

CS 167-06 Morgantown Generating Plant  
~~Bldg Permit~~ site plan (Peppo)

MSA. S. 1829- 5743

Robert L. Ehrlich, Jr.  
*Governor*

Michael S. Steele  
*Lt. Governor*



Martin G. Madden  
*Chairman*

Ren Serey  
*Executive Director*

**STATE OF MARYLAND  
CRITICAL AREA COMMISSION  
CHESAPEAKE AND ATLANTIC COASTAL BAYS**

1804 West Street, Suite 100, Annapolis, Maryland 21401  
(410) 260-3460 Fax: (410) 974-5338  
[www.dnr.state.md.us/criticalarea/](http://www.dnr.state.md.us/criticalarea/)

March 10, 2006

Ms. Aimee Dailey  
Charles County Department of Planning  
And Growth Management  
P O Box 2150  
La Plata, Maryland 20646

Re: Morgantown Generating Station  
Plant Area Improvements

Dear Ms. Dailey:

Thank you for providing information on the above referenced site plan. The applicant is requesting approval of a building permit to construct multiple improvements to the existing Morgantown Generating Station plant. The property lies within a designated Intensely Developed Area (IDA) and is currently developed.

Based on the site plan provided, my understanding is that the current project proposes to place approximately 19,720 square feet of new impervious surface area within the Critical Area. In addition, there will be approximately 35,968 square feet of impervious surface area placed within an area currently impervious in nature. As the proposed disturbance occurs within the IDA, the applicant is required to provide compliance with the 10% pollutant reduction requirements. In order to meet this requirement, the applicant is proposing to construct a grassed swale and an extended detention facility. Based on an analysis of the calculations provided, we concur that the 10% pollutant reduction requirement has been met. Therefore, we do not oppose the granting of a building permit for the proposed improvements.

Thank you for the opportunity to provide comments on this site plan. If you have any questions, please contact me at 410-260-3482.

Sincerely,

A handwritten signature in cursive script that reads "Kerrie Gallo".

Kerrie L. Gallo  
Natural Resource Planner

# STORMWATER MANAGEMENT AND CRITICAL AREA REQUIREMENTS NARRATIVE

## Scope of Project

This project involves work for the installation of mandated air quality improvement equipment at the Morgantown Generation Plant. The project will be constructed within the Critical Area. However, the work lies within the 1000 foot critical area limits of the Potomac River but outside the 100 foot buffer area within an IDA zoned portion of the critical area. The actual construction will be from April 1, 2006 through the summer of 2008.

The work to be performed under MIC 06-0011 permit application is only for construction of the deep foundation (piles) and structural steel for the Unit 1 SCR. This Storm water and Critical Area impacts application covers the entire project scope. . That scope includes both Unit 1 and 2 SCR, auxiliary power systems and a common urea system.

The new additional impervious area will be 0.4527 acres, approximately 19,720 square feet and the replacement or redevelopment impervious area will be 0.8257 acres, or 35,968 square feet.

*If have agreed to this previously on earlier projects*

Quality treatment for storm water ordinance compliance will be a net decrease in the site's total impervious area. This is due to the fact that the urea handling system and the new (additional) station service transformers will be constructed within individual containment structures. [The structures will convert a volume of storm water discharge from runoff to a "batch" controlled discharge under plant operational processes.] The Operational processes will include plant operator interface to determine acceptability for discharge as storm water or as process water under a NPDES Permit treatment.

The upgrades are made upon an existing system of storm water best management practices implemented under the former owner (PEPCO) of Morgantown Generating Station Pollutant Load Reduction System, a copy of which is in the appendix.

For purposes of this report, all of the impervious area, both new and replacement area of existing impervious area under redevelopment is considered as new for quality treatment. Similarly new additions, even within containment areas, are treated for quality purposes. This is done to eliminate variations between standards in effect at the time of the original design and as a conservative measure for effective treatment.

There are sections of the affected drainage areas that do not contribute to the general storm water system. These are referred to as containment areas. These containment structures are BMPs for their respective industrial processes and storm water is not allowed to run off with the general storm drainage. These process waters are held and subsequently handled by separate treatment. These sections are identified and permitted Permit (MD 0 00-2674) up

dated August 2005. A copy is attached in the appendix.

## **Storm water Management**

The four components of storm water management are to be addressed as follows:

**Recharge Volume (Rev):** While not normally required in the critical area, this is supplied by the Grass Channel using a percent area method for all of the redevelopment and new impervious area.

**Quality Treatment (WQv):** The areas are totally met for the Urea Handling Area by credits under the Grass Channel Credit in Section 5.5 of the Maryland Storm Water Management Manual. New and replacement impervious areas for transformers and other work immediately adjacent to the plant building are provided by underground extended detention within bottomless manholes.

**Channel Protection Volume (CPv).** This is not required as the entire drainage areas drain directly to the Potomac without passing through any offsite watercourses.

**Overbank Flood Protection (Qp):** Not required as project drains directly to Potomac.

WQv is provided by the Grass Channel Credit and the criteria are met as follows:

Maximum flow velocity has been reduced to less than 1.0 fps for the 1 inch rainfall. Maximum flow is non-erosive. Bottom width has been set at 6 feet and side slopes are at 3:1. Channel slopes are approximately 1% and rooftop disconnection is not in use.

This BMP is proposed because it is simple, non-structural in nature and requires no easement and minimal maintenance and feeds into existing grass channels employed on the premises.

### **Extended Detention:**

We have proposed an underground Extended Detention structure to provide water quality within the heavily impervious area near the plant. These are proposed primarily as the only BMP available since infiltration is not viable within what are essentially fill soils and above ground methods are unavailable due to space requirements. The proposed structure is a bottomless manhole or chamber with storage capacity for the water quality volume generated by all replacement impervious area and the new impervious area. Three chambers are proposed and shown on the drainage lines that service the respective impervious area. The bottomless feature will allow the water to slowly percolate into the fill soils, which are typically fine sand. A one inch orifice protected by surge stone will provide the detention time for water above the invert of the outfall pipe in each structure.

## Critical Area Requirements

The primary additional requirement of the critical area is compliance with the 10% Rule. For purposes of this permit, we have analyzed the drainage areas of the overall site that have been impacted by the improvements. This consists of 21.81 acres, with 6.25 associated with the Urea Handling area and the remaining 15.56 acres around the plant. The full overall site has been reviewed on several occasions and there are numerous BMPs in place. Four drainage areas are involved in this project and they are combined for analysis. Only new BMPs are counted for this project and they consist of three extended detention facilities and a grass swale.

Computations using only the new BMPs show that the required 10% Reduction is met from the existing conditions. For purposes of the Extended Detention facility a 50% removal rate was used. The proposed structures will function somewhere between a micro pool and an infiltration basin so a 50% removal rate appears reasonable. Between the two BMPs 19.62 pounds are removed with a requirement of only 4.55 pounds.

# Worksheet A: Standard Application Process

## Calculating Pollutant Removal Requirements<sup>1</sup>

**Step 1: Calculate Existing and Proposed Site Imperviousness**

**A. Calculate Percent Imperviousness**

- 1) Site Area within the Critical Area IDA, A = 21.8135 acres
- 2) Site Impervious Surface Area, Existing and Proposed, (See Table 4.1 for details)

	(a) Existing (acres)	(b) Proposed (acres)
Roads	<u>1.5592</u>	<u>1.5592</u>
Parking lots	<u>1.3315</u>	<u>1.3315</u>
Driveways	<u>6.6325</u>	<u>6.6325</u>
Sidewalks/paths	<u>        </u>	<u>        </u>
Rooftops	<u>5.3071</u>	<u>5.7598</u>
Decks	<u>        </u>	<u>        </u>
Swimming pools/ponds	<u>        </u>	<u>        </u>
Other	<u>0.0489</u>	<u>0.0489</u>
<b>Impervious Surface Area</b>	<u><b>14.8792</b></u>	<u><b>15.3319</b></u>

3) Imperviousness (I)

Existing Imperviousness,  $I_{pre}$  = Impervious Surface Area / Site Area  
 = (Step 2a) / (Step 1)  
 =  $(\frac{14.8792}{21.8135}) / (\frac{14.8792}{21.8135})$   
 = 68.21 %

Proposed Imperviousness,  $I_{post}$  = Impervious Surface Area / Site Area  
 = (Step 2b) / (Step 1)  
 =  $(\frac{15.3319}{21.8135}) / (\frac{15.3319}{21.8135})$   
 = 70.29 %

**B. Define Development Category (circle)**

- 1) New Development: Existing imperviousness less than 15% I (Go to Step 2A)
- 2) Redevelopment: Existing imperviousness of 15% I or more (Go to Step 2B)
- 3) Single Lot Residential Development: Single lot being developed or improved; single family residential development; and more than 250 square feet of impervious area and associated disturbance (Go to Section 5, Residential Approach, for detailed criteria and requirements).

<sup>1</sup> NOTE: All acreage used in this worksheet refers to areas within the IDA of the Critical Area only.

