Water – Department of Sewer Services performed closed circuit television inspection of the 10 inch sewer main to determine whether additional steps may be needed to prevent a recurrence at this location.

Location	800 block of Rhode Island Ave., NE
Cause	The District of Columbia Water and Sewer Authority (DC Water) received a service call regarding an overflowing sewer manhole. A sewer maintenance crew was dispatched to the site to investigate the report. The crew found an overflowing manhole in the 800 block of M Street, NE
Date/ Time Discovered	May 26, 2015 at approximately 1:30 PM
Action Taken	They removed a buildup of grease and debris in the manhole to clear the obstruction in the sewer and closed circuit television camera inspection performed at the time showed that the pipe was fully open.
Date/Time Discharge Ceased	May 26, 2015 at approximately 5:00 PM,
Estimated Volume	500 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	The DC Water Department of Sewer Services will performed closed circuit television inspection of the 15 inch sewer to determine whether additional steps may be needed to prevent a recurrence at this location.

Location	3700 block of 4th Street, SE
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding an overflowing manhole near 3719 4th Street, SE. The crew found a buried manhole that was partially collapsed and overflowing unto a grassy sidewalk.
Date/ Time Discovered	June 24, 2015 at approximately 3:00 PM
Action Taken	The crew removed debris in the manhole to clear the obstruction in the sewer.
Date/Time Discharge Ceased	June 24, 2015 at approximately 10:00 PM
Estimated Volume	200 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	DC Water rebuilt the manhole and will conduct closed circuit television inspection of the 10 inch sewer main to determine whether additional steps may be needed to prevent a recurrence at this location.

Dry Weather Flows

Location	Morrow Drive and 16th St., NW
Cause	National Park Services (NPS) – during overnight storm a tree fell across an 8-inch sanitary sewer in Rock Creek Park causing seepage from a joint in the pipe to flow into the stream.
Date/ Time Discovered	July 1, 2015 at approximately 9:30 AM
Action Taken	The crew applied quick setting cement to stop the leak.
Date/Time Discharge Ceased	July 1, 2015 at 1:30 PM
Estimated Volume	< 20 gallons.
Did Overflow Reach Receiving water?	Yes.
Action taken to prevent reoccurrence	DC Water has submitted a permit application with NPS to rehabilitate the 8-inch pipe in Rock Creek Park using CIPP lining to prevent a recurrence at this location.

Location	5011A Broad Branch Road, NW
Cause	Unconfirmed sanitary sewer overflow - Staff from Sewer Services responded to an odor complaint from the District's Department of the Environment near storm outfall at 5011A Broad Branch Rd., NW. and collected outfall water sample for laboratory tests.
Date/ Time Discovered	July 9, 2015 at approximately 1:00 PM
Action Taken	No discharge observed – crew collected water sample for testing.
Date/Time Discharge Ceased	July 9, 2015 – sample collected.
Estimated Volume	Undetermined – water sample taken.
Did Overflow Reach Receiving water?	No. Sample result showed high bacteria count.
Action taken to prevent reoccurrence	DC Water developing a systematic approach with dye testing and additional sampling to identify sources.

Location	4705 6th Place, NE
Cause	DC Water received a complaint from the homeowner at 4705 6th Place, NE regarding a sewer backup in their home. The backup was caused by a buildup of roots in the 10-inch public sewer.
Date/ Time Discovered	September 10, 2015 at approximately 5:14 PM
Action Taken	The crew was able to clear a blockage in the 10-inch public sewer that serves the property to relieve the resident.
Date/Time Discharge Ceased	September 10, 2015 at 8:00 PM
Estimated Volume	10 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	DC Water will apply a chemical agent to treat roots and inspect the pipe by closed circuit television to assess the condition of the 10-inch line more thoroughly to determine whether additional steps may be needed 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

Dry Weather Flows

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 2015 mailers are located in Appendix 9-2.

Control of Solids and Floatables

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 2014 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	300.8
February	0 (2)
March	0 (2)
April	120 (2)
May	240
June	336
July	488
August	180
September	68
October	296
November	124
December	666
Total	2,818.8

Notes:

- (1) The Inflatable dams at Structure 24, diverts flow from the Northeast Boundary sewer to the Northeast Boundary Swirl Facility.
- (2) From 2/9/2015 thru 4/20/2015, structure 24 inflatable dams were deflated which didn't allow diversion of large wet weather flows to the swirl facility (See Letter to EPA dated 2/6/2015).

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	0
April	0
May	600
June	0
July	400

Control of Solids and Floatables

<i>Month</i>	<i>Quantity of Material Removed (lbs)</i>
August	0
September	0
October	800
November	0
December	725
Total	2,525

- 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**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning	
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	Total CBs Cleaned This Year to Date	
						Total	In CSS
1	1338	1338	1338	1338	1338	1521	1521
2	3320	2961	911	911	911	3417	3398
3	3237	374	0	0	0	3627	539
4	3002	1683	31	31	31	4133	2150
5	3703	1886	1738	1738	1738	4528	2681
6	3686	3106	3068	3068	3068	3790	3365
7	3144	52	33	33	33	4649	135
8	2512	347	347	347	347	2564	420
DC Water Subtotal	23,942	11,747	7,466	7,466	7,466	28,229	14,209
DDOT (via VMS) Subtotal						0	0
Grand Total	23,942	11,747	7,466			28,229	14,209
% Cleaned/Inspected to Date				100%	100%	>100%	>100%

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 2015 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	10
February	20
March	10
April	30
May	50
June	80
July	20
August	30
September	20
October	40
November	10
December	20
Total	340

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

No.	Date & Time	Location
1	May 7, 2015	Two Rivers Public Charter School 1227 4 th Street, NE, Washington, DC
2	June 12, 2015	LaSalle-Backus Education Campus 501 Riggs Road, NE, Washington, DC
3	July 30, 2015	Tyler Elementary School 1001 G Street, SE Washington, DC
4	October 19, 2015	Maret School 3000 Cathedral Avenue, NW Washington, DC
5	November 30, 2015	John Burroughs Elementary School 1820 Monroe St NE, Washington, DC

APPENDIX 7-1

Coordination of Litter Control



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

December 14, 2015

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 14th Street NW, 6th 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 waterways. We encourage your organization to review the articles on the EPA's website at 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

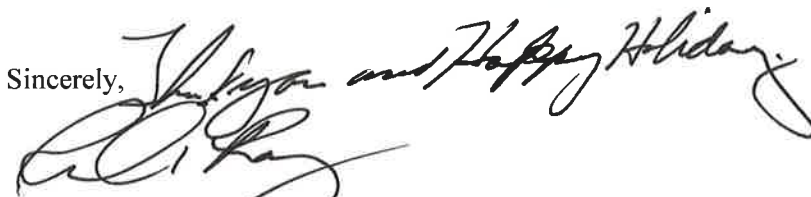
Mr. Peter May
Mr. Christopher Shorter
December 14, 2015
Page 2 of 2

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 if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Thank you and Happy Holiday" in a cursive script. Below this, there is a second, more formal signature of "Carlton M. Ray" also in black ink.

Carlton M. Ray, Director
DC Clean Rivers Project

APPENDIX 7-2

Bi-Lingual Public Education Program

CONTRACT



Radio One Inc.
 8515 Georgia Ave
 Silver Spring, MD 20910
 (301) 306-1111

<http://mymajicdc.com>

And:

DC Water and Sewer Authority
 Attention: Tiffany Walker
 5000 Overlook Ave, SW
 Washington, DC 20032

<u>Contract / Revision</u> 246987 / 1		<u>Alt Order #</u>
<u>Product</u> CATCH BASIN PSA		
<u>Contract Dates</u> 12/21/15 - 12/27/15		<u>Estimate #</u>
<u>Advertiser</u> DC Water and Sewer Authority		<u>Original Date / Revision</u> 12/15/15 / 12/15/15
<u>Billing Cycle</u> EOM/EOC	<u>Billing Calendar</u> Broadcast	<u>Cash/Trade</u> Cash
<u>Property</u> WMMJ-FM	<u>Account Executive</u> Andre Tillman	<u>Sales Office</u> Local Washingto
<u>Special Handling</u>		
<u>Demographic</u> Adults 25-54		
<u>Agency Ref</u>	<u>Advertiser Code</u>	<u>Product 1/2</u>
<u>Agency Ref</u>	<u>Advertiser Ref</u>	

*Line	Ch	Start Date	End Date	Description	Start/End Time	Days	Length	Spots/Week	Rate	Rtn	Type	Spots	Amount	
N 1	WMMJ	12/21/15	12/27/15	M-F	6a-10a		1:00				NM	5	\$700.00	
		<u>Start Date</u>	<u>End Date</u>	<u>Weekdays</u>				<u>Spots/Week</u>	<u>Rate</u>					
Week:		12/21/15	12/27/15	11111--				5	\$140.00					
N 2	WMMJ	12/21/15	12/27/15	M-F	10a-3p		1:00				NM	5	\$250.00	
		<u>Start Date</u>	<u>End Date</u>	<u>Weekdays</u>				<u>Spots/Week</u>	<u>Rate</u>					
Week:		12/21/15	12/27/15	11111--				5	\$50.00					
N 3	WMMJ	12/21/15	12/27/15	M-F PM Drive	3p-7p		1:00				NM	4	\$1,280.00	
		<u>Start Date</u>	<u>End Date</u>	<u>Weekdays</u>				<u>Spots/Week</u>	<u>Rate</u>					
Week:		12/21/15	12/27/15	1111---				4	\$320.00					
N 4	WMMJ	12/21/15	12/27/15	M-F	7p-12m		1:00				NM	5	\$100.00	
		<u>Start Date</u>	<u>End Date</u>	<u>Weekdays</u>				<u>Spots/Week</u>	<u>Rate</u>					
Week:		12/21/15	12/27/15	11111--				5	\$20.00					
N 5	WMMJ	12/21/15	12/27/15	Sa-Su Broad Rotator	6:00 AM-12:00 XM		1:00				NM	4	\$160.00	
		<u>Start Date</u>	<u>End Date</u>	<u>Weekdays</u>				<u>Spots/Week</u>	<u>Rate</u>					
Week:		12/21/15	12/27/15	-----22				4	\$40.00					
N 6	WMMJ	12/21/15	12/27/15	M-Su Overnight	12a-5a		1:00				NM	2	\$10.00	
		<u>Start Date</u>	<u>End Date</u>	<u>Weekdays</u>				<u>Spots/Week</u>	<u>Rate</u>					
Week:		12/21/15	12/27/15	-----11				2	\$5.00					
Totals												0.00	25	\$2,500.00

Time Period	# of Spots	Gross Amount	Net Amount
11/30/15 - 12/27/15	25	\$2,500.00	\$2,500.00
Totals	25	\$2,500.00	\$2,500.00

Signature: _____ **Date:** _____

(* Line Transactions: N = New, E = Edited, D = Deleted)

Notwithstanding to whom bills are rendered, advertiser, agency and service, jointly and severally, shall remain obligated to pay to station the amount of any bills rendered by station within the time specified and until payment in full is received by station. Payment by advertiser to agency or to service or payment by agency to service, shall not constitute payment to station. Station will not be bound by conditions, printed or otherwise contracts, insertion orders, copy instructions or any correspondence when such conflict with the above terms and conditions. Two week advance cancellation notice is required unless otherwise specified.

Spot Manager: Placed, 12/19/15-12/21/15

Advertiser	Placer Priority	Station	Air Time	Date	Ad-ID	Length
DC Water and Sewer Authority		30 WMMJ-FM	7:58:00 AM	12/21/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	10:26:45 AM	12/21/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	5:53:30 PM	12/21/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	11:21:15 PM	12/21/15	DC WATER-CATCH BASIN	1:00

[Sorted by: Air Time]

Spot Manager: Placed, 12/22/15-12/22/15

Advertiser	Placer Priority	Station	Air Time	Date	Ad-ID	Length
DC Water and Sewer Authority		30 WMMJ-FM	6:47:00 AM	12/22/15		1:00
DC Water and Sewer Authority		30 WMMJ-FM	10:21:30 AM	12/22/15		1:00
DC Water and Sewer Authority		30 WMMJ-FM	4:07:30 PM	12/22/15		1:00
DC Water and Sewer Authority		30 WMMJ-FM	8:20:15 PM	12/22/15		1:00

[Sorted by: Air Time]

Spot Manager: Placed, 12/23/15-12/23/15

Advertiser	Placer Priority	Station	Air Time	Date	Ad-ID	Length
DC Water and Sewer Authority		30WMMJ-FM	8:48:00 AM	12/23/15		1:00
DC Water and Sewer Authority		30WMMJ-FM	10:22:00 AM	12/23/15		1:00
DC Water and Sewer Authority		30WMMJ-FM	6:24:00 PM	12/23/15		1:00
DC Water and Sewer Authority		30WMMJ-FM	7:39:00 PM	12/23/15		1:00
DC Water and Sewer Authority		30WMMJ-FM	8:39:30 PM	12/23/15		1:00

[Sorted by: Air Time]

Spot Manager: Placed, 12/24/15-12/24/15

Advertiser	Placer Priority	Station	Air Time	Date	Ad-ID	Length
DC Water and Sewer Authority		30WMMJ-FM	6:57:00 AM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30WMMJ-FM	7:47:00 AM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30WMMJ-FM	11:24:30 AM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30WMMJ-FM	3:24:00 PM	12/24/15	DC WATER-CATCH BASIN	1:00

[Sorted by: Air Time]

Spot Manager: Placed, 12/24/15-12/28/15

Advertiser	Placer Priority	Station	Air Time	Date	Ad-ID	Length
DC Water and Sewer Authority		30 WMMJ-FM	6:58:44 AM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	11:22:44 AM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	3:24:00 PM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	7:51:03 AM	12/24/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	1:37:00 PM	12/25/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	8:36:00 PM	12/25/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		85 WMMJ-FM	8:22:30 AM	12/26/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		85 WMMJ-FM	8:23:10 PM	12/26/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	11:22:40 PM	12/26/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		85 WMMJ-FM	8:36:00 PM	12/27/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		30 WMMJ-FM	10:36:30 PM	12/27/15	DC WATER-CATCH BASIN	1:00
DC Water and Sewer Authority		85 WMMJ-FM	11:36:15 PM	12/27/15	DC WATER-CATCH BASIN	1:00

[Sorted by: Date]



WDCN-FM
 8121 GEORGIA AVE
 SUITE 900
 SILVER SPRING, MD 20910
 301-686-1123 Phone

LA NUEVA 87.7 FM WDCN Invoice

Invoice ID: 15120092
 Invoice Date: 12/31/2015
 Account ID: 0489
 Order ID: 0489-004
 Account Rep: WALTER TORREZ

