

SHEET INDEX

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2. SITE PLAN
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4. SEDIMENT AND EROSION CONTROL PLAN
5. SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
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GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY WORK BEING DONE.
3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
4. SURVEY OF THE SITE WAS PERFORMED BY AB CONSULTANTS, INC. - SEPTEMBER 2002.
5. WETLANDS WERE DELINEATED BY CHESAPEAKE ENVIRONMENTAL MANAGEMENT, INC. - AUGUST 2002.
6. COORDINATES AND ELEVATIONS ARE BASED ON PREVIOUS EBA ENGINEERING, INC. TRAVERSE AND CONTROL POINTS.
7. THE EXISTING INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM THE BEST AVAILABLE SOURCES AND SHALL BE VERIFIED BEFORE STARTING CONSTRUCTION. THE HOWARD COUNTY DOES NOT GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE SHOWN INFORMATION.
8. HTI CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO HTI'S OPERATION SHALL BE REPAIRED IMMEDIATELY. ALL UTILITIES SHALL HAVE A CLEARANCE BY A MINIMUM OF 6 INCHES VERTICALLY AND A MINIMUM OF 5 FEET HORIZONTALLY.
9. SHOULD HTI DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, HTI SHALL NOTIFY KCI TECHNOLOGIES, INC. IMMEDIATELY TO RESOLVE THE SITUATION.
10. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
11. HTI IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
12. EXISTING FENCES DISTURBED BY THE WORK SHALL BE RECONSTRUCTED OR REPLACED IN A CONDITION EQUAL TO OR BETTER THAN PRESENT CONDITIONS, UNLESS OTHERWISE NOTED IN THE EASEMENT DOCUMENTS.
13. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
14. TRAFFIC CONTROL SHALL BE PROVIDED DURING CONSTRUCTION. HOWARD COUNTY STANDARD DETAIL TE-11 SHALL APPLY.
15. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, A VIDEOTAPE AND PHOTOGRAPHS OF THE CHANNEL FROM THE PROPOSED STORM DRAIN OUTFALL TO ITS DOWNSTREAM CONFLUENCE SHALL BE TAKEN.

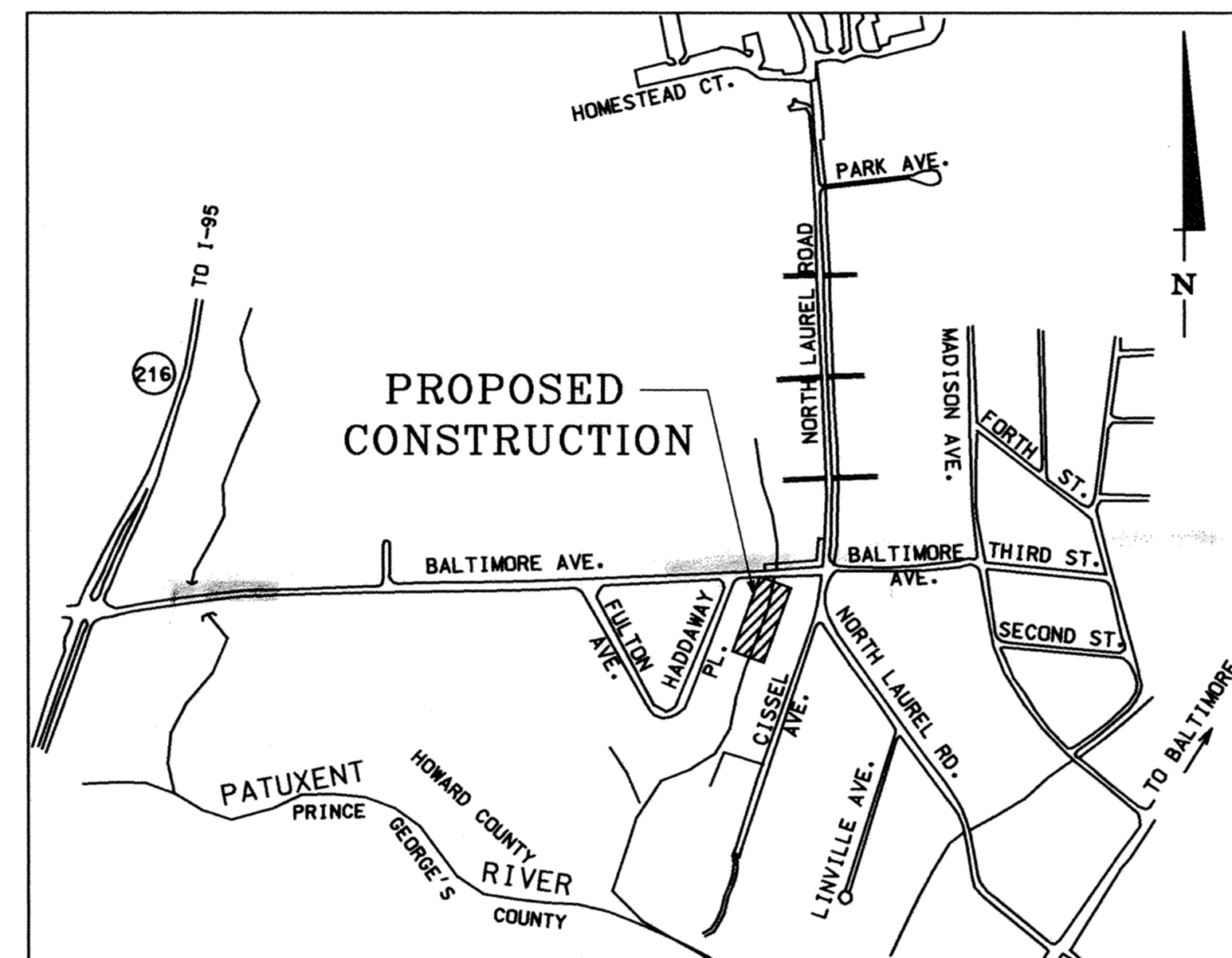
MDE PERMIT/TRACKING NUMBER- 200361475

HOWARD COUNTY  
DEPARTMENT OF PUBLIC WORKS

NORTH LAUREL PARK  
HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT No. D-1146

LEGEND

- LOD LOD LOD LIMITS OF DISTURBANCE
- OSF OSF OSF TREE PROTECTION FENCE
- SIP [ ] INLET PROTECTION
- [ ] STABILIZED CONSTRUCTION ENTRANCE
- [X] TREE TO BE REMOVED
- [ ] EX. BUILDINGS
- WUS WUS WUS WATERS OF THE U.S.
- X X X FENCES
- [\*] EX. TREES
- [ ] PROP. TREES
- 150 MAJOR CONTOUR
- 100 MINOR CONTOUR
- UG UG UG UNDERGROUND ELECTRIC
- [ ] POWER POLE
- T T T AERIAL TELEPHONE LINE



SCALE: 1" = 600'

DESIGN CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF HOWARD SOIL CONSERVATION DISTRICT.

6/21/03 DATE  
Mark Richmond DESIGNER'S SIGNATURE  
MARYLAND REGISTRATION NO. 16898 MARK RICHMOND PRINTED NAME  
(P.E., R.L.S., OR R.L.A.)