**Step 2: Calculate the Predevelopment Load ( $L_{pre}$ )**

**A. New Development**

$$\begin{aligned}
 L_{pre} &= (0.5) (A) \\
 &= (0.5) ( \quad ) \\
 &= \quad \text{lbs /year of total phosphorus}
 \end{aligned}$$

Where:

- $L_{pre}$  = Average annual load of total phosphorus exported from the site prior to development (lbs/year)
- 0.5 = Annual total phosphorus load from undeveloped lands (lbs/acre/year)
- A = Area of the site within the Critical Area IDA (acres)

**B. Redevelopment**

$$\begin{aligned}
 L_{pre} &= (R_v) (C) (A) (8.16) \\
 R_v &= 0.05 + 0.009 (I_{pre}) \\
 &= 0.05 + 0.009 ( \underline{68.21} ) = \underline{0.6639} \\
 L_{pre} &= ( \underline{0.6639} ) ( \underline{0.30} ) ( \underline{21.8135} ) (8.16) \\
 &= \underline{35.45} \text{ lbs/year of total phosphorus}
 \end{aligned}$$

Where:

- $L_{pre}$  = Average annual load of total phosphorus exported from the site prior to development (lbs/year)
- $R_v$  = Runoff coefficient, which expresses the fraction of rainfall which is converted into runoff
- $I_{pre}$  = Pre-development (existing) site imperviousness (i.e.,  $I = 75$  if site is 75% impervious)
- C = Flow-weighted mean concentration of the pollutant (total phosphorus) in urban runoff (mg/l) = 0.30 mg/l
- A = Area of the site within the Critical Area IDA (acres)
- 8.16 = Includes regional constants and unit conversion factors

**Step 3: Calculate the Post-Development Load ( $L_{post}$ )**

**A. New Development and Redevelopment:**

$$L_{post} = (R_v)(C)(A)(8.16)$$

$$R_v = 0.05 + 0.009(I_{post})$$

$$= 0.05 + 0.009(70.29) = 0.6826$$

$$L_{post} = (0.6826)(0.30)(21.8135)(8.16)$$

$$= 36.45 \text{ lbs/year of total phosphorus}$$

Where:

- $L_{post}$  = Average annual load of total phosphorus exported from the post-development site (lbs/year)
- $R_v$  = Runoff coefficient, which expresses the fraction of rainfall which is converted into runoff
- $I_{post}$  = Post-development (proposed) site imperviousness (i.e.,  $I = 75$  if site is 75% impervious)
- $C$  = Flow-weighted mean concentration of the pollutant (total phosphorus) in urban runoff (mg/l) = 0.30 mg/l
- $A$  = Area of the site within the Critical Area IDA (acres)
- 8.16 = Includes regional constants and unit conversion factors

**Step 4: Calculate the Pollutant Removal Requirement (RR)**

$$RR = L_{post} - (0.9)(L_{pre})$$

$$= (36.45) - (0.9)(35.45)$$

$$= 4.545 \text{ lbs/year of total phosphorus}$$

Where:

- $RR$  = Pollutant removal requirement (lbs/year)
- $L_{post}$  = Average annual load of total phosphorus exported from the post-development site (lbs/year)
- $L_{pre}$  = Average annual load of total phosphorus exported from the site prior to development (lbs/year)



**Step 5: Identify Feasible BMP(s)**

Select BMP Options using the screening matrices provided in the Chapter 4 of the 2000 Maryland Stormwater Design Manual. Calculate the load removed for each option.

BMP Type	(L <sub>post</sub> )	x	(BMP <sub>RE</sub> )	x	(% DA Served)	=	LR
ED	36.45	x	0.50*	x	0.71	=	12.94 lbs/year
DI	35.45	x	0.65	x	0.29	=	6.68 lbs/year
		x		x		=	lbs/year
		x		x		=	lbs/year

Load Removed, LR (total) = 19.62 lbs/year

Pollutant Removal Requirement, RR (from Step 4) = 4.55 lbs/year

Where:

- Load Removed, LR = Annual total phosphorus load removed by the proposed BMP (lbs/year)
- L<sub>post</sub> = Average annual load of total phosphorus exported from the post-development site (lbs/year)
- BMP<sub>RE</sub> = BMP removal efficiency for total phosphorus, Table 4.8 (%)
- % DA Served = Fraction of the site area within the critical area IDA served by the BMP (%)
- RR = Pollutant removal requirement (lbs/year)

If the Load Removed is equal to or greater than the Pollutant Removal Requirement computed in Step 4, then the on-site BMP complies with the 10% Rule.

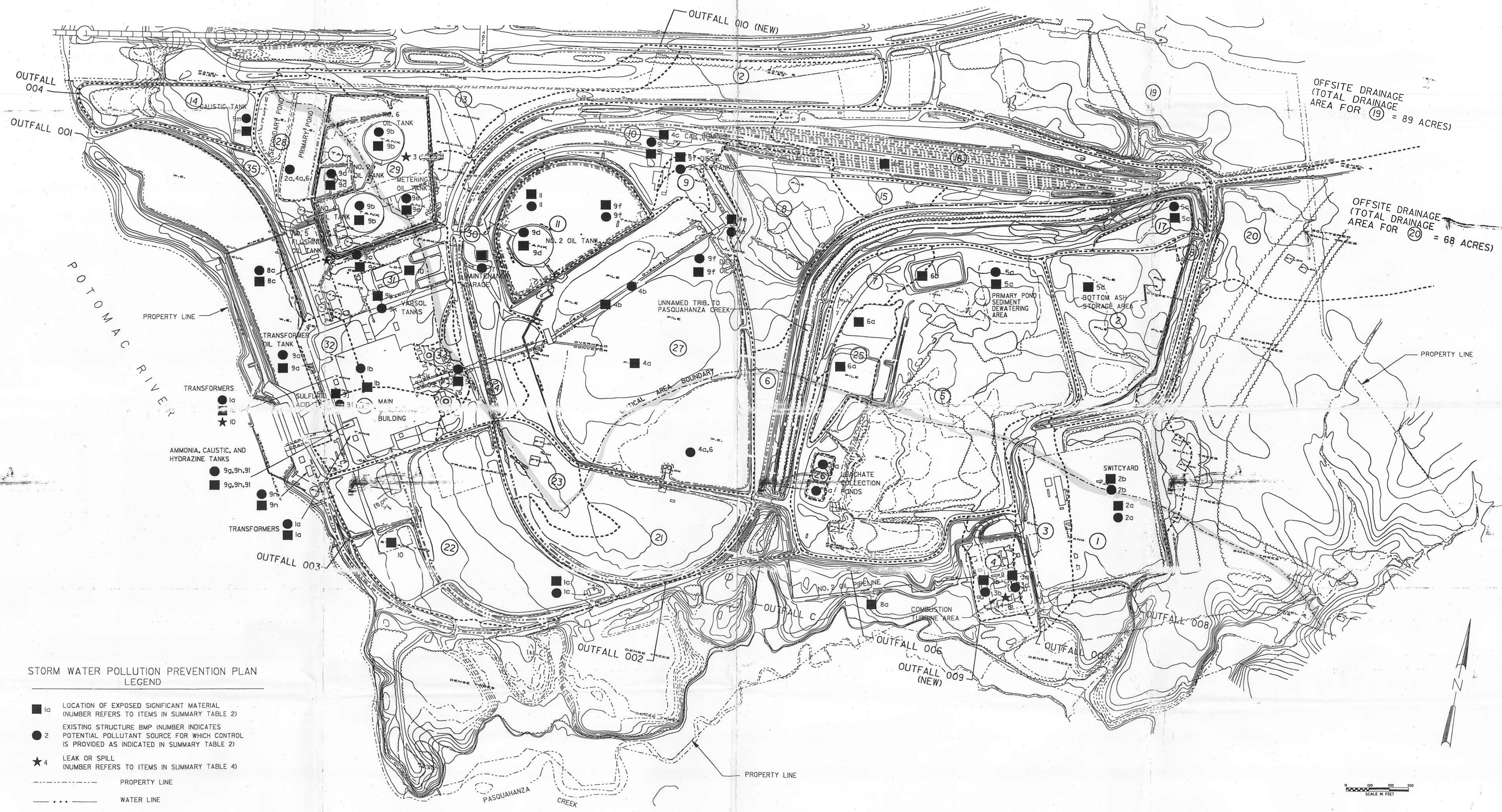
Has the RR (pollutant removal requirement) been met?  Yes  No

Removal exceeded by 15.07 without consideration of additional removal in existing BMPs.

\* Estimated Removal Rate.



REVISIONS					
LTR	DESCRIPTION	CORR	CHKD	APPD	APPD
1	1/95 ADDED SWP3 INFORMATION.		MEL		



OFFSITE DRAINAGE  
(TOTAL DRAINAGE  
AREA FOR 19 = 89 ACRES)

OFFSITE DRAINAGE  
(TOTAL DRAINAGE  
AREA FOR 20 = 68 ACRES)

**STORM WATER POLLUTION PREVENTION PLAN  
LEGEND**

- 1a LOCATION OF EXPOSED SIGNIFICANT MATERIAL (NUMBER REFERS TO ITEMS IN SUMMARY TABLE 2)
- 2 EXISTING STRUCTURE BMP (NUMBER INDICATES POTENTIAL POLLUTANT SOURCE FOR WHICH CONTROL IS PROVIDED AS INDICATED IN SUMMARY TABLE 2)
- ★ 4 LEAK OR SPILL (NUMBER REFERS TO ITEMS IN SUMMARY TABLE 4)
- PROPERTY LINE
- WATER LINE
- DRAINAGE BOUNDARY

- SWP3 NOTES:**
- 1) RUNOFF FROM THE COAL PILE DIRECTED TOWARD COAL PILE RUNOFF BASIN WHICH DISCHARGES TO PRIMARY POND.
  - 2) ■ 8b TRAILERS AND TRUCKS TRAVEL THROUGHOUT SITE.

INFORMATION FOR STORM WATER  
POLLUTION PREVENTION PLAN  
ADDED BY GREENHORNE & O'MARA, INC.  
FEBRUARY, 1995

**SITE PLAN FOR STORM WATER POLLUTION  
PREVENTION PLAN  
MORGANTOWN GENERATING  
STATION**

SYS/SUB SYS CODE SH 1 OF 1

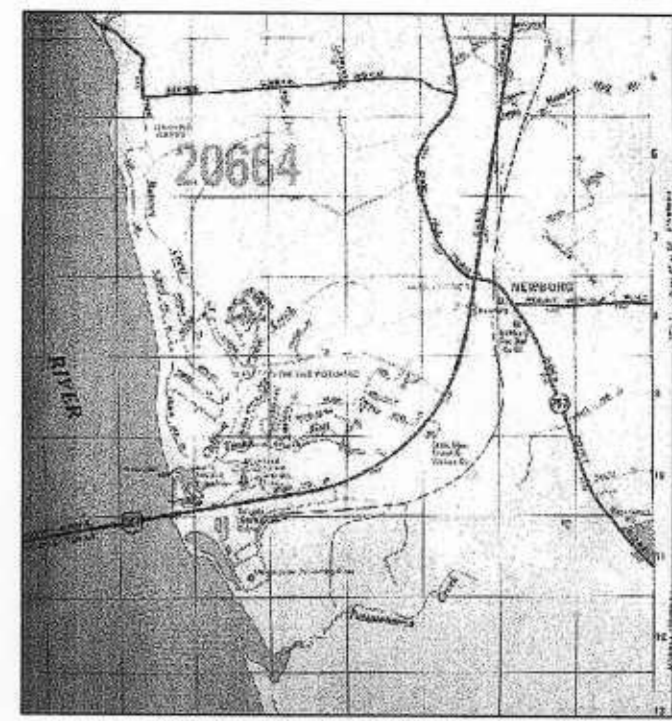
POTOMAC ELECTRIC POWER CO.  
GENERATING ENGINEERING DEPARTMENT