Amount Due: \$2,500.00

Amount Paid: _____

DC WATER
 5000 OVERLOOK AVENUE SW
 WASHINGTON DC, 20032

OUR FED TAX # 203648254

REMIT TO: MEDIA ONE COMM
 8121 GEORGIA AVE SUITE 900
 SILVER SPRING, MD 20910

Sponsor: DC WATER / DC WATER DEC 2015
 DC WATER

Date	Time	Length	Description	CopyID / ISCI Code	Cost
12/21/2015	03:25 AM	:30	Spot	DA1115	0.00
12/21/2015	04:55 AM	:30	Spot	DA1115	0.00
12/21/2015	06:12 AM	:30	Spot	DA1115	50.00
12/21/2015	07:12 AM	:30	Spot	DA1115	50.00
12/21/2015	08:12 AM	:30	Spot	DA1115	50.00
12/21/2015	09:42 AM	:30	Spot	DA1115	50.00
12/21/2015	12:55 PM	:30	Spot	DA1115	50.00
12/21/2015	02:25 PM	:30	Spot	DA1115	50.00
12/21/2015	03:42 PM	:30	Spot	DA1115	50.00
12/21/2015	04:42 PM	:30	Spot	DA1115	50.00
12/21/2015	10:25 PM	:30	Spot	DA1115	0.00
12/21/2015	11:55 PM	:30	Spot	DA1115	0.00
12/22/2015	04:25 AM	:30	Spot	DA1115	0.00
12/22/2015	06:12 AM	:30	Spot	DA1115	50.00
12/22/2015	07:12 AM	:30	Spot	DA1115	50.00
12/22/2015	08:12 AM	:30	Spot	DA1115	50.00
12/22/2015	09:42 AM	:30	Spot	DA1115	50.00
12/22/2015	12:25 PM	:30	Spot	DA1115	50.00
12/22/2015	01:25 PM	:30	Spot	DA1115	50.00
12/22/2015	02:25 PM	:30	Spot	DA1115	50.00
12/22/2015	03:42 PM	:30	Spot	DA1115	50.00
12/22/2015	07:55 PM	:30	Spot	DA1115	0.00
12/22/2015	08:55 PM	:30	Spot	DA1115	0.00
12/22/2015	09:55 PM	:30	Spot	DA1115	0.00
12/23/2015	03:25 AM	:30	Spot	DA1115	0.00
12/23/2015	04:25 AM	:30	Spot	DA1115	0.00
12/23/2015	06:12 AM	:30	Spot	DA1115	50.00
12/23/2015	07:12 AM	:30	Spot	DA1115	50.00
12/23/2015	08:42 AM	:30	Spot	DA1115	50.00
12/23/2015	09:42 AM	:30	Spot	DA1115	50.00
12/23/2015	12:25 PM	:30	Spot	DA1115	50.00
12/23/2015	01:25 PM	:30	Spot	DA1115	50.00
12/23/2015	03:12 PM	:30	Spot	DA1115	50.00
12/23/2015	04:12 PM	:30	Spot	DA1115	50.00
12/23/2015	10:55 PM	:30	Spot	DA1115	0.00
12/23/2015	11:55 PM	:30	Spot	DA1115	0.00
12/24/2015	02:25 AM	:30	Spot	DA1115	0.00
12/24/2015	04:25 AM	:30	Spot	DA1115	0.00
12/24/2015	06:12 AM	:30	Spot	DA1115	50.00
12/24/2015	06:42 AM	:30	Spot	DA1115	50.00
12/24/2015	07:42 AM	:30	Spot	DA1115	50.00
12/24/2015	08:42 AM	:30	Spot	DA1115	50.00
12/24/2015	09:42 AM	:30	Spot	DA1115	50.00
12/24/2015	12:55 PM	:30	Spot	DA1115	50.00
12/24/2015	01:55 PM	:30	Spot	DA1115	50.00

AFFIDAVIT OF PERFORMANCE: I certify that, in accordance with the Official Station Logs, announcements were broadcast as shown on this invoice.

Continued

STATE OF _____
 COUNTY OF _____
 Subscribed and sworn before me this _____ day of _____
 _____, NOTARY PUBLIC

LA NUEVA 87.7 FM WDCN Invoice

Sponsor: DC WATER / DC WATER DEC 2015
DC WATER

Invoice ID: 15120092
Invoice Date: 12/31/2015

Page 2

Date	Time	Length	Description	CopyID / ISCI Code	Cost
12/24/2015	03:12 PM	:30	Spot	DA1115	50.00
12/24/2015	04:12 PM	:30	Spot	DA1115	50.00
12/24/2015	04:12 PM	:30	Spot	DA1115	50.00
12/24/2015	07:25 PM	:30	Spot	DA1115	0.00
12/24/2015	09:55 PM	:30	Spot	DA1115	0.00
12/25/2015	03:55 AM	:30	Spot	DA1115	0.00
12/25/2015	06:12 AM	:30	Spot	DA1115	50.00
12/25/2015	07:12 AM	:30	Spot	DA1115	50.00
12/25/2015	07:42 AM	:30	Spot	DA1115	50.00
12/25/2015	08:42 AM	:30	Spot	DA1115	50.00
12/25/2015	09:42 AM	:30	Spot	DA1115	50.00
12/25/2015	12:25 PM	:30	Spot	DA1115	50.00
12/25/2015	01:25 PM	:30	Spot	DA1115	50.00
12/25/2015	02:25 PM	:30	Spot	DA1115	50.00
12/25/2015	03:42 PM	:30	Spot	DA1115	50.00
12/25/2015	04:42 PM	:30	Spot	DA1115	50.00
12/25/2015	08:55 PM	:30	Spot	DA1115	0.00
12/25/2015	10:25 PM	:30	Spot	DA1115	0.00
12/25/2015	11:25 PM	:30	Spot	DA1115	0.00
12/26/2015	12:54 PM	:30	Spot	DA1115	25.00
12/26/2015	01:12 PM	:30	Spot	DA1115	25.00
12/26/2015	01:42 PM	:30	Spot	DA1115	25.00
12/26/2015	03:12 PM	:30	Spot	DA1115	25.00
12/26/2015	03:42 PM	:30	Spot	DA1115	25.00
12/26/2015	04:54 PM	:30	Spot	DA1115	25.00
12/27/2015	12:25 PM	:30	Spot	DA1115	25.00
12/27/2015	12:54 PM	:30	Spot	DA1115	25.00
12/27/2015	01:12 PM	:30	Spot	DA1115	25.00
12/27/2015	02:54 PM	:30	Spot	DA1115	25.00
12/27/2015	03:42 PM	:30	Spot	DA1115	25.00
12/27/2015	04:42 PM	:30	Spot	DA1115	25.00

76 Total Items

Total Cost:

2,500.00

Amount Due:

2,500.00

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.

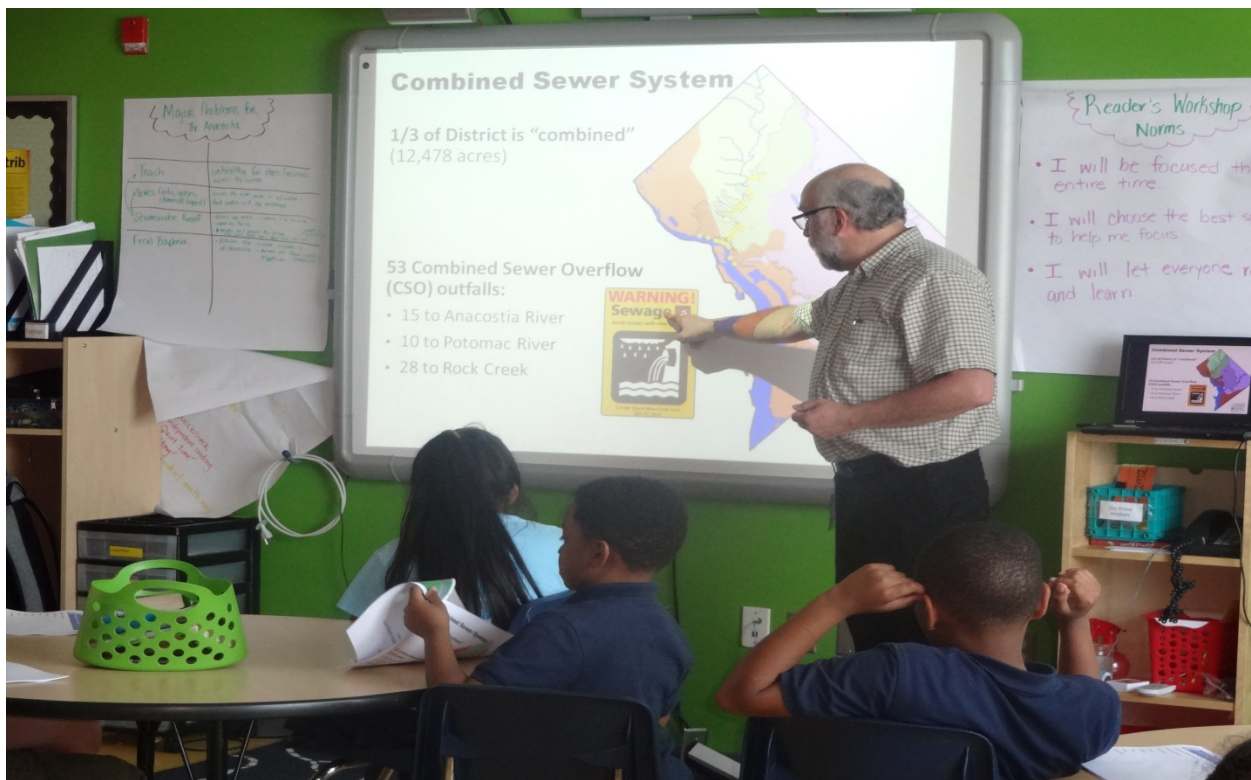
Objectives

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 2015 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 overflow 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 the Environment (DDOE) 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 DDOE, 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 – 2015

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 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: *	<input type="text" value="- Please Select -"/>
Group type, if other:	<input type="text"/>
Preferred Tour Date: *	<input type="text"/>
Tour Time: *	<input type="text" value="10"/> <input type="text" value="00"/> <input type="text" value="AM"/>
Secondary Tour Date: *	<input type="text"/>
Tour Time: *	<input type="text" value="10"/> <input type="text" value="00"/> <input type="text" value="AM"/>
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="text"/>
<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:	<input type="text"/>
	<input type="button" value="Back"/> <input type="button" value="Submit"/>

SCHEDULED JANUARY TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR DESCRIPTION	SIZE	STATUS/ NOTES	GUIDE
Wed Jan 7	11A	Service Source	6	Adults with Disabilities- remain on bus	Miguel
Thu Jan 8	10A	U.S. Department of Energy/Energy Information Administration Training Program	20	National Energy Education Development (NEED) Project We know the great things that Blue Plains is doing in efficiency and I think this group of economists, analysts, etc would really benefit from a tour. <i>On their own bus</i>	Bill
Thu Jan 22	11A	National Intelligence University	11	General tour—class from Bolling AFB	Yani
Wed Jan 28	10A	DCPS High School	8	Students will have completed a water pollution unit and I want them to see how water treatment is accomplished in an urban area	Yani
Thu Jan 29	10A	Environmental Recovery Corp	3	Environmental Recovery Corp We process industrial waste water in Pennsylvania and would like to see how your plant operates.	Bill

SCHEDULED FEBRUARY TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Tues Feb 3	2P	New Buildings Institute	5	Group traveling from Fairmont Hotel 2410 M St NW to focus on the efficiency of the building as well as any methods that introduce newly implemented industrial efficiency layers	Chris P Maureen Saul
Wed Feb 4	10A	American University	13	a research project on human activities that affect the Potomac River	Yani
Thu Feb 5	10A	DC Public Service Commission	10	DC PSC oversees electric, gas and communication utilities. Significant interest in the generation of power from biogas.	Yani
Thu Feb 12	10A	USPC <i>NO SHOW</i>	12	General Tour --To learn about general area and the history of Hope Village including Potter's Field (where Nazi saboteurs are buried). The Parole Commission has a historical interest, as well, in the former Asylum for the Poor and Indigent.	Yani
Thu Feb 19	10A	George Washington U.	8	This is for a master's level environmental science class for environmental policy majors. We are studying wastewater treatment, and the students could use a look at reality.	Yani
Fri Feb 20	11A- 12P	Wholesale Customers	16	Via William Lake/ Rodea Hines- bus confirmed <i>Brief tour</i>	Yani
Wed Feb 25	10A	Lorien Wood Junior High School-	21	This class of 6th grade students is studying the Chesapeake Bay Watershed. This field trip would introduce them to wastewater management in their watershed and help them understand how water is moved throughout the region for the public use. to understand how water is treated, transported, and moved back into the water system. on their own bus	Yani
Thu Feb 26	10:30A	Maret School	35	Remain on their own bus	Yani
Thu Feb 26	11A	Maret School	35	Remain on their own bus	Yani
Fri Feb 27	11A	US Green Building Council	25	Fleet bus reserved Congress Heights Metro pick up- Nija	Yani

SCHEDULED MARCH TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Wed Mar 4	10A	St. John's College High School	25	This is a tour for an AP Environmental Science class so they can get first-hand experience of the treatment process learned in class. On their own bus	Yani
Wed Mar 4	1:30P	University of Maryland	25	Via Adrian Romero- bus reserved from Fleet	Mark R
Fri Mar 6	1:30P	Global Environment Technology Foundation	25	General Tour- On their own bus Marc Dettmann 414-349-3733	Yani
Tue Mar 10	COF-2P	Guests of Risk Management	7	Tanya DeLeon X2051 tour van	Yani
Wed Mar 11	10-11A	Gonzaga College High School	23	General tour- LaDawne & Wendell will meet group after tour for lab component --on their own school bus	Yani/ LaDawne
Wed Mar 11	1:30-3:30P	State Department Sustainable Urban Development Group	5 +1	Clean Rivers presentation and brief tour (+1) Eric Regnier to view digesters (757) 341-4247 tour van	Bethany/ Yani
Fri Mar 13	10A	Georgetown University	20	I am a professor at Georgetown and bringing a group of MBA students looking at business issues in water.	Yani
Fri Mar 13	2P	Wilson High School	20	Walking tour of Ft. Reno. Presentations from Bethany & Jessica re: GI and pumping station operations	Bethany/ Jessica
Wed Mar 18	10A	The Bridges Academy	21	Middle school students- general tour- grades 6-7 On their own bus	Yani
Wed Mar 18	1P	The Bridges Academy	20	Middle school students- general tour- grades 7-8 On their own bus	Yani
Thu Mar 19	10A	FDA	7	General tour- tour van	Yani
Tue Mar 24	10A	Catholic University	29	General Tour	George M
Thu Mar 26	1:30P	American University Fleet Bus & Metro Pick Up	18	DC Water operations big picture on water issues/ challenges. what can students/ campuses do. group of Eco-Reps who will be running campaigns on campus on water conservation.	Yani