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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

7/10/03 DATE  
Howard E. Saltzman OWNER/DEVELOPER SIGNATURE  
Howard E. Saltzman, Chief, Stormwater Management Division PRINTED NAME AND TITLE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jin [Signature] 7/24/03 DATE  
NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

APPROVED [Signature] 7/21/03 DATE  
HOWARD SOIL CONSERVATION DISTRICT

PLOTTED: 10:00 AM on Friday, June 27, 2003  
FILE: \\ms01\c00128\dwg\proj\dwg\114601.dwg

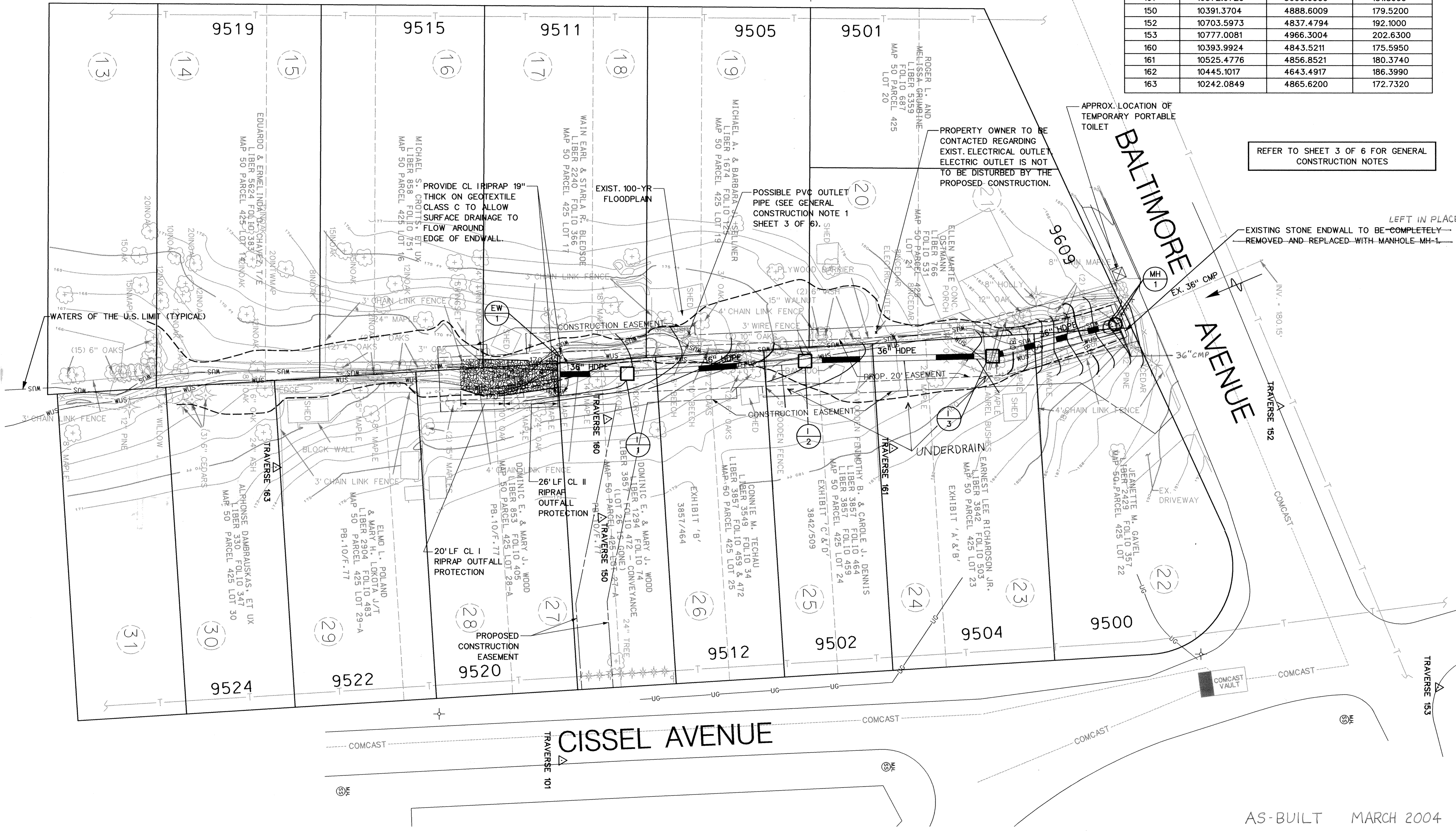
<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p>[Signature] 7/15/03 DATE DIRECTOR OF PUBLIC WORKS</p> <p>[Signature] 7/14/03 DATE CHIEF, BUREAU OF HIGHWAYS</p>	<p>ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS</p> <p>10 North Park Drive Hunt Valley, MD 21030 PHONE: (410) 316-7800 FAX: (410) 316-7817 www.kci.com</p>	<p>Mark S. Richmond Professional Engineer</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DES: DCD</td><td></td><td></td><td></td></tr> <tr><td>DRN: DJS</td><td></td><td></td><td></td></tr> <tr><td>CHK: MSR</td><td></td><td></td><td></td></tr> <tr><td>DATE: 6/03</td><td></td><td></td><td></td></tr> <tr><td>BY</td><td>NO.</td><td>REVISION</td><td>DATE</td></tr> </table>	DES: DCD				DRN: DJS				CHK: MSR				DATE: 6/03				BY	NO.	REVISION	DATE	<p>TITLE SHEET</p>	<p>HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS NORTH LAUREL PARK DRAINAGE IMPROVEMENTS</p> <p>CAPITAL PROJECT D-1146</p>	<p>SCALE AS SHOWN</p> <p>SHEET 1 OF 6</p>
DES: DCD																										
DRN: DJS																										
CHK: MSR																										
DATE: 6/03																										
BY	NO.	REVISION	DATE																							

EP-03-08

# HADDAWAY PLACE

TRAVERSE 162

SURVEY CONTROL			
TRAVERSE	NORTHING	EASTING	ELEVATION
101	10372.9720	5000.0000	181.8600
150	10391.3704	4888.6009	179.5200
152	10703.5973	4837.4794	192.1000
153	10777.0081	4966.3004	202.6300
160	10393.9924	4843.5211	175.5950
161	10525.4776	4856.8521	180.3740
162	10445.1017	4643.4917	186.3990
163	10242.0849	4865.6200	172.7320



REFER TO SHEET 3 OF 6 FOR GENERAL CONSTRUCTION NOTES

PROPERTY OWNER TO BE CONTACTED REGARDING EXIST. ELECTRICAL OUTLET. ELECTRIC OUTLET IS NOT TO BE DISTURBED BY THE PROPOSED CONSTRUCTION.

POSSIBLE PVC OUTLET PIPE (SEE GENERAL CONSTRUCTION NOTE 1 SHEET 3 OF 6).

LEFT IN PLACE  
EXISTING STONE ENDWALL TO BE COMPLETELY REMOVED AND REPLACED WITH MANHOLE MH-1

AS-BUILT MARCH 2004

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 FILE: m:\2000\1003\1003.dwg  
 PLOTTER: HP DesignJet 500

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS	
Director of Public Works <i>[Signature]</i>	Date: 7/15/03	Chief, Bureau of Environmental Services <i>[Signature]</i>	Date: 7/10/03
Chief, Bureau of Highways <i>[Signature]</i>	Date: 7/10/03	Chief, Stormwater Management Division <i>[Signature]</i>	Date: 7/10/03

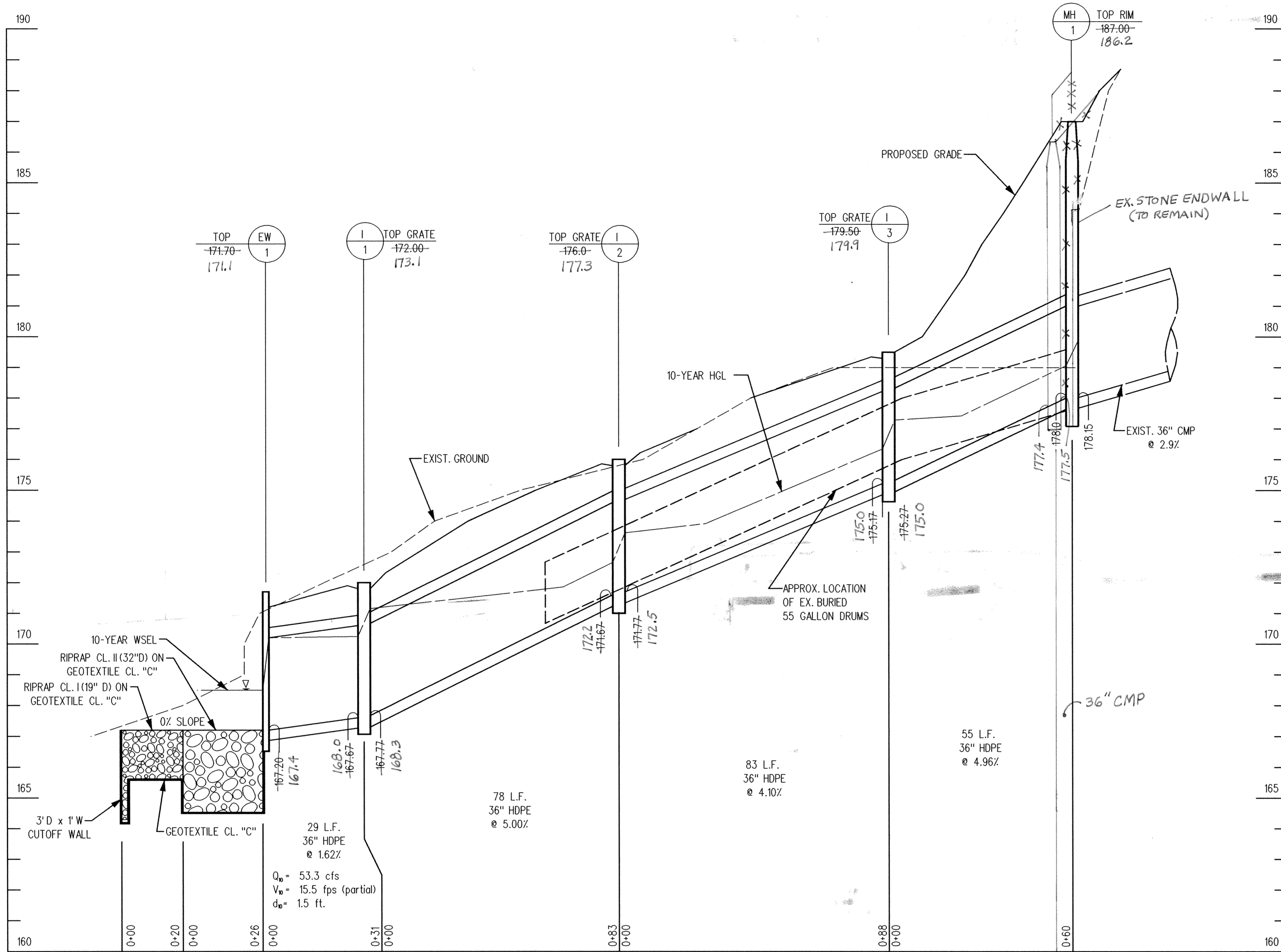
	10 North Park Drive Hunt Valley, MD 21030 Phone: (410) 316-7800 Fax: (410) 316-7817 www.kci.com
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DES:	DCD
DRN:	DJS
CHK:	MSR
DATE:	6/03
BY:	NO.
REVISION:	
DATE:	