CHKD	APPD	APPD	DR. BY	SCALE
MEL	MEL		LMM	1" = 200'
JOB NO.			DATE FEB., 1995	

FAL-DR-N-I-II-T2031-G&O-001-00



# MORGANTOWN GENERATING STATION BP# MIC 06-0011



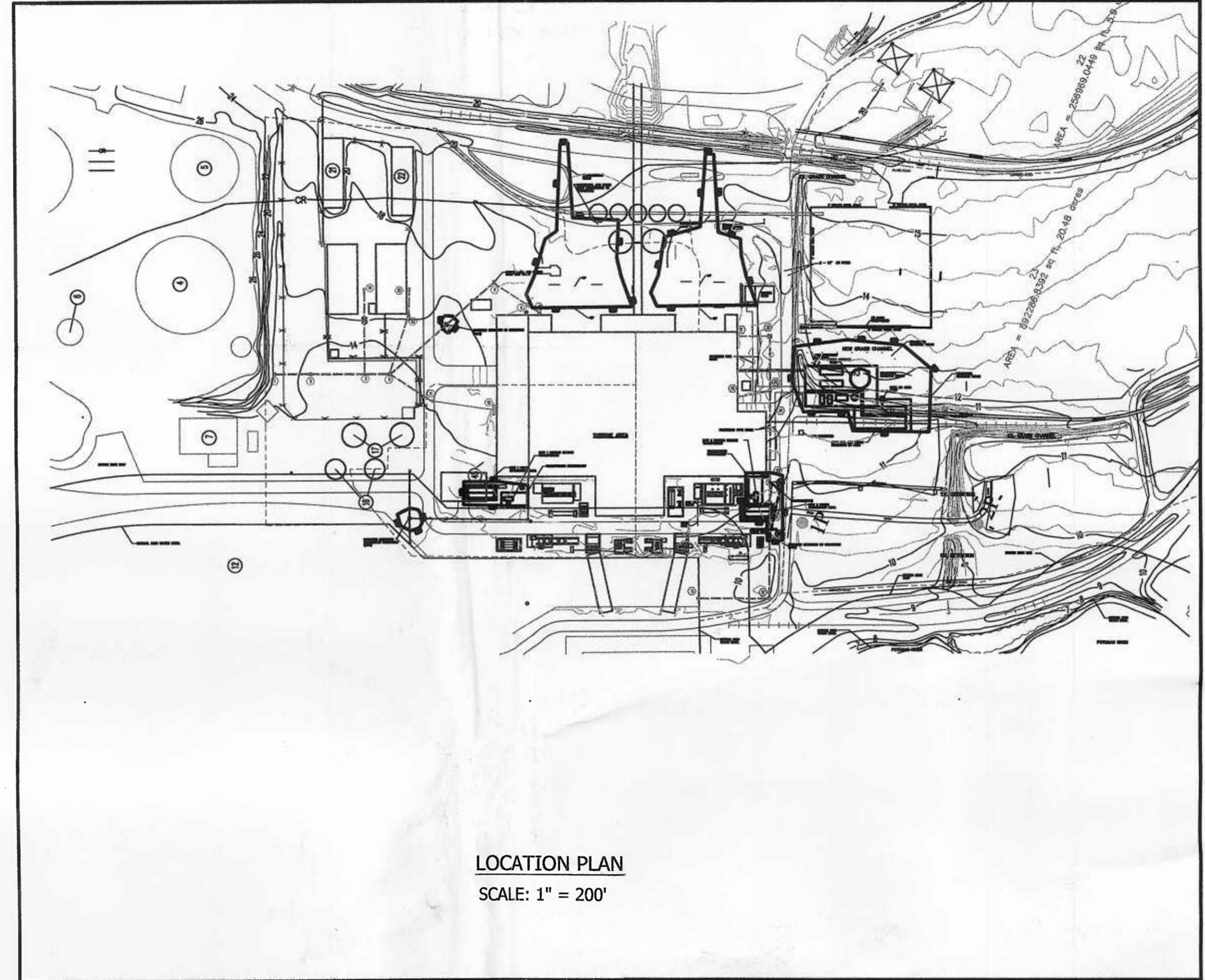
VICINITY MAP  
1"=2000'  
ADC 33E11

- GENERAL NOTE:**
- All work shall be in accordance with the latest Charles County Department of Planning and Growth Management Standards and Specifications For Construction Manual, the latest Charles County Detail Manual and in accordance with current county ordinances.
  - The contractor is responsible for contacting "Miss Utility" at 1-800-257-7777 forty-eight (48) hours prior to any excavation work.
  - The developer is responsible to hold a "Preconstruction" meeting to include the contractor, Charles County Inspection personnel, public utilities, and any local, state or federal agencies as required prior to the start of construction.
  - The contractor is responsible for contacting the Charles County Department of Planning and Growth Management/Development Services Department 24 hours prior to the start of all construction in accordance to all permits issued at (301) 645-0618.
  - Maximum slopes shall not be greater than three (3) feet horizontal to one (1) foot vertical, outside the road right-of-way. Slopes within the road right-of-way shall be not greater than two (2) feet horizontal to one (1) foot vertical, or as specified in the County Road Ordinance and in the Charles County Detail Manual.
  - Certified compaction tests are required for all trench/fill work on site in accordance with the latest edition of the Specifications Manual and Grading Ordinance. Final reports and certifications shall be provided prior to prefinal inspections.
  - Certified compaction tests and geotechnical reports shall be submitted on a bi-weekly basis throughout the course of construction as required by the Specifications Manual.
  - A progress set of as-built plans shall be submitted prior to "Substantial Inspections" for water and sewer construction for the purpose of obtaining an approval for substantial inspection.
  - As-built plans are not required for private improvements shown on the plan.
  - With approval from the Maryland Department of the Environment all erosion and sediment control structures must be removed prior to the release of bonds.
  - Building permits shall include a SWM plan showing compliance with MDE Stormwater Management and Critical DR AREA Commission regulations.

EXISTING	LEGEND	PROPOSED
PROPERTY LINES	PAVEMENT	CONTOUR
SPOT ELEVATION	CURB & GUTTER	SIDEWALK
ELECTRIC LINE	GAS MAIN	WATER LINE
SEWER LINE	STORM DRAIN	WATER VALVE
FIRE HYDRANT	BLOW-OFFS	MANHOLE (SEWER)
BENCHMARK	FENCE	EASEMENT
TELEPHONE	EARTH DIKE	STRAW BALE DIKE
SILT FENCE	TEMPORARY SWALE	

EXISTING	LEGEND	PROPOSED
N/A	STABILIZED CONSTRUCTION ENTRANCE	W/ MOUNTAINABLE BERM
N/A	INLET PROTECTION	EARTH DIKE
N/A	SUPER SILT FENCE	SSF
N/A	DRAINAGE DIVIDE	SAFETY FENCE
N/A	MAX. DRAINAGE DIVIDE TO SEDIMENT TRAP	TRAP NO.
N/A	TREE/WOOD LINE	
N/A	LIMIT OF DISTURBANCE	
N/A	WETLAND BUFFER	
N/A	WETLAND	
N/A	FLOW DIRECTION ARROW	FLOW

PREMISES ADDRESS  
12475 ROCK POINT ROAD  
NEWBURG 20664



LOCATION PLAN  
SCALE: 1" = 200'

### CONSTRUCTION SHEET INDEX

- COVER SHEET
- SITE PLAN
- SWM/STORMDRAIN PLAN
- STORMDRAIN DIVIDES
- STORMDRAIN PROFILES-1
- STORMDRAIN PROFILES-2
- SEDIMENT CONTROL PLAN-1
- SEDIMENT CONTROL PLAN-2

ABBREVIATION LIST	LEGEND FOR PROFILES
HW - HIGH POINT	PVC - POINT OF VERTICAL CURVE
LP - LOW POINT	PVT - POINT OF VERTICAL TANGENCY
STA - STATION	PVI - POINT OF VERTICAL INTERSECTION
VERT. - VERTICAL	STA = ST = STATION
HORIZ. - HORIZONTAL	ELV = EL = ELEVATION
V.C. - VERTICAL CURVE	VCL = VERTICAL CURVE LENGTH
ELEV. - ELEVATION	Corr = CORRECTION (ALSO KNOWN AS "E")
N.T.S. - NOT TO SCALE	SST = SAG STATION
R.P. - RADIUS POINT	SEV = SAG ELEVATION
RCP - REINFORCED CONCRETE PIPE	BST = BEGINNING STATION
CMP - CORRUGATED METAL PIPE	BEV = BEGINNING ELEVATION
DIP - DUCTILE IRON PIPE	EST = ENDING STATION
PGL - PROFILE GRADE LINE	EEV = ENDING ELEVATION
SRCMP - SPIRAL RIB CORRUGATED METAL PIPE	CL = CENTERLINE
F.F. - FINISHED FLOOR ELEVATION	PGL = PROFILE GRADE LINE
B - BASEMENT ELEVATION	RT = RIGHT
G - GARAGE SLAB ELEVATION	LT = LEFT
M.S. - MINIMUM ELEVATION FOR GRAVITY SEWER	SSD = STOPPING SIGHT DISTANCE
SHC - SEWER HOUSE CONNECTION	HLSD = HEAD LIGHT SIGHT DISTANCE
DHC - DROP HOUSE CONNECTION	
WHC - WATER HOUSE CONNECTION	

- UTILITY COMPANY CONTACTS:**
- SMECO - Southern Maryland Electric Cooperative  
contact: Chuck Stone - District Engineering Supervisor  
4415 Crain Highway P.O. Box 248  
White Plains, Maryland 20635  
Phone: 301-705-8686 Fax: 301-705-8629
  - Washington Gas  
contact: Nazim Kahn - New Service Supervisor  
16045 Accolawn Road  
Accokeek, Maryland 20607  
Phone: 301-750-5626 Fax: 301-283-5272
  - Comcast CableVision  
contact: Kevin Kadjjeski - Construction Division  
101 Shagbuck Road  
Prince Frederick, Maryland 20678  
Phone: 410-535-6880 Extn: #316
  - Bell Atlantic  
contact: Karl Benton / Kevin Chandler  
6205 Crain Highway  
La Plata, Maryland 20646  
Phone: 301-934-5022 Fax: 301-934-9946

DISTURBED AREA = 1.19 acres

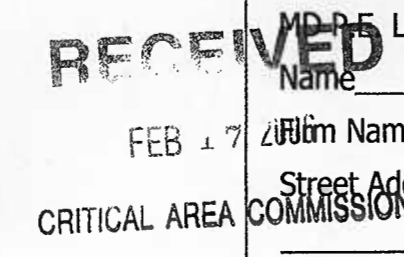
**CALL "MISS UTILITY"**  
TELEPHONE: 1-800-257-7777 FOR UTILITY  
LOCATIONS AT LEAST 48 HOURS BEFORE  
BEGINNING CONSTRUCTION.