SCHEDULED APRIL TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Thu Apr 2	2P	UDC	5	General Tour TOUR VAN	Yani
Fri Apr 3	12P	UMD School of Public Policy Environmental Council	11	To provide a graduate student group (Environmental Policy) an educational and social outing. TOUR VAN	Yani
Wed Apr 8	9A	Kelly Miller Middle School	12	6th grade students to get an idea of how water quality is maintained in our city as compared to countries with limited availability of clean water and systems for improving water quality. TOUR VAN AND METRO PICKUP	Yani
Wed Apr 8	11:00A	Kelly Miller Middle School	13	TOUR VAN AND METRO PICKUP	Yani
Wed Apr 15	10A	John Hopkins University	15	Via World Bank- Winston Yu	George M
Wed Apr 15	1:30P	Catholic University	10	introduce sustainable waste water treatment at a state-of-the-art facility	Yani
Thu Apr 16	9:30A	US Naval Academy Patrick Caton (410)293-6516 Fleet reservation	17	senior mechanical engineering students in a waste to energy course. our goals would be to see the details of the thermal hydrolysis and the biodigestion process, and the details mechanics of the electrical generation.	Bill B
Thu Apr 16	12:30P	McLean High School	22	Grades 10 & 11	Yani

SCHEDULED APRIL TOURS FOR BLUE PLAINS- 2015

Tue Apr 21	2-3:30P	The Infrastructure Security Partnership/ Society of American Military Engineers	50	General tour via James Holloway 55 psgr motor coach reserved	Chris P Bo
Wed Apr 22	10A	Eastern Senior High School, DCPS	25	Specific goal for this tour would be to help my AP Environmental Science students understand the scale and processes of water treatment.	Yani
Wed Apr 22	2P	UDC Fleet reservation	25	General tour	Yani
Thu Apr 23	10A-12:30P	Chance Academy Fleet reservation	15	Middle school, will eat lunch after in classroom- Anna Bernahke	Yani
Thu Apr 23	2P	Mixed group	3	DC resident & VA Tech School of Architecture what happened to the Washington City Canal and how it relates to the water system now.	Yani
Wed Apr 29	10A	Holton-Arms Junior High School	18	I would love to show our group of girls such a feat of engineering, and expose them to where their water goes and how its treated.	Yani
Thu Apr 30	10A	DC Public Schools- The School Operations **Presentation given by Jonathan Reeves	12	tour facility to better understand DC Water Operations and Communications, how water gets to our schools, and how water issues in our schools are resolved.	Yani/ John R

SCHEDULED MAY TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Wed May 6	10A	511th Engineer Dive Detachment	6	Provide professional development by familiarizing junior military engineer officers with wastewater treatment processes. TOUR VAN	Yani
Thu May 7	10A	HasNa	13	we organize training programs for agricultural professionals and farmers coming from Turkey, Cyprus, and Armenia. 9:45 AM METRO PICK UP / TOUR VAN	Yani
Wed May 13	10A	Landon School	25	AP Chemistry and AP Environmental Science students (juniors and seniors in high school) would like to learn how waste water is processed- on their own van	Yani
Thu May 14	10:30A	EFAB (Finance)	28	Contact Deborah Cole- briefing in 4 th flr board room Fleet Bus- reservation— meet at COF 4th floor	Yani
Mon May 18	1P	OMB Regulatory Affairs	14	Tour request via Will Pickering Fleet Bus site pick up corner of 17 th & G Sts NW	Walt
Tue May 19	1P	National Water Sector Coordinating Council	15	Tour request via Jonathan Reeves Fleet Bus- reservation	Yani
Thu May 21	10A	Mixed group	5	General tour FLEET LOANER VAN- WED PICK UP	Yani
Thu May 28	10A	Arlington Regional Master Naturalists	25	We want to understand advanced methods of treating water and managing waste, along with the by-products that are possible	Yani

SCHEDULED **JUNE** TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Mon Jun 1	1P	DDOE Interstate Commission Potomac River Basin	18	Fleet Bus reservation—DDOE pick up & drop off 1200 1 st St NE Contact: Bo Park 240-533-1330 (Cell) Water bottles	Aklile/ Yani
Tue Jun 2	9:30-11A	St. Albans School- 8 th graders	69	Via Mark Kim—COF boardroom- 4 th floor	Yani/ Miguel
Wed Jun 3	10A	The Madeira School	11	students VA& HI who are learning about water pollution and the health of the Chesapeake Bay. They will be advocating for this issue by lobbying Congress and also teaching other teens about the issues involved.	Yani
Wed Jun 3	11A-2P	WRI & Chinese Delegation	9	CMF Conf Room A- meeting & lunch provided for Q&A	Bill
Wed Jun 3	2P	Korean Delegation- Univ of Michigan	16	General Tour- on their own bus	Yani
Thu Jun 4	10A	Dunbar Engineering Academy	13	Exposure to engineering careers- Fleet LOANER VAN metro pick up	Yani
Fri Jun 5	10A	DCW Summer Interns	24	General tour ---Fleet Bus- reservation	Yani
Fri Jun 5	2P	DCW Summer Interns	24	General tour---Fleet Bus- reservation	Yani
Sun Jun 7	2P	WEF/IWA Residuals/Biosolids Conf	88	General tour- drop off at Convention Center	2 guides
Wed Jun 10	2P	WEF/IWA Residuals/Biosolids Conf	146	Biosolids tour- 6 groups	6 guides
Thu Jun 11	10A	PSI Services	10	To teach my class about drinking tap water instead of bottled water that pollutes the environment.	Yani
Thu Jun 18	10A	EPA Office of Water Research Fellows	9	Learn operations at treatment plant. We work in the EPA Office of Ground Water and Drinking Water.	Yani
Thu Jun 18	2P	State Department	25	Water Professionals from other state agencies- hosted Fleet Bus reservation	Yani Saul
Tue Jun 23	10A	DCBIA	25	General tour- Fleet Bus reservation	Yani
Tue Jun 23	2P	Georgetown Unvers	7		Yani
Thu Jun 25	10A	Chesapeake Bay Foundation	15	Teacher Professional Development workshop.	George

SCHEDULED **JULY** TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Wed Jul 1	10A	EPA Interns- legal counsel	12	Carpooling- DCW van- Security will reserve spaces	Yani
Thu Jul 9	10A	Chesapeake Bay Foundation Via Boat to DCW dock Sam Woolford 2024941282	18	DCPS teacher course focusing on the impacts of everyday actions on the Potomac and Anacostia. full tour and talk about the upgrades and Clean Rivers project.	Yani
Fri Jul 10	2P	Infragard	21	Contact: Patti Lamb	Yani
Wed Jul 15	10A	EPA Summer Interns	12	DCW van- general tour	Yani
Wed Jul 15	2P	Arcadis	6	DCW van- general tour	Yani
Thu Jul 16	10A	L.S. Caldwell & Associates	12	DCW van- general tour	
Tue Jul 21	10A	Buchanan HS traveling from PA on their own bus	8	Blue Plains tour then Poplar St tour with Garry Brennan- lunch in between	Yani
Thu Jul 23	10A	Healthy Buildings	11	DCW van- general tour	Yani
Mon Jul 27	10A	Natl Assoc Black Women In Construction	20	General tour-	Yani
Wed Jul 29	10A	Anacostia Museum	20	General tour	Yani
Thu Jul 30	10A	NVCC	15	Introductory Environmental Science class. focus on any innovative, advanced treatment technologies emergency procedures; legal requirements - CWA, NPDES, BAT/BMP, TMDLs, testing, etc; relationship between your facility and other governmental and NGOs; career information	Yani

SCHEDULED AUGUST TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Thu Aug 6	10A	Mixed group- DC residents	7	General tour- DCW van	George
Wed Aug 12	11:30A	Mayor's Policy Office	5	Clean Rivers/ General tour- DCW van	Will P
Tue Aug 18	10A	Aruba	2	General Tour	Chris P
Thu Aug 20	10A	Citizens and Scientists	15	General tour- DCW van- some work at Naval Research Lab- next door	Yani
Thu Aug 27	10A	Chinese Delegation	14	General tour	Yani

SCHEDULED SEPTEMBER TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Thu Sep 3	10A	Mixed Group- DC residents	7	General tour- DCW van	Yani
Fri Sep 4	10A	CH2M- Honolulu Contact: Gary Weil	10	General tour- DCW van	Chris P
Wed Sep 9	3:45P	Rating Agency	10	Fleet Bus – reserved (plant tour scheduled for 1 hour)	Salil
Thu Sep 10	3:15P	Rating Agency	10	Fleet Bus – reserved (plant tour scheduled for 1 hour)	Salil
Fri Sep 11	9-11A	DHS Natl Advisory Council	20	Fleet Bus – reserved Mtg w GSH and JReeves prior to tour	Aklile
Fri Sep 11	12:30P	Rating Agency	10	Fleet Bus – reserved (plant tour scheduled for 1 hour)	Salil
Thu Sep 17	10A	Inspire Green- Environmental Group	5	General tour- DCW van LIST SENT	Yani
Fri Sep 18	10A	College students Contact: Caitlin Freehan- DCW	25	General tour LIST SENT Fleet Bus – reserved	Yani
Wed Sep 23	10A	Meridian International Center- Hosted by State Dept	23	General tour- Asian delegation- LIST SENT	Yani
Thu Sep 24	10A	US AID	4	General tour LIST SENT	Yani
Fri Sep 25	9:30A	UM Environmental Science	25	General tour Fleet Bus - reserved	Yani
Fri Sep 25	12P	UM Environmental Science	25	General tour Fleet Bus - reserved	Yani
Fri Sep 25	10A	Finance Green Bond Investors	25	Fleet Bus – reservation needed to transport guests to & from Convention Center for plant tour	Chris P

SCHEDULED OCTOBER TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Wed Oct 7	2P	George Mason EMBA students	8	General tour- DCW van Via Maureen Holman <i>Holman to provide list to Security</i>	Yani
Thu Oct 8	10A	Johns Hopkins University Graduate School	25	School of Advanced International Studies (SAIS). Water treatment as a solution to reduce poverty and inequality-	Yani
Thu Oct 8	1P	GSA	10	General tour- DCW van Via Maureen Holman <i>Holman to provide list to Security</i>	Chris P
Fri Oct 9	9A	Hong Kong delegation	8	DC Water Van Bev Stinson via AECOM –	Christine
Wed Oct 14	10:30A 2:30P	UMD- Adrian Romero	20	General tour- Fleet bus reservation from 10A-5P <i>Romero to provide list to Security</i>	Mark R
Fri Oct 16	10A	Kinship Care Program	12	General tour- DCW van-	Yani
Wed Oct 21	10A	San Francisco Water Authority	4	General tour- GM request via Lisa Barton	Chris P
Thu Oct 22	10A	Sierra Club - Prince George's County waiting for list of participants... Contact: (301) 221-4984	12	To gain a better understanding of the municipal water system and treatment regimen of wastewater.	Yani Miguel
Thu Oct 22	2P	US AID training course	35	On their own bus-	Yani
Mon Oct 26	4:30P	UMD- Lance Yonkos	12	General tour- DCW van	Yani Theresa
Wed Oct 28	10A	Halloween Tour	TBD	General tour	Yani
Thu Oct 29	10A	Halloween Tour	TBD	General tour	Yani
Fri Oct 30	10A	Halloween Tour	2	General tour	Yani

SCHEDULED NOVEMBER TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Tue Nov 3	10A	COG	4	Via Nicole Kaiser- general tour	Bill
Tue Nov 3	10A	US-China Business Training	16	General tour w/ interpreter	Yani
Wed Nov 4	10A	George Mason High School	16	Part of our unit on aquatic resources. Students will tour a water treatment plant and would like to visit a wastewater treatment plant to understand the operation and science & engineering behind it.	Yani
Thu Nov 5	10A	Cedar Lane Unitarian Universalist Church	7	We plan to offer this tour through our community adult education program. Members of our church and greater community are highly conscious of the environment, and this tour will help further educate and enlighten us on how our waste is dealt with and our water treated.	Yani
Thu Nov 12	10A	DC senior citizens	8	General tour	
Fri Nov 13	1P	GW Law Students	12	General tour	
Mon Nov 16	10A	Green Build Tour	25	Contact: Bala Srini	Yani & ChrisP
Wed Nov 18	10	UMD Public Health	14	General tour	Yani
Thu Nov 19	10	Everybody Grows	8	To learn about dc water, the way waste is treated, and to understand more about biosolids.	Yani

SCHEDULED DECEMBER TOURS FOR BLUE PLAINS- 2015

DATE	TIME	TOUR GROUP	SIZE	DESCRIPTION/ NOTES	GUIDE
Thu Dec 3	10A	DC residents	12	General tour	Yani
Wed Dec 9	10A	Capitol Hill Day School 7 th graders	22	To learn the step by step process of treating wastewater- on their own bus	Yani
Thu Dec 10	10A	Dumbarton Oaks Research Library Research Fellows	15	The group are research fellows related to landscape studies and are interested in the overall water filtration system and green infrastructure alternatives related to the LTCP	Yani
Wed Dec 16	10:30A	Global Environment Facility	25	General tour- on their own bus	Yani

APPENDIX 8-2

Notification of Responsible Agencies



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

February 10, 2015

Tommy Wells, Director
District Department of Environment
1200 First Street NE, 5th Floor
Washington, DC 20002

William O. Howland, Jr., Director
Department of Public Works
2000 14th Street NW, 6th Floor
Washington, DC 20009

Leif Dormsjo, Director
District Department of Transportation
2000 14th Street, NW, 6th Floor
Washington, DC 20009

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 Environment, Department of Transportation and Department of Public Works diligently enforce the appropriate code regulations within respective jurisdictions to ensure the integrity of the combined sewer 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 if there are any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Carlton M. Ray".

Carlton M. Ray, Director
DC Clean Rivers Project

APPENDIX 8-3

Examples of Agency Coordination for Pollution Prevention



Mayor Muriel Bowser

Search Menu

Contact

Department of Public Works

Cold Emergency -The District's Cold Emergency Plan is currently active.
The Cold Emergency Plan is part of the 2015-2016 Winter Plan.



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 between December 26 and January 8 and will be composted. Trees and greenery collected after January 8 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 up between December 26 and January 8. Please do not put the trees in plastic or cloth bags. Trees collected between December 26 and January 8 will be chipped and composted.
- Any trees not collected by January 8 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

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



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.

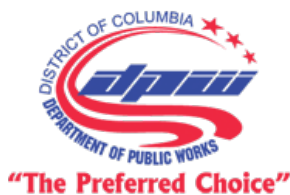
- [Find Your Trash and Recycling Collection Schedule](#)

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



Mayor Muriel Bowser

Search Menu

Contact

Department of Public Works

Cold Emergency -The District's Cold Emergency Plan is currently active.
The Cold Emergency Plan is part of the 2015-2016 Winter Plan.



SHARE [social media icons] [Accessibility icons]

Alley Cleaning



DPW cleans residential alleys once every six weeks between March and October. In between cleanings, residents are asked to pick up litter in the alleys. Call 311 to request an alley cleaning.

Request the following services by calling 311 or using 311.dc.gov.

Alley Cleaning

You can request that public alleys be cleaned. Alley cleaning takes place during the spring, summer and fall and is performed by crews that rotate throughout the city.