SITE PLAN

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS NORTH LAUREL PARK DRAINAGE IMPROVEMENTS CAPITAL PROJECT D-1146	SCALE 1"=20' SHEET 2 OF 6
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**GENERAL CONSTRUCTION NOTES**

1. ANY SUMP PUMP OR OTHER UNDER DRAIN PIPES CURRENTLY DISCHARGING INTO THE EXISTING CHANNEL SHALL BE EXTENDED AND CONNECTED TO THE NEAREST PROPOSED INLET TO INSURE POSITIVE DRAINAGE.
2. PROPOSED FENCES, BUILDING STRUCTURES, AND OTHER OBSTRUCTIONS SHALL NOT BE LOCATED WITHIN THE PROPOSED DRAINAGE EASEMENT.
3. THE EXISTING 55-GALLON DRUM STORM DRAIN PIPE SHALL BE REMOVED AND SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTING THE PROPOSED STORM DRAIN PIPE.
4. ALL PROPOSED INLETS, MANHOLES, AND ENDWALLS SHALL BE PRECAST. ALL PROPOSED INLETS SHALL HAVE A 4' x 2.5' INSIDE DIMENSION. THE 4' DIMENSION SHALL BE ON THE SIDE OF THE INLET WITH THE 36" PIPE.
5. THE TRUNKS OF THE EXISTING TREES TO BE REMOVED SHALL BE CUT INTO FIREWOOD LENGTH LOGS AND LEFT ON THE SAME PROPERTY WHERE THE TREE WAS REMOVED FOR THE HOMEOWNER TO SPLIT AND USE, UNLESS OTHERWISE NOTED IN THE EASEMENT DOCUMENTS.
6. ALL STUMPS OF EXISTING TREES TO BE REMOVED THAT ARE WITHIN 3' OF THE PROPOSED STORM DRAIN PIPE, APPURTENANCES, AND RIPRAP OUTFALL PROTECTION SHALL BE REMOVED AND DISPOSED OF OFFSITE.
7. ALL INLETS SHALL HAVE 6" DIAMETER OPENINGS WITH HARDWARE CLOTH PLACED ON THE OUTSIDE OF THE OPENING. (REFER TO HOWARD CO. STD. SD-4.01, SD-4.02, AND SD-4.23. 6" DIAMETER OPENING TO BE USED IN LIEU OF 4" X 4" OPENING ON STD. DETAILS.)
8. THE GROUND WITHIN 6' OF EACH SIDE OF EACH YARD INLET SHALL BE FINE GRADED TO ALLOW FLOW INTO ALL FOUR SIDES OF THE INLET. SURFACE FLOW AT THE ENDWALL SHALL BE FINE GRADED TO GO AROUND THE EDGES OF THE ENDWALL ON THE RIPRAP AREAS SHOWN ON THE PLANS.
9. ANY EXCAVATED MATERIAL WITH BAMBOO ROOTS SHALL NOT BE USED AS BACKFILL FOR THIS PROJECT.

SCALE: HOR. 1" = 20'  
VERT. 1" = 2'

**STRUCTURE SCHEDULE**

NO.	TYPE	HOWARD CO. STD. NO.	COORDINATES**	TOP ELEV.	INV. OUT	REMARKS
EW-1	TYPE "C" ENDWALL - 36-INCH	SD 5.21	N 10372.1490, E 4822.8822	-171.70	-167.20	
I-1	TYPE "D" INLET - MOD. 4' x 2.5'	MOD. SD 4.11	N 10403.5920, E 4822.6370	-172.00	-167.60	OPENING TO BE PLACED ON ALL 4 SIDES
I-2	TYPE "D" INLET - MOD. 4' x 2.5'	MOD. SD 4.11	N 10485.4800, E 4816.7910	-176.00	-171.67	OPENING TO BE PLACED ON ALL 4 SIDES
I-3	TYPE "D" INLET - MOD. 4' x 2.5'	MOD. SD 4.11	N 10571.7660, E 4814.5440	-179.50	-175.17	OPENING TO BE PLACED ON ALL 4 SIDES
MH-1	5'-0" STD. PRECAST MANHOLE	G 5.13	N 10628.3870, E 4799.9100	-187.00	-178.00	-REPLACE EXISTING ENDWALL-

\* SEE NOTE 4 THIS SHEET.  
\*\* COORDINATES ARE TO CENTER OF STRUCTURE.

SEE ABOVE FOR AS-BUILT ELEVATIONS

AS-BUILT MARCH 2004

PLOTTED: 11:00:01 AM on Friday, June 27, 2003  
FILE: m:\200\10010128.dwg  
PLOT: m:\200\10010128.dwg

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>James P. Shaw</i> 7/15/03 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>Edward S. Salzman</i> 7/16/03 CHIEF, BUREAU OF HIGHWAYS DATE</p>	<p>ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS</p> <p><b>KCI</b> TECHNOLOGIES</p> <p>10 NORTH PARK DRIVE HUNT VALLEY, MD 21030 PHONE (410) 316-7800 FAX (410) 316-7817 www.kci.com</p>	<p>DES: DCD</p> <p>DRN: DJS</p> <p>CHK: MSR</p> <p>DATE: 6/03</p>	<p><b>STORM DRAIN PROFILE</b></p>	<p>HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>NORTH LAUREL PARK DRAINAGE IMPROVEMENTS</p> <p>CAPITAL PROJECT D-1146</p>	<p>SCALE AS SHOWN</p> <p>SHEET 3 OF 6</p>
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# HADDADWAY PLACE