**STANDARD STABILIZATION NOTE:**  
FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3H:1V AND FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED DR AREAS ON THE PROJECT SITE. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUND COVER TO BE CONSIDERED ADEQUATELY STABILIZED.

**CONSULTANT CERTIFICATION:**  
I hereby certify that this plan has been design in accordance with the 1994 standards and specifications for Soil Erosion and Sediment Control or current revisions thereof, and Department of the Environment Stormwater Management Regulations.

MD DE License# 23343  
Name BRIAN OLSON  
Firm Name ATCS PLC  
Street Address 7 POST OFFICE RD SUITE G  
City WALDORF, MD 20602

Signature *[Signature]*  
Date



### OWNER'S/DEVELOPER'S CERTIFICATION

I/We hereby certify that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Maryland Department of the Environment approved training program for the control of erosion and sediment before beginning the project. I hereby authorize the right of entry for periodic on-site evaluation by State of Maryland, Department of the Environment, Compliance Inspectors.

Date \_\_\_\_\_ Owner/Developer Signature  
Card No. \_\_\_\_\_ ROBERT GUNTS CONTO MAROEN  
Printed Name and Title

Telephone No: \_\_\_\_\_  
Address: \_\_\_\_\_

### ENGINEER'S CERTIFICATION STATEMENT

I hereby certify that this plan meets or exceeds the requirements of the Stormwater Management & Storm Drainage Ordinance, Floodplain Management Ordinance, Grading Ordinance, Road Ordinance, Water & Sewer Ordinance, the 2000 Maryland Stormwater Design Manual, Volumes I & II, all state and federal codes, the Charles County Standards and Specifications for Construction Manual, the Charles County Details Manual, the approved site plan or preliminary plan, other PGM ordinances and regulations and any conditions imposed by Charles County.

Signature \_\_\_\_\_ BRIAN OLSON 23343  
Maryland Registered Professional Engineer License Number



**ATCS, P.L.C.**  
ENGINEERING • PLANNING • SURVEYING  
7 Post Office Road, Suite G  
Waldorf, MD 20602  
(301) 932-8043 • Fax (301) 843-1262  
Culpeper, Va. • Waldorf, Md. • Sterling, Va.

TITLE SHEET  
MORGANTOWN GENERATING STATION  
GENERATING STATION PLAN  
STORMWATER MANAGEMENT PLAN  
IN SUPPORT OF BUILDING PERMIT  
TAX MAP 79, GRID 23, PARCEL 20  
LOCATED IN ELECTION DISTRICT CHARLES COUNTY

CHARLES COUNTY GOVERNMENT Department of Planning and Growth Management Development Services Department			
Approved for:			Remarks and Conditions:
Grading	Construction	As-builts	
Roads	Construction	As-builts	
Storm Drainage	Construction	As-builts	
Storm Water Management	Construction	As-builts	<b>RECEIVED</b> FEB 17 2006 CRITICAL AREA COMMISSION
Water	Construction	As-builts	
Sewer	Construction	As-builts	
Other	Construction	As-builts	This permit expires on
Signed:	Date:	Date:	
BP# MIC 06-0011 SDP# 05-0072			SHEET NO. 1 OF 8 DWG. NO. W328-2370



**NOTES**

1. BACKGROUND DRAWING FROM MORGANTOWN GENERATING STATION TOPOGRAPHIC MAP, JOB NUMBER 7-6-GSF-4064, SHEETS 1-4, REVISION B, DATED 5/23/90, PREPARED BY PHOTO SCIENCE, INC., GAITHERSBURG, MD. DETAILED TOPOGRAPHIC CONTOURS AND SPOT ELEVATIONS IN AREA OF CONSTRUCTION ARE PRESENTED ON SUBSEQUENT DRAWINGS.
2. THE GRID ON THIS DRAWING IS STATE PLANE 27
3. 100' BUFFER ZONE LINE IS LOCATED APPROXIMATELY BASED ON MEASURING 100' LANDWARD FROM THE MEAN HIGH TIDE, OR FROM WETLANDS, SHOWN ON THIS DRAWING BACKGROUND.
4. CRITICAL BAY AREA LINE (CR) BASED UPON MORGANTOWN GENERATING STATION "F" NPDES PERMIT. DISCHARGE OUTFALLS PLAT. JOB NUMBER 7E-GSF-4007, REVISION C, DATED 9/16/98, PREPARED BY PHOTO SCIENCE INC., GAITHERSBURG, MD.
5. FOR ADDITIONAL NOTES AND LEGEND REFER TO SL-GSF-C-2
6. PROVIDE SILT FENCING OR STRAW BALES AROUND TRANSMISSION FOUNDATION INSTALLATION AREA PER DETAIL C5-03 OR C5-04, WHICH IS SHOWN ON DWG. SL-GSF-C-3.
7. PROVIDE SILT FENCING OR STRAW BALES ACROSS THE ENTIRE DITCH, 3' PRIOR TO CULVERT ENTRANCE, PER DETAIL C5-03 OR C5-04, WHICH IS SHOWN ON DWG. SL-GSF-C-3.
8. PROVIDE CURB INLET PROTECTION PER DETAIL C5-01, WHICH IS SHOWN ON DWG. SL-GSF-C-2.
9. PROVIDE AT GRADE INLET PROTECTION PER DETAIL C5-02, WHICH IS SHOWN ON DWG. SL-GSF-C-2.
10. FOLLOWING CONSTRUCTION, PROVIDE GRASS SEEDING ON DISTURBED AREAS.
11. FOR CONSTRUCTIONS DETERMINING REQUIREMENTS SEE NOTE 2, DRAWING SL-GSF-C-5.
12. ALL SEDIMENT AND EROSION CONTROL PROCEDURES SHALL COMPLY WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
13. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SHALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
14. EROSION AND SEDIMENT PRACTICES, AND SITE IN GENERAL, MUST BE INSPECTED WEEKLY AND AFTER EACH RAIN FALL EVENT, BY THE CONTRACTOR OR OTHER RESPONSIBLE PERSON, AND ANY NEEDED MAINTENANCE PERFORMED IMMEDIATELY.
15. DUST WILL BE CONTROLLED BY WATERING OR OTHER CONTROL METHODS ACCEPTABLE TO THE DEPARTMENT AND IN CONFORMANCE WITH APPLICABLE AIR POLLUTION ORDINANCE.
16. NO INCLUSIONS OF ORGANIC OR OTHER HARMFUL MATERIALS WHICH MAY BE SUBJECT TO DECAY SHALL BE PERMITTED.
17. NO ROCK OR SIMILAR MATERIAL GREATER THAN 8 INCHES SHALL BE BURIED OR PLACED IN ANY LOAD BEARING FILL WITHIN 2 FEET OF FINISHED GRADE OR FOUNDATION BASE. MATERIAL SHALL BE PLACED UNDER DIRECT SUPERVISION OF AN ENGINEER.
18. THE NATURAL GROUND SHALL RECEIVE FILL BY REMOVING ALL ORGANIC SURFACE MATERIALS, NON COMPLYING FILL AND UNSUITABLE SOILS IN ACCORDANCE WITH THE FOLLOWING PROVISIONS OR OTHERWISE APPROVED BY THE DEPARTMENT OR PROFESSIONAL ENGINEER.
19. BEFORE PLACING TYPE I AND II FILLS THE GROUND SHALL BE COMPACTED TO ACHIEVE A DENSITY OF NOT LESS THAN 90% OF MAXIMUM DENSITY WITHIN THE TOP 6 INCHES.
20. NO FILL SHALL BE PLACED ON FROZEN GROUND.
21. TYPE I AND II FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% AND 90%, RESPECTIVELY OF MAXIMUM DENSITY AS DETERMINED IN THE LABORATORY BY THE MODIFIED PROCTOR TEST. TYPE III FILL SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND TO PREVENT AN EROSION HAZARD.
22. FIELD DENSITY SHALL BE DETERMINED BY ASTM TEST OR BY EQUIVALENT, TEST APPROVED BY DEPARTMENT OF INSPECTIONS.
23. FILL SHALL BE PLACED IN HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN EIGHT (8) INCHES.
24. ALL AREAS SHALL BE GRADED TO PROVIDE FOR POSITIVE DRAINAGE AWAY FROM THE BUILDING TOWARD THE APPROVED DISCHARGE AREA.
25. ANY MATERIAL TAKEN OFF SITE WILL GO TO A PERMITTED FACILITY.
26. FOR ADDITIONAL RECENT TOPOGRAPHIC SURVEY SEE DRAWINGS 1 THRU 24, GREENHORNE AND O'MARA, INC., 9001 EDMONSTON ROAD, GREENBELT, MARYLAND 20770, JOB #2872 DATE 7/12/05

**REFERENCE DRAWINGS**

**OWNER'S/DEVELOPERS CERTIFICATION:**  
 I/We hereby certify that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a National Department of the Environment approved training program for the control of erosion and sediment before beginning this project. I hereby authorize the right to entry for periodic annual evaluation by State of Maryland, Department of the Environment, Compliance Inspectors.