Contact Email: 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:

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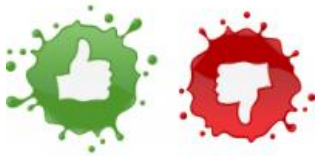
Find Your Trash and Recycling Collections Day(s)



Enter part or all of any address in the District of Columbia to see your pick up day(s) for Trash and Recycling Collection.

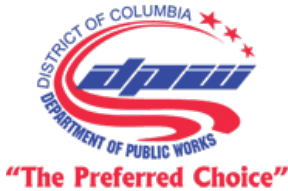
- [Find Your Trash and Recycling Collection Schedule](#)

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Department of Public Works



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Email: dpw@dc.gov



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[Korean \(\)](#)
[Spanish \(Español\)](#)
[Vietnamese \(Tiếng Việt\)](#)

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[District Initiatives](#)

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[Contact Us](#)

DPW LEAF COLLECTION PAMPHLET



Leaf Collection Program
DC
2015-2016
Fall-Winter
November 2 to January 9



New Collection Schedule to Increase Efficiency

This season, the Department of Public Works will follow a one-week collection schedule to reduce the time between when you rake/bag your leaves and when DPW collects them. We will make two one-week passes in your neighborhood between November 2 and January 9.

NOTE CAREFULLY when we will be in your neighborhood and have your leaves ready for collection by the Sunday of each of your collection weeks.

Rake loose leaves into your treebox or bag your leaves (using paper bags, please) and place them in your treebox. Loose and bagged leaves in the treebox, or at the curb if there is no treebox, will be composted.

Bagged leaves also may be placed where your trash and recycling are collected. These leaves will be collected with the trash and will not be composted. **Once we service your area, we will not return until your next scheduled collection.**

Please – leaves only! Tree limbs, bricks, dirt, rocks, etc. will damage the equipment and delay collections.

Prevent fires and parking problems by placing leaves in the treebox, not in the street.

Leaf Collection Facts

Every street will have at least two one-week collections.

Collections will be made on Veterans Day (November 11), and Thanksgiving (November 26). No collections will be made Christmas (December 25) and New Year's Day (January 1).

Snow storms will disrupt the collection schedule because the DPW leaf collection staff support the snow removal program. Expect schedule delays when snow/ice storms are predicted.

DPW will collect your leaves even if the schedule is delayed due to weather or other circumstances. Please be patient. Check the collection status online at <http://leaf.dcgis.dc.gov/>. Images of collections in your neighborhood also will be posted on this site.

DC 2015-2016 Leaf Collection Program

Good to know...



Bring leaves to Ft. Totten
4900 John F. McCormack Drive, NE.

Weekdays, 1 pm to 5 pm
Saturdays, 8 am to 3 pm
For more information, call 311


Free Compost

Available to residents, March to October,
at Ft. Totten, Saturdays 8 am to 3 pm.



Prevent water pollution


Keep catch basins clear of leaves, debris and trash. Do not sweep leaves, litter or other debris into gutters or catch basins. Clogged catch basins (storm drains) can cause street flooding during heavy rain. Organic material, cigarette butts and trash washed into catch basins contribute to water pollution in our streams and rivers. To report a clogged catch basin, call DC Water at 202.612.3400.



Properly dispose of motor oil and other hazardous materials at the weekly DPW Household Hazardous Waste/E-cycling drop-off at Ft. Totten, Saturdays (except holidays), 8 am to 3 pm. Do not dump these items into the catch basins to prevent polluting our waterways and harming wildlife.

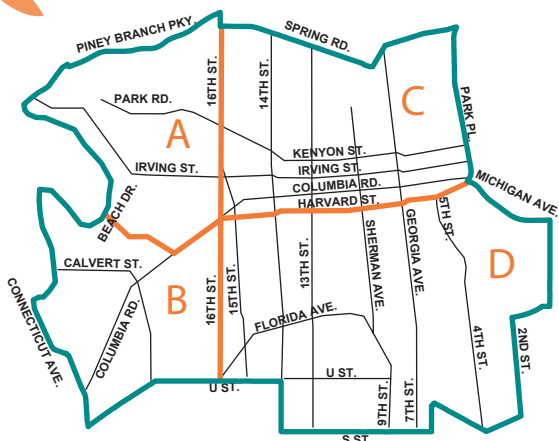
2015 Holiday tree pick-up

Holiday trees and greenery will be collected from the curb in front of your home, December 26 – January 8 and will be composted. After January 8, place holiday trees and greenery where your trash and recycling are collected and they will be picked up with your trash as space allows in the trash trucks. Holiday trees and greenery brought to the Fort Totten Transfer Station between December 26 and January 31 will be composted.





Ward 1



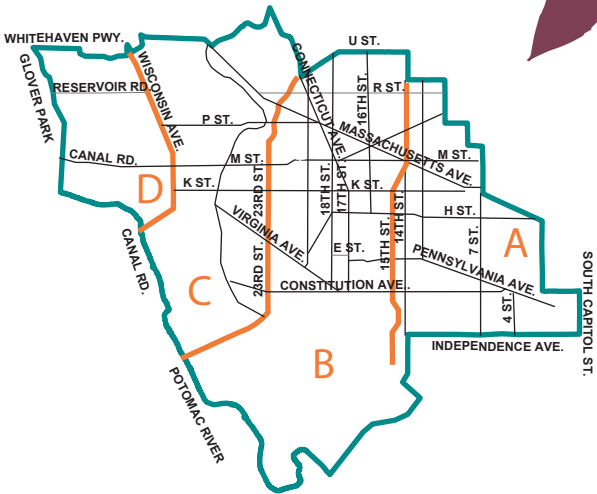
Cycle 1

Area Boundaries	Rake Leaves out by Sunday:	For Collection From:
Area A: West of 16 St. North of Ontario Rd.	November 1, 2015	November 2 to November 7
Area B: West of 16 St. South of Ontario Rd.	November 8, 2015	November 9 to November 14
Area C: East of 16 St. North of Harvard St.	November 15, 2015	November 16 to November 21
Area D: East of 16 St. South of Harvard St.	November 22, 2015	November 23 to November 28

Cycle 2

Area A: West of 16 St. North of Ontario Rd.	November 29, 2015	November 30 to December 5
Area B: West of 16 St. South of Ontario Rd.	December 6, 2015	December 7 to December 12
Area C: East of 16 St. North of Harvard St.	December 13, 2015	December 14 to December 19
Area D: East of 16 St. South of Harvard St.	December 20, 2015	December 21 to December 26

Ward 2



Cycle 1

Area Boundaries

Rake Leaves out by Sunday:

For Collection From:

Area A: East of 15 St. November 1, 2015 November 2 to November 7
North of Independence Ave.

Area B: West of 15 St. November 8, 2015 November 9 to November 14
North of Potomac River

Area C: West of 23 St. November 15, 2015 November 16 to November 21
North of Potomac River

Area D: West of Wisconsin Ave. November 22, 2015 November 23 to November 28
North of Potomac River

Cycle 2

Area A: East of 15 St. November 29, 2015 November 30 to December 5
North of Independence Ave.

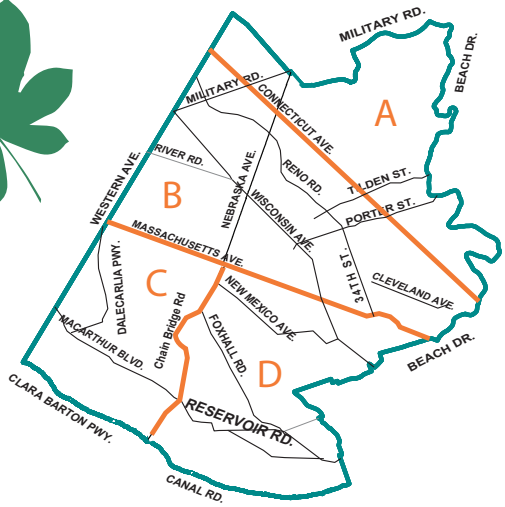
Area B: West of 15 St. December 6, 2015 December 7 to December 12
North of Potomac River

Area C: West of 23 St. December 13, 2015 December 14 to December 19th
North of Potomac River

Area D: West of Wisconsin Ave. December 20, 2015 December 21 to December 26
North of Potomac River



Ward 3



Area Boundaries **Rake Leaves out by Sunday:** **For Collection From:**

Cycle 1

Area A: November 1, 2015 November 2 to November 7
 West of Beach Dr.
 East of Connecticut Ave.

Area B: November 8, 2015 November 9 to November 14
 West of Connecticut Ave.
 East of Massachusetts Ave.

Area C: November 15, 2015 November 16 to November 21
 West of Massachusetts Ave.
 North of Chain Bridge Rd.

Area D: November 22, 2015 November 23 to November 28
 South of Chain Bridge Rd.
 West of Massachusetts Ave.

Cycle 2

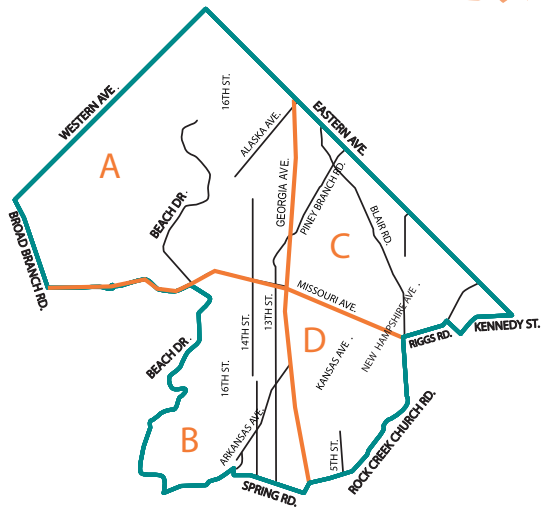
Area A: November 29, 2015 November 30 to December 5
 West of Beach Dr.
 East of Connecticut Ave.

Area B: December 6, 2015 December 7 to December 12
 West of Connecticut Ave.
 East of Massachusetts Ave.

Area C: December 13, 2015 December 14 to December 19
 West of Massachusetts Ave.
 North of Chain Bridge Rd.

Area D: December 20, 2015 December 21 to December 26
 South of Chain Bridge Rd.
 West of Massachusetts Ave.

Ward 4



Area Boundaries

Rake Leaves out by Sunday:

For Collection From:

Area A: November 1, 2015 November 2 to November 7
 East of Beach Dr., Broad Branch Rd.
 West of Georgia Ave.

Area B: November 8, 2015 November 9 to November 14
 East of Beach Dr.
 West of Georgia Ave.

Area C: November 15, 2015 November 16 to November 21
 East of Georgia Ave.
 North of Missouri Ave.

Area D: November 22, 2015 November 23 to November 28
 South of Missouri Ave.
 East of Georgia Ave.

Cycle 1

Area A: November 29, 2015 November 30 to December 5
 East of Beach Dr., Broad Branch Rd.
 West of Georgia Ave.

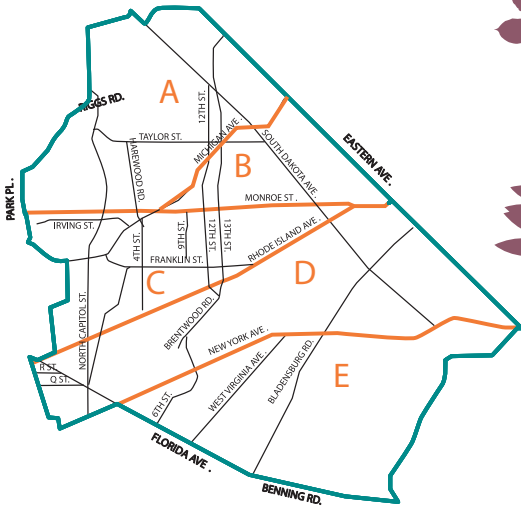
Area B: December 6, 2015 December 7 to December 12
 East of Beach Dr.
 West of Georgia Ave.

Area C: December 13, 2015 December 14 to December 19
 East of Georgia Ave.
 North of Missouri Ave.

Area D: December 20, 2015 December 21 to December 26
 South of Missouri Ave.
 East of Georgia Ave.

Cycle 2

Ward 5



Area Boundaries

Rake Leaves out by Sunday:

For Collection From:

Area A: November 1, 2015 November 2 to November 7
 West of Eastern Ave.
 North of Irving St., Michigan Ave.

Area B: November 8, 2015 November 9 to November 14
 West of Eastern Ave.
 North of Monroe St.

Area C: November 15, 2015 November 16 to November 21
 South of Irving St., Monroe St.
 North of Rhode Island Ave.

Area D: November 22, 2015 November 23 to November 28
 South of Rhode Island Ave.
 North of New York Ave.

Area E: November 29, 2015 November 30 to December 5
 South of New York Ave.
 North of Benning Rd.

Cycle 1

Area A: December 5, 2015 December 7 to December 12
 West of Eastern Ave.
 North of Irving St., Michigan Ave.

Area B: December 13, 2015 December 14 to December 19
 West of Eastern Ave.
 North of Monroe St.

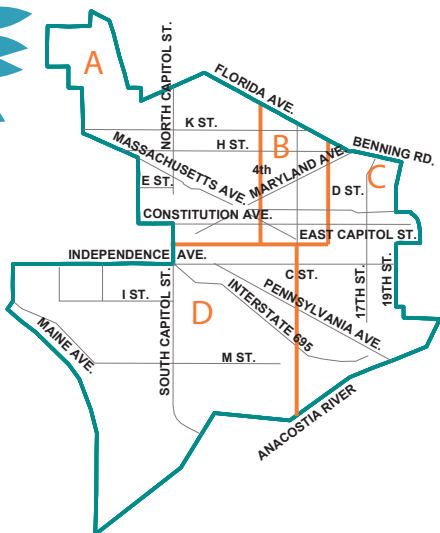
Area C: December 20, 2015 December 21 to December 26
 South of Irving St., Monroe St.
 North of Rhode Island Ave.

Area D: December 27, 2015 December 28 to January 2, 2016
 South of Rhode Island Ave.
 North of New York Ave.

Area E: January 3, 2016 January 4 to January 9, 2016
 South of New York Ave.
 North of Benning Rd.

Cycle 2

Ward 6



Cycle 1

Area Boundaries

Rake Leaves out by Sunday:

For Collection From:

Area A:
West of 4 St.
North of E. Capitol St.

November 1, 2015

November 2 to
November 7

Area B:
East of 4 St.
North of E. Capitol St.

November 8, 2015

November 9 to
November 14

Area C:
East of 11 St., 14th PL.
West of 19 St.

November 15, 2015

November 16 to
November 21

Area D:
West of 11 St.
South of E. Capitol St., Independence Ave.

November 22, 2015

November 23 to
November 28

Cycle 2

Area A:
West of 4 St.
North of E. Capitol St.

November 29, 2015

November 30 to
December 5

Area B:
East of 4 St.
North of E. Capitol St.

December 6, 2015

December 7 to
December 12

Area C:
East of 11 St., 14th PL.
West of 19 St.