TRAVERSE 162



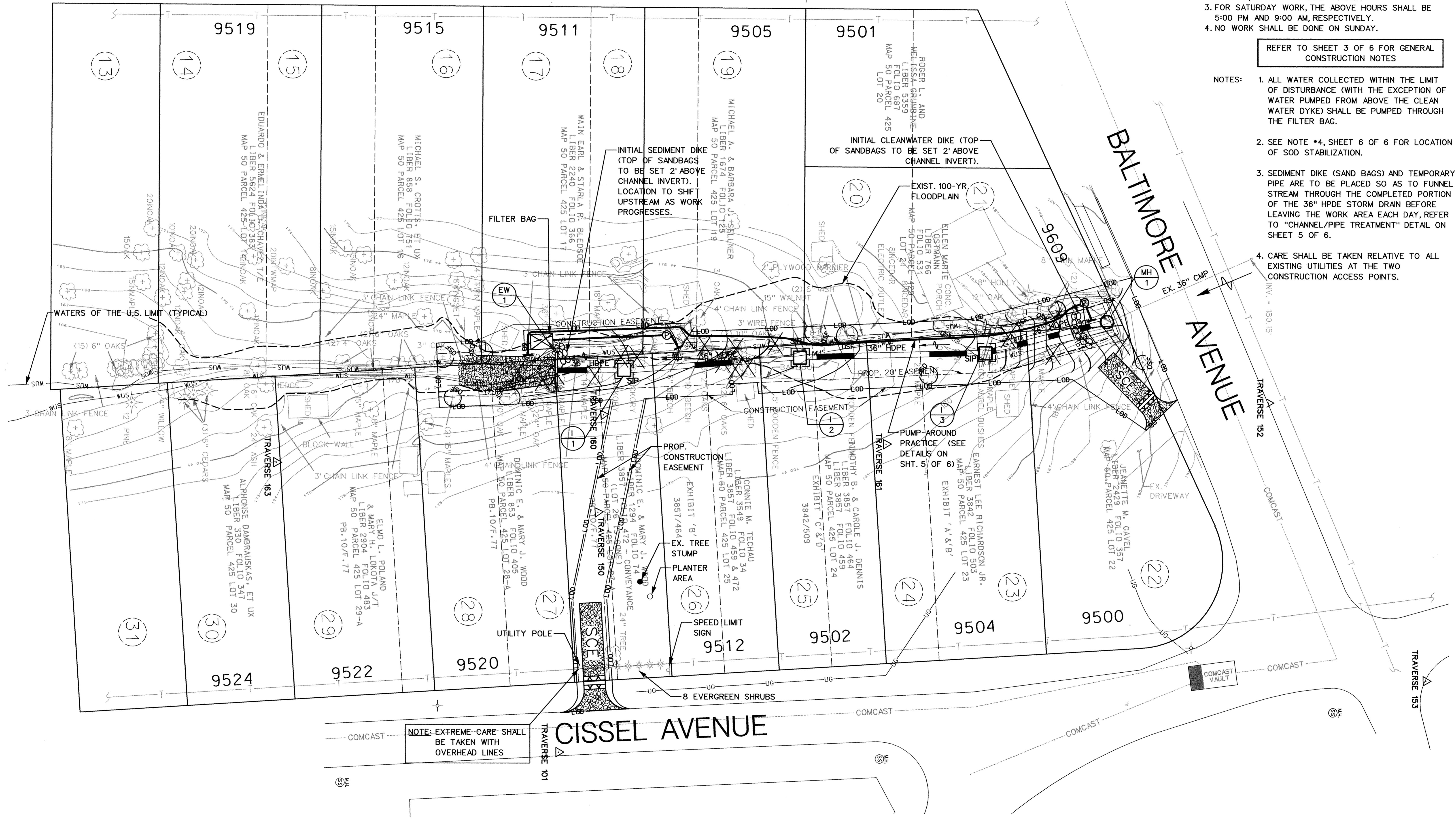
### TIME RESTRICTION NOTES:

1. PUMPING IS NOT PERMITTED BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM, MONDAY THROUGH FRIDAY.
2. CONSTRUCTION EQUIPMENT SHALL NOT BE STARTED NOR RUN BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM, MONDAY THROUGH FRIDAY.
3. FOR SATURDAY WORK, THE ABOVE HOURS SHALL BE 5:00 PM AND 9:00 AM, RESPECTIVELY.
4. NO WORK SHALL BE DONE ON SUNDAY.

REFER TO SHEET 3 OF 6 FOR GENERAL CONSTRUCTION NOTES

### NOTES:

1. ALL WATER COLLECTED WITHIN THE LIMIT OF DISTURBANCE (WITH THE EXCEPTION OF WATER PUMPED FROM ABOVE THE CLEAN WATER DYKE) SHALL BE PUMPED THROUGH THE FILTER BAG.
2. SEE NOTE #4, SHEET 6 OF 6 FOR LOCATION OF SOD STABILIZATION.
3. SEDIMENT DIKE (SAND BAGS) AND TEMPORARY PIPE ARE TO BE PLACED SO AS TO FUNNEL STREAM THROUGH THE COMPLETED PORTION OF THE 36" HDPE STORM DRAIN BEFORE LEAVING THE WORK AREA EACH DAY, REFER TO "CHANNEL/PIPE TREATMENT" DETAIL ON SHEET 5 OF 6.
4. CARE SHALL BE TAKEN RELATIVE TO ALL EXISTING UTILITIES AT THE TWO CONSTRUCTION ACCESS POINTS.



NOTE: EXTREME CARE SHALL BE TAKEN WITH OVERHEAD LINES

PLOTTED: 10:11 AM on Friday, June 27, 2003  
 User: Jon\_Scott  
 Plot: D:\Projects\2003\1146\1146.dwg  
 File: 1146.dwg

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
[Signature] DIRECTOR OF PUBLIC WORKS DATE: 7/15/03	[Signature] CHIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE: 7/10/03
[Signature] CHIEF, BUREAU OF HIGHWAYS DATE: 7/10/03	[Signature] CHIEF, STORMWATER MANAGEMENT DIVISION DATE: 7/10/03

ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS  
 10 NORTH DIXIE DRIVE  
 HUNT VALLEY, MD 21030  
 PHONE: (410) 316-7800  
 FAX: (410) 316-7817  
 WWW.KCI.COM



DES: DCD				
DRN: DJS				
CHK: MSR				
DATE: 6/03	BY:	NO.:	REVISION:	DATE:

SEDIMENT AND EROSION CONTROL PLAN  
 DATE: 600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS NORTH LAUREL PARK DRAINAGE IMPROVEMENTS CAPITAL PROJECT D-1146	SCALE: 1"=20' SHEET: 4 OF 6
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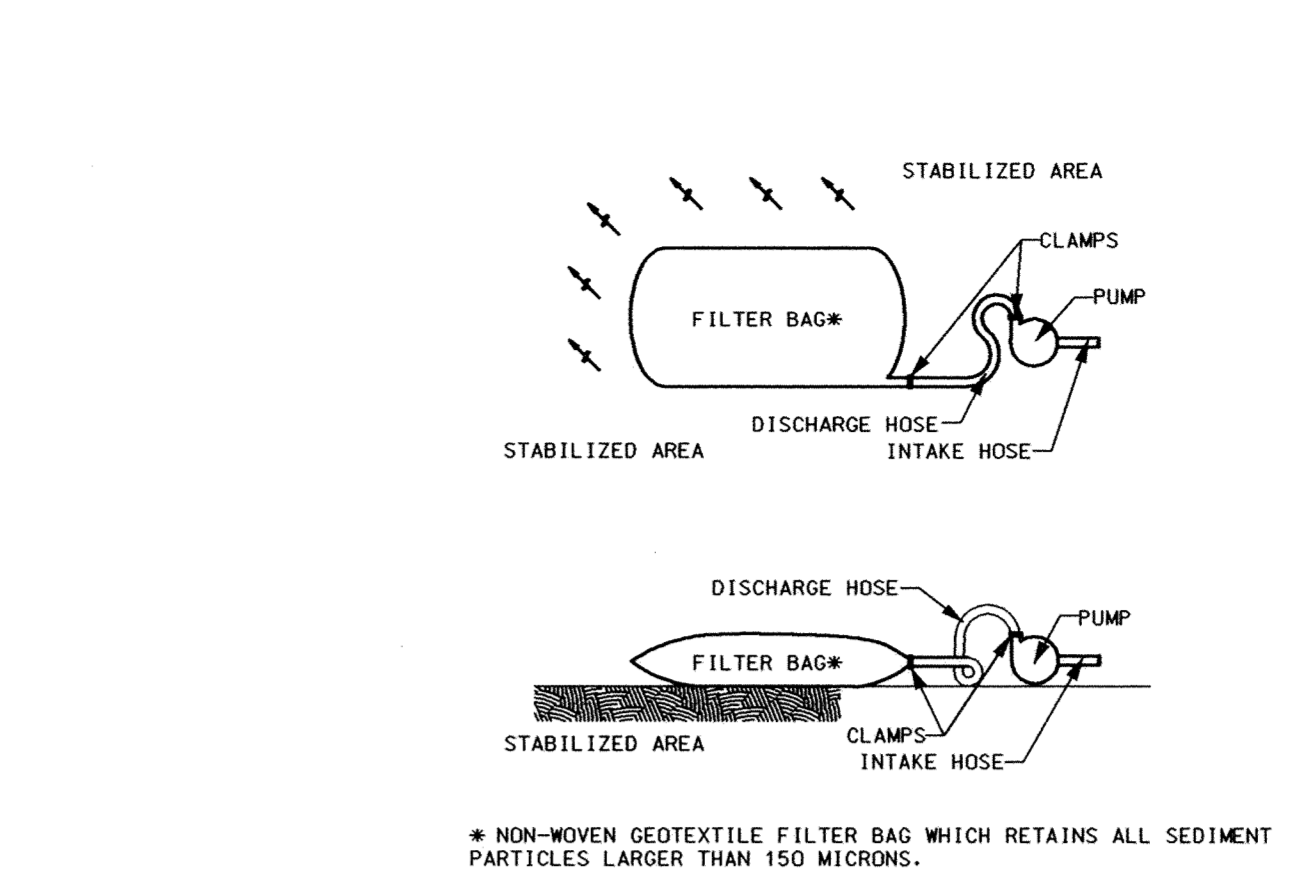
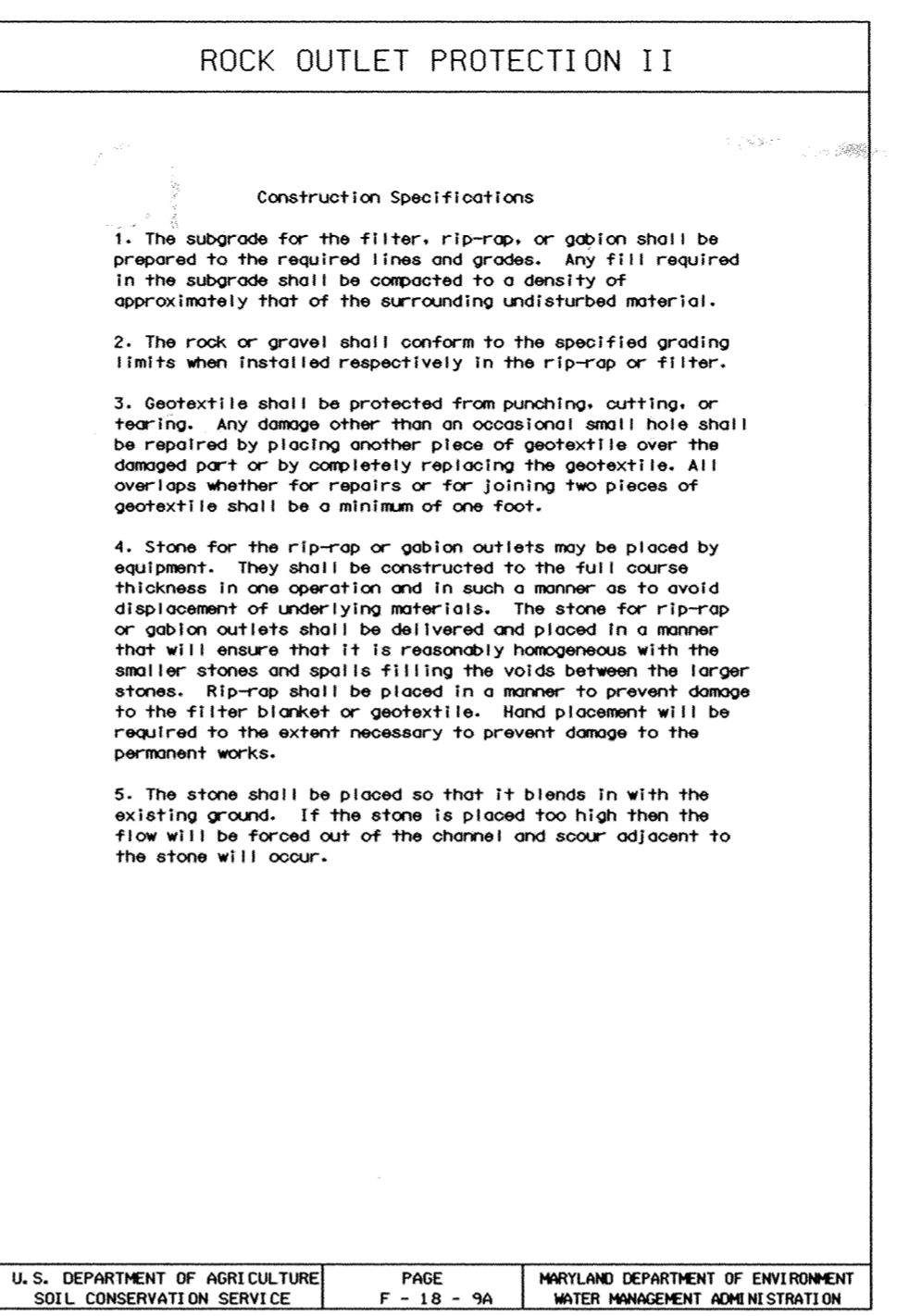
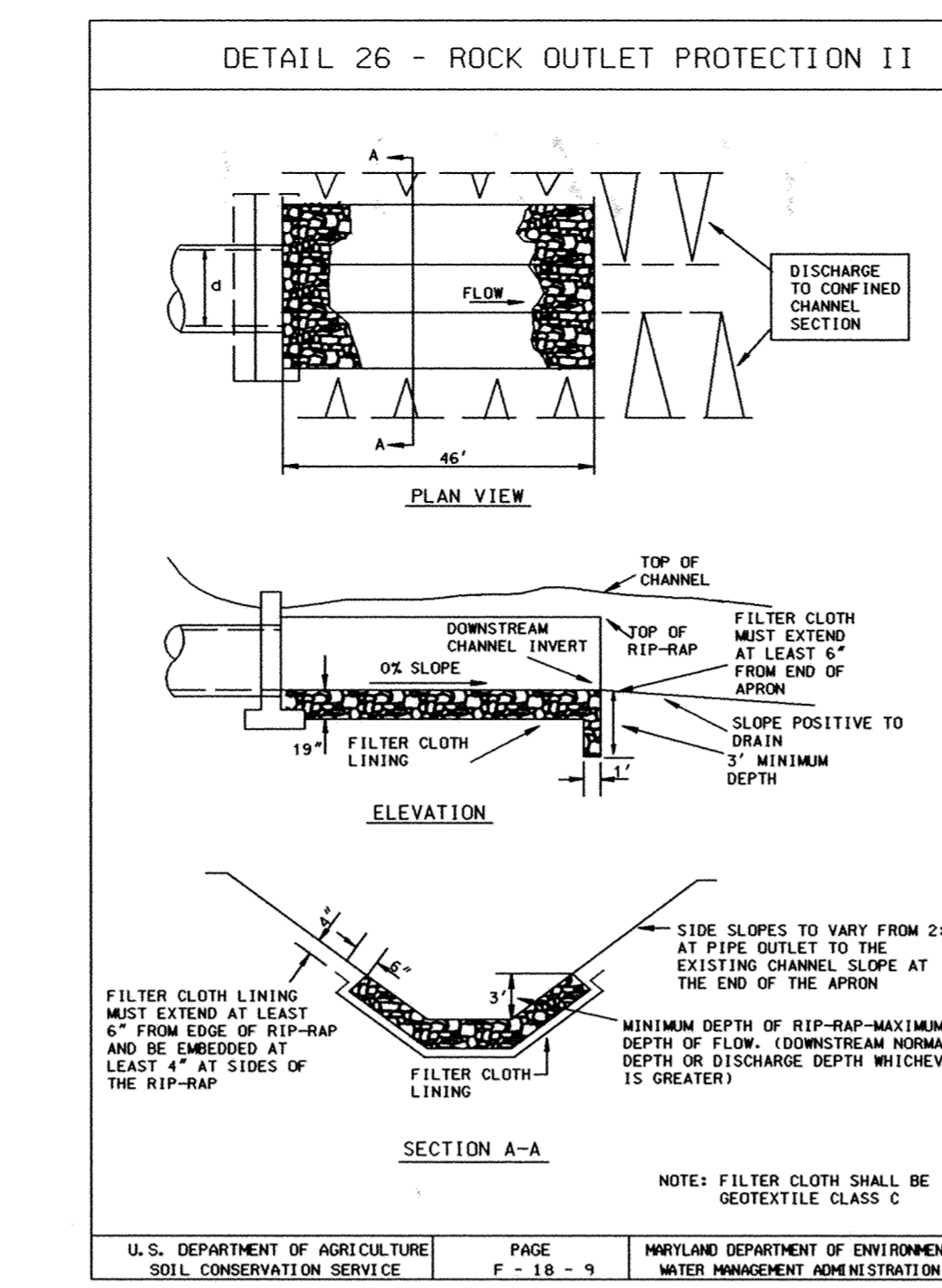
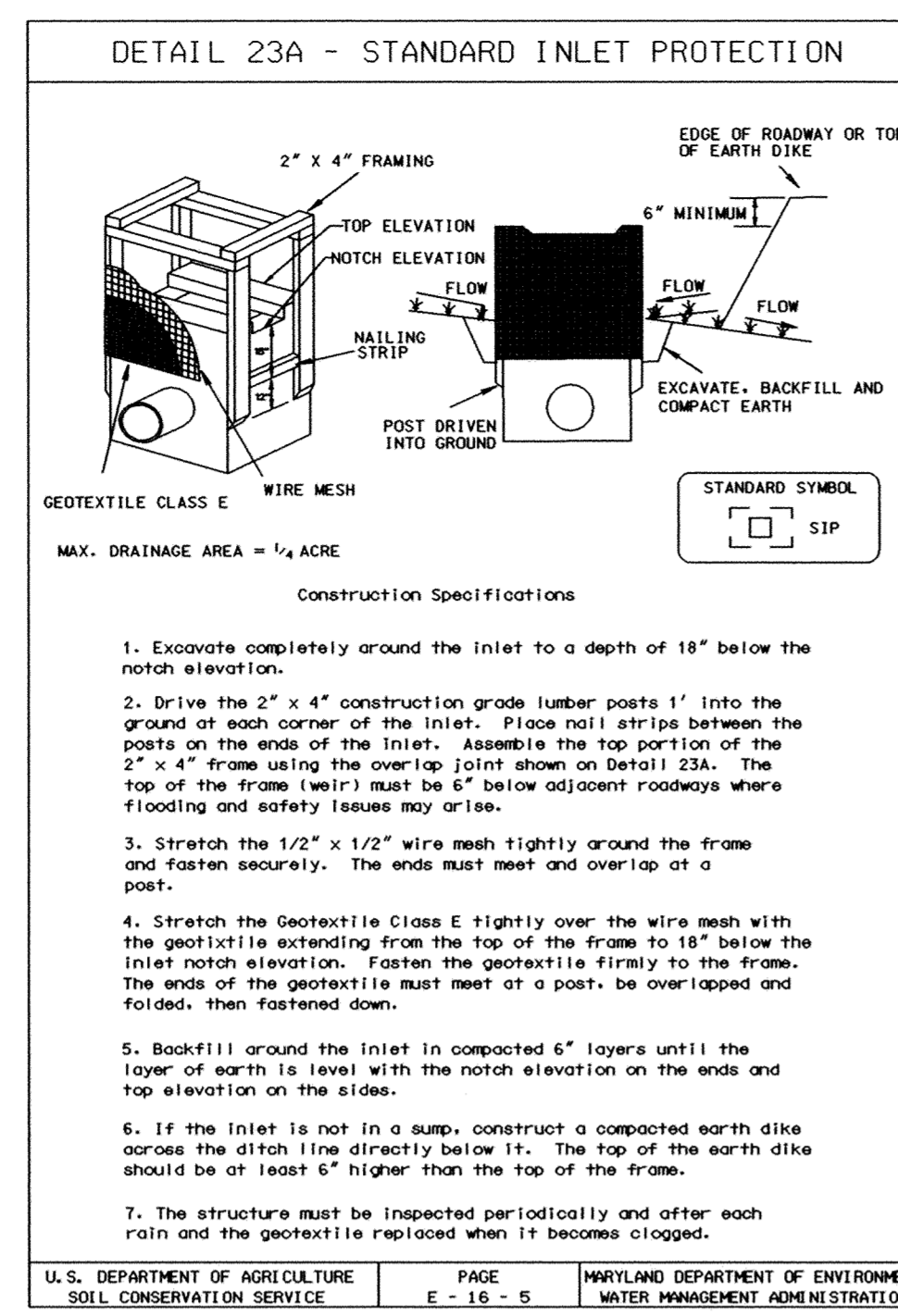
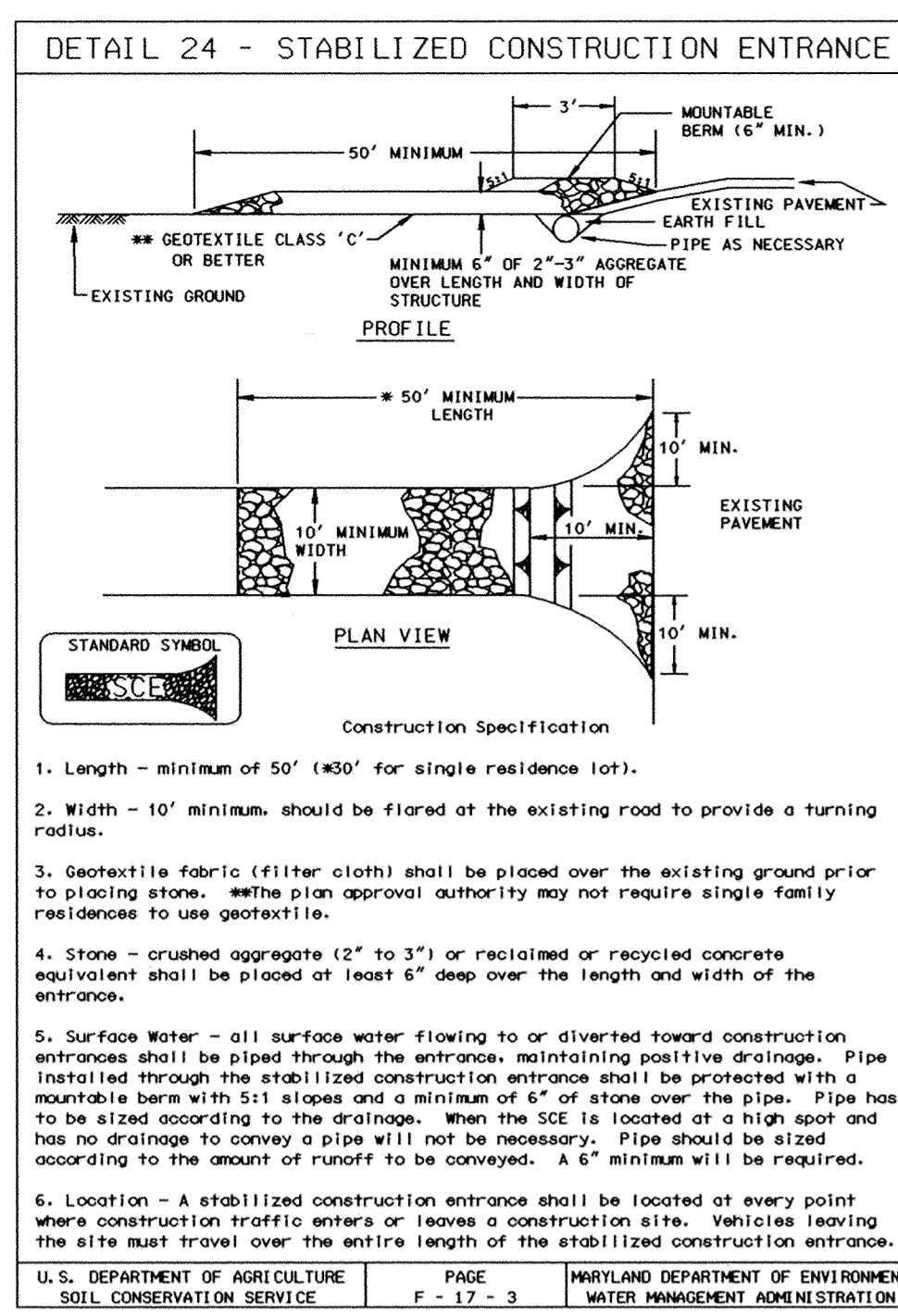