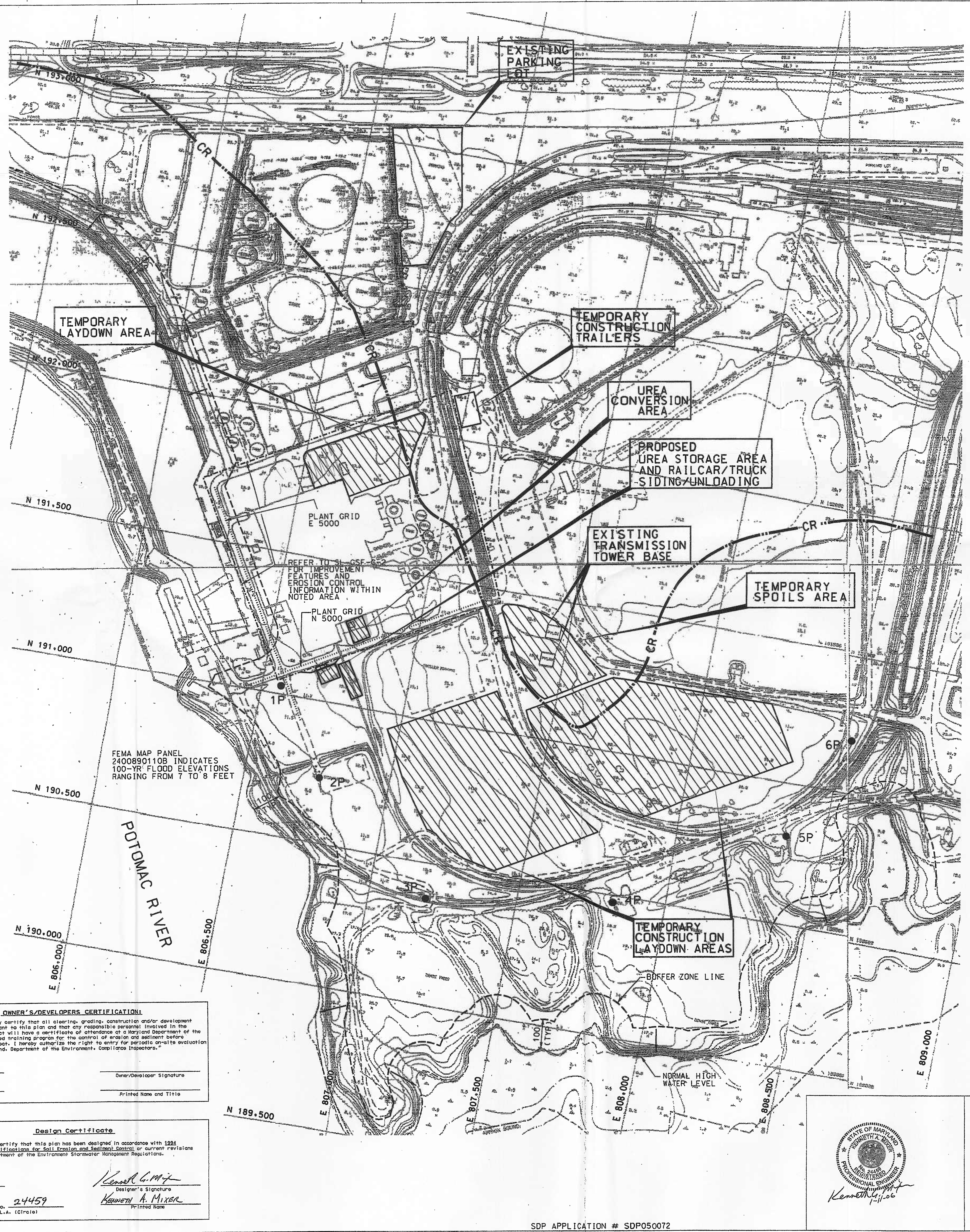
Date: \_\_\_\_\_ Designer/Developer Signature: \_\_\_\_\_  
 Cord No. \_\_\_\_\_ Printed Name and Title: \_\_\_\_\_

**Design Certificate:**  
 I hereby certify that this plan has been designed in accordance with 1994 Standards and Specifications for Soil Erosion and Sediment Control or current revisions thereof, and Department of the Environment Stormwater Management Regulations.

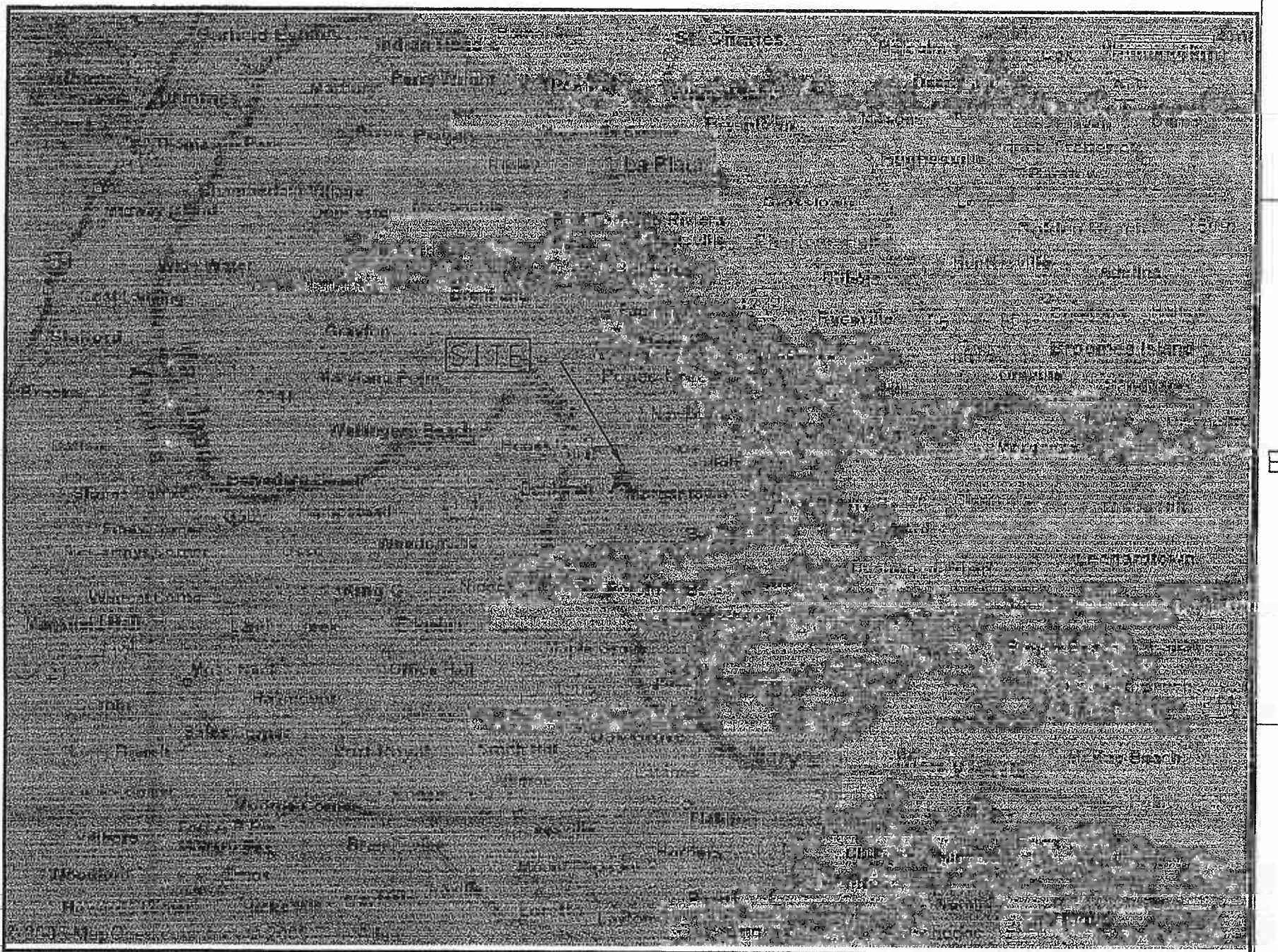
Date: 1-11-06 Designer's Signature: Kenneth G. Miller  
 Ms. Registration No. 24459 Kenneth A. Miller  
 (C.E.D. R.L.S. or R.L.A. (C)1910)

This Plan (122-05) Approved for Erosion and Sediment Control by the Charles Soil Conservation District.  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 This Approval expires 2/28/08  
 We have received for Extension Map is submitted to the District.

Reviewed for Charles S.C.D. and Meets Technical Requirements.  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 U.S.D.A. Natural Resources Conservation Service



REVISIONS						
LTR	DESCRIPTION	DATE	CORR	CHKD	APPD	APPD
1	FOR PERMIT SUPPORT	11-04-2005	CAF/ALS	DJD		
2	FOR PERMIT SUPPORT	12-05-2005	CAF/ALS	DJD		
3	FOR PERMIT SUPPORT	1-11-2006	CAF/ALS	DJD		



**LEGEND**

○ POWER POLE	○ MANHOLE
✱ LIGHT POLE	△ H&V CONTROL
⌘ FLAG POLE	○ SINGLE SHRUB
○ POST (UNDEFINED)	○ SINGLE TREE
□ C.B.	⚡ SWAMP SYMBOL
⊞ C.B. W/MANHOLE	○ HYDRANT
> CULVERT	

--- NORMAL HIGH WATER LEVEL  
 - - - SILT FENCE  
 - - - 100' BUFFER ZONE LINE  
 - - - CR - - - CRITICAL BAY AREA LINE  
 ● 1P - 6P POLE FOUNDATIONS  
 → DIRECTION OF SURFACE WATER FLOW IN BUFFER ZONE  
 ▨ DISTURBED AREA

PLANT NORTH 30° 30' 56.16"

E 5000.00  
 N 5000.00  
 N 191083.36  
 MD SYSTEM

150 0 150 300  
 GRAPHIC SCALE

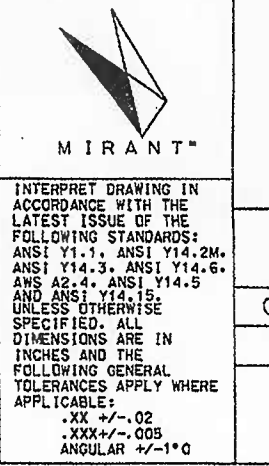
**APPLICANT'S CONTACT INFO**  
 DANIEL T. STEVENS  
 MORGANTOWN GENERATING STATION  
 12620 CRAIN HIGHWAY  
 NEWBURG, MD 20664  
 (301)-834-4557 (W)  
 (240)-299-2110 (C)  
 (301)-843-4612 (F)  
 DANIEL.STEVENS@MIRANT.COM  
 FILENAME: SL-GSF-C-1.DGN

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.