December 13, 2015

December 14 to
December 19

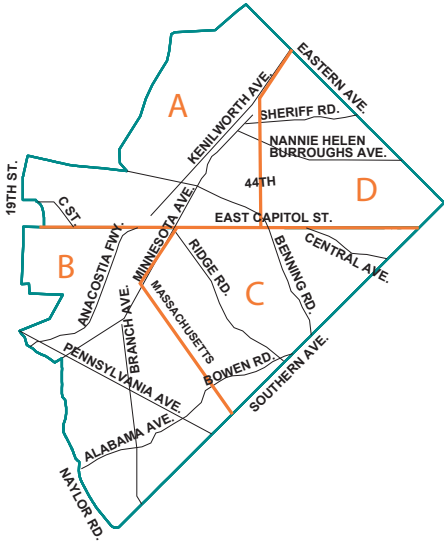
Area D:
West of 11 St.
South of E. Capitol St., Independence Ave.

December 20, 2015

December 21 to
December 26



Ward 7



Area Boundaries

Area A:
West of 44 St.
East of 19 St.

Area B:
South of E. Capitol St.
West of Minnesota Ave., Massachusetts Ave.

Area C:
South of E. Capitol St.
East of Minnesota Ave., Massachusetts Ave.

Area D:
East of 44 St.
North of E. Capitol St.

Rake Leaves out by Sunday:

November 1, 2015

November 8, 2015

November 15, 2015

November 22, 2015

For Collection From:

November 2 to
November 7

November 9 to
November 14

November 16 to
November 21

November 23 to
November 28

Cycle 1

Area A:
West of 44 St.
East of 19 St.

November 29, 2015

November 30 to
December 5

Area B:
South of E. Capitol St.
West of Minnesota Ave., Massachusetts Ave.

December 6, 2015

December 7 to
December 12

Area C:
South of E. Capitol St.
East of Minnesota Ave., Massachusetts Ave.

December 13, 2015

December 14 to
December 19

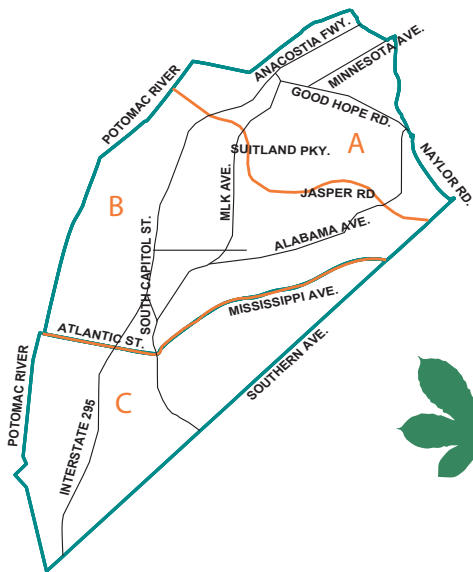
Area D:
East of 44 St.
North of E. Capitol St.

December 20, 2015

December 21 to
December 26

Cycle 2

Ward 8



Area Boundaries

Rake Leaves out by Sunday:

For Collection From:

Area A:
West of Naylor Rd.
East of Suitland Pky., Jasper Rd.

November 1, 2015

November 2 to
November 7

Area B:
West of Suitland Pky., Jasper Rd.
North of Mississippi Ave.

November 8, 2015

November 9 to
November 14

Area C:
South of Mississippi Ave.
North of Southern Ave.

November 15, 2015

November 16 to
November 21

Area A:
West of Naylor Rd.
East of Suitland Pky., Jasper Rd.

November 29, 2015

November 30 to
December 5

Area B:
West of Suitland Pky., Jasper Rd.
North of Mississippi Ave.

December 6, 2015

December 7 to
December 12

Area C:
South of Mississippi Ave.
North of Southern Ave.

December 13, 2015

December 14 to
December 19

Cycle 1

Cycle 2



Follow the progress of leaf collection
<http://leaf.dcgis.dc.gov>

If you need information about leaf collection in Spanish, Chinese,
Vietnamese, Korean or Amharic, please call 202 673 6833.



Solid Waste Management Administration
2750 South Capitol Street, SE
Washington, DC 20032

Si necesita información sobre el servicio de recolección de hojas, sírvase llamar al (202) 673-6833.

如果您需要有關樹葉收集的資訊，請電 (202) 673-6833。

낙엽 수집에 대한 정보를 원하시면, (202) 673-6833번으로 연락하십시오.

Nếu bạn cần thông tin về sưu tầm lá cây, vui lòng gọi số điện thoại (202) 673-6833.

ትጠል እንዴት እንደሚሰበሰብ መረጃ ካስፈለገዎት እባክዎን (202) 673-6833 ይደውሉ።

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. CSO information is at the following link: http://www.dewater.com/wastewater_collection/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 2015, 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.

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:



Public Notification

- 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

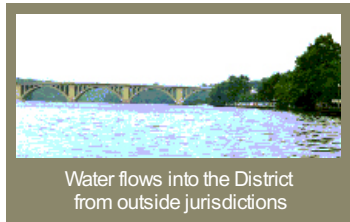
Environment

- ▶ 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 \(CSO\)?](#)

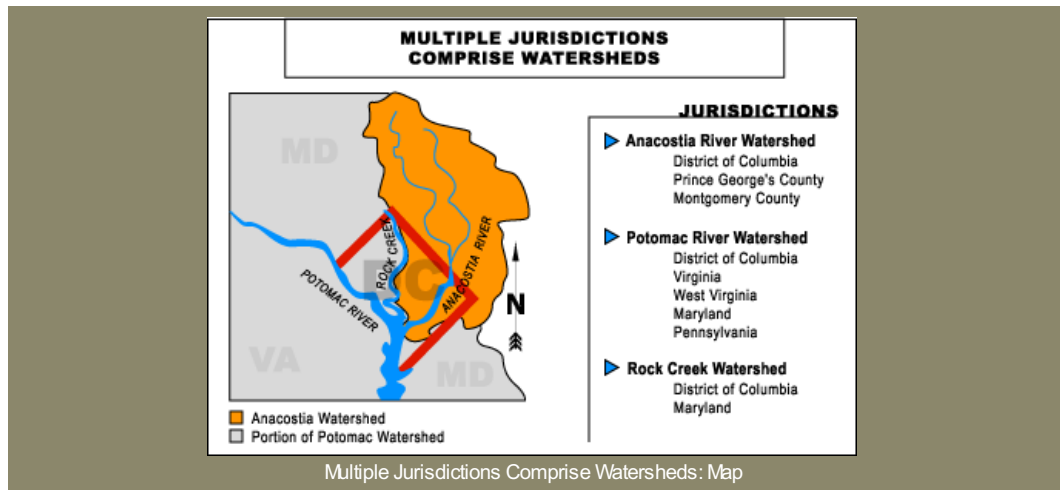
What Affects Water Quality?



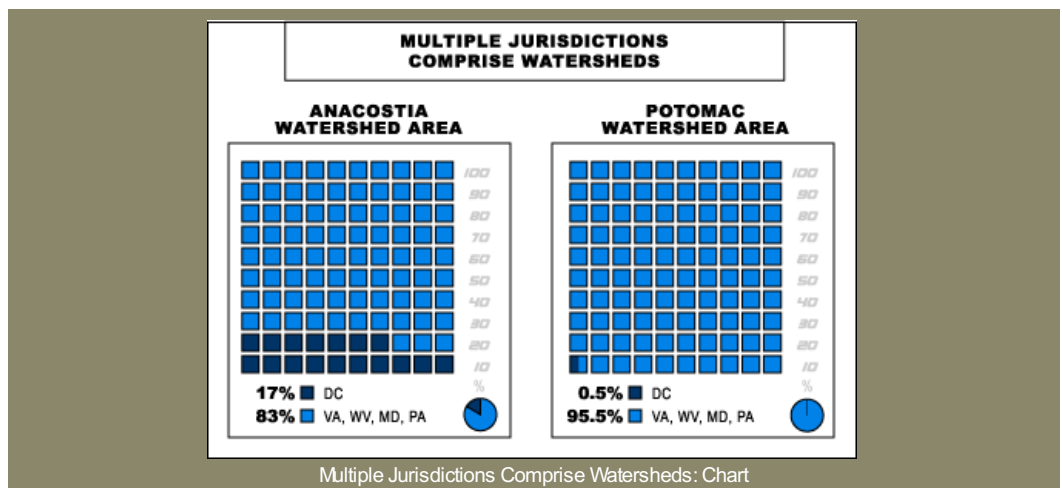
Water flows into the District from outside jurisdictions

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](#) ↑

[Contact Us](#) | [Careers](#) | [Site Map](#) | [Privacy Policy](#)

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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.

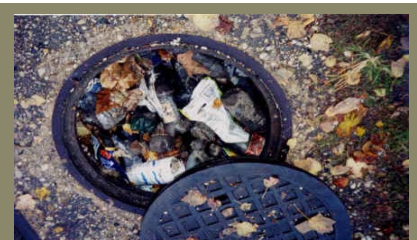


Trash on street washes into catch basin.



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).



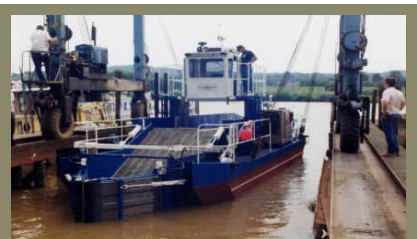
Trash in the catch basins can cause problems.



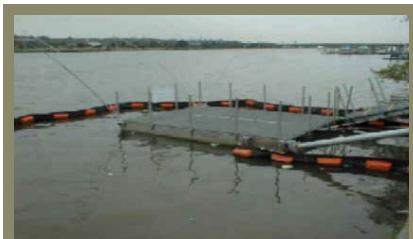
Trash on the Potomac River shoreline.

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.



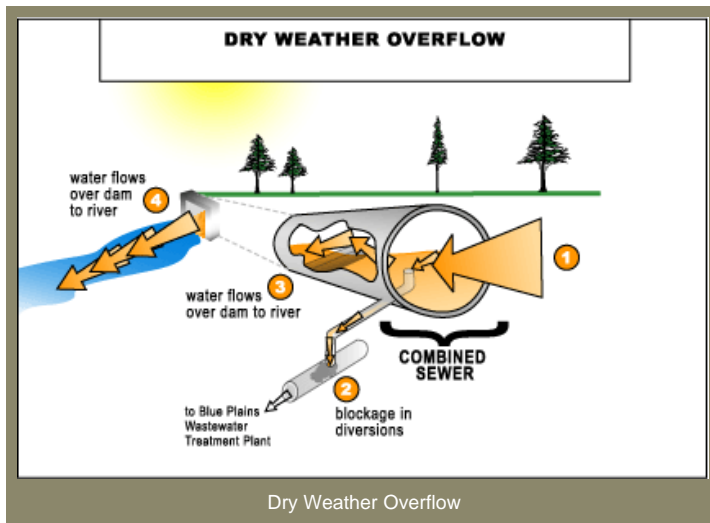
[Anacostia River Floatables Debris Program](#)
DC Water operates boats which remove floatable debris from the Anacostia River. The program removes large quantities of debris, as illustrated in the photograph above.



[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.

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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 [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
2015			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	562 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	569 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	785 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	544 KB
2014			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	548 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	561 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	436 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	532 KB
2013			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	554 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	509 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	511 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	550 KB
2012			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	788 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	399 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	552 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	557 KB

Show All

[CSO Division Quarterly Operation Reports](#)

[Long-Term Control Plan Consent Decree Quarterly Reports](#)

[Three Party Consent Decree Quarterly Reports](#)

Date	Title	Type	Size
2011			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	460 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	365 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	357 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	379 KB
2010			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	367 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	912 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	364 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	353 KB
2009			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	414 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	896 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	426 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	395 KB
2008			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	368 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	373 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	407 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	2.4 MB
2007			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	385 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	476 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	390 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	388 KB
2006			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	402 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	402 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	393 KB
2005			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	404 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1.1 MB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	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
2015			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	84 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	329 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	83 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	330 KB
2014			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	332 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	324 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	323 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	118 KB
2013			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	299 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	298 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	297 KB
2012			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	243 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	241 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	114 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	243 KB
2011			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	114 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	240 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	118 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
2010			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	81 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	174 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	177 KB
2009			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	95 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	175 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	173 KB

Date	Title	Type	Size
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	209 KB
2008			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	86 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	130 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	126 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
2007			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	71 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	128 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	126 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	124 KB
2006			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	123 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	71 KB
2005			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	132 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	125 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	241 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	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
2015			
4th Quarter	3-Party Consent Decree Status Report	PDF	66 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	293 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	64 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	290 KB
2014			
4th Quarter	3-Party Consent Decree Status Report	PDF	291 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	290 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	289 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	129 KB
2013			
4th Quarter	3-Party Consent Decree Status Report	PDF	106 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	264 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	264 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	263 KB
2012			

Date	Title	Type	Size
4th Quarter	3-Party Consent Decree Status Report	PDF	203 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	202 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	109 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	202 KB
2011			
4th Quarter	3-Party Consent Decree Status Report	PDF	110 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	202 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	109 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	107 KB
2010			
4th Quarter	3-Party Consent Decree Status Report	PDF	64 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	107 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	121 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	122 KB
2009			
4th Quarter	3-Party Consent Decree Status Report	PDF	65 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	123 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	123 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	69 KB
2008			
4th Quarter	3-Party Consent Decree Status Report	PDF	68 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	186 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	188 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	186 KB
2007			
4th Quarter	3-Party Consent Decree Status Report	PDF	70 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	73 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	72 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	125 KB
2006			
4th Quarter	3-Party Consent Decree Status Report	PDF	125 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	128 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	196 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	335 KB
2005			
4th Quarter	3-Party Consent Decree Status Report	PDF	127 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	125 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	386 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	33 KB

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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 Mbussa Wone at 202-787-4729 or send an email to moussa.wone@dwater.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	

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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.

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 - ▶ Capital Improvement Program
 - ▼ Clean Rivers Project
 - ▶ [ADrop'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
 - ▶ 3rd Street and Constitution Avenue NW Pumping Station Upgrade Project
 - ▶ 17th Street NE/SE Water Main Installation and Replacement
 - ▶ Anacostia Elevated Water Storage Tower Project
 - ▶ Brentwood Reservoir Rehabilitation and

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?

- ▶ [ADrop'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 2015

COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

CLEAN RIVERS PROJECT NEWS



Cardinal Donald Wuerl, GM Hawkins and VIPs celebrate Nannie's christening.

“Nannie”, DC Water’s newest TBM, gets her name, is christened, and blessed by VIPs

DC Water added another hard worker to its ranks in December as the second tunnel boring machine (TBM) arrived and was prepped for duty. Named “Nannie” for Nannie Helen Burroughs, a prominent 20th century African-American educator and civil rights activist, this TBM is mining the second leg of the Anacostia River Tunnel system. Nannie’s leg is approximately two and a half miles long, beginning next to RFK Stadium and ending at the Poplar Point Pumping Station in SE, across the river from Nationals Stadium.