Table with 4 columns: CLASS, APPARENT OPENING SIZE MM MAX, GRAB TENSILE STRENGTH LB. MIN., BURST STRENGTH PSIMIN. Rows include A, B, C, D, E, F (SILT FENCE).

HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES. Apply to graded or cleared areas likely to be re-disturbed...

HOWARD COUNTY CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES. A minimum of 48 hours notice must be given to the Howard County Department of Inspections...

MWC 1.2: PUMP-AROUND PRACTICE. Temporary measure for dewatering in-channel construction sites. Includes description and implementation sequence.

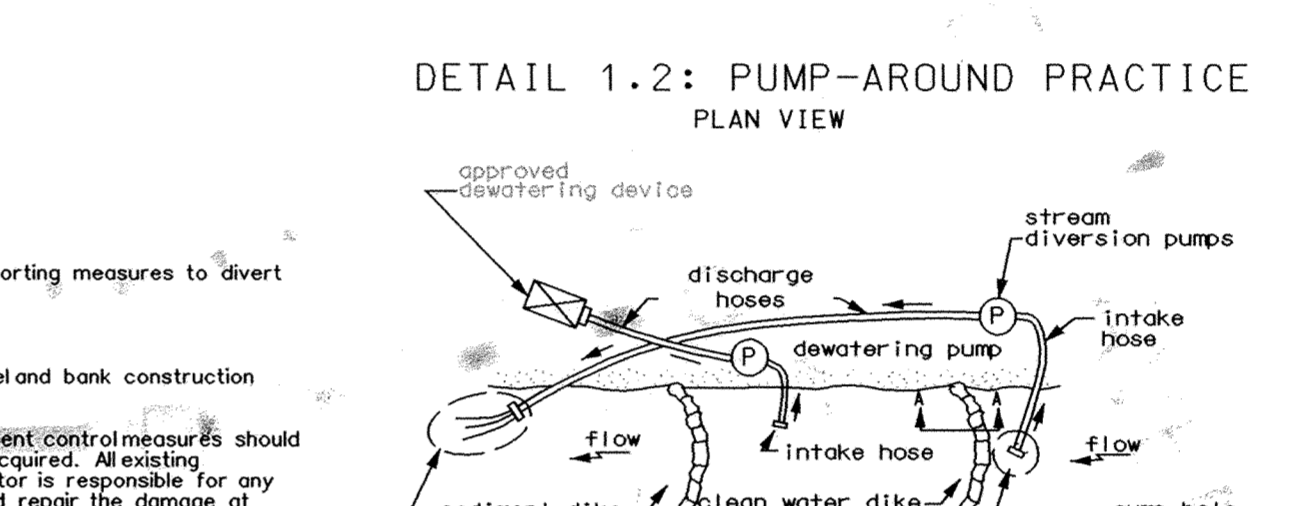
NOTES: 1. PLACE FILTER BAGS ON STABLE OR WELL VEGETATED AREAS WHICH ARE FLATTER THAN 5% AND WILL NOT ERODE WHEN SUBJECTED TO BAG DISCHARGES. 2. CLAMP PUMP DISCHARGE HOSES SECURELY INTO FILTER BAGS.

24.0. MATERIALS AND SPECIFICATIONS TABLE 27 GEOTEXTILE FABRICS. Properties shall be determined in accordance with the following procedures: APPARENT OPENING SIZE MSMT 323, GRAB TENSILE STRENGTH ASTM D 1682 4"x8" SPECIMEN 1"x2" CLAMPS, 12" MM. STRAIN RATE IN BOTH PRINCIPAL DIRECTIONS OF GEOTEXTILE FABRIC.

HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES. Apply to graded or cleared areas likely to be re-disturbed where a permanent vegetative cover is needed.

HOWARD COUNTY CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (315-1855).

MWC 1.2: PUMP-AROUND PRACTICE. Temporary measure for dewatering in-channel construction sites. Includes description and implementation sequence.



THE PROPERTIES SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES: APPARENT OPENING SIZE MSMT 323, GRAB TENSILE STRENGTH ASTM D 1682 4"x8" SPECIMEN 1"x2" CLAMPS, 12" MM. STRAIN RATE IN BOTH PRINCIPAL DIRECTIONS OF GEOTEXTILE FABRIC.

HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES. Apply to graded or cleared areas likely to be re-disturbed where a permanent vegetative cover is needed.

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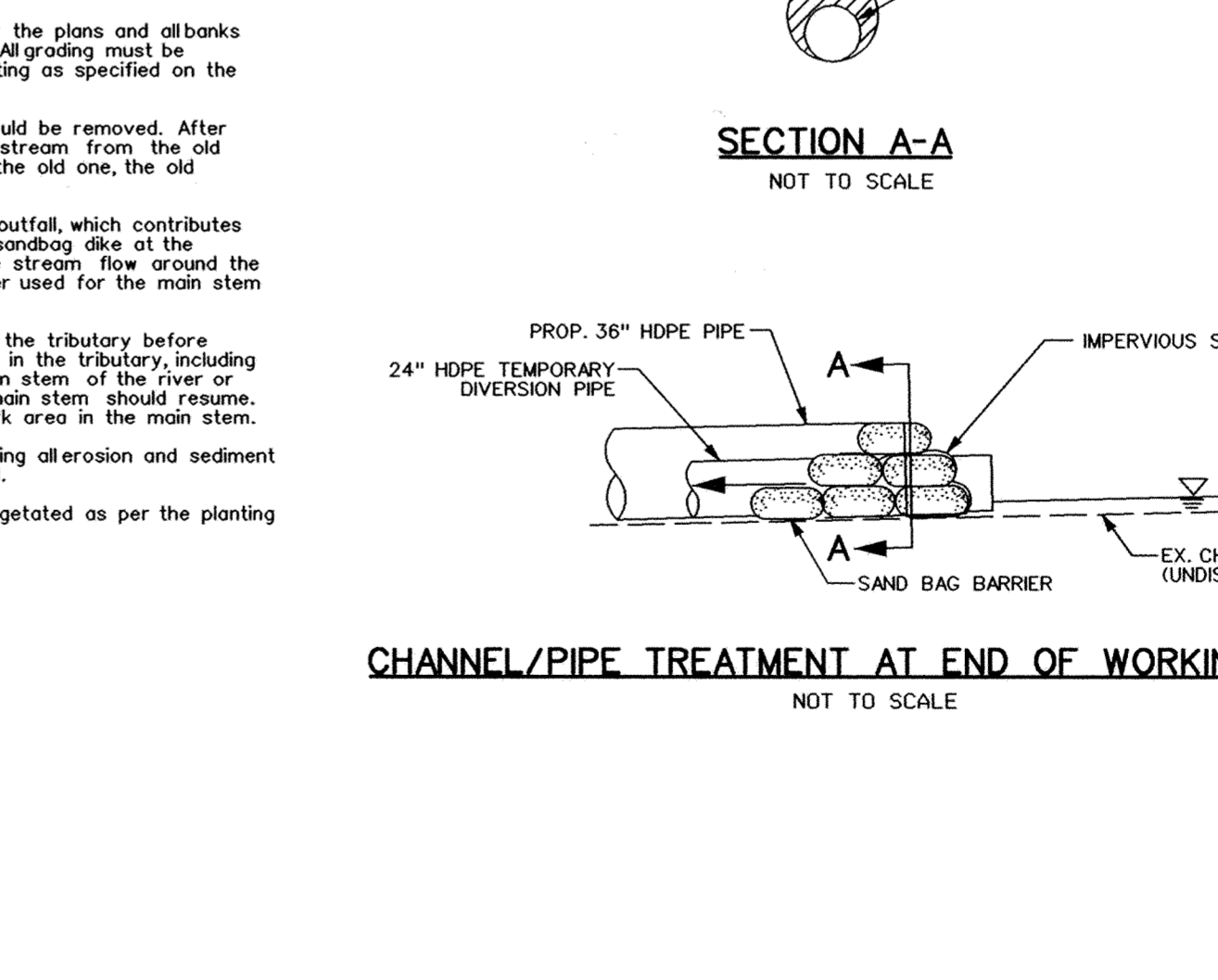
HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES. Apply to graded or cleared areas likely to be re-disturbed where a permanent vegetative cover is needed. Includes sections for General specifications, Sod installation, and Sod Maintenance.

HOWARD COUNTY CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (315-1855).

MWC 1.2: PUMP-AROUND PRACTICE. Temporary measure for dewatering in-channel construction sites. Includes description and implementation sequence.