**MORGANTOWN GENERATING STATION  
 SITE EROSION CONTROL  
 AND PROTECTION  
 SITE PLAN SHEET 1 OF 5**

MIRANT CORPORATION, MID-ATLANTIC REGION  
 ENGINEERING SERVICES

CHKD	APPD	APPD	APPD	DATE:	SCALE: 1"=150'
				PROJ. NO. 171400939	DRWN BY:

SL-GSF-C-1 3



DRAINAGE AREA COMPUTATIONS

SECTION	TOTAL DRAINAGE AREA (ACRES)	IMPERVIOUS AREA (ACRES)		EXCLUDED CONTAINMENT AREA (ACRES)
		EXISTING	PROPOSED	
A1	3.0618	2.2980	0.4024	3.0618
A2	1.8224	1.7456	0.0768	-
A3	1.4277	1.4277	-	-
A4	0.1941	0.1941	-	-
A5	0.4825	0.4825	-	-
A6	0.3114	0.0667	-	-
A7	1.0772	0.8793	0.0779	-
A8	0.8307	0.6883	0.1424	-
A9	0.7351	0.6484	0.0805	-
A10	1.6443	1.6443	-	-
A11	2.0849	2.0849	-	-
A12	0.4360	0.0584	-	-
A13	0.2932	-	-	-
A14	0.8916	0.8159	0.0757	-
A15	0.2722	0.2722	-	-
A16	6.2484	1.9397	0.4237	-

PLANT AREA A  
4.38 ACRES TO STRUCTURE 52

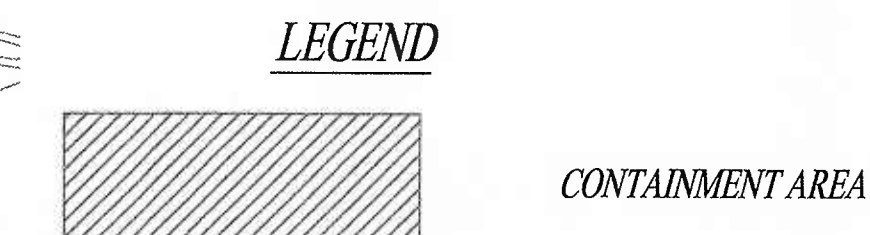
VI. STORAGE REQUIREMENTS SUMMARY				February 16, 2006	
Step	Requirement	Volume Required (Ac-ft)	Notes		
I	Water Quality Volume (WQ <sub>v</sub> )	0.0265	EXTENDED DETENTION		
II	Recharge Volume (Re <sub>v</sub> )	0.0143	ACRES NON STRUCTURAL		
III	Channel Protection Volume (Cp <sub>v</sub> )	N/A			
IV	Overbank Flood Volume (Q <sub>v</sub> )	N/A			
V	Extreme Flood Volume (Q <sub>v</sub> )	N/A			

PLANT AREA B  
2.06 ACRES TO STRUCTURE 44

VI. STORAGE REQUIREMENTS SUMMARY				February 16, 2006	
Step	Requirement	Volume Required (Ac-ft)	Notes		
I	Water Quality Volume (WQ <sub>v</sub> )	0.0142	EXTENDED DETENTION		
II	Recharge Volume (Re <sub>v</sub> )	0.0143	ACRES NON STRUCTURAL		
III	Channel Protection Volume (Cp <sub>v</sub> )	N/A			
IV	Overbank Flood Volume (Q <sub>v</sub> )	N/A			
V	Extreme Flood Volume (Q <sub>v</sub> )	N/A			

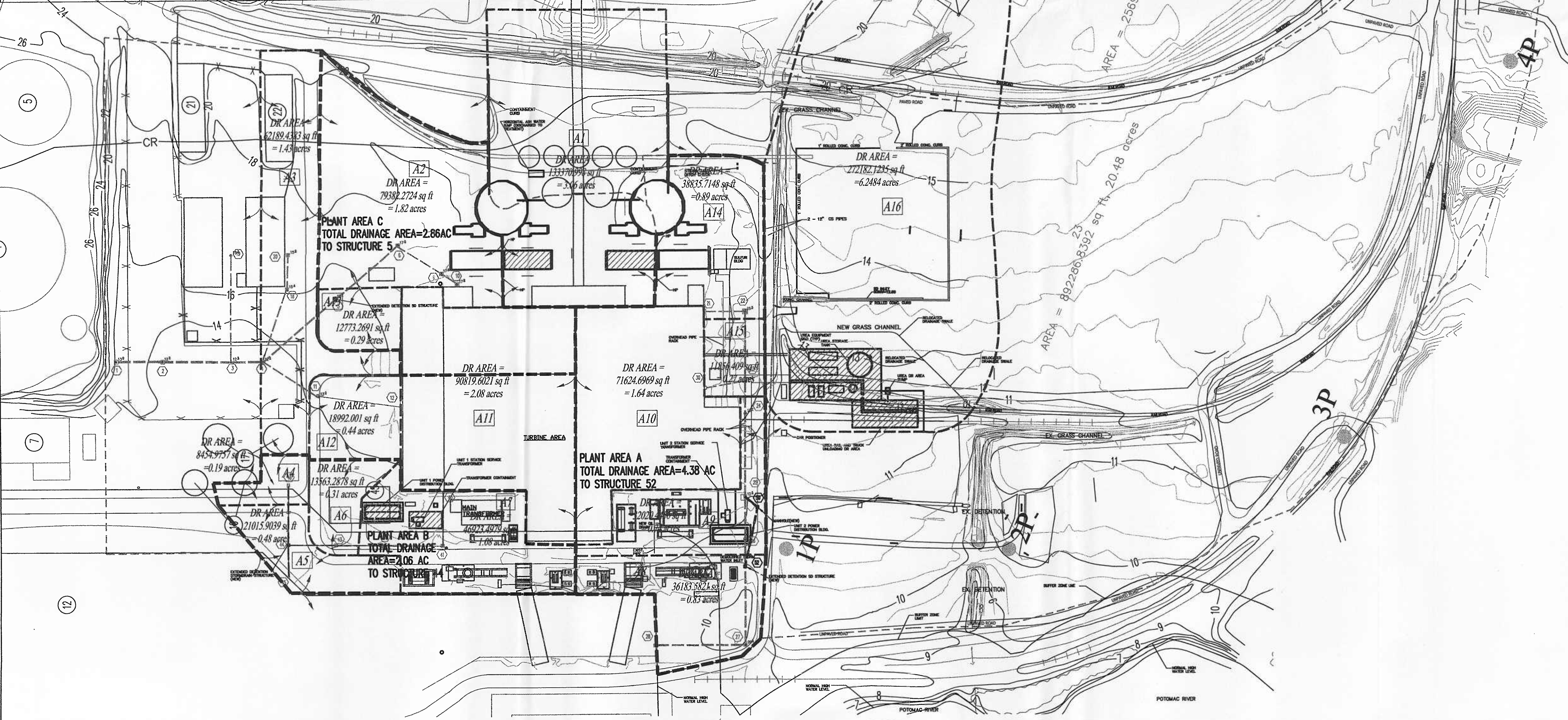
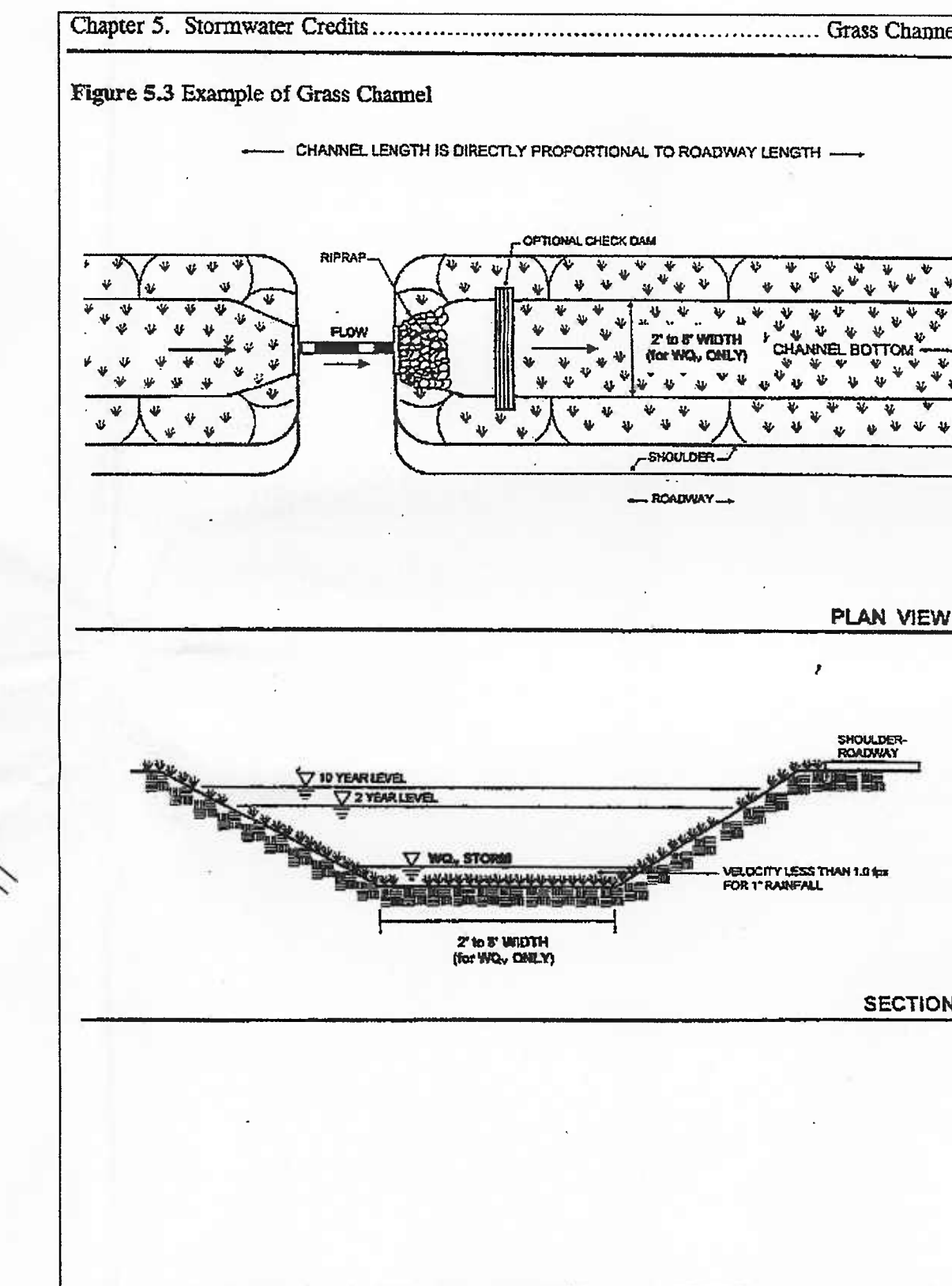
PLANT AREA C  
2.86 ACRES TO STRUCTURE 5

VI. STORAGE REQUIREMENTS SUMMARY				February 16, 2006	
Step	Requirement	Volume Required (Ac-ft)	Notes		
I	Water Quality Volume (WQ <sub>v</sub> )	0.0259	EXTENDED DETENTION		
II	Recharge Volume (Re <sub>v</sub> )	0.0143	ACRES NON STRUCTURAL		
III	Channel Protection Volume (Cp <sub>v</sub> )	N/A			
IV	Overbank Flood Volume (Q <sub>v</sub> )	N/A			
V	Extreme Flood Volume (Q <sub>v</sub> )	N/A			



**NOTES:**

- PIPES LABELED PROCESSING ARE CONTAINED AREAS FROM WHICH ALL RUNOFF IS DIRECTED TO TREATMENT AREAS SUBJECT TO NPDES PERMIT.
- PROCESSING AREAS HAVE BEEN REMOVED FROM SWM AREA COMPUTATIONS BUT NOT FROM CRITICAL AREA IMPERVIOUS AREA.