In all, the Anacostia River Tunnel will be 13.1 miles long and will hold combined sewage and stormwater runoff during rain storms, releasing it when the rains subside to be conveyed to, and treated at, the Blue Plains Advanced Wastewater Treatment Plant. The alternative would be a combined sewer overflow, when the

mixture of sewage and stormwater cannot fit in the sewer pipes and overflows to the Anacostia River. This tunnel is the long term solution to reduce combined sewer overflows to the Anacostia River by 98 percent.

It is customary to have a blessing and send-off. Nannie has had two—first she was blessed by Cardinal Donald Wuerl, from the Archdiocese of Washington, in a ceremony with Ken Kopocis of the U.S. EPA Office of Water, DC Water’s then-Board Chairman and City Administrator Allen Y. Lew and General Manager George S. Hawkins, who christened her with a bottle of DC tap water:

In January, DC Water hosted United States Vice President Joe Biden, U.S. EPA Administrator Gina McCarthy, Secretary of Agriculture Tom

New pumping station coming to Poplar Point

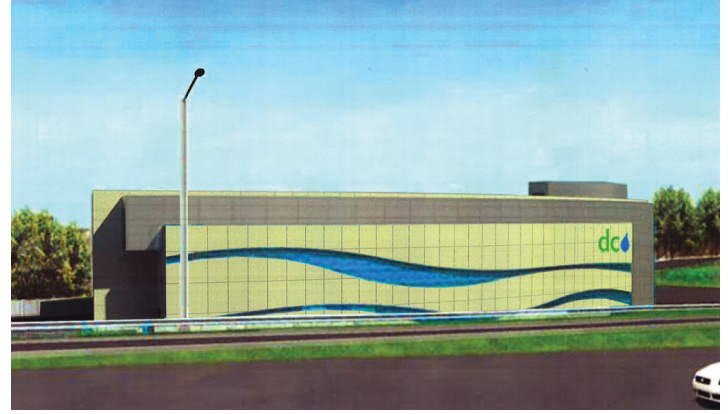
DC Water is beginning another important element of the DC Clean Rivers Project—replacement of the Poplar Point Pumping Station and other supporting structures. The new sewer pumping station replaces one that was built in 1915, which is outdated and has just a 45 million gallon per day capacity. The new station will have the capacity to pump 55 million gallons of sewage per day to help reduce combined sewer overflows (CSOs) to the Anacostia River and reduce nitrogen discharged into the Potomac River.

The project includes green infrastructure (GI), another way to reduce runoff that contributes to combined sewer overflows. A green roof, a gray water recycling system (recycling used water for landscaping and other uses) and a solar power system that will reduce power consumption are elements aimed at sustainability.

The new Poplar Point Pumping Station features a modern architectural design, natural landscaping with an emphasis on indigenous plants and flowers, and retaining walls designed to minimize earth disturbances.

E.E. Cruz, a heavy civil construction contractor, will lead the effort and provide opportunities to hire local residents. The contractor and DC Water co-hosted a job fair to highlight construction positions.

Located in Southeast Washington, development of the entire 110-acre Poplar Point site has long been the subject of discussion



Top: Poplar Point Pumping Station – East Elevation (viewed from I-295)

Bottom: Poplar Point Pumping Station – West Elevation (viewed from South Capitol Street)

among many immediate neighbors, the District Government and other stakeholders. DC Water has communicated widely with the community, soliciting feedback from the residents, and committing to maintain good neighbor policies.

Construction is scheduled to begin in the spring of 2015 and is slated for completion in April 2017.

DC Water and Georgetown University Collaborate on Campus RainWorks Challenge



The U.S. Environmental Protection Agency hosts the “Campus RainWorks Challenge” each year, inviting undergraduate and graduate students to design innovative green infrastructure (GI) for university campuses. This year, DC Water and Georgetown University students, faculty and staff worked together to develop GI concept plans for areas around Lauinger Library on Georgetown University’s campus. The GI designs showcased options to creatively capture stormwater and develop underutilized campus space

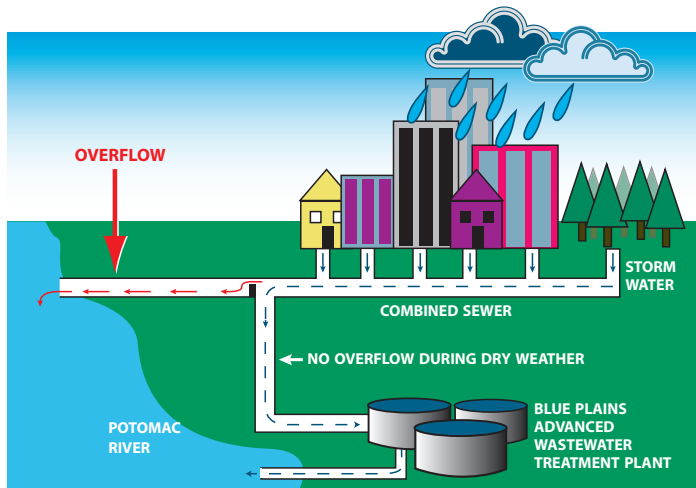
including a bioretention outdoor classroom, a green roof above the library entrance, and permeable pavement in parking areas. In addition to mitigating combined sewer overflows (CSOs), all GI was designed to provide educational opportunities and increased awareness for students and visitors about stormwater, CSOs, and their impacts on the District’s waterways.

Georgetown University is within one of the CSO areas targeted by DC Water for GI implementation under the Long Term Control Plan modification that was released for public comment last year. “Our collaboration with the DC Clean Rivers team is part of a new academic course, ‘Sustainability: Theory and Practice.’ This innovative academic offering explores sustainability issues through a community-based lens, while generating results-oriented solutions that help address critical sustainability challenges,” said Robin Morey, Vice President, Planning & Facilities Management at Georgetown University. For more information on DC Water’s green infrastructure, please visit: dcwater.com/green.

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.



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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. 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.

CLEAN RIVERS PROJECT NEWS

CONTROL ACTIVITIES
COMBINED SEWER OVERFLOW (CSO)

BIANNUAL REPORT APRIL 2015

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



Joint Base Anacostia-Bolling gets new structures while outfall is abandoned and riverbank restored

A key element in the Anacostia River Tunnel at Joint Base Anacostia-Bolling will be wrapped into a scenic overlook along the Potomac River. The overflow structure inside is a necessary component for the 13.1-mile long tunnel system. The overflow structure (see rendering) will be constructed to relieve the tunnel system to the Potomac River during storm events that exceed the tunnel's design capacity or occur when the tunnel is already full.

Additional elements of the contract include a diversion chamber, approach channel and drop shaft that divert flows from the Potomac Outfall Sewers into the new tunnel

system. An odor control and ventilation facility will also be built to treat air expelled from the tunnel system. The existing outfall pipe and structure will be abandoned and the riverbank will be restored to match the surrounding area. In addition, an instrumentation system will be installed for the entire Anacostia River tunnel system south of RFK.

DC Water awarded the Design-Build contract to Corman Construction, Inc. Design is underway with construction expected to

start in May 2015 and be completed by March 2018. This contract is important for bringing the first phase of the tunnel system online in 2018, bringing significant water quality improvements to the Anacostia.



continued from page 1 **Nannie**

Vilsack, Congresswoman Eleanor Holmes Norton and District Mayor Muriel Bowser for a policy announcement with Nannie proudly providing the backdrop. General Manager Hawkins and Clean Rivers Project Director Carlton Ray led the VIP guests on a tour of one of the deep drop shafts and to see Nannie the TBM. After the tour, the guests provided remarks related to the need for infrastructure investment in front of an audience that included national media.

Now that Nannie has met some well-known well-wishers, she is ready to get to work on her tunnel segment.



GM George Hawkins, Secretary of Agriculture Tom Vilsack, and District Mayor Muriel Bowser listen to VP Joe Biden discuss the national need for investment in infrastructure.



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DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BIANNUAL REPORT OCTOBER 2015
**COMBINED SEWER OVERFLOW (CSO)
CONTROL ACTIVITIES**

CLEAN RIVERS PROJECT NEWS



The team poses with Lady Bird's cutterhead

Lady Bird Emerges!

It took just two years for Lady Bird to complete her journey from the Blue Plains Advanced Wastewater Treatment Plant to the DC Water Main Pumping Station. Lady Bird created a four-and-a-half-mile-long tunnel that will be used to help improve the water quality in the Anacostia River and she did it on time and under budget.

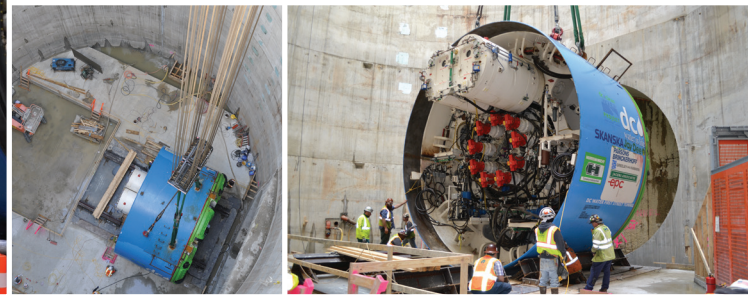
Lady Bird, the first tunnel boring machine (TBM) on the DC Clean Rivers Project, was designed and built in Schwana, Germany specifically for the work she would do on the Blue Plains Tunnel project. After being lowered into a 100 feet deep shaft, she began her dig on July 29, 2013. Her mission was to carve out the first section of the approximately 13 mile tunnel system that is being constructed for the DC Clean Rivers Project.

Under the watchful eye of her team of engineers and expert tradesmen, Lady Bird made her way north along the Potomac River, running parallel to Interstate 295, crossed under the Anacostia River at Poplar Point and ended at the Main Pumping Station near Nationals Stadium. As she traveled, she dug a 23-foot diameter tunnel that

will store and convey a mixture of sewage and stormwater during rainstorms to the Blue Plains Advanced Wastewater Treatment Plant to reduce combined sewer overflows (CSOs) to the Anacostia River.

Over the course of her journey, Lady Bird tunneled through the drop shaft at Joint Base Anacostia-Bolling, where her team made some minor repairs before sending her to the next leg of her trip. She then made her way to the Poplar Point junction shaft, for a bit of R&R and general maintenance. With just about a mile to go from Poplar Point, Lady Bird pushed forward, at one point traveling 150 feet in one day (far exceeding her expected 70-80 ft. average per day) and more than 600 feet in a week.

"This is a terrific milestone for DC Water's Clean Rivers Project," said DC Water CEO and General Manager George S. Hawkins. "We are fortunate that the tunneling went so smoothly, finishing on time and on budget, and I applaud our DC Water staff as well as Traylor Skanska Jay Dee and everyone else who took part in this successful dig." Her work on the DC Clean Rivers Project is now done. She



Lucy at her naming ceremony and being lowered into the shaft at the McMillan Main Mining Site

Lucy in the Ground and Mining

On April 14, 2015, DC Water's third tunnel boring machine (TBM) was formally christened Lucy in honor of local legend Lucy Diggs Slowe. She is tasked with mining a 2,700 foot tunnel as part of DC Water's Clean Rivers Project First Street Tunnel (FST) Project.

The FST Project includes the construction of the main mining shaft at the McMillan Sand Filtration facilities, a small ventilation control structure, four shafts that range from 20 to 65 feet in diameter, four diversion chambers that will be built 30 to 45 feet below the ground surface, three connections ranging from 7 to 16 feet in diameter and from 60 to 375 feet in length, and a pumping station with a capacity to pump six million gallons per day (6 MGD).

Lucy will dig the tunnel 70 to 100 feet below ground, while

construction of the support structures will take place at construction staging areas that have been fenced in to ensure public safety.

For added safety and to ease the burden of construction for the impacted residents, several mitigation efforts have been put in place. These efforts include: the establishment of a 24 hour hotline, a shuttle bus service and three alternative parking areas for those who are impacted. Construction of the FST and its support structures is scheduled to be completed in Spring 2016.

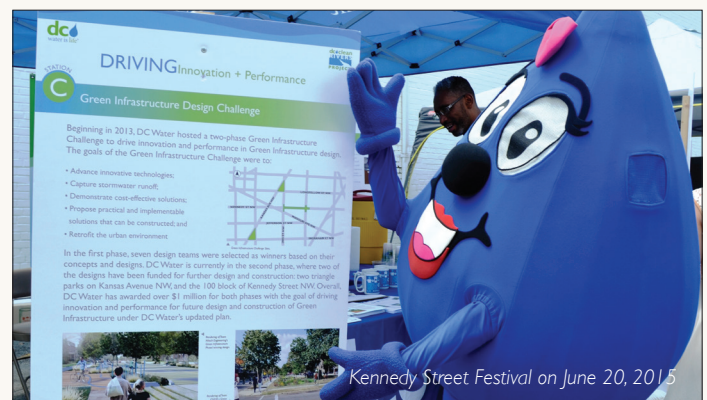
District residents voted on the name for this TBM. Lucy Diggs Slowe was a prominent local African American woman who—among a long list of accomplishments—was the first Dean of Women at Howard University. Lucy the TBM has quite a legacy to live up to.

Green Projects from the GI Challenge Move Forward

DC Water's Green Design Challenge produced innovative ideas to green DC and manage stormwater runoff before it enters the combined sewer system. DC Water is awarding over \$1 million for design and construction to bring the winning designs to fruition.

The **Kennedy Street Green Infrastructure Streetscape Project** is being designed for the 100 block of Kennedy Street, NW. This project includes bioretention planters and curb extensions, permeable parking lanes and public art, among other GI features and will be constructed in coordination with the District Department of the Transportation's (DDOT's) streetscape improvement work anticipated during Spring/Summer 2016.

The **Kansas Avenue Green Infrastructure Parks Project** includes two triangle parks located at Kansas Avenue and 2nd Street, NW and Kansas Avenue and 3rd Street, NW. This project consists of bioretention (or rain gardens), and a permeable paver plaza, among other features that will make these two parks the jewels of their neighborhood!