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NOTES: 1. PLACE FILTER BAGS ON STABLE OR WELL VEGETATED AREAS WHICH ARE FLATTER THAN 5% AND WILL NOT ERODE WHEN SUBJECTED TO BAG DISCHARGES. 2. CLAMP PUMP DISCHARGE HOSES SECURELY INTO FILTER BAGS.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. Includes signatures and dates for Director of Public Works and Chief, Bureau of Highways.

ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS. Includes logo for KCI TECHNOLOGIES and contact information.

DES: DCD DRN: DJS CHK: MSR DATE: 6/03. Includes a circular seal for the State of Maryland.

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS. Includes fields for REVISION, DATE, and BLOCK NO.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS NORTH LAUREL PARK DRAINAGE IMPROVEMENTS. Includes fields for SCALE, SHEET, and CAPITAL PROJECT D-1146.

SCALE AS SHOWN SHEET 5 OF 6. Includes fields for REVISION, DATE, and BLOCK NO.

PLOTTED: 10:11 AM on Friday, June 27, 2003. BY: Don Smith, Division: Water Resources. FILE: m:\2003\0010128\Drawings\pdp2mfr.dgn

# HADDAWAY PLACE

TRAVERSE 162

REFER TO SHEET 3 OF 6 FOR GENERAL CONSTRUCTION NOTES

## RECOMMENDED TREE SPECIES

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	TYPE	SYMBOL
Acer rubrum	Red Maple	1" cal.	SEE NOTE *1	B&B	○
Liriodendron tulipifera	Tulip Poplar	1" cal.	SEE NOTE *1	B&B	○
Fraxinus pennsylvanica	Green Ash	1" cal.	SEE NOTE *1	B&B	○
Quercus phellos	Willow Oak	1" cal.	SEE NOTE *1	B&B	○
Ilex x meserveae	Blue Princess Holly	3' height	SEE NOTE *2	B&B	o

NOTES: 1. TREES TO BE PLANTED AT LOCATIONS SHOWN AT APPROXIMATELY 17' ON CENTER LINEARLY. SPECIES TO BE SELECTED BY HOMEOWNERS FROM LIST ABOVE.

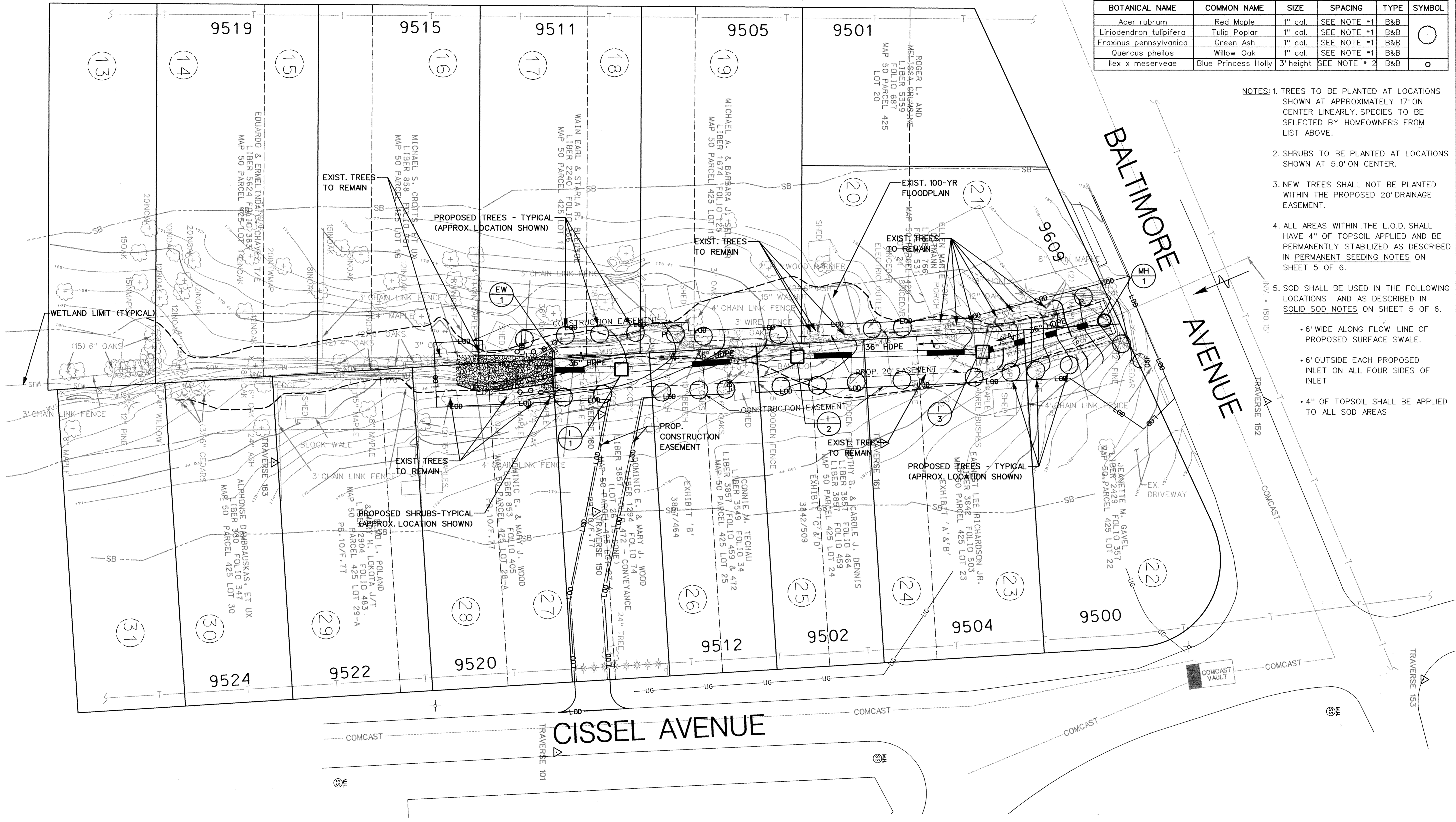
2. SHRUBS TO BE PLANTED AT LOCATIONS SHOWN AT 5.0' ON CENTER.

3. NEW TREES SHALL NOT BE PLANTED WITHIN THE PROPOSED 20' DRAINAGE EASEMENT.

4. ALL AREAS WITHIN THE L.O.D. SHALL HAVE 4" OF TOPSOIL APPLIED AND BE PERMANENTLY STABILIZED AS DESCRIBED IN PERMANENT SEEDING NOTES ON SHEET 5 OF 6.

5. SOD SHALL BE USED IN THE FOLLOWING LOCATIONS AND AS DESCRIBED IN SOLID SOD NOTES ON SHEET 5 OF 6.

- 6' WIDE ALONG FLOW LINE OF PROPOSED SURFACE SWALE.
- 6' OUTSIDE EACH PROPOSED INLET ON ALL FOUR SIDES OF INLET
- 4" OF TOPSOIL SHALL BE APPLIED TO ALL SOD AREAS



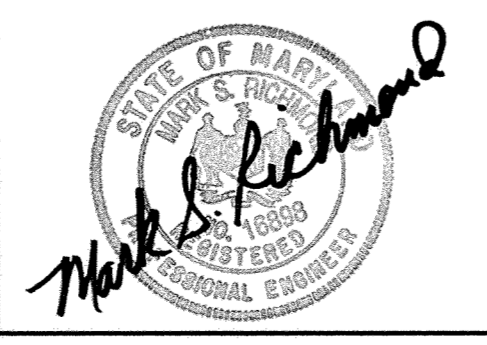
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By: Don Smith, Director of Public Works  
FILE: m:\2003\1012\1012.dwg

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*John G. Williams* 7/15/03  
DIRECTOR OF PUBLIC WORKS DATE  
*Howard C. Sellman* 7/10/03  
CHIEF, BUREAU OF HIGHWAYS DATE

*Robert O'Hara* 7/10/03  
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE  
*Howard C. Sellman* 7/10/03  
CHIEF, STORMWATER MANAGEMENT DIVISION DATE

**KCI** TECHNOLOGIES  
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DES: DCD					
DRN: DJS					
CHK: MSR					
DATE: 6/03					
BY	NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.

## LANDSCAPE PLAN

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
NORTH LAUREL PARK  
DRAINAGE IMPROVEMENTS

CAPITAL PROJECT D-1146

SCALE  
1"=20'  
SHEET  
6 OF 6