**ATCS, P.L.C.**  
ENGINEERING • PLANNING • SURVEYING  
7 Post Office Road, Suite G  
Waldorf, MD 20602  
(301) 932-8043 • Fax (301) 843-1262  
Culpeper, Va. • Waldorf, Md. • Sterling, Va.

TITLE  
STORMDRAIN DIVIDES  
GENERATING STATION  
STORMWATER MANAGEMENT PLAN  
IN SUPPORT OF BUILDING PERMIT  
LOCATED IN  
TAX MAP 79, GRID 23, PARCEL 20  
5th ELECTION DISTRICT  
CHARLES COUNTY

**CHARLES COUNTY GOVERNMENT**  
Department of Planning and Growth Management  
Development Services Department

Approved for:			Remarks and Conditions:
Grading	Construction	As-builts	
Roads	Construction	As-builts	
Storm Drainage	Construction	As-builts	
Storm Water Management	Construction	As-builts	
Water	Construction	As-builts	
Sewer	Construction	As-builts	
Other	Construction	As-builts	This permit expires on
Signed:	Date:	Date:	

BP# MIC 06-0011  
SDP# 05-0072

SHEET NO. 4 OF 8  
DWG. NO. W328-2370



CLIENT	DANIEL T. STEVENS MORGANTOWN GENERATING STATION 12620 GRAIN HIGHWAY NEWBURGH MD 20684	PHONE: 301-834-4557 FAX: 301-843-4612
DESIGN BY:	CHKD BY:	
BRO	BRO	
DRAWN BY:	CHKD BY:	
RPK	RPK	
DATE	DATE	
02/09/06	02/09/06	
DRAWING SCALE	DRAWING SCALE	
1"=100'	1"=100'	
NO.	DATE	REVISION



REVISIONS						
LTR	DESCRIPTION	DATE	CORR	CHKD	APPD	APPD
1	FOR PERMIT SUPPORT	11-04-2005	CAF/ALS	DJD		
2	FOR PERMIT SUPPORT	12-05-2005	CAF/ALS	DJD		
3	FOR PERMIT SUPPORT	12-13-2005	CAF/ALS	RHC		
4	FOR PERMIT SUPPORT	1-11-2006	CAF/ALS	RHC		

- ### CONSTRUCTION SEQUENCE
- 1) CONTRACTOR/DEVELOPER SHALL NOTIFY THE COMPLIANCE PROGRAM, WATER MANAGEMENT ADMINISTRATION, MARYLAND DEPARTMENT OF THE ENVIRONMENT, 5 DAYS PRIOR TO THE WORK.
  - 2) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1 HORIZONTAL TO 1 VERTICAL (3:1); AND FOURTEEN DAYS (14) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
  - 3) THE FOLLOWING STEPS MAY BE PERFORMED IN EACH WORK AREA TO SUPPORT THE PLANNED SEQUENCING OF CONSTRUCTION. IN GENERAL THE OVERALL PROJECT CONSTRUCTION SEQUENCE IS AS FOLLOWS: POWER POLE FOUNDATIONS; LAYDOWN AREAS; SCR FOUNDATIONS; UNIT 1 & 2 AUXILIARY POWER TRANSFORMERS AND EQUIPMENT; AND UREA SYSTEM.
  - 4) INSTALL ALL SEDIMENT AND EROSION CONTROL FEATURES INCLUDING SILT FENCES, STRAW BALES AT EXISTING CATCH BASINS AND STORM DRAIN INLETS, CHECK DAMS IN EXISTING SWALES, AND STABILIZED CONSTRUCTION ENTRANCES TO WORK AREAS AS REQUIRED BY THE DETAILS ON THESE DRAWINGS. (ESTIMATED DURATION - 2 WEEKS)
  - 5) OBTAIN CHARLES COUNTY INSPECTION AND APPROVAL OF SEDIMENT AND EROSION CONTROL FEATURES. (ESTIMATED DURATION - 1 WEEK)
  - 6) INSPECT ALL EROSION CONTROL FEATURES WEEKLY AND AFTER EACH RAINFALL EVENT AND IMMEDIATELY PERFORM ANY NEEDED MAINTENANCE. (ESTIMATED DURATION - PROJECT DURATION)
  - 7) EXCAVATE SOILS AND TRANSPORT OFF-SITE OR TO DESIGNATED ON-SITE TEMPORARY SPOILS STORAGE AREA. SPOILS PILE SHALL BE STABILIZED AND COVERED. (ESTIMATED DURATION - 16 WEEKS)
  - 8) RAINFALL OR GROUNDWATER PUMPED FROM EXCAVATIONS SHALL BE ROUTED THROUGH "DIRT BAGS" AS MANUFACTURED BY ACF OR APPROVED EQUAL, FOR REMOVAL OF SEDIMENTS PRIOR TO DISCHARGE OF THE WATER (ESTIMATED DURATION - PROJECT DURATION)
  - 9) INSTALL FOUNDATION PILES (WHERE APPLICABLE) FORM AND POUR CONCRETE FOUNDATIONS. (ESTIMATED DURATION - 26 WEEKS)
  - 10) BACKFILL FOUNDATIONS. (ESTIMATED DURATION - 12 WEEKS)
  - 11) PERFORM FINAL GRADING, STABILIZATION AND SURFACING AROUND FOUNDATIONS AND FOR DISTURBED AREAS. (ESTIMATED DURATION - 8 WEEKS)
  - 12) REMOVE EXCESS STOCK PILED MATERIALS FROM TEMPORARY ON-SITE STOCKPILE AND DISPOSE OFFSITE. (ESTIMATED DURATION - 4 WEEKS)
  - 13) PERFORM FINAL GRADING OF TEMPORARY STOCK PILE AREA AND LAYDOWN AREAS (AS NEEDED) AND STABILIZATION/SEEDING. (ESTIMATED DURATION - 4 WEEKS)
  - 14) FINAL COUNTY INSPECTION. (ESTIMATED DURATION 1 WEEK)
  - 15) REMOVE SEDIMENT AND EROSION CONTROL FEATURES. (ESTIMATED DURATION 1 WEEK)

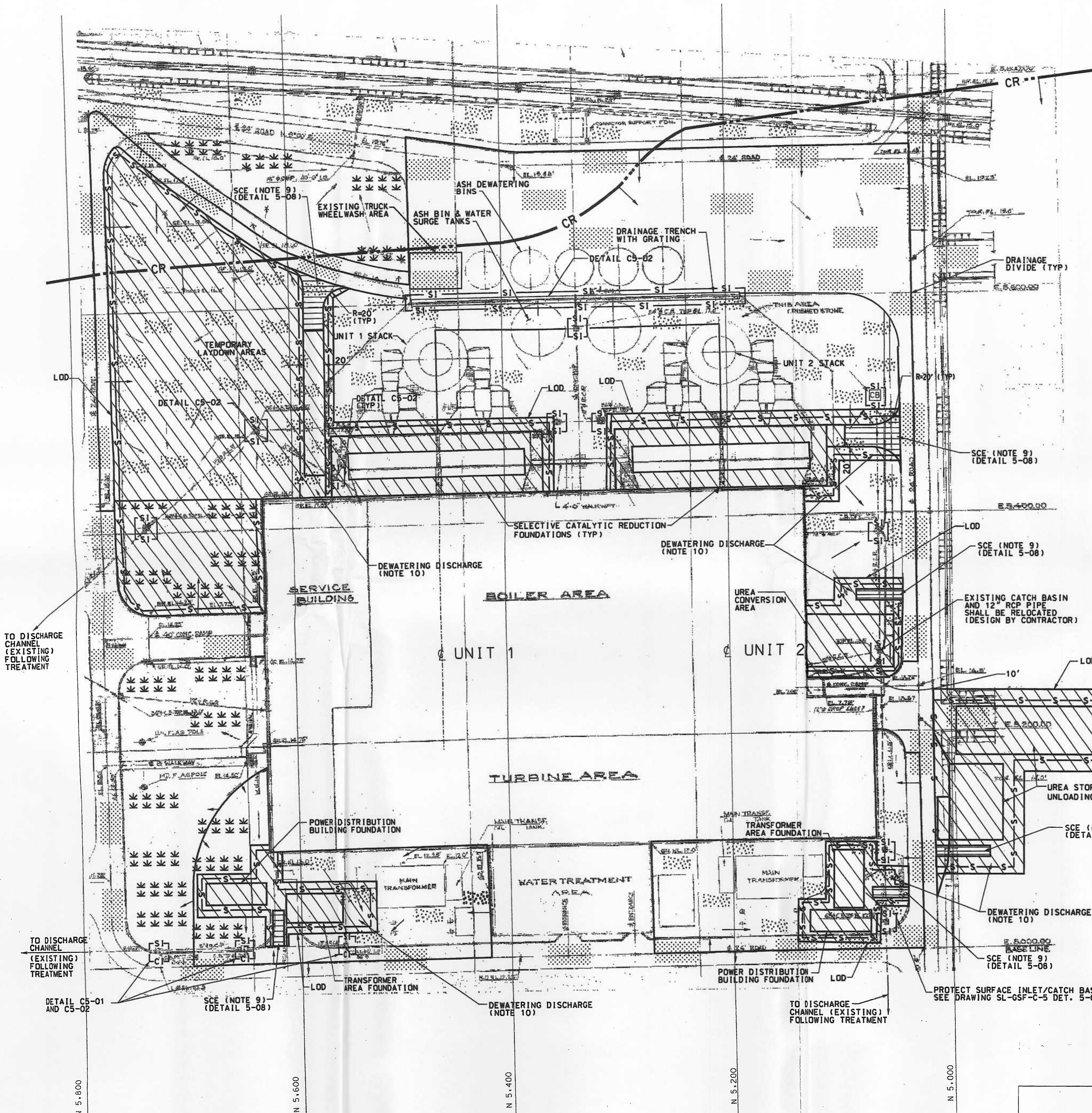
### LEGEND

	AGGREGATE SURFACING EXISTING
	GRASS SURFACING EXISTING
	ASPHALT PAVEMENT EXISTING
	CRITICAL BAY AREA LINE
	SEDIMENT TRAP AT EXISTING SURFACE INLET/CATCHBASIN
	EXISTING CATCH BASIN/CATCH BASIN CURB INLET COMBINATION. ADD SILT FENCE AT CATCH BASIN (S1) AND AT CURB INLET, AS APPROPRIATE.
EL. 19.23	GRADE SURFACE ELEVATION
OR	
GR. EL. 19.23	GRADE SURFACE ELEVATION
	SILT FENCE
	DRAINAGE DIVIDES
	FOUNDATION
	TOP OF ROAD
	INVERT ELEVATION
	CENTERLINE
	REINFORCED CONCRETE PIPE
	CATCH BASIN
	DIAMETER
	FLOW DIRECTION
	DISTURBED AREA
	SCE (STABILIZED CONSTRUCTION ENTRANCE)
	LIMITS OF DISTURBANCE