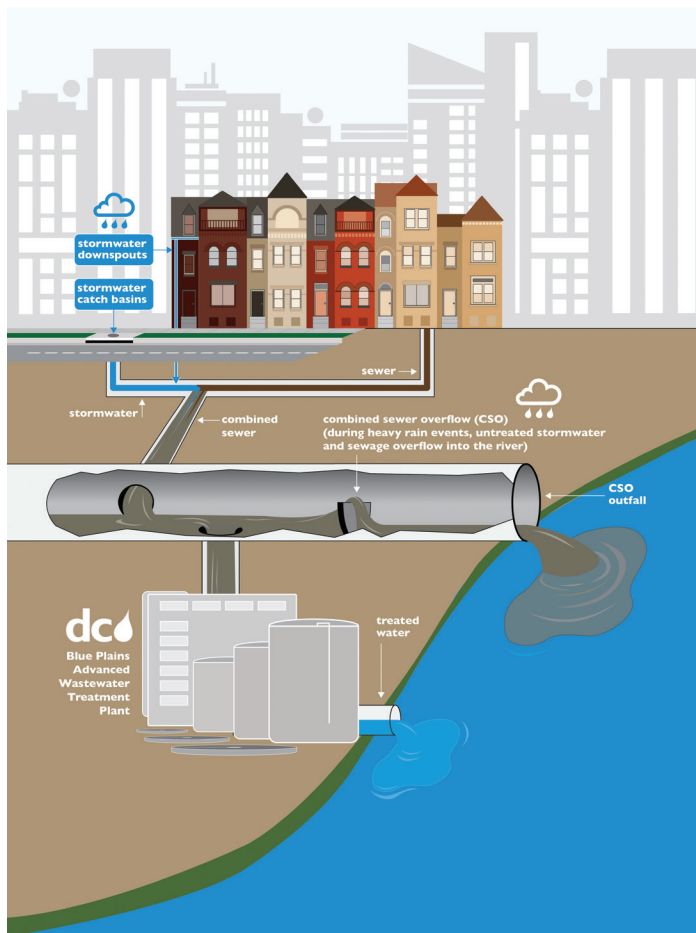
As part of DC Water's commitment to partner with other agencies, stakeholders and community members, DC Water conducted two public meetings, presented during ANC meetings, and participated at community events to share the designs with the community and solicit feedback. There was great engagement from community members.

To learn more about DC Water's Green Challenge visit: dcwater.com/greenchallenge.

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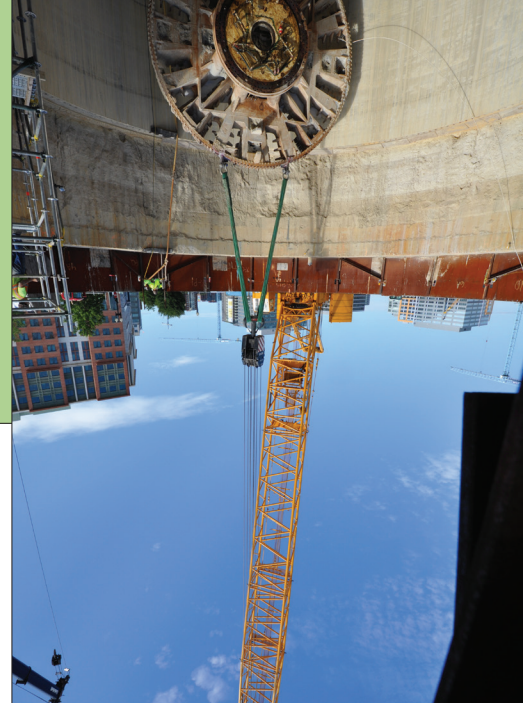
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CLEAN RIVERS PROJECT NEWS

COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

BIANNUAL REPORT OCTOBER 2015
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



Division I on the Move

The Main Pumping Station Diversions Project (Division I) has made significant progress since work began eight months ago. The project remains on schedule for a 2017 completion. The first step was to re-align N Street, SE, and relocate underground utilities. This work is still underway.

The purpose of the project's new underground sewer structures will divert combined sewer overflow into the new tunnel dug by Lady Bird to keep from overflowing into the Anacostia River. This flow will be stored in the Blue Plains Tunnel during rainstorms, to be released and treated at the Blue Plains Wastewater Treatment Plant, providing significant improvement in the quality of the District's waterways. The rendering illustrates the work to be done at Main Pumping Station in Southeast.

Front view of Main Pumping Station



Shaft Structure

8-ft black fence (Future)

Tide Gate Structure

Tide Gate Structure and Shaft Structure



Note: Building on The Yards 'Parcel L' (multi-story building on the left of both illustrations) is shown for illustration purposes only.

continued from page 1 **Lady Bird**

was ceremoniously raised to the surface in July to be de-commissioned. She is owned by the contractor who performed the work, and is capable of going on to bore another tunnel somewhere in the world.

Additional projects are currently under construction to build facilities to divert sewage and stormwater runoff to the tunnel that Lady Bird built, which will come on-line in the spring of 2018.

DC Water's Clean Rivers Project will incorporate two methods to keep combined sewage and stormwater from overflowing into waterways, during heavy rains in the parts of the city with a combined sewer system. The first is to build underground tunnels that will hold combined sewage and stormwater until rain subsides, then convey it for treatment at Blue Plains. The second is to create green infrastructure to capture and infiltrate rain on-site before it can reach the combined sewer system.



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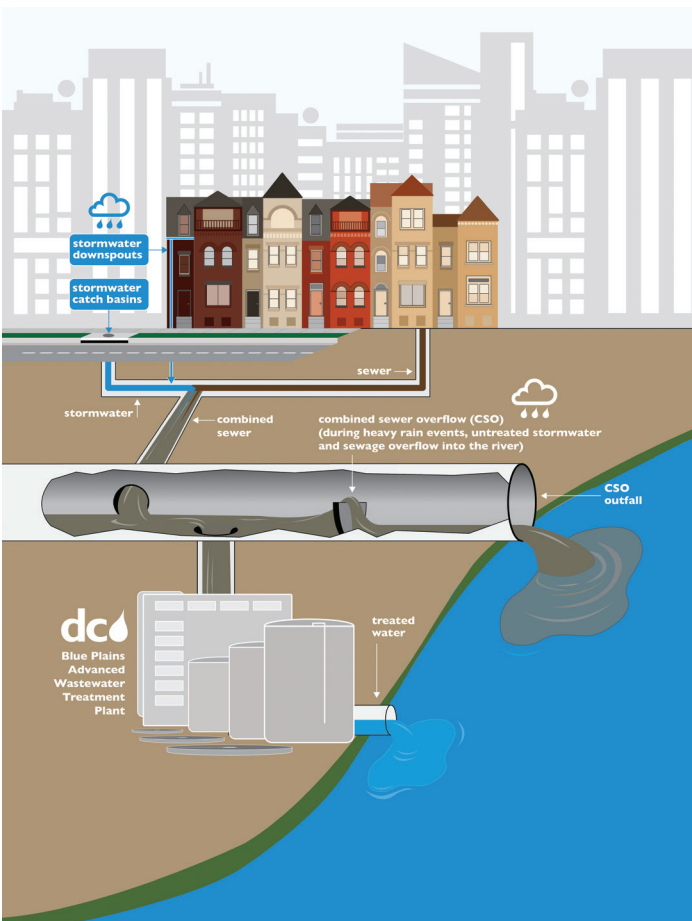
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APPENDIX 9-3

Informational Bulletin

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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 – 2015

Date	Monthly Rain Totals in inches			
	Brentwood Reservoir	Bryant St Pumping Station	Main Pumping Station	Rock Creek Pumping Station
Jan	3.22	3.03	1.14	3.27
Feb	0.49	0.97	0.3	1.03
Mar	0.23	1.98	1.76	1.81
Apr	3.17	2.17	2.44	See Note 1
May	2.90	2.01	1.91	See Note 1
Jun	14.2	10.16	11.25	See Note 1
Jul	2.67	3.09	4.60	1.60
Aug	1.26	1.33	0.8	1.57
Sep	2.42	2.37	2.2	2.43
Oct	4.22	3.52	3.36	3.03
Nov	2.3	2.34	2.44	2.22
Dec	5.2	5.58	4.42	4.76
Total	42.28	38.55	36.62	21.72

Note 1: Rain gage at Rock Creek PS was out of order from April to June 2015.

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 2015 are included in Appendix 10-4.

Based on the model results, the total overflow volume for 2015 is summarized in Table 10-2:

Table 10-2
Predicted CSO Overflow Volume for 2015

	<i>Predicted CSO Overflow Volume in 2015 (mg)</i>				
	<i>Quarter 1</i>	<i>Quarter 2</i>	<i>Quarter 3</i>	<i>Quarter 4</i>	<i>Total</i>
Anacostia River CSOs	74	878	236	257	1,445
Potomac River CSOs	20	373	88	75	556
Rock Creek CSOs	1	47	11	12	71
Total	95	1,298	335	344	2,072

APPENDIX 10-1

SCADA System – Inflatable Dam Monitoring

**Inflatable Dams & SCADA Sites - Wet Weather Operations
January 2015**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	
15	<i>None</i>	
15A	<i>None</i>	
16 (E & W)	<i>None</i>	
24	<i>1/18/2015</i>	<i>1:52min</i>
34	<i>None</i>	
35	<i>1/18/2015</i>	<i>5:38min</i>
52	<i>None</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>	Operational	Open
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	None	This structure has been bulk headed. Overflows are no longer possible.

**Inflatable Dams & SCADA Sites - Wet Weather Operations
February 2015**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	
15	<i>None</i>	
15A	<i>None</i>	
16 (E & W)	<i>None</i>	
24	<i>Out of service</i>	<i>Out of Service from 2/9/2015 until 4/20/2015</i>
34	<i>None</i>	
35	<i>None</i>	
52	<i>None</i>	
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1		This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A		This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2		None
<i>Outfall Sewer Control Gates</i>	Operational	Open
Outfall Sewer Control Gate No. 1		Open
Outfall Sewer Control Gate No.2		This structure has been bulk headed. Overflows are no longer possible.

**Inflatable Dams & SCADA Sites - Wet Weather Operations
March 2015**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	
15	<i>None</i>	
15A	<i>None</i>	
16 (E & W)	<i>None</i>	
24	<i>Out of service</i>	<i>Out of Service from 2/9/2015 until 4/20/2015</i>
34	<i>None</i>	
35	<i>None</i>	
52	<i>None</i>	
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1		This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A		This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2		None
<i>Outfall Sewer Control Gates</i>	Operational	Open
Outfall Sewer Control Gate No. 1		Open
Outfall Sewer Control Gate No.2		This structure has been bulk headed. Overflows are no longer possible.

**Inflatable Dams & SCADA Sites - Wet Weather Operations
April 2015**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	<i>None</i>	
15	<i>None</i>	
15A	<i>None</i>	
16 (E & W)	<i>None</i>	
24	<i>None</i>	
34	<i>None</i>	
35	<i>4/20/15</i>	<i>6min</i>
52	<i>None</i>	
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	<i>None</i>	<i>This structure has been bulk headed. Overflows are no longer possible.</i>
Outfall Structure 1A	<i>None</i>	<i>This structure has been bulk headed. Overflows are no longer possible.</i>
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	<i>Operational</i>	<i>Open</i>
Outfall Sewer Control Gate No.2	<i>Operational</i>	<i>Open</i>

**Inflatable Dams & SCADA Sites - Wet Weather Operations
May 2015**

<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>5/1 5/16</i>	<i>9 mins 1hr, 43 min</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	<i>None</i>	<i>This structure has been bulk headed. Overflows are no longer possible.</i>
Outfall Structure 1A	<i>None</i>	<i>This structure has been bulk headed. Overflows are no longer possible.</i>
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	<i>Operational</i>	<i>Open</i>
Outfall Sewer Control Gate No.2	<i>Operational</i>	<i>Open</i>

**Inflatable Dams & SCADA Sites - Wet Weather Operations
June 2015**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	None	N/A
15	6/27	19 mins
15A	6/8 6/14 6/20 6/27	60 mins 60 mins 41 mins 2 hrs, 35 mins
16 (E & W)	None	N/A
24	6/8 6/14 6/20 6/23 6/25 6/27	5 mins 14 mins 23 mins 14 mins 2 mins 16 mins
34	6/8 6/14	22 mins 3 mins
35	6/14 6/18 6/20 6/23 6/27	17 mins 3 mins 4 mins 50 mins 31 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.

**Inflatable Dams & SCADA Sites - Wet Weather Operations
July 2015**

<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>7/30/15</i>	<i>1 hr</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>7/02/15</i> <i>7/30/15</i>	<i>6 mins</i> <i>9 mins</i>
34	<i>None</i>	<i>N/A</i>
35	<i>7/27/15</i>	<i>3 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
August 2015**

<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	8/24/2015	4 mins
34	<i>None</i>	<i>N/A</i>
35	8/24/2015 8/25/2015	14 mins 2 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>
Outfall Sewer Control Gate No. 1	Operational	Open

**Inflatable Dams & SCADA Sites - Wet Weather Operations
September 2015**

<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>9/29/15</i>	<i>53 mins</i>
15A	<i>9/29/15</i>	<i>1 hr</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>9/29/15</i>	<i>24 mins</i>
34	<i>9/29/15</i>	<i>51 mins</i>
35	<i>9/29/15</i>	<i>40 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
October 2015**

<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>10/01/15</i>	<i>4 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
14 (E & W)	<i>None</i>	<i>N/A</i>

**Inflatable Dams & SCADA Sites - Wet Weather Operations
November 2015**

<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
14 (E & W)	<i>None</i>	<i>N/A</i>

**Inflatable Dams & SCADA Sites - Wet Weather Operations
December 2015**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow (hrs)</i>
14 (E & W)	12/23/2015	1 hr 29 mins
15	12/23/2015	2 hrs 38 mins
15A	12/23/2015	2 hrs 56 mins
16 (E & W)	None	N/A
24	12/23/2015 12/29/2015	3 mins 1 min
34	12/23/2015	39 mins
35	12/23/2015	58 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
14 (E & W)	12/23/2015	1 hr 29 mins

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: Gregory Stephens

Date Inspected: 1/21/2015

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)	GS	1/21	X			
Bar Racks at Main Storm Pumps (CSO 011)	GS	1/21	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: Gregory Stephens

Date Inspected: 2/10/2015

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)	GS	2/10	X			
Bar Racks at Main Storm Pumps (CSO 011)	GS	2/10	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: Gregory Stephens

Date Inspected: 3/14/15

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)	GS	3/14	X			
Bar Racks at Main Storm Pumps (CSO 011)	GS	3/14	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: Gregory Stephens

Date Inspected: 4/28/15

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)	GS	4/28	X			
Bar Racks at Main Storm Pumps (CSO 011)	GS	4/28	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: 5/30/15

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)	WER	5/30	X			
Bar Racks at Main Storm Pumps (CSO 011)	WER	5/30	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: 6/25/15

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)	WER	6/25	X			
Bar Racks at Main Storm Pumps (CSO 011)	WER	6/25	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: 7/29/15

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)	KW	7/29	X			
Bar Racks at Main Storm Pumps (CSO 011)	KW	7/29	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: 8/5/15

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	8/5	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	8/5	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: 9/23/15

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	9/23	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	9/23	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: 10/1/15

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	10/01	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	10/01	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: 11/1/15

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)	CP	11/1	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	11/1	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: 12/1/15

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	12/23	X			
Bar Racks at Main Storm Pumps (CSO 011)	WR	12/1	X			

Appendix 10-3

Northeast Boundary Swirl Facility Monitoring Data

Northeast Boundary Swirl Facility – Wet Weather Operations-January 2015

<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>
1/3/2015	5	5.8	5.8	0.0	40.0
1/12/2015	12	10.0	10.0	0.0	74.0
1/18/2015	7.25	17.1	3.6	13.5	89.0
1/23/2015	10.5	37.2	37.2	0.0	97.8

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 ft³**

Northeast Boundary Swirl Facility – Wet Weather Operations-February 2015

<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>
None	None	None	None	None	None
None	None	None	None	None	None
None	None	None	None	None	None

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.**
- 3. On 2/9/2015, Structure 24 inflatable dams were deflated. Since the Structure 24 inflatable dams divert combined sewer overflow to the Northeast Boundary Swirl Facility Swirl during wet weather events, deflation of the dams will not allow diversion of large wet weather flows to the facility (See Letter to EPA dated 2/6/2015).**

Northeast Boundary Swirl Facility – Wet Weather Operations-March 2015

<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>
None	None	None	None	None	None
None	None	None	None	None	None
None	None	None	None	None	None

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.**
3. **On 2/9/2015, Structure 24 inflatable dams were deflated. Since the Structure 24 inflatable dams divert combined sewer overflow to the Northeast Boundary Swirl Facility Swirl during wet weather events, deflation of the dams will not allow diversion of large wet weather flows to the facility (See Letter to EPA dated 2/6/2015).**

Northeast Boundary Swirl Facility – Wet Weather Operations-April 2015

<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>
4/20/2015	5	22.55	7.07	15.48	120

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 2015

<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>
5/16/2015	3	0.55	0.55	0.0	108
5/18/2015	7.5	3.07	3.82	0.0	132

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 2015

<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>
6/1/2015	7	3.3	3.3	0.0	48
6/2/2015	7.5	0.0	0.0	0.0	24
6/4/2015	4.5	10.8	3.7	7.1	24
6/8/2015	5.5	16.8	2.9	13.9	0
6/9/2015	4	2.5	2.5	0.0	0
6/14/2015	4.5	10.9	4.3	6.6	0
6/18/2015	3.5	9.4	4.7	4.8	0
6/20/2015	9	32.0	1.9	30.1	40
6/21/2015	11.5	4.4	3.2	1.2	0
6/23/2015	5	17.0	4.0	13.0	80
6/25/2015	3.5	10.2	3.1	7.1	0
6/27/2015	6	11.8	4.6	7.1	36
6/27/2015	6	29.8	3.3	26.5	24
6/27/2015	4	25.1	4.6	20.5	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 2015

<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>
7/01/2015	5	15.5	3.5	12.0	120.0
7/02/2015	3.5	5.5	5.5	0.0	48.0
7/04/2015	3	16.2	16.2	0.0	72.0
7/08/2015	3.5	8.5	8.5	0.0	24.0
7/27/2015	3	7.6	7.6	0.0	72.0
7/30/2015	3	9.4	2.4	7.0	152.0

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 2015

<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>
8/10/2015	2.5	7.9	7.9	0.0	72.0
8/24/2015	3.5	8.0	8.0	0.0	72.0
8/25/2015	2	2.5	2.5	0.0	36.0

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 2015

<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>
9/29/15	5	23.6	3.2	20.5	36
9/30/15	6	2.0	2.0	0	32

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 2015

<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>
10/01/15	5.5	13.8	13.8	0	88
10/02/15	9.5	16.9	15.7	1.2	112
10/09/15	3	6.5	6.5	0	32
10/29/15	4.5	6.5	6.5	0	64

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-November 2015

<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>
11/10/15	9.5	15.3	6.6	8.7	64
11/19/15	7.5	14.4	5.6	8.8	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 2015

<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>
12/01/15	6.5	15.36	7.15	8.21	76
12/17/15	2.5	1.28	1.28	0	44
12/23/15	5.5	22.42	11.30	11.12	196
12/24/15	4.5	5.28	4.36	0.92	50*
12/25/15	4	7.41	7.41	0	60*
12/27/15	2	1.25	1.25	0	44*
12/29/15	10	22.77	5.60	17.17	196*

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 a malfunction of the ESIRS meter.
3. * - Screenings totals were estimated for these events based on influent flow and storm duration.

Appendix 10-4

CSO Overflow Predictions

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: January, February, March 2015
SCENARIO: Y2015_Q1, revised April 21, 2015

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)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	14	2.28	79.75	5.70	12.75	0.75
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	1	0.14	1.75	1.75	1.75	1.75
009	2nd Street, 300 feet North of N Place, SE	7	0.54	16.00	2.29	3.75	1.00
010	O Street Sewage Pumping Station, SE (pumped Overflow)	10	11.28	3.00	0.30	0.50	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)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	11	0.51	17.75	1.61	3.25	0.25
014	6th and M Streets, SE	2	0.65	5.75	2.88	4.00	1.75
015	9th and M Streets, SE	1	0.01	1.75	1.75	1.75	1.75
016	12th and M Streets, SE	1	0.21	2.25	2.25	2.25	2.25
017	14th and M Streets, SE	11	2.61	31.75	2.89	6.75	0.25
018	Barney Circle and Pennsylvania Ave, SE	2	0.84	5.50	2.75	3.75	1.75
019	Northeast Boundary - Swirl Effluent	6	54.20	21.25	3.54	7.25	1.50
019	Northeast Bound. - Swirl Bypass	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		74.10				
Potomac CSOs							
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	0.39	2.50	2.50	2.50	2.50
021	Northeast of Roosevelt Bridge, NW	2	13.23	5.00	2.50	3.50	1.50
022	27th and K Streets, NW	2	0.10	6.25	3.13	3.50	2.75
024	30th and K Streets, NW	1	0.91	3.25	3.25	3.25	3.25
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	14	5.06	111.75	7.98	18.75	1.75
028	36th and M Streets, NW	8	0.31	13.00	1.63	5.00	0.50
029	Canal Road 1000 feet east of Rock Creek, NW	1	0.003	0.25	0.25	0.25	0.25
	SUBTOTAL		20.00				
Rock Creek							
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	1	0.01	2.25	2.25	2.25	2.25
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: January, February, March 2015

SCENARIO: Y2015_Q1, revised April 21, 2015

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	0	0.00	0.00	0.00	0.00	0.00
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	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	0.00	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 LamontStreet, NW	2	1.02	5.25	2.63	3.50	1.75
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 Creek300 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 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		1.03				
	TOTAL		95.13				

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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 2015

SCENARIO: Y2015_Q2, produced July 13, 2015

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)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	18	9.55	59.25	3.29	13.50	0.75
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	13	17.35	31.00	2.38	8.50	0.50
009	2nd Street, 300 feet North of N Place, SE	13	6.98	28.00	2.15	6.75	0.25
010	O Street Sewage Pumping Station, SE (pumped Overflow)	13	95.83	21.00	1.62	6.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	3	2.50	0.75	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)	6	47.44	13.00	2.17	3.25	1.00
013	4th and N Streets, SE	14	6.51	34.25	2.45	10.00	0.25
014	6th and M Streets, SE	13	17.96	42.00	3.23	11.25	0.75
015	9th and M Streets, SE	14	4.90	19.25	1.38	4.75	0.25
016	12th and M Streets, SE	12	13.60	24.50	2.04	6.25	0.50
017	14th and M Streets, SE	16	26.86	61.00	3.81	14.75	0.25
018	Barney Circle and Pennsylvania Ave, SE	15	19.45	41.50	2.77	9.75	0.25
019	Northeast Boundary - Swirl Effluent	9	331.05	96.75	10.75	21.50	0.25
019	Northeast Bound. - Swirl Bypass	13	277.51	23.00	1.77	8.00	0.25
	SUBTOTAL		877.50				
Potomac CSOs							
003	Bolling AFB	3	4.30	10.75	3.58	5.25	2.50
020	23rd Street, North of Constitution Ave, NW (Easby Point)	12	40.35	28.00	2.33	6.25	0.25
021	Northeast of Roosevelt Bridge, NW	13	228.41	32.50	2.50	7.25	0.25
022	27th and K Streets, NW	17	35.56	44.00	2.59	8.00	0.25
024	30th and K Streets, NW	14	28.02	50.00	3.57	12.00	0.25
025	31st & K St NW	11	1.03	9.00	0.82	2.00	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	20	22.21	87.25	4.36	19.00	0.25
028	36th and M Streets, NW	18	3.52	32.00	1.78	8.00	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	10	9.58	14.75	1.48	3.50	0.25
	SUBTOTAL		372.99				
Rock Creek							
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	1	0.03	0.75	0.75	0.75	0.75
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	13	0.895	23.00	1.77	4.50	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	1	0.01	0.25	0.25	0.25	0.25
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 2015

SCENARIO: Y2015_Q2, produced July 13, 2015

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	1	0.01	0.25	0.25	0.25	0.25	
043	Adams Mill Road South of Irving Street, NW	8	1.73	3.50	0.44	0.75	0.25	
044	Kenyon Street and Adams Mill Road, NW	3	0.00	0.75	0.25	0.25	0.25	
045	Adams Mill Road and Lamont Street, NW	9	0.22	4.00	0.44	1.00	0.25	
046	Park Road south of Piney Branch Parkway, NW	7	0.05	2.25	0.32	0.50	0.25	
047	Ingleside Terrace extended and Piney Branch Parkway	5	0.01	1.25	0.25	0.25	0.25	
048	Mt. Pleasant Street extended and Piney Branch Parkway	8	0.42	3.00	0.38	0.75	0.25	
049	Piney Branch and LamontStreet, NW	13	43.883	32.50	2.50	7.00	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 Creek300 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 th St, NW	0	0.00	0.00	0.00	0.00	0.00	
	SUBTOTAL		47.25					
	TOTAL		1,297.73					

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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 2015

SCENARIO: Y2015_Q3, produced October 13, 2015

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)	
Anacostia CSOs								
005	Chicago St and Railroad Station SE	13	4.15	23.25	1.79	6.00	0.25	
006	Good Hope Road, West of Nichols Ave., SE	separated						
007	13 th Street and Ridge Place, SE	8	4.87	10.00	1.25	5.25	0.25	
009	2nd Street, 300 feet North of N Place, SE	7	2.56	9.25	1.32	3.50	0.25	
010	O Street Sewage Pumping Station, SE (pumped overflow)	6	25.73	5.50	0.92	3.00	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)	1	12.50	2.50	2.50	2.50	2.50	
013	4th and N Streets, SE	7	2.00	10.25	1.46	4.50	0.25	
014	6th and M Streets, SE	7	6.05	12.00	1.71	5.00	0.25	
015	9th and M Streets, SE	7	1.97	6.75	0.96	3.25	0.25	
016	12th and M Streets, SE	6	5.31	8.00	1.33	3.50	0.25	
017	14th and M Streets, SE	9	8.72	21.00	2.33	6.25	1.00	
018	Barney Circle and Pennsylvania Ave, SE	9	5.80	12.00	1.33	4.75	0.25	
019	Northeast Boundary - Swirl Effluent	10	100.79	32.75	3.28	6.75	0.75	
019	Northeast Bound. - Swirl Bypass	3	55.34	3.50	1.17	2.50	0.25	
	SUBTOTAL		235.79					
Potomac CSOs								
003	Bolling AFB	1	0.11	1.50	1.50	1.50	1.50	
020	23rd Street, North of Constitution Ave, NW (Easby Point)	5	8.03	7.75	1.55	4.50	0.75	
021	Northeast of Roosevelt Bridge, NW	6	55.69	8.50	1.42	4.50	0.25	
022	27th and K Streets, NW	9	9.41	12.25	1.36	5.00	0.25	
024	30th and K Streets, NW	7	4.56	10.00	1.43	5.75	0.25	
025	31st & K St NW	4	0.20	2.75	0.69	1.25	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	11	6.28	27.50	2.50	6.50	0.25	
028	36th and M Streets, NW	9	1.06	10.00	1.11	4.75	0.25	
029	Canal Road 1000 feet east of Rock Creek, NW	4	2.36	5.00	1.25	2.75	0.50	
	SUBTOTAL		87.71					
Rock Creek								
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	0.245	7.75	1.11	3.50	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	

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: July, August, September 2015

SCENARIO: Y2015_Q3, produced October 13, 2015

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	2	0.24	0.75	0.38	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	0.04	0.75	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	1	0.01	0.25	0.25	0.25	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	1	0.002	0.25	0.25	0.25	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	2	0.07	0.50	0.25	0.25	0.25
049	Piney Branch and Lamont Street, NW	7	10.699	10.50	1.50	4.50	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 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		11.30				
	TOTAL		334.80				

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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: October, November, December 2015
SCENARIO: Y2015_Q4, produced January 12, 2015

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)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	16	3.40	51.25	3.20	9.25	0.25
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	9	2.97	7.75	0.86	2.50	0.25
009	2nd Street, 300 feet North of N Place, SE	9	1.50	16.25	1.81	3.75	0.25
010	O Street Sewage Pumping Station, SE (pumped overflow)	11	23.68	6.25	0.57	3.25	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)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	1	10.70	1.75	1.75	1.75	1.75
013	4th and N Streets, SE	11	1.08	15.50	1.41	6.25	0.25
014	6th and M Streets, SE	9	3.18	15.00	1.67	4.25	0.25
015	9th and M Streets, SE	8	0.89	5.75	0.72	1.75	0.25
016	12th and M Streets, SE	7	2.20	6.00	0.86	2.25	0.50
017	14th and M Streets, SE	11	7.72	38.00	3.45	7.25	0.75
018	Barney Circle and Pennsylvania Ave, SE	9	4.42	16.25	1.81	4.00	0.75
019	Northeast Boundary - Swirl Effluent	10	128.66	79.25	7.93	32.00	1.50
019	Northeast Bound. - Swirl Bypass	2	64.57	1.75	0.88	1.50	0.25
	SUBTOTAL		256.66				
Potomac CSOs							
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	7.03	5.25	1.05	3.00	0.25
021	Northeast of Roosevelt Bridge, NW	9	43.45	10.00	1.11	2.75	0.50
022	27th and K Streets, NW	9	9.32	15.75	1.75	3.50	0.50
024	30th and K Streets, NW	8	3.91	8.50	1.06	4.75	0.25
025	31st & K St NW	4	0.15	1.75	0.44	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	14	8.24	87.75	6.27	25.25	0.50
028	36th and M Streets, NW	12	1.02	18.50	1.54	2.75	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	3	1.63	2.75	0.92	1.75	0.25
	SUBTOTAL		74.75				
Rock Creek							
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	0.128	5.50	0.79	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

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: October, November, December 2015
SCENARIO: Y2015_Q4, produced January 12, 2015

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	1	0.31	0.75	0.75	0.75	0.75	
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	2	0.04	0.75	0.38	0.50	0.25	
046	Park Road south of Piney Branch Parkway, NW	1	0.004	0.25	0.25	0.25	0.25	
047	Ingleside Terrace extended and Piney Branch Parkway	1	0.005	0.50	0.50	0.50	0.50	
048	Mt. Pleasant Street extended and Piney Branch Parkway	2	0.07	0.75	0.38	0.50	0.25	
049	Piney Branch and Lamont Street, NW	9	11.395	12.75	1.42	2.50	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 th St, NW	0	0.00	0.00	0.00	0.00	0.00	
	SUBTOTAL		11.96					
	TOTAL		343.36					

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

Year 2015
Nine Minimum Controls Annual Report
For
Combined Sewer System



DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY

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