- ### NOTES
1. REFER TO SL-GSF-C-1 FOR GENERAL NOTES
  2. REFER TO DRAWING SL-GF-C-1 FOR GRID COORDINATES. STATE PLANE TO SITE GRID TRANSLATION. SITE LOCATION ADDITIONAL NOTES AND LEGEND.
  3. BACKGROUND INFORMATION DRAWING C-16, REV. A, JOB # 6065, 1"=40' MAIN BUILDING, GRADING, PAVING, AND DRAINAGE. SHEET 1, BECHTEL CORPORATION, POTOMAC ELECTRIC POWER COMPANY, WASHINGTON DC.
  4. DRAWING SL-GSF-C-3 SHOWS FEATURES ASSOCIATED WITH TRANSMISSION POLE ADDITION.
  5. FOR ADDITIONAL RECENT TOPOGRAPHIC SURVEY SEE DRAWINGS 1 THRU 24, GREENHORNE AND O'MARA, INC., 9001 EDMONSTON ROAD, GREENBELT, MARYLAND 20770. JOB #2872 DATE 7/12/05
  6. REFER TO DRAWING SL-GSF-C-5 FOR EROSION CONTROL DETAILS.
  7. DISTURBANCE AREA IS LIMITED TO THE APPROXIMATE AREA OF NEW FOUNDATION
  8. TRUCKS LEAVING THE SITE WILL HAVE WHEELS INSPECTED/WASHED AS NEEDED AT EXISTING TRUCK WHEEL WASH AREA.
  9. SCE LOCATION CAN BE ADJUSTED IN FIELD AS REQUIRED FOR CONTRACTOR'S ACCESS TO THE CONSTRUCTION AREAS.
  10. ALL PUMPED DEWATERING DISCHARGES SHALL BE CONNECTED TO DEWATERING BAG TO CONTAIN SEDIMENT PER NPDES, 40 CFR 122.26 (1999)

### REFERENCE DRAWINGS

SL-GSF-C-1	GENERAL NOTES
SL-GF-C-1	GRID COORDINATES, STATE PLANE TO SITE GRID TRANSLATION, SITE LOCATION ADDITIONAL NOTES AND LEGEND
C-16, REV. A	BACKGROUND INFORMATION DRAWING
SL-GSF-C-3	TRANSMISSION POLE ADDITION
1 THRU 24	TOPOGRAPHIC SURVEY
SL-GSF-C-5	EROSION CONTROL DETAILS



PLANT  
NORTH

40 0 40 80  
GRAPHIC SCALE

APPLICANT'S CONTACT INFO

DANIEL T. STEVENS  
MORGANTOWN GENERATING STATION  
12520 GRAIN HIGHWAY  
NEWBURG, MD 20664  
(301)-834-4557 (W)  
(240)-299-2110 (C)  
(301)-845-4612 (F)  
DANIEL.STEVENS@MIRANT.COM

FILENAME: SL-GSF-C-2.DGN

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTORS)) PERFORMING

MORGANTOWN GENERATING STATION  
SITE EROSION CONTROL  
AND PROTECTION  
MAIN POWER BLOCK PLAN SHEET 2 OF 5

MIRANT CORPORATION, MID-ATLANTIC REGION  
ENGINEERING SERVICES

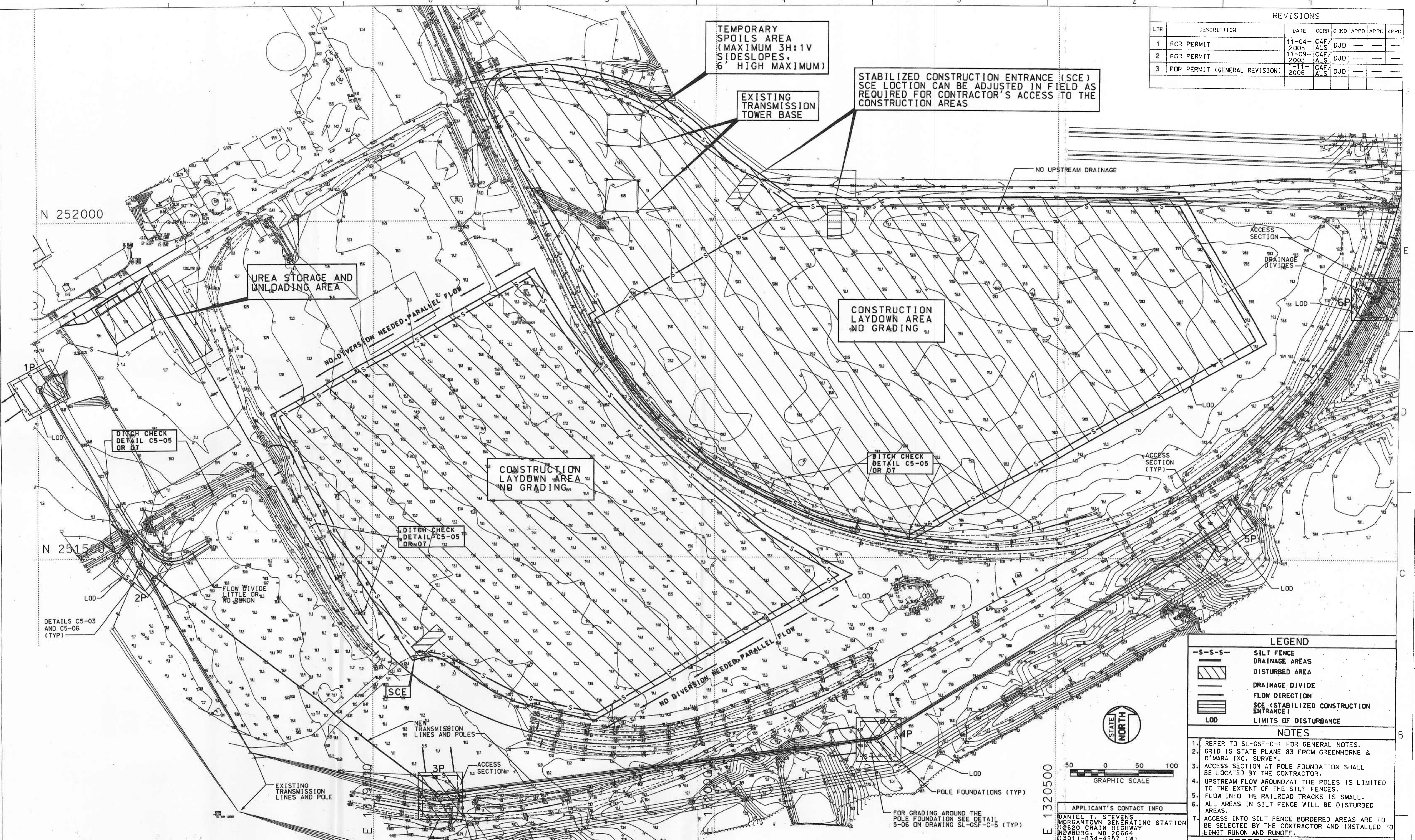
CHKD	APPD	APPD	APPD	DATE	SCALE: 1" = 40'

PROJ. NO. 1714000939 DRWN BY: \_\_\_\_\_

REVISION  
SL-GSF-C-2 4



REVISIONS							
LTR	DESCRIPTION	DATE	CORR	CHKD	APPD	APPD	APPD
1	FOR PERMIT	11-04-2005	CAF/ALS	DJD	---	---	---
2	FOR PERMIT	11-09-2005	CAF/ALS	DJD	---	---	---
3	FOR PERMIT (GENERAL REVISION)	11-11-2006	CAF/ALS	DJD	---	---	---



LEGEND	
-S-S-	SILT FENCE
[Diagonal Hatching]	DRAINAGE AREAS
[Cross-hatching]	DISTURBED AREA
[Dashed Line]	DRAINAGE DIVIDE
[Arrow]	FLOW DIRECTION
[Solid Line]	SCE (STABILIZED CONSTRUCTION ENTRANCE)
[Dotted Line]	LOD LIMITS OF DISTURBANCE

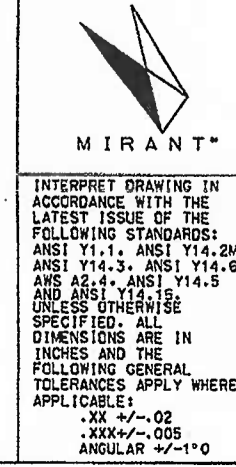
- NOTES**
- REFER TO SL-GSF-C-1 FOR GENERAL NOTES.
  - GRID IS STATE PLANE 83 FROM GREENHORNE & O'MARA INC. SURVEY.
  - ACCESS SECTION AT POLE FOUNDATION SHALL BE LOCATED BY THE CONTRACTOR.
  - UPSTREAM FLOW AROUND AT THE POLES IS LIMITED TO THE EXTENT OF THE SILT FENCES.
  - FLOW INTO THE RAILROAD TRACKS IS SMALL.
  - ALL AREAS IN SILT FENCE WILL BE DISTURBED AREAS.
  - ACCESS INTO SILT FENCE BORDERED AREAS ARE TO BE SELECTED BY THE CONTRACTOR AND INSTALLED TO LIMIT RUNOFF AND RUNOFF.

**REFERENCE DRAWINGS**

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED. REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.



**MORGANTOWN GENERATING STATION**  
**SITE EROSION CONTROL AND PROTECTION**  
**SOUTH AREA PLAN SHEET 3 OF 5**

MIRANT CORPORATION, MID-ATLANTIC REGION  
 ENGINEERING SERVICES

CHKD	APPD	APPD	APPD	DATE:	SCALE: 1"=50'
				PROJ. NO. 1714000939	DRWN BY: SL-GSF-C-3
					REVISION: